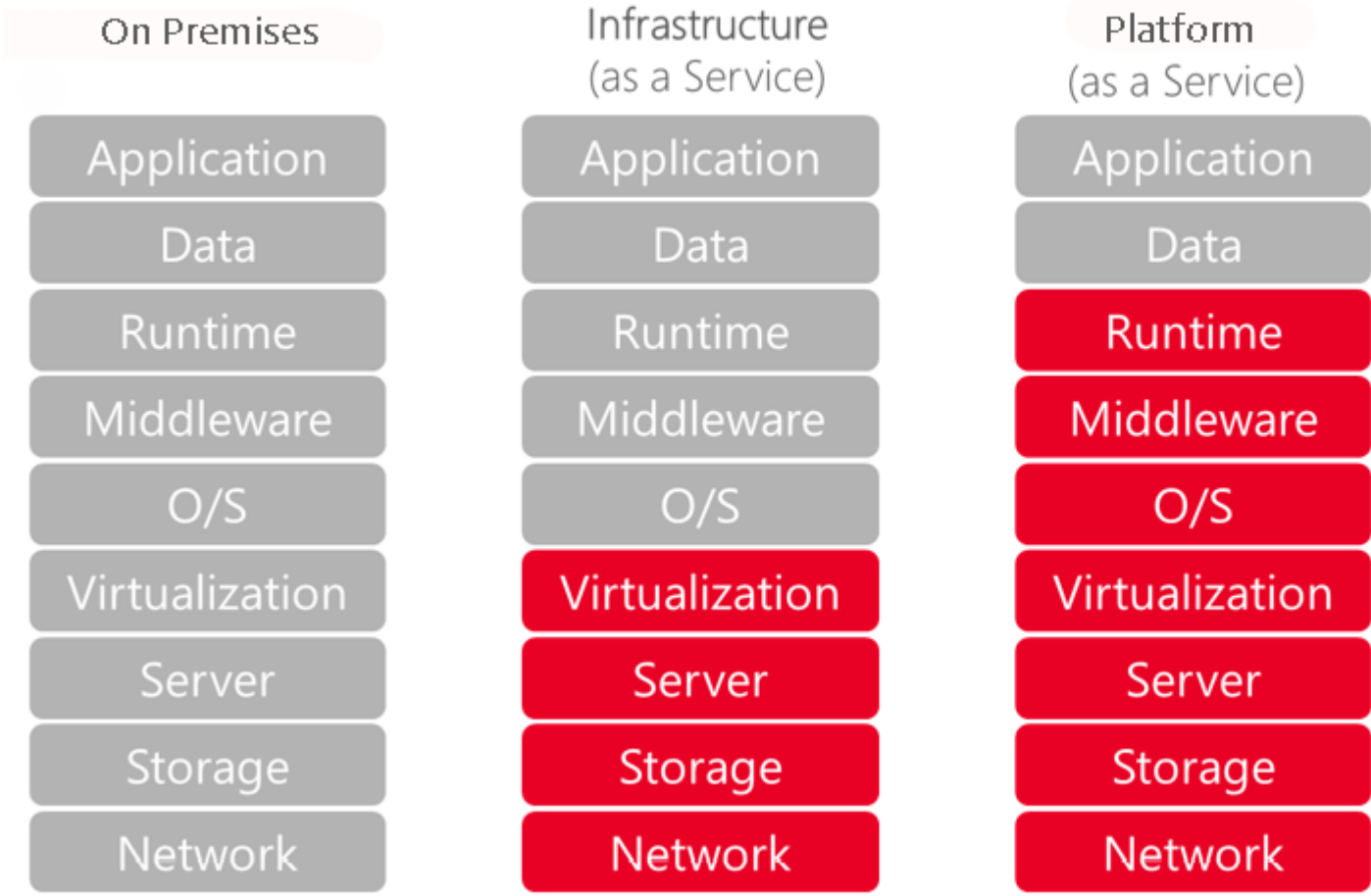
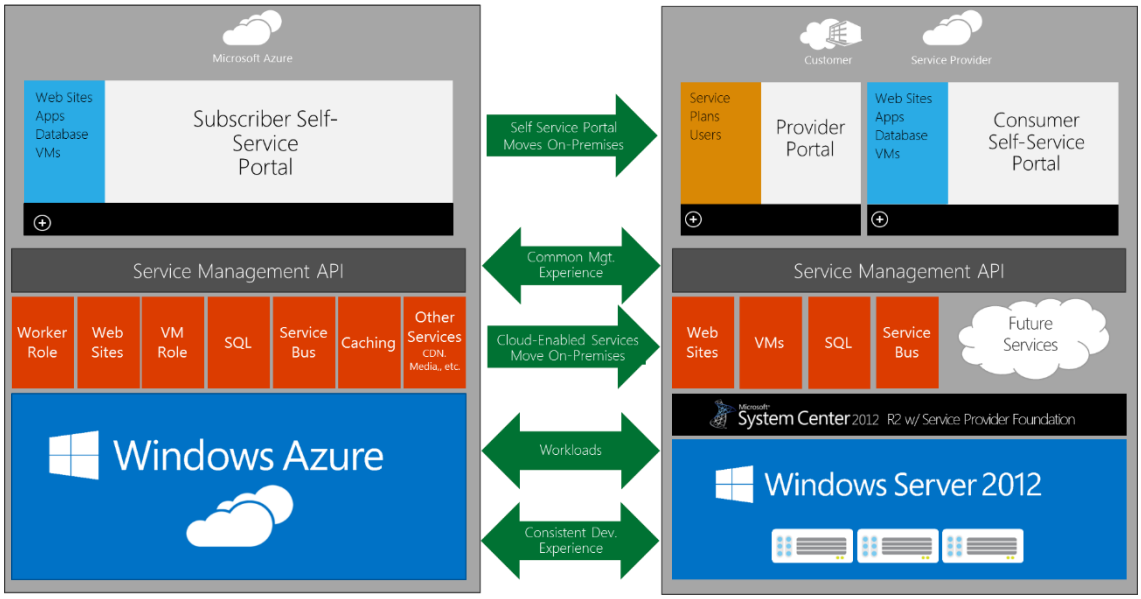
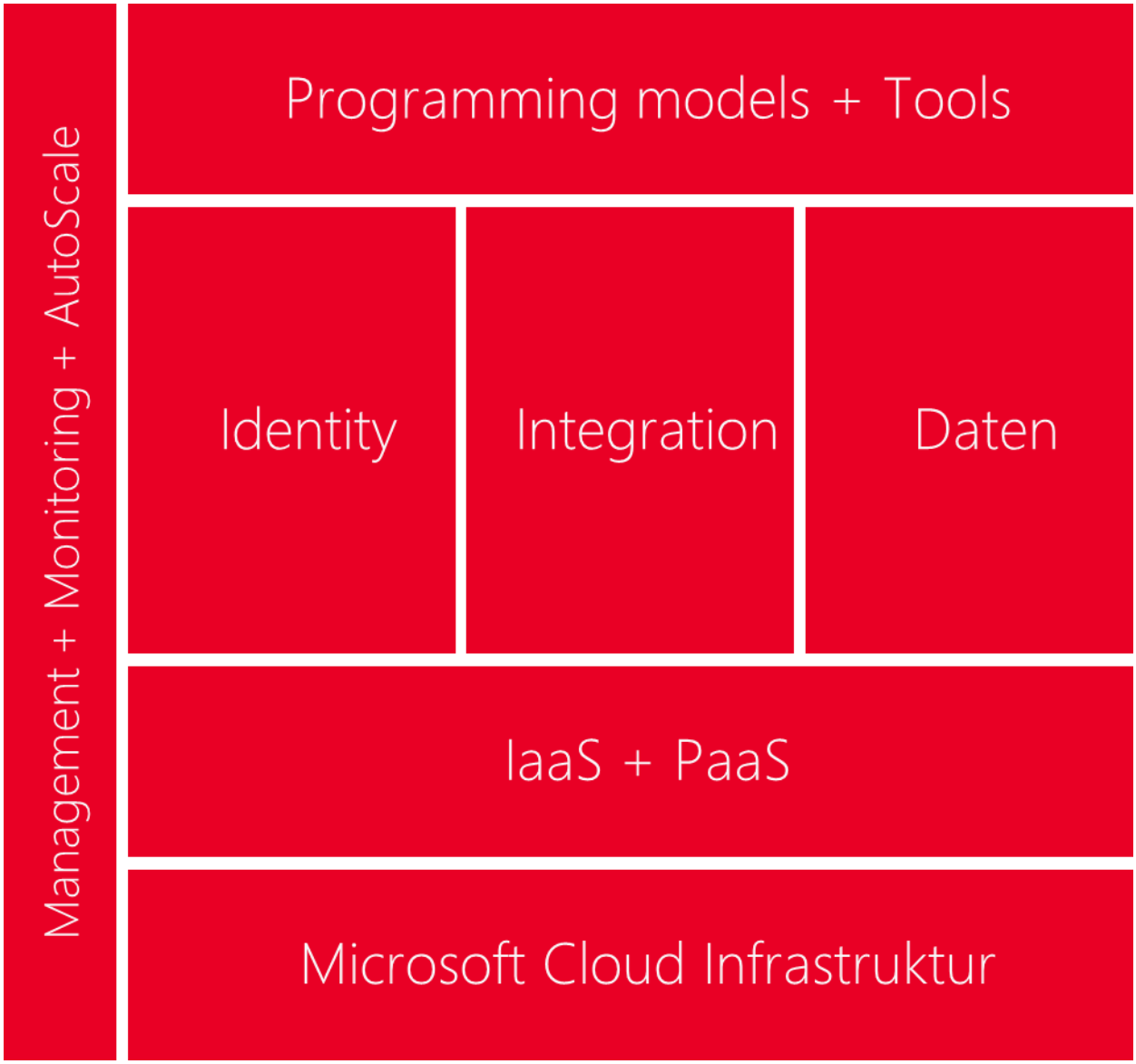
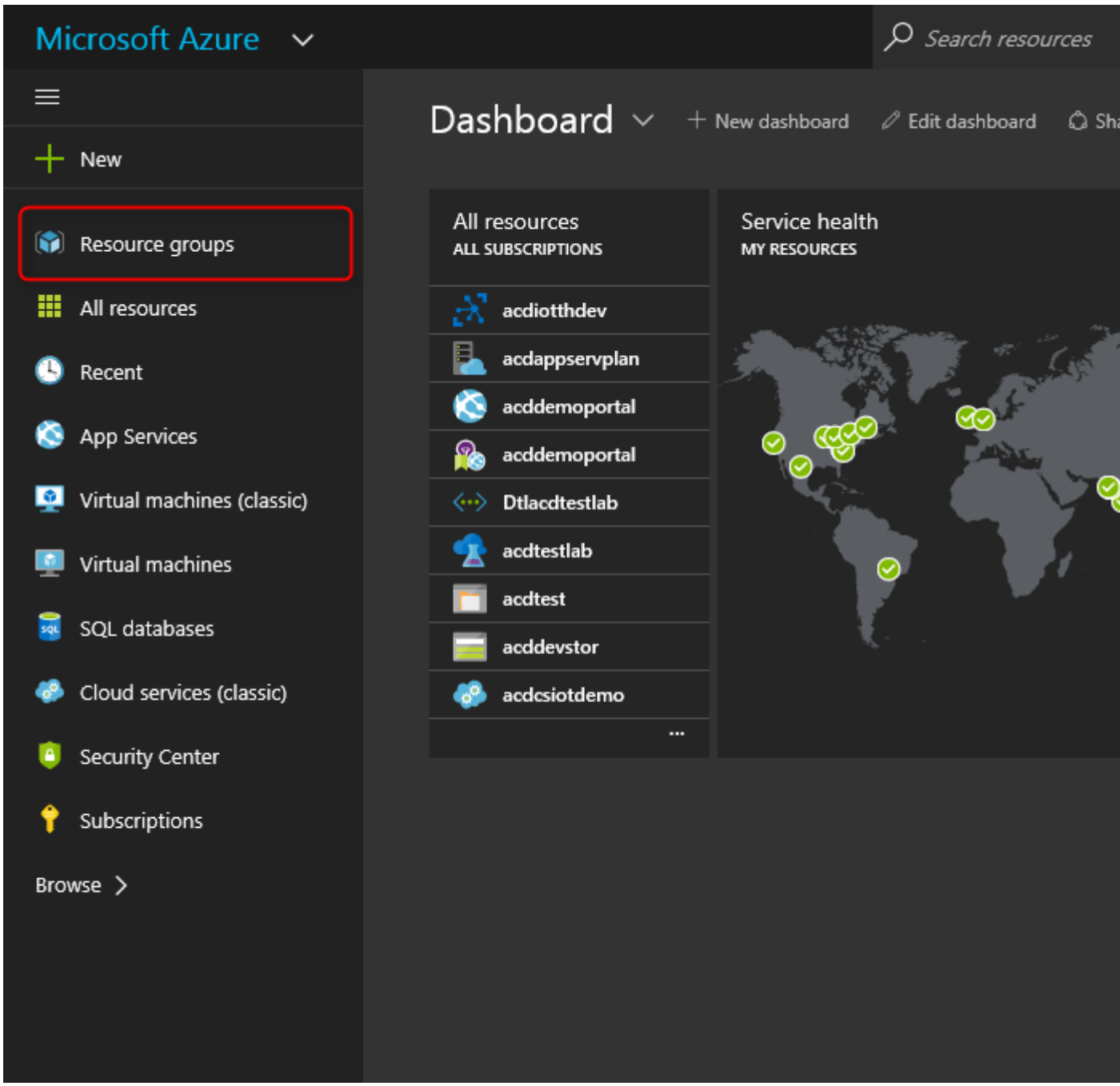
Chapter 1: Getting Started with Azure Implementation

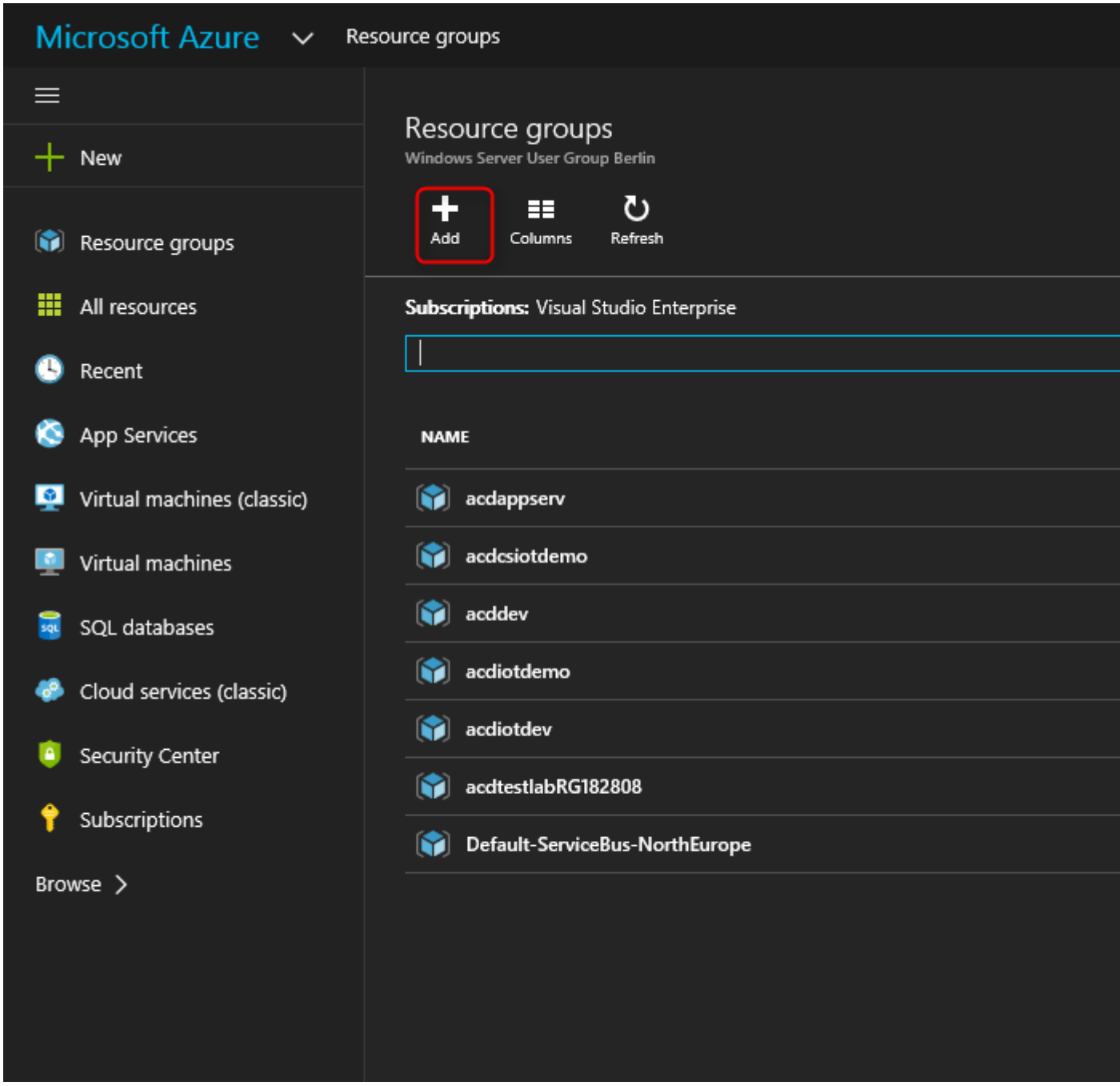





Management + Monitoring + AutoScale
Programming models + Tools
Identity
Integration
Daten
IaaS + PaaS
Microsoft Cloud Infrastruktur

Chapter 2: Azure Resource Manager and Tools




Microsoft Azure
Resource groups
New
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Browse
Resource groups
Windows Server User Group Berlin
Add
Columns
Refresh
Subscriptions: Visual Studio Enterprise
NAME
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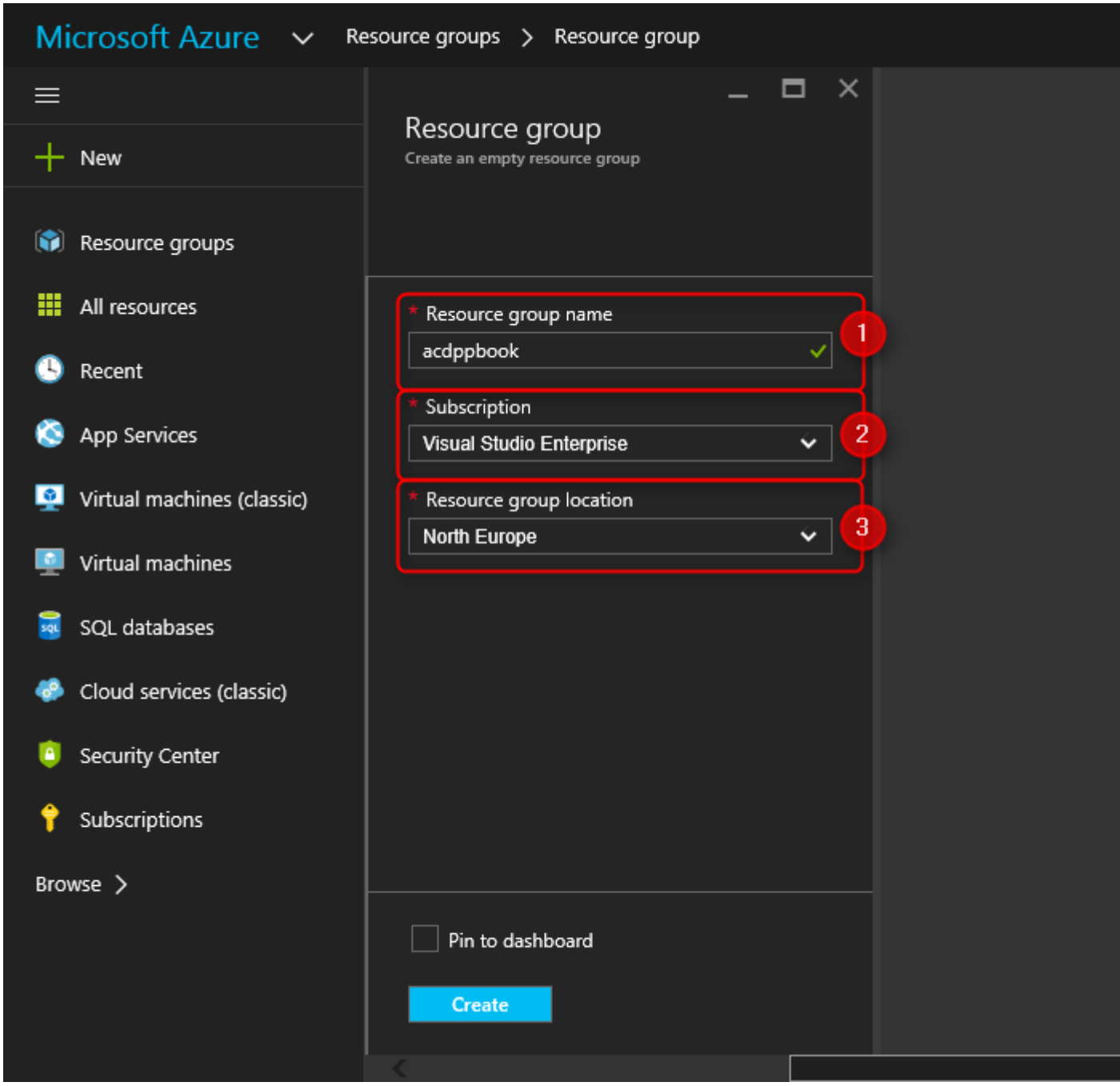
acddev
acdiotdemo
acdiotdev
acdtestlabRG182808
Default-ServiceBus-NorthEurope


Microsoft Azure
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App Services
Virtual machines (classic)
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SQL databases
Cloud services (classic)
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Subscriptions
Browse
Resource group
Create an empty resource group
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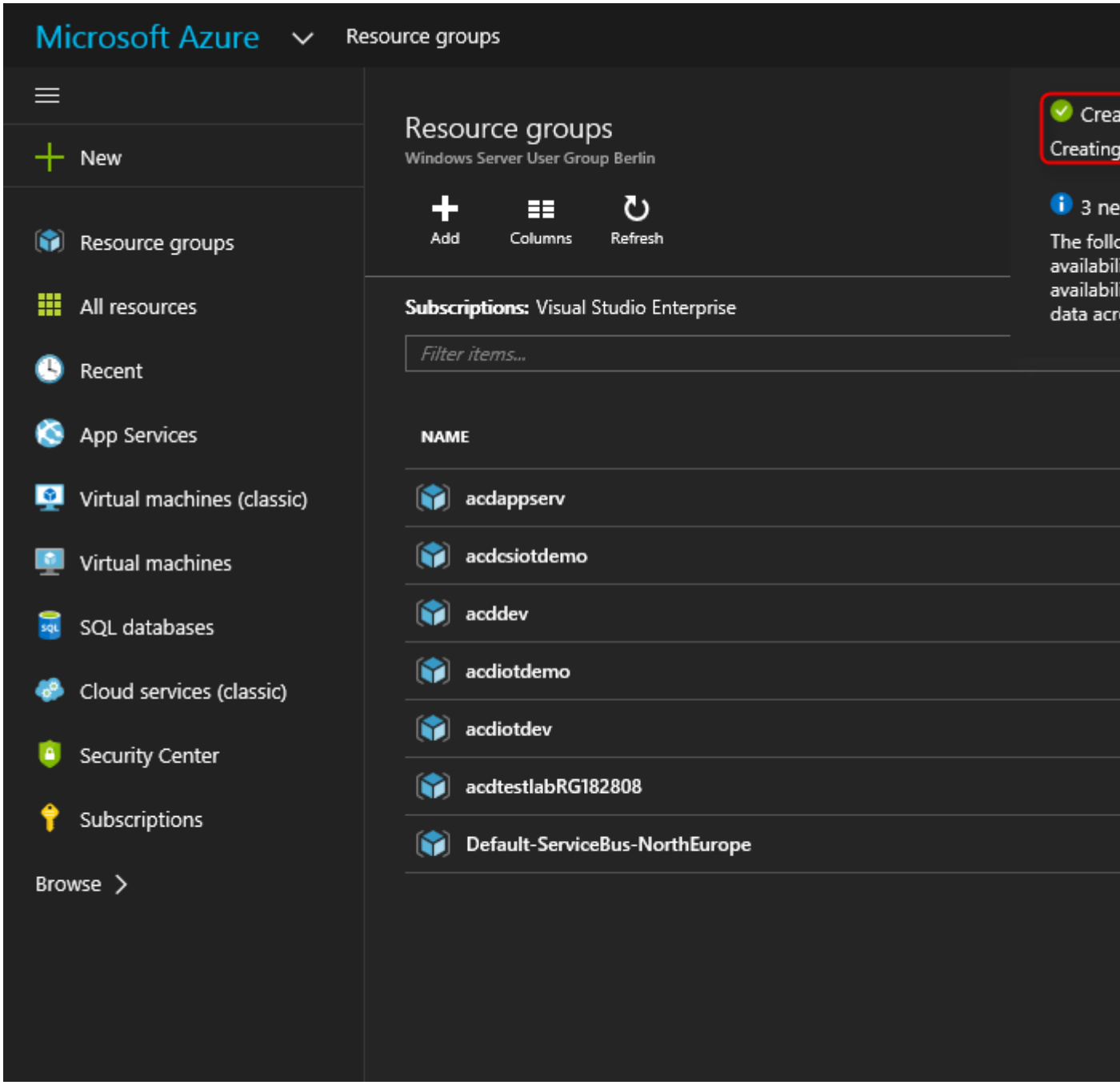
1
* Subscription
Visual Studio Enterprise
2
* Resource group location
North Europe
3
Pin to dashboard
Create


Microsoft Azure
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Cloud services (classic)
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Columns
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Subscriptions: Visual Studio Enterprise
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acdcsiotdemo
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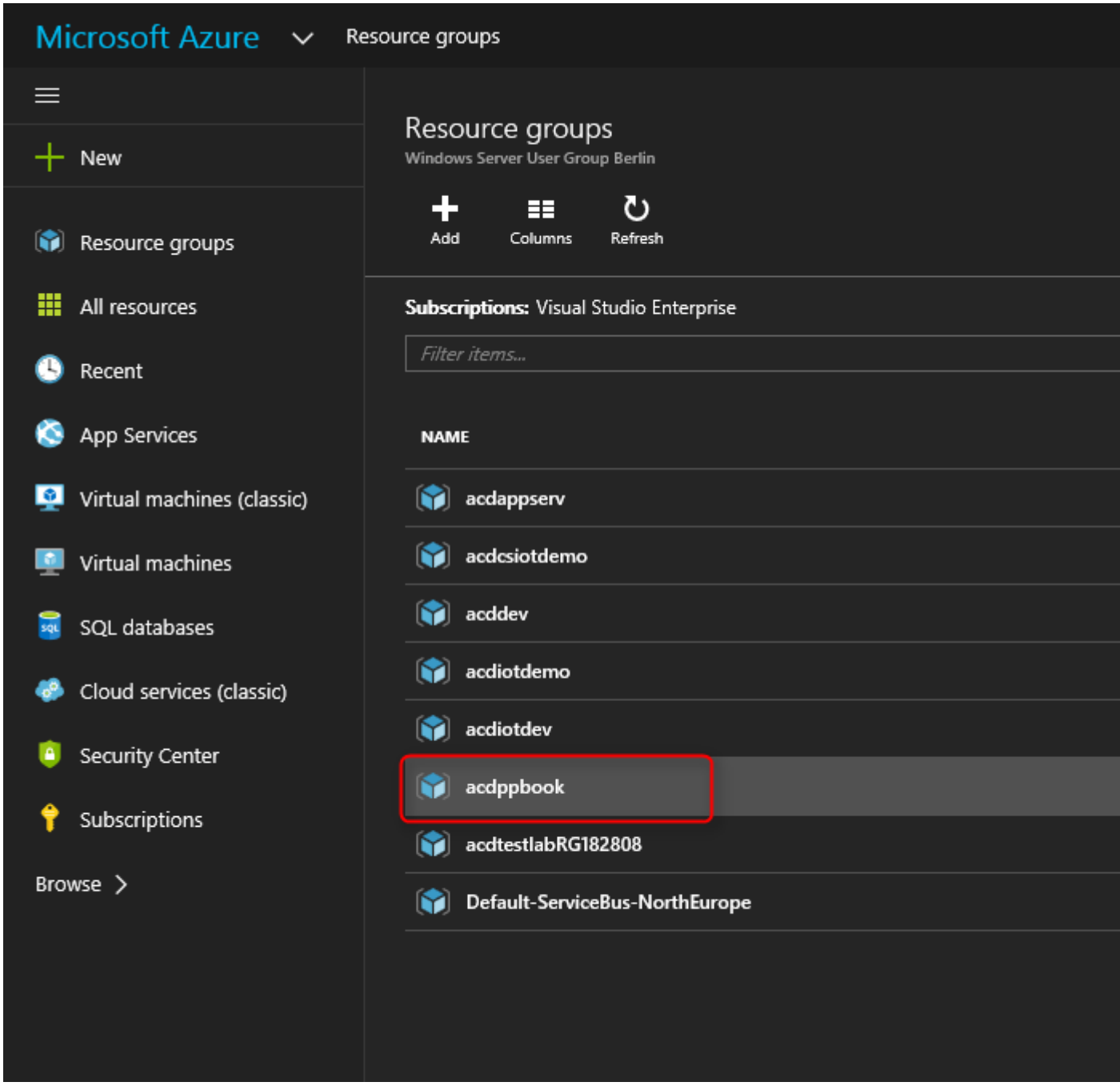
acdtestlabRG182808
Default-ServiceBus-NorthEurope


Microsoft Azure
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SQL databases
Cloud services (classic)
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Subscriptions
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Windows Server User Group Berlin
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Subscriptions: Visual Studio Enterprise
Filter items...
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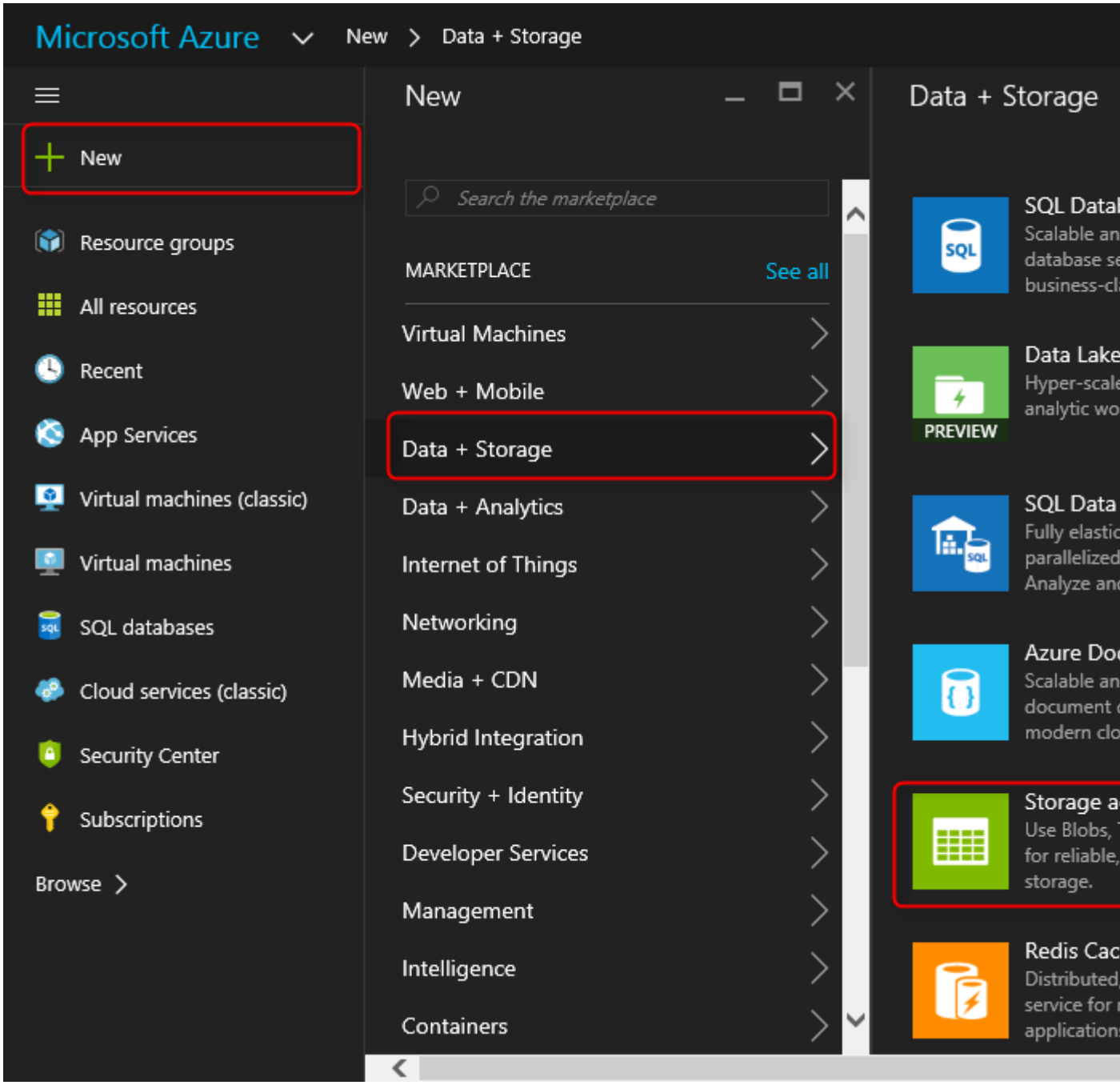
acdppbook
acdtestlabRG182808
Default-ServiceBus-NorthEurope


Microsoft Azure
New
Data + Storage
New
Search the marketplace
MARKETPLACE
See all
Virtual Machines
Web + Mobile
Data + Storage
Data + Analytics
Internet of Things
Networking
Media + CDN
Hybrid Integration
Security + Identity
Developer Services
Management
Intelligence
Containers
Resource groups
All resources
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Virtual machines
SQL databases
Cloud services (classic)
Security Center
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SQL Data
Fully elastic
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Scalable an
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for reliable,
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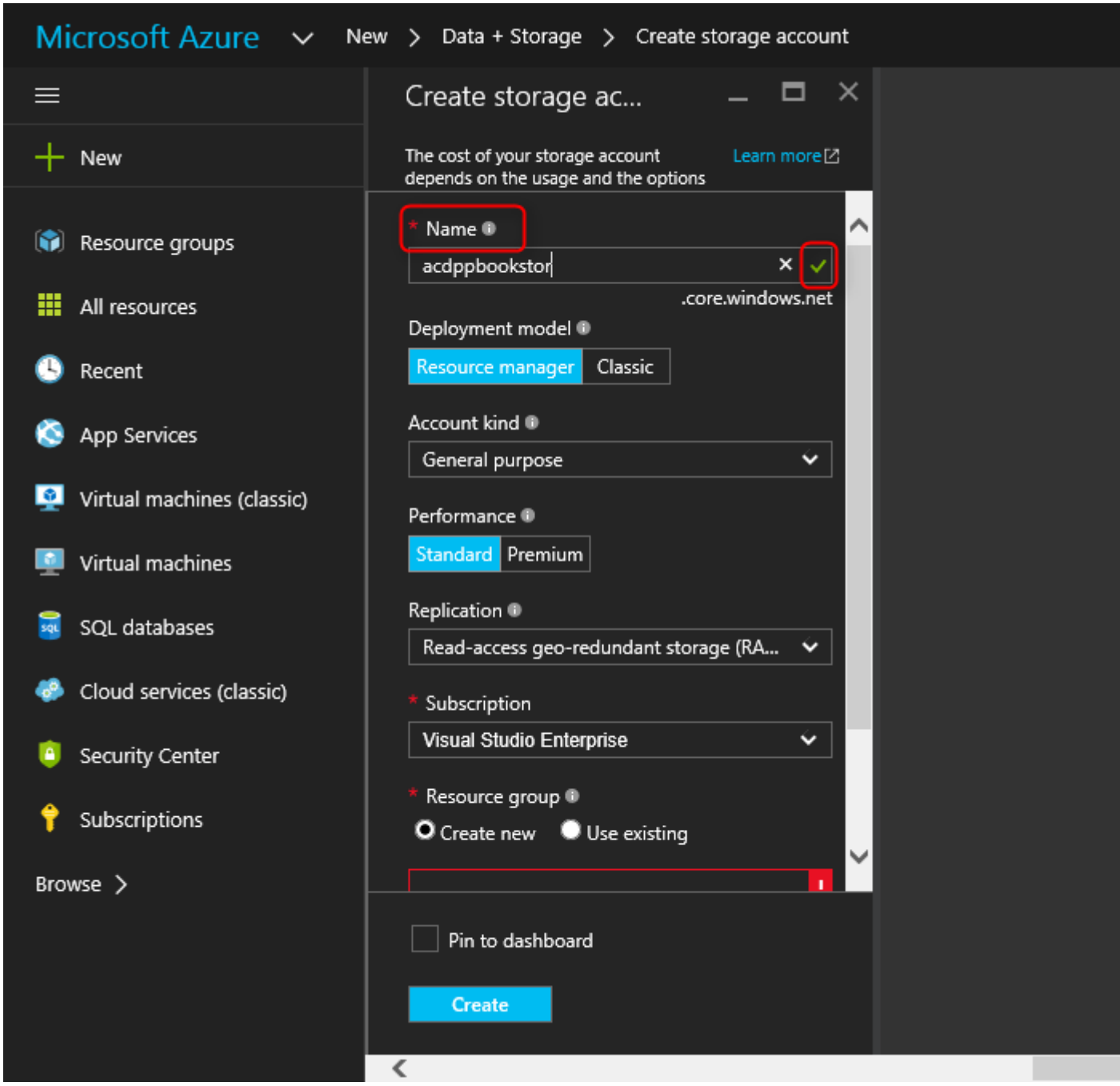
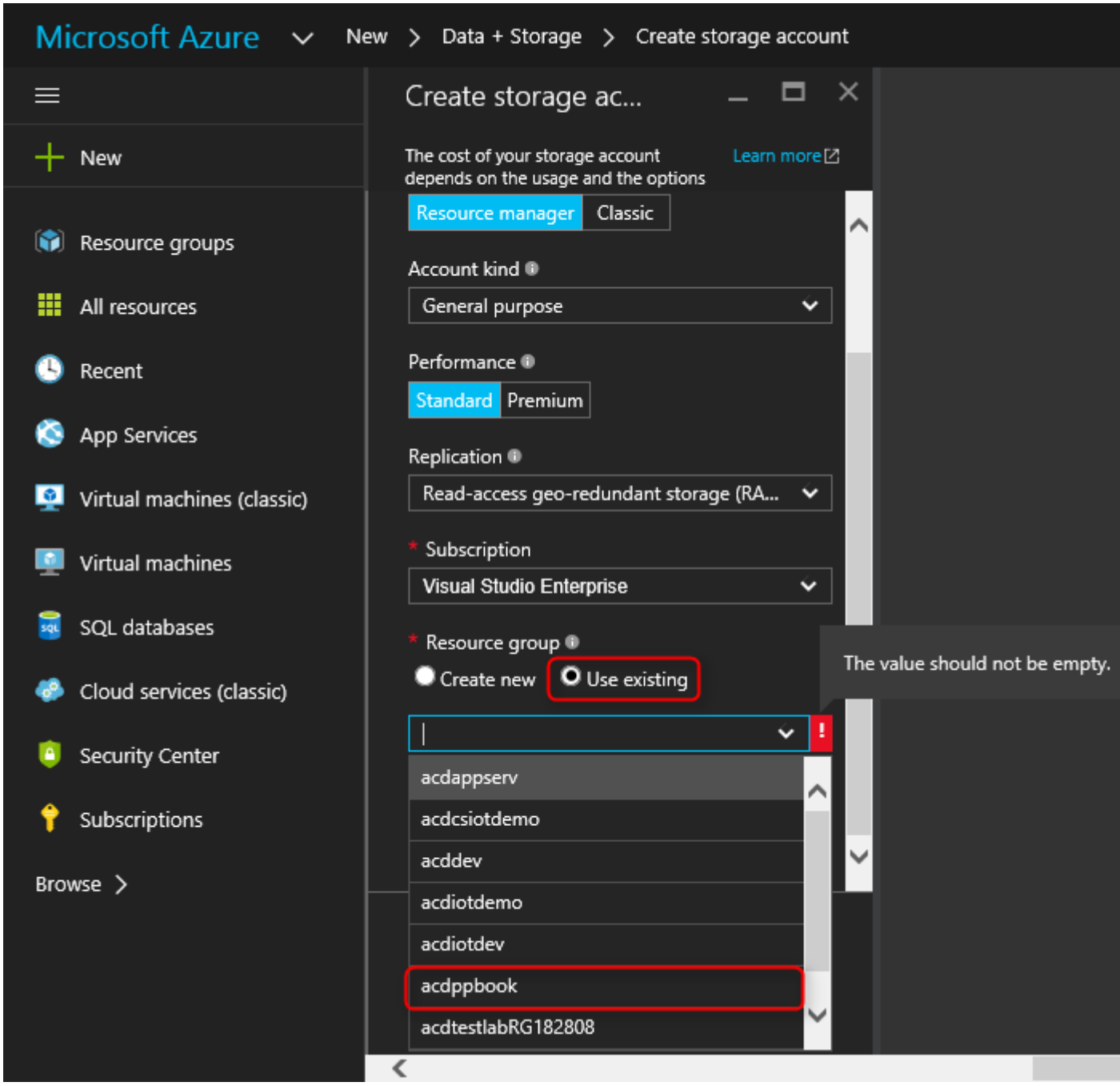

Microsoft Azure
New
Data + Storage
Create storage account
New
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Browse
Create storage ac...
The cost of your storage account depends on the usage and the options
Learn more
Name
acdppbookstor
.core.windows.net
Deployment model
Resource manager
Classic
Account kind
General purpose
Performance
Standard
Premium
Replication
Read-access geo-redundant storage (RA...
Subscription
Visual Studio Enterprise
Resource group
Create new
Use existing
Pin to dashboard
Create


Microsoft Azure
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Create storage account
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Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Browse
Create storage ac...
The cost of your storage account depends on the usage and the options
Learn more
Resource manager
Classic
Account kind
General purpose
Performance
Standard
Premium
Replication
Read-access geo-redundant storage (RA...
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
The value should not be empty.
acdappserv
acdcsiotdemo
acddev
acdiotdemo
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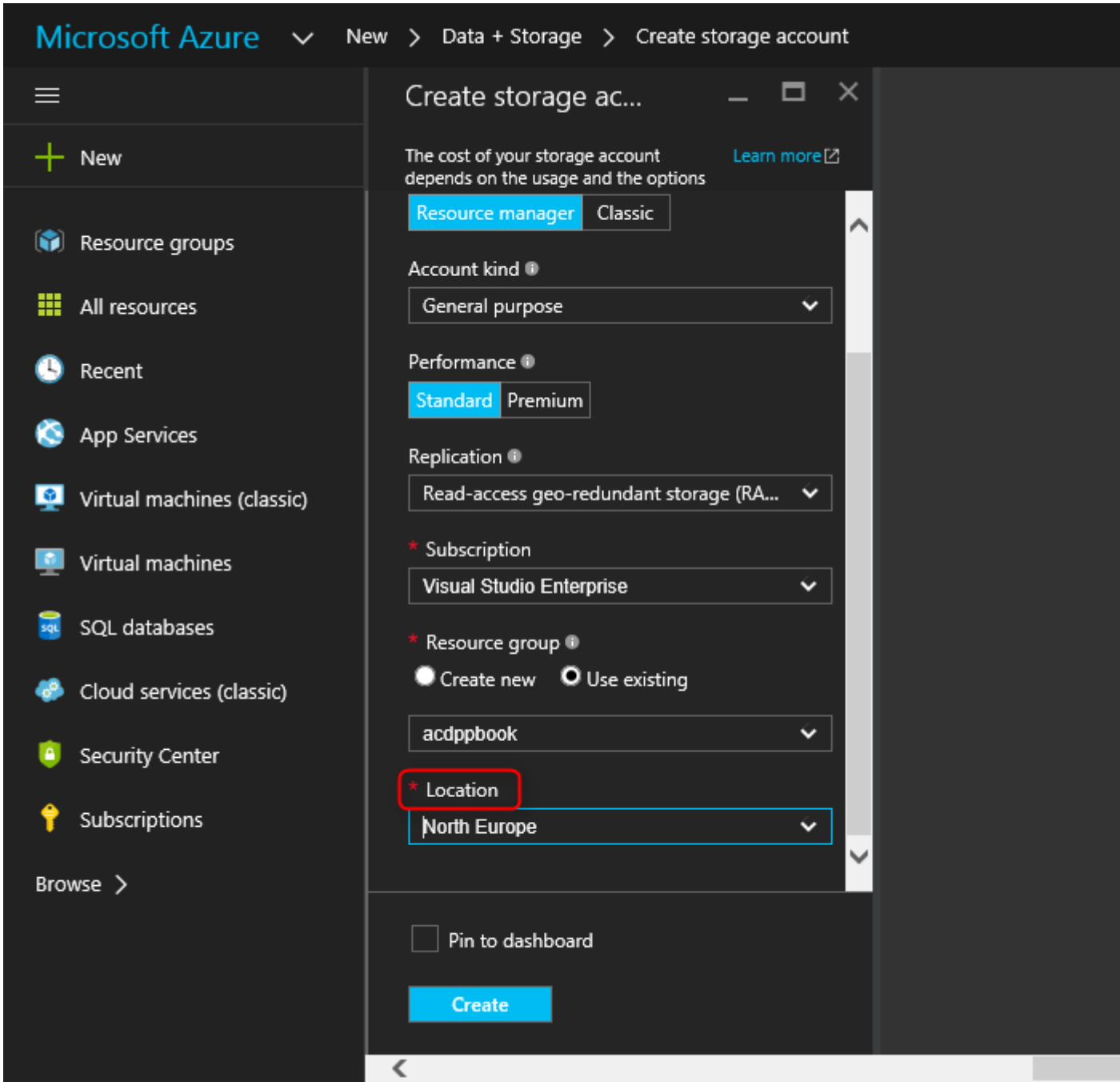
acdppbook
acdtestlabRG182808


Microsoft Azure
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Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Browse
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The cost of your storage account depends on the usage and the options
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Account kind
General purpose
Performance
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Premium
Replication
Read-access geo-redundant storage (RA...
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
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* Location
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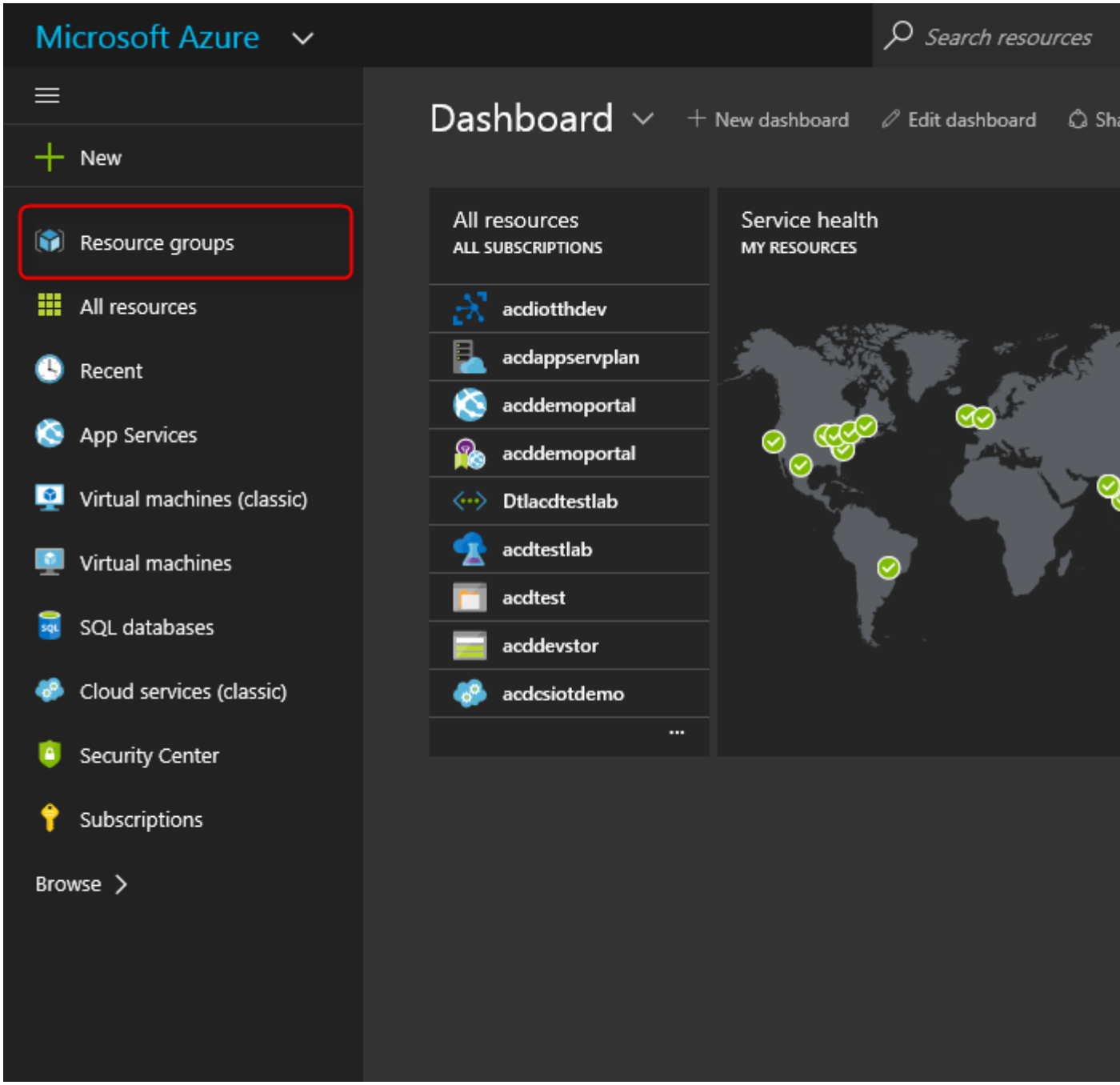
Pin to dashboard
Create


Microsoft Azure
Search resources
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Resource groups
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App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Browse
Dashboard
New dashboard
Edit dashboard
All resources
ALL SUBSCRIPTIONS
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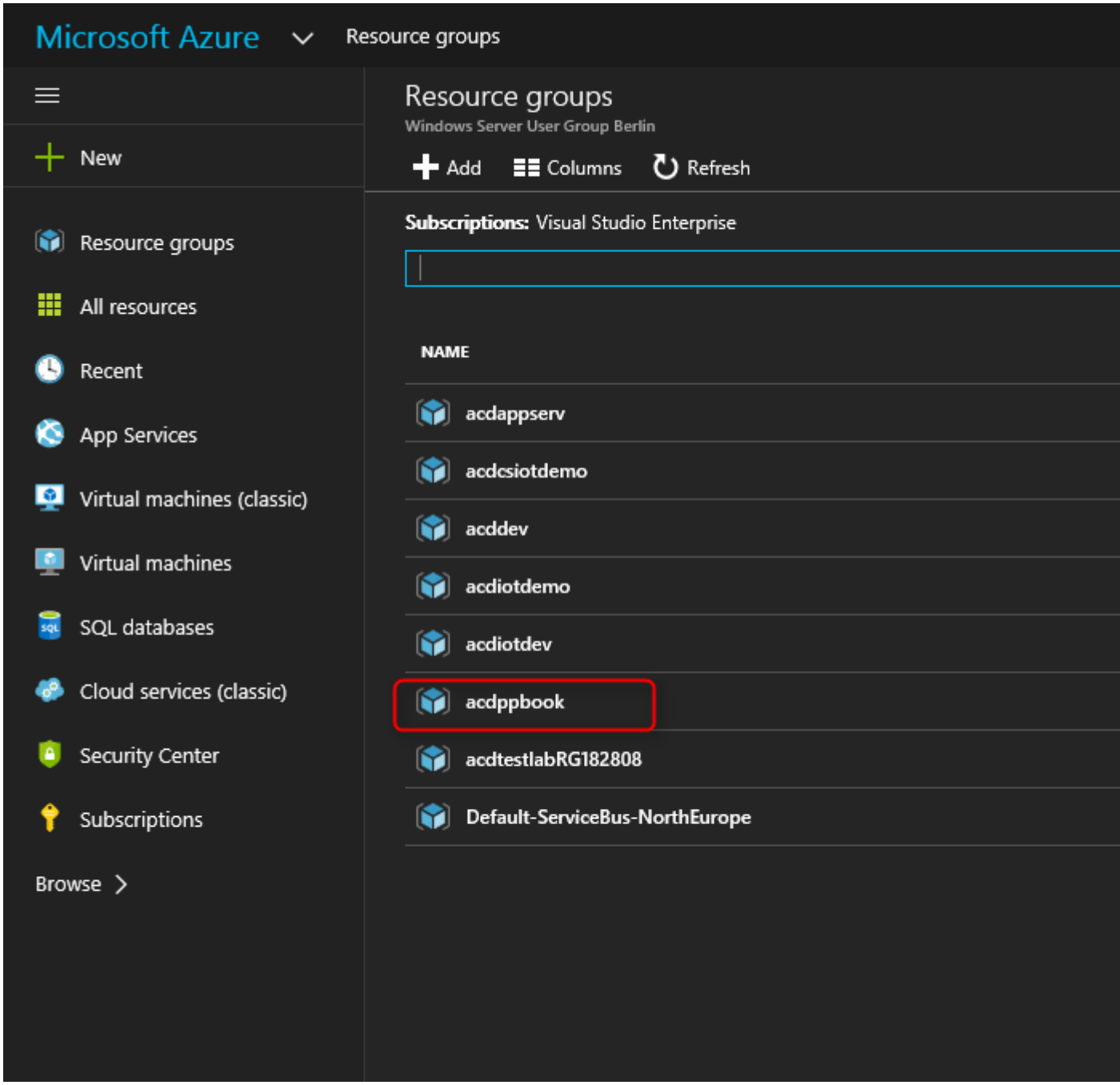
acdtest
acddevstor
acdcsiotdemo
Service health
MY RESOURCES


Microsoft Azure
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App Services
Virtual machines (classic)
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SQL databases
Cloud services (classic)
Security Center
Subscriptions
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Resource groups
Windows Server User Group Berlin
Add
Columns
Refresh
Subscriptions: Visual Studio Enterprise
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acdcsiotdemo
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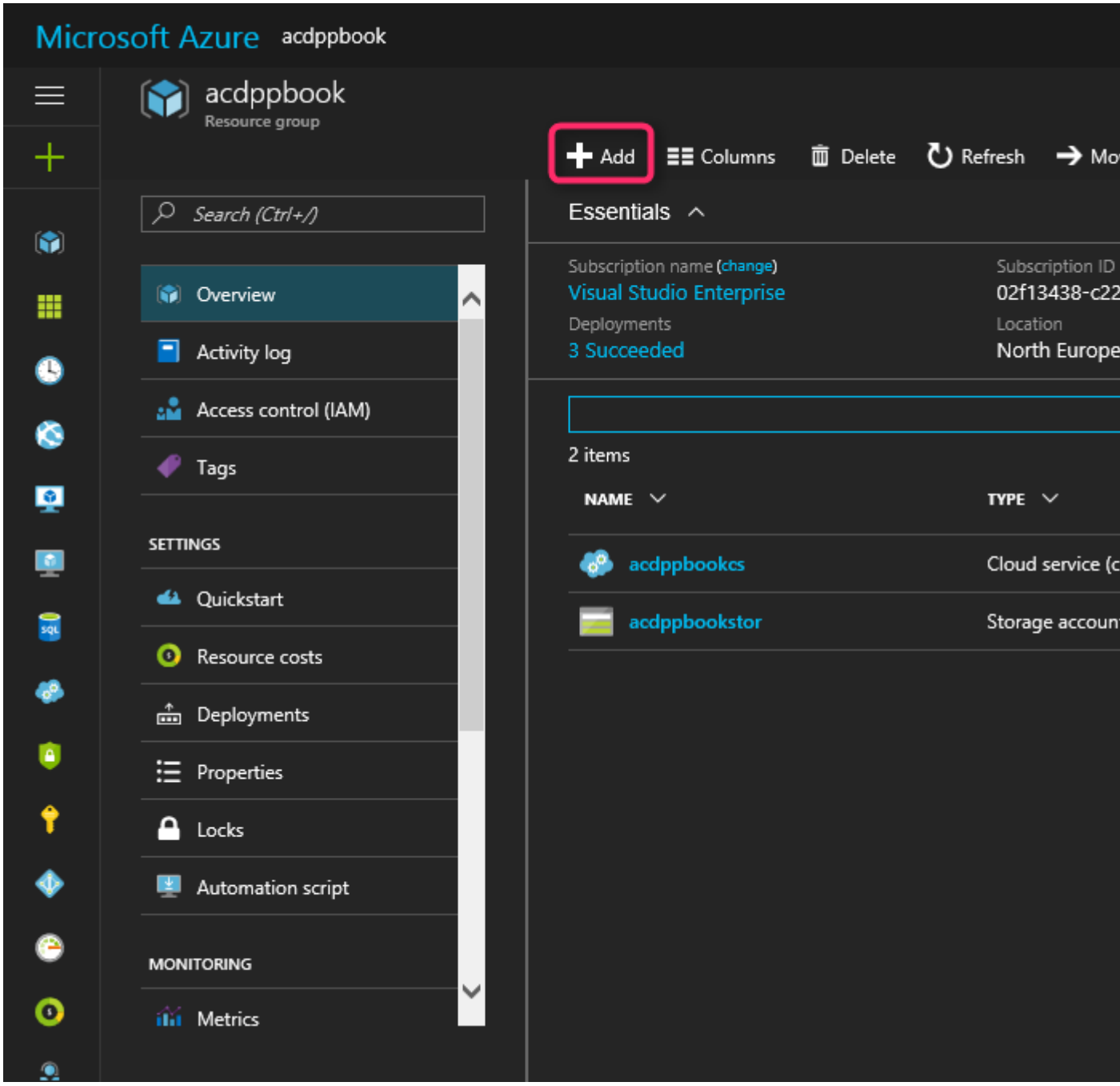
acdtestlabRG182808
Default-ServiceBus-NorthEurope


Microsoft Azure
acdppbook
acdppbook
Resource group
Add
Columns
Delete
Refresh
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Resource costs
Deployments
Properties
Locks
Automation script
MONITORING
Metrics
Essentials
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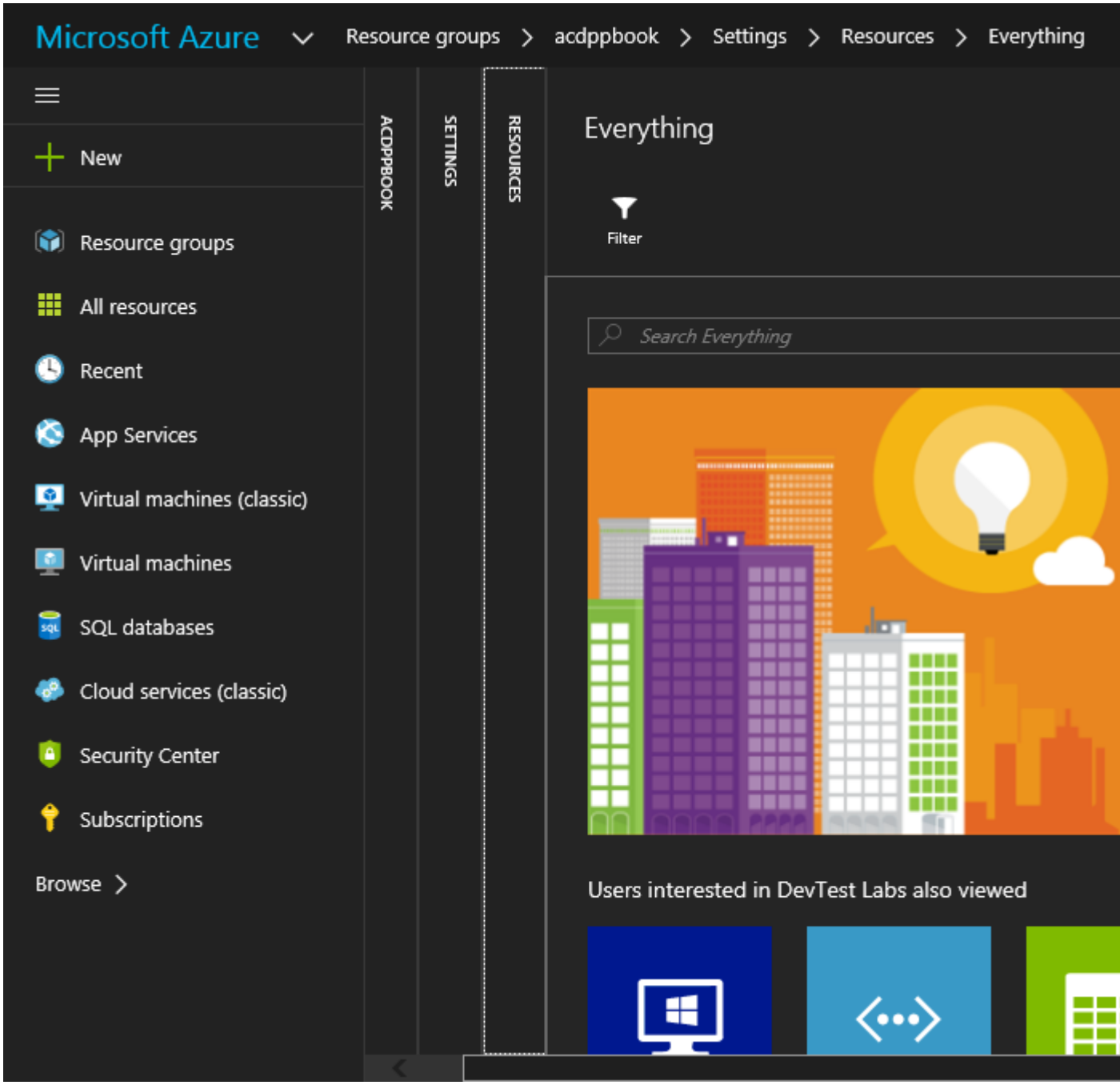
Microsoft Azure
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App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
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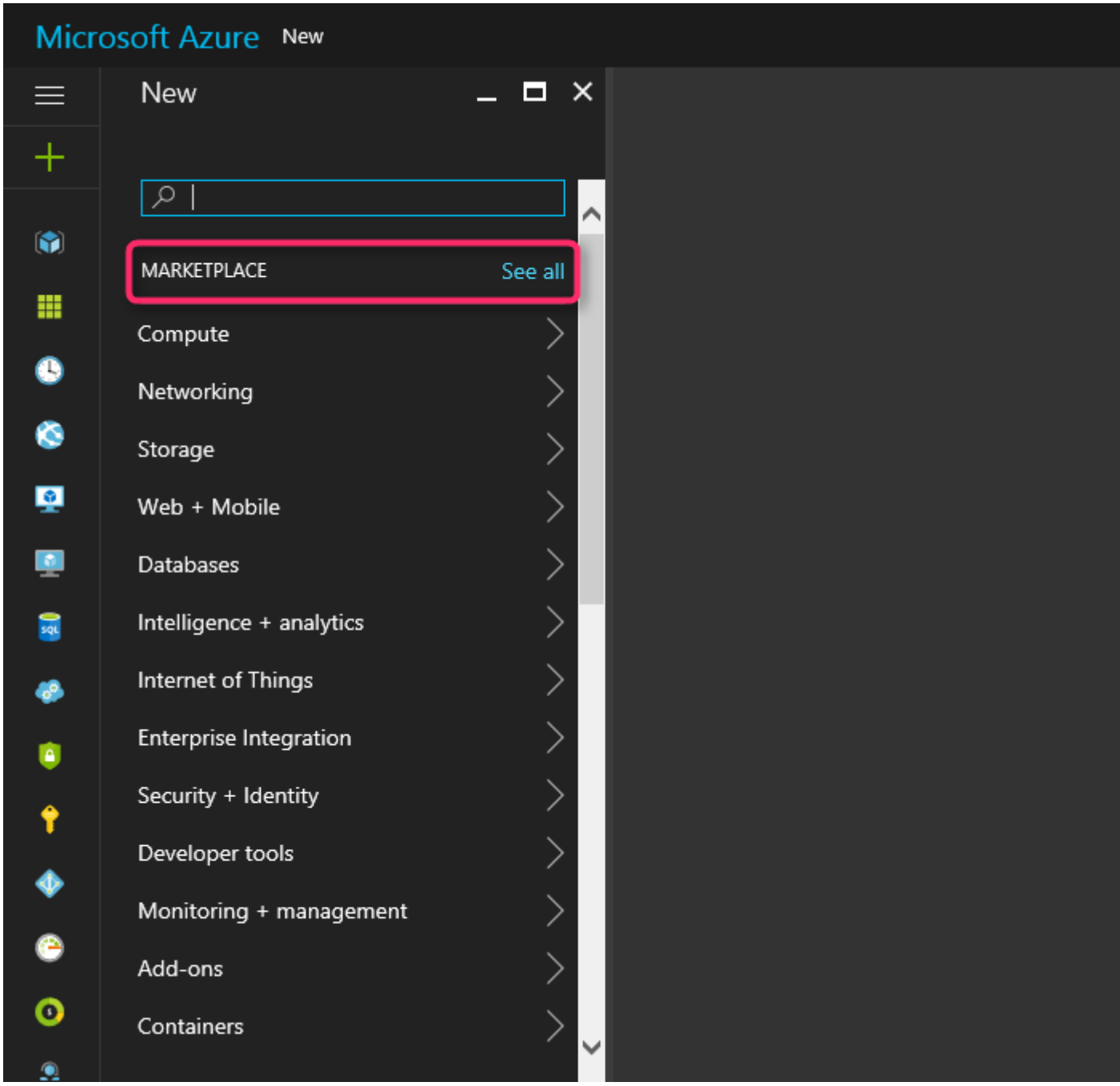
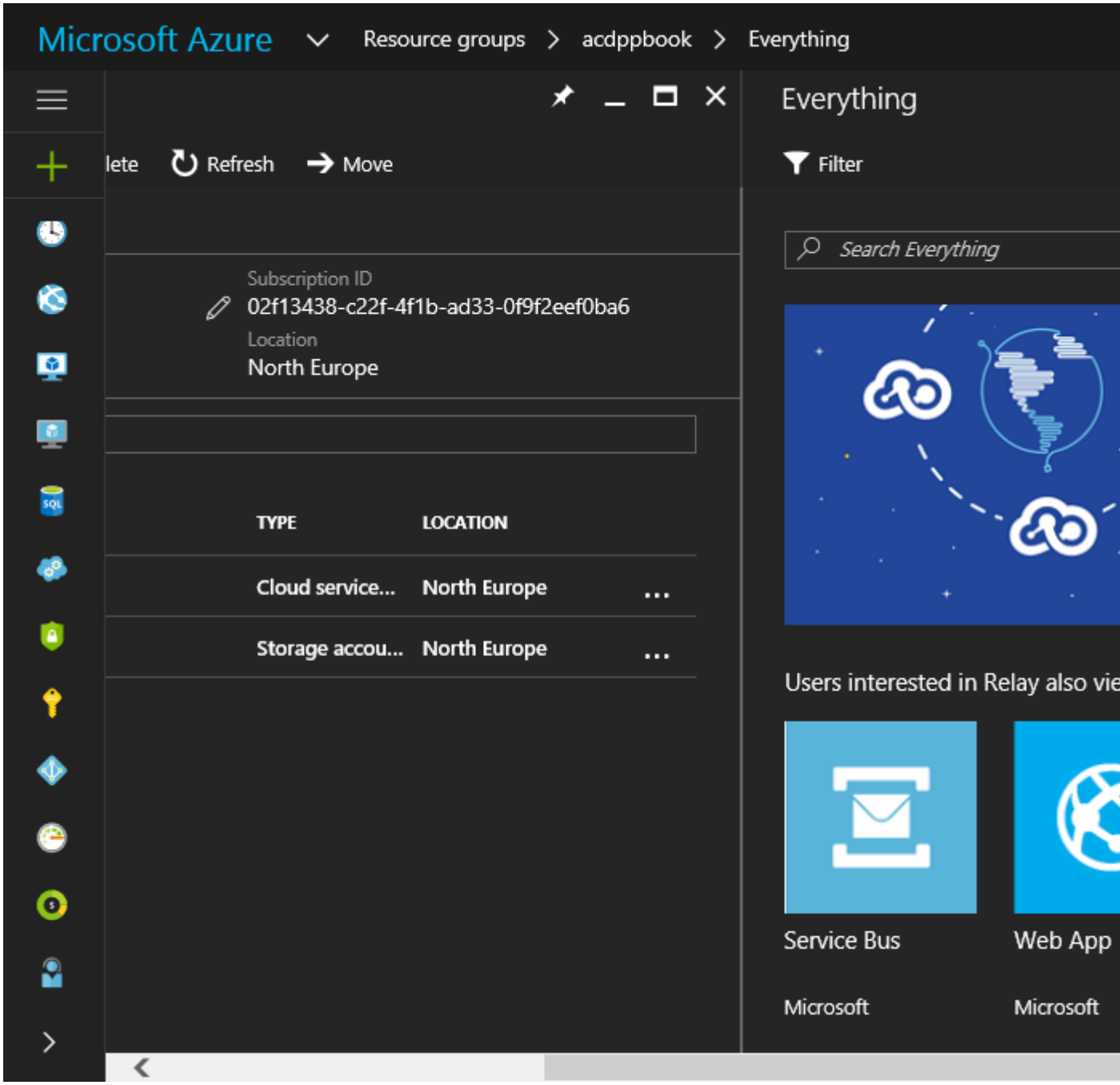
Browse
ACDPPBOOK
SETTINGS
RESOURCES
Everything
Filter
Search Everything
Users interested in DevTest Labs also viewed


Microsoft Azure
New
New
MARKETPLACE
See all
Compute
Networking
Storage
Web + Mobile
Databases
Intelligence + analytics
Internet of Things
Enterprise Integration
Security + Identity
Developer tools
Monitoring + management
Add-ons
Containers


Microsoft Azure
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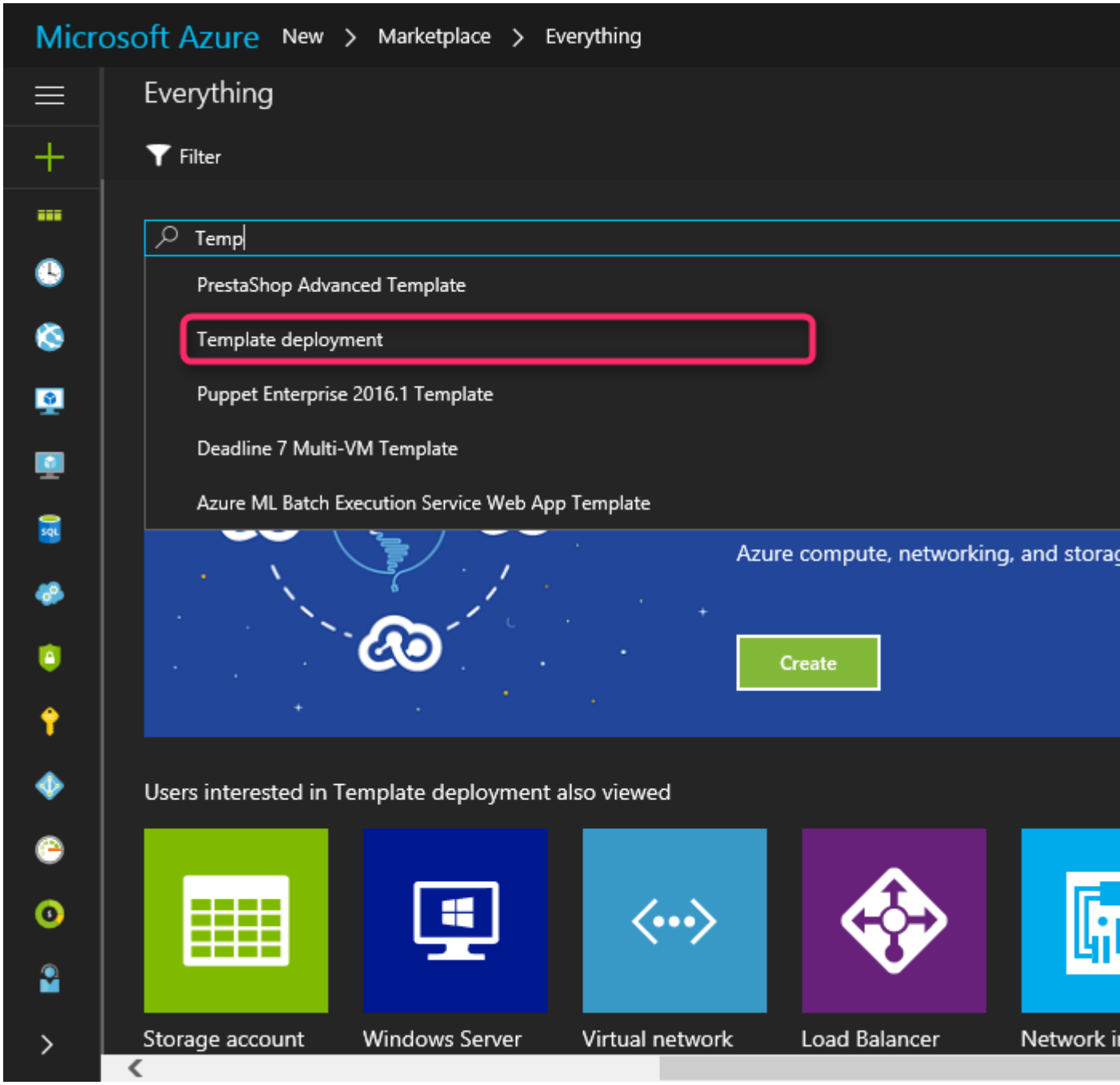
Service Bus
Microsoft
Web App
Microsoft


Microsoft Azure
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Temp
PrestaShop Advanced Template
Template deployment
Puppet Enterprise 2016.1 Template
Deadline 7 Multi-VM Template
Azure ML Batch Execution Service Web App Template
Azure compute, networking, and storag
Create
Users interested in Template deployment also viewed
Storage account
Windows Server
Virtual network
Load Balancer
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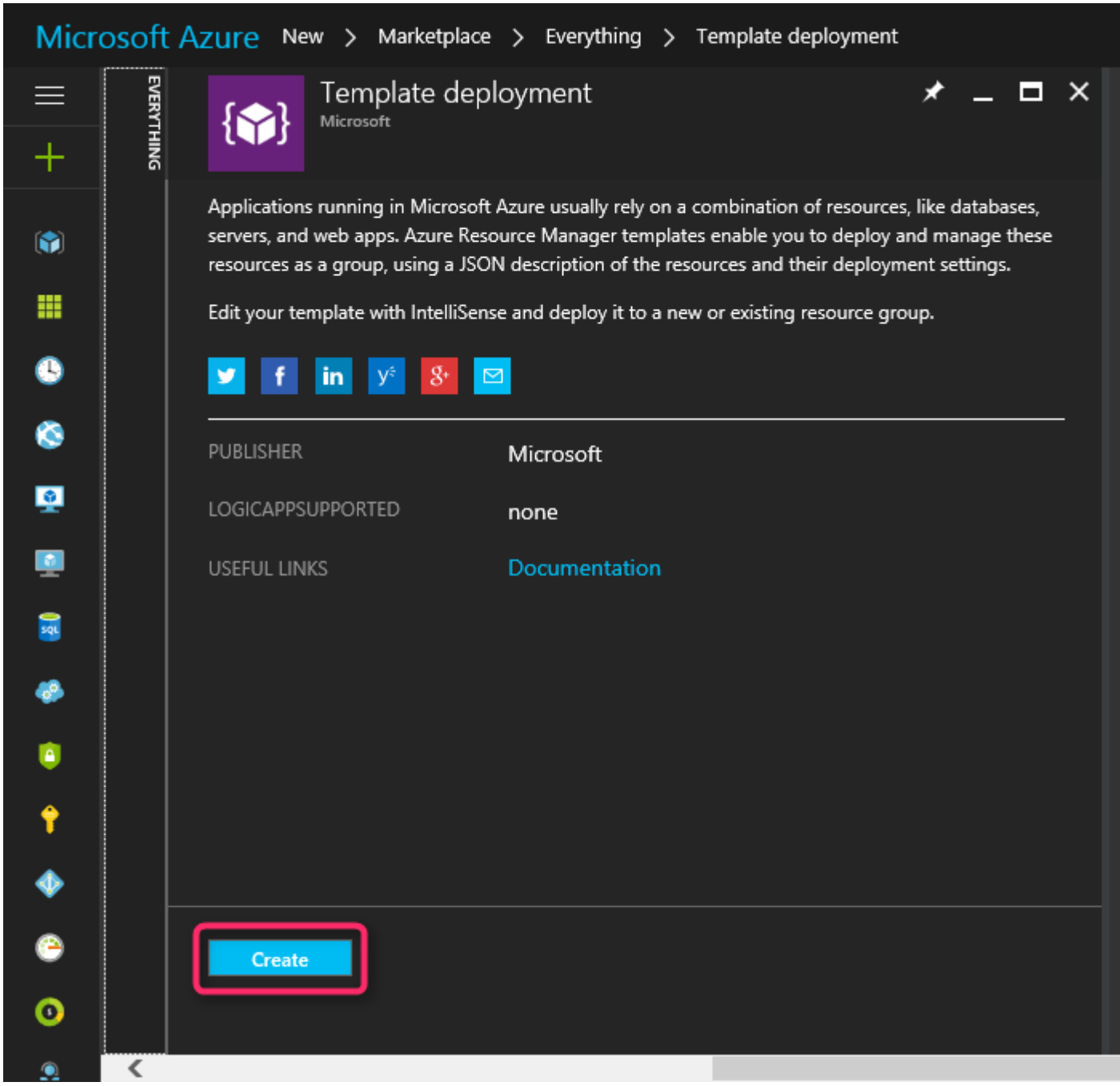
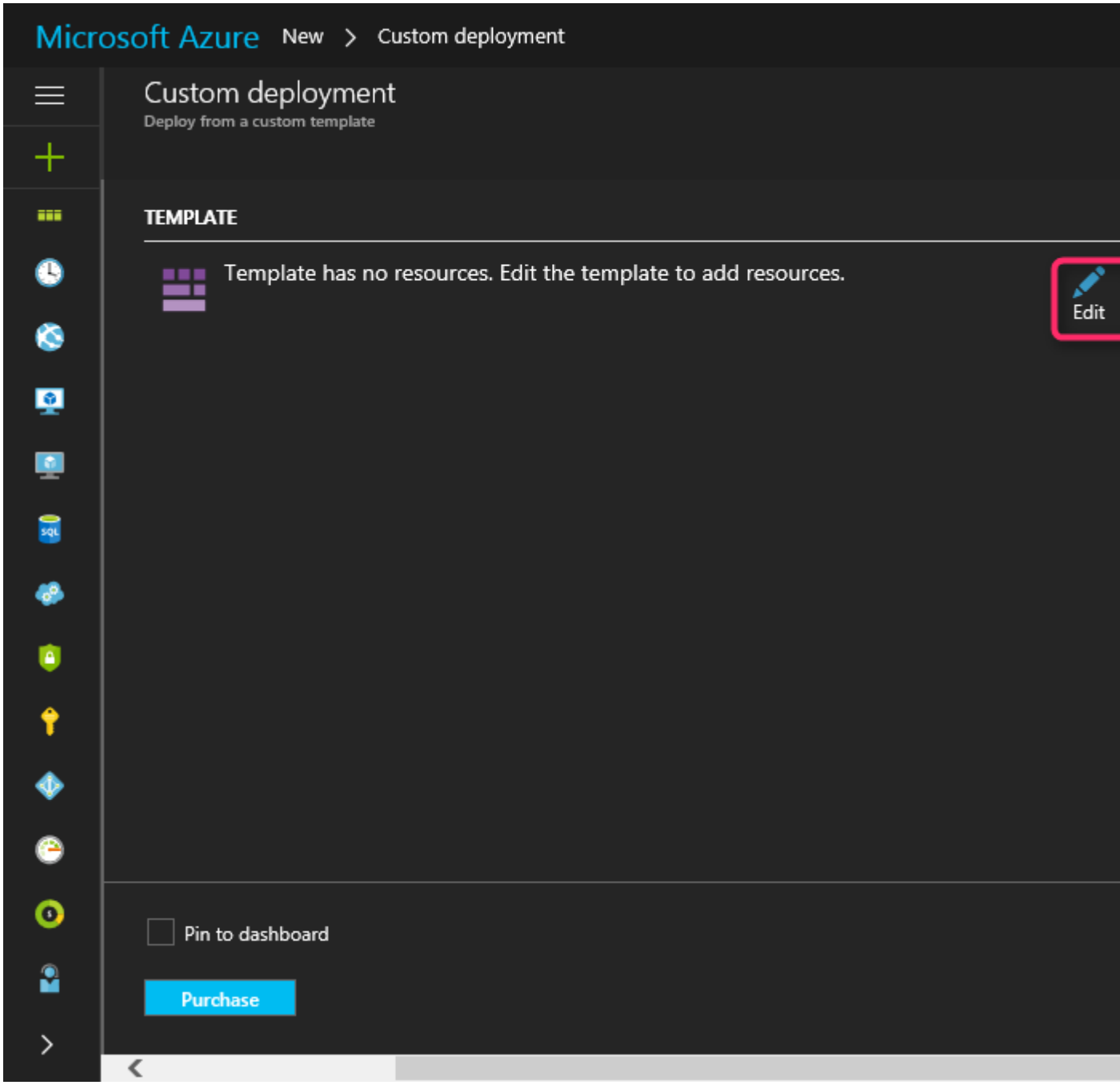
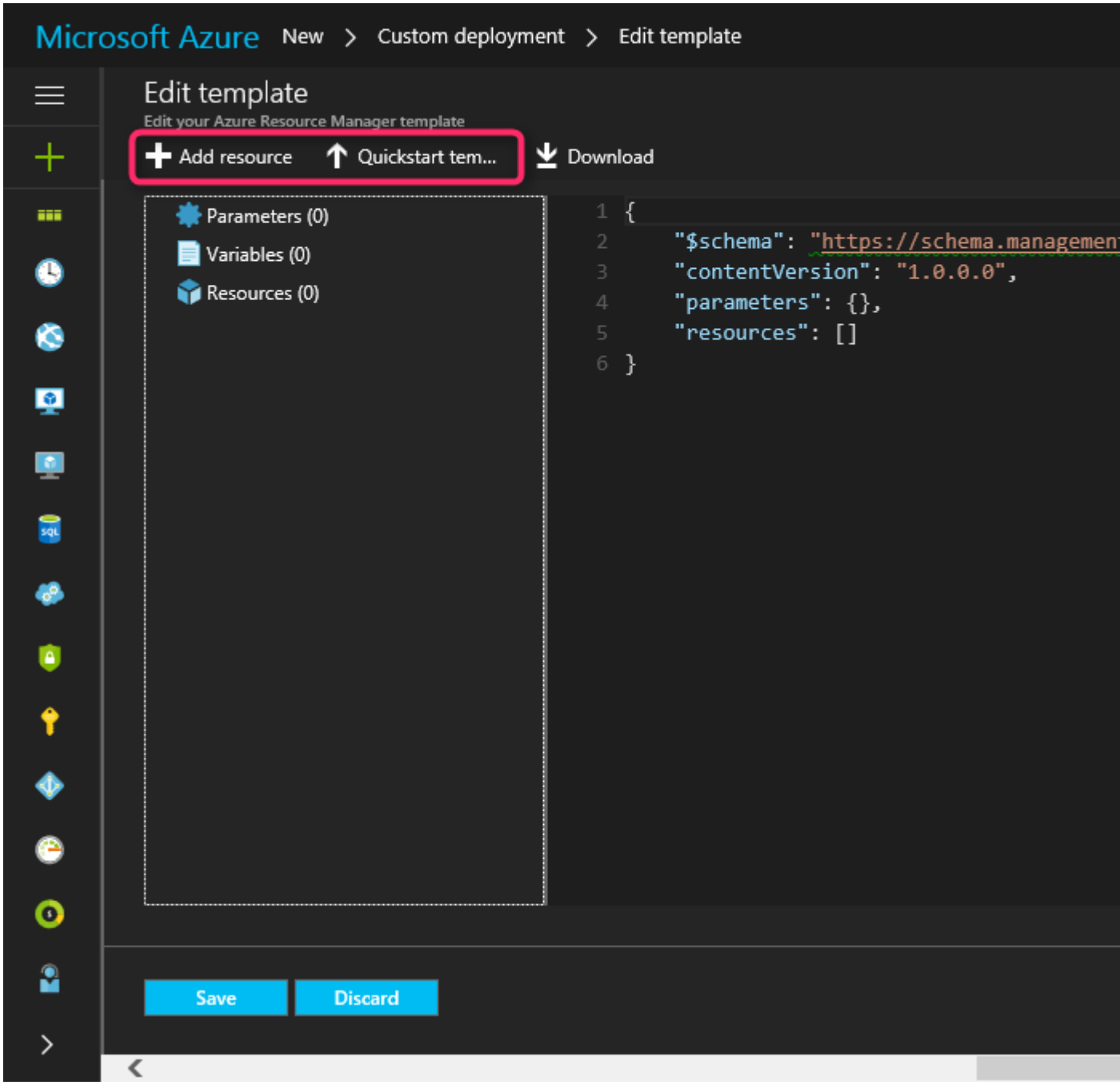
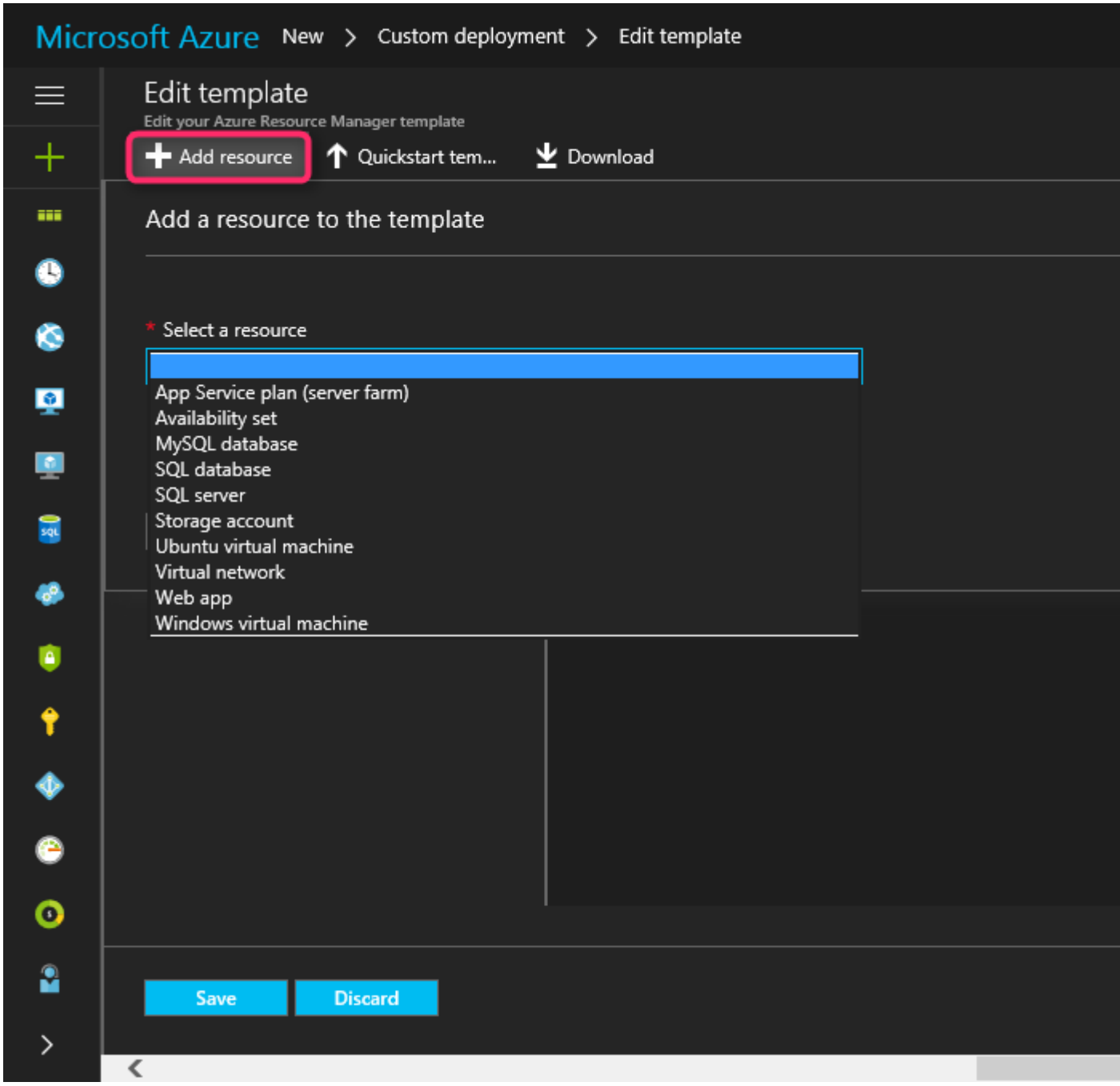
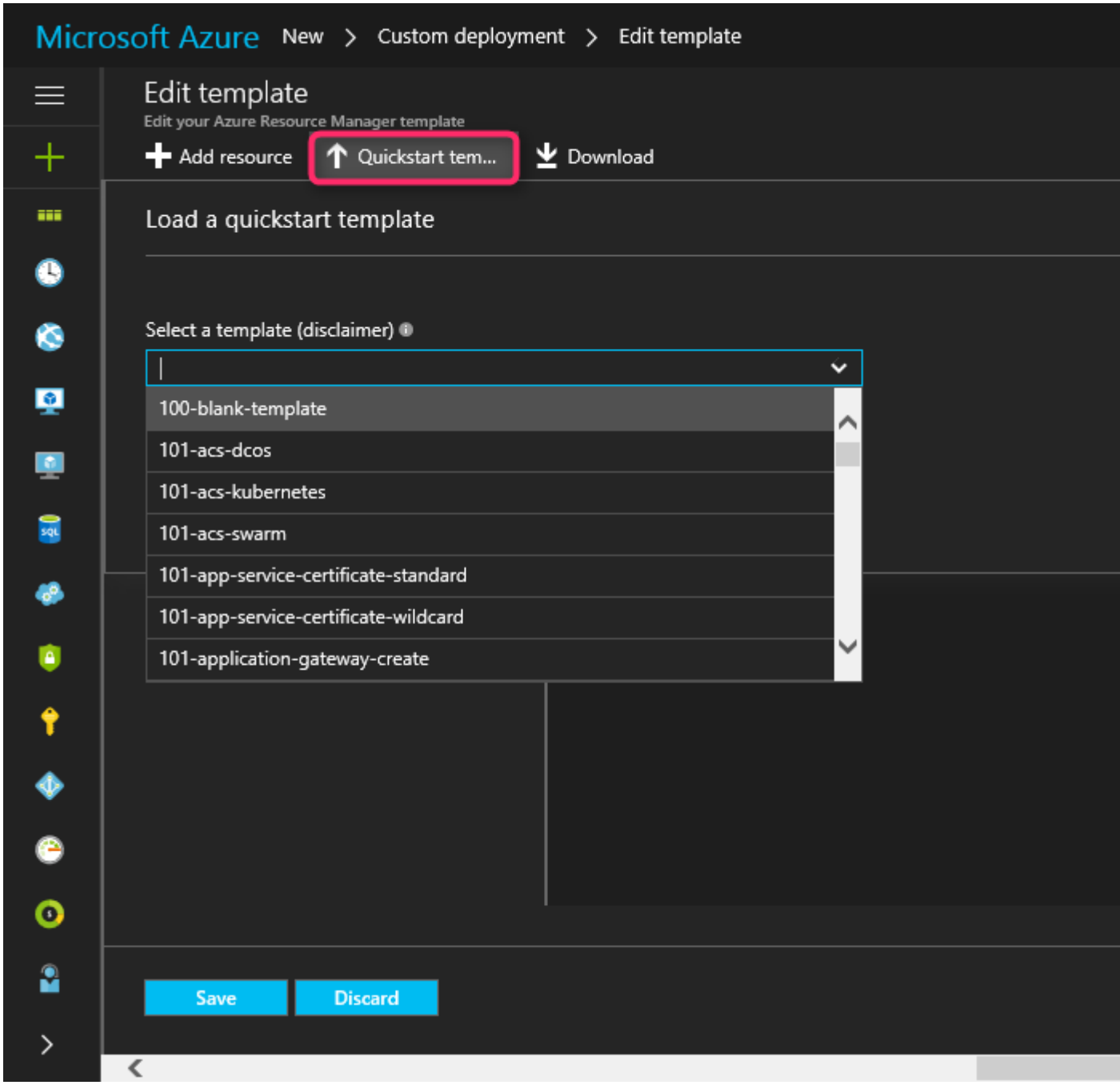

Microsoft Azure
New
Marketplace
Everything
Template deployment
EVERYTHING
Template deployment
Microsoft
Applications running in Microsoft Azure usually rely on a combination of resources, like databases, servers, and web apps. Azure Resource Manager templates enable you to deploy and manage these resources as a group, using a JSON description of the resources and their deployment settings.
Edit your template with IntelliSense and deploy it to a new or existing resource group.
PUBLISHER
Microsoft
LOGICAPPSUPPORTED
none
USEFUL LINKS
Documentation
Create


Microsoft Azure
New
Custom deployment
Custom deployment
Deploy from a custom template
TEMPLATE
Template has no resources. Edit the template to add resources.
Edit
Pin to dashboard
Purchase


Microsoft Azure
New
Custom deployment
Edit template
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Parameters (0)
Variables (0)
Resources (0)
{
"$schema": "https://schema.managemen
"contentVersion": "1.0.0.0",
"parameters": {},
"resources": []
}
Save
Discard


Microsoft Azure
New
Custom deployment
Edit template
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Add a resource to the template
* Select a resource
App Service plan (server farm)
Availability set
MySQL database
SQL database
SQL server
Storage account
Ubuntu virtual machine
Virtual network
Web app
Windows virtual machine
Save
Discard


Microsoft Azure
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Custom deployment
Edit template
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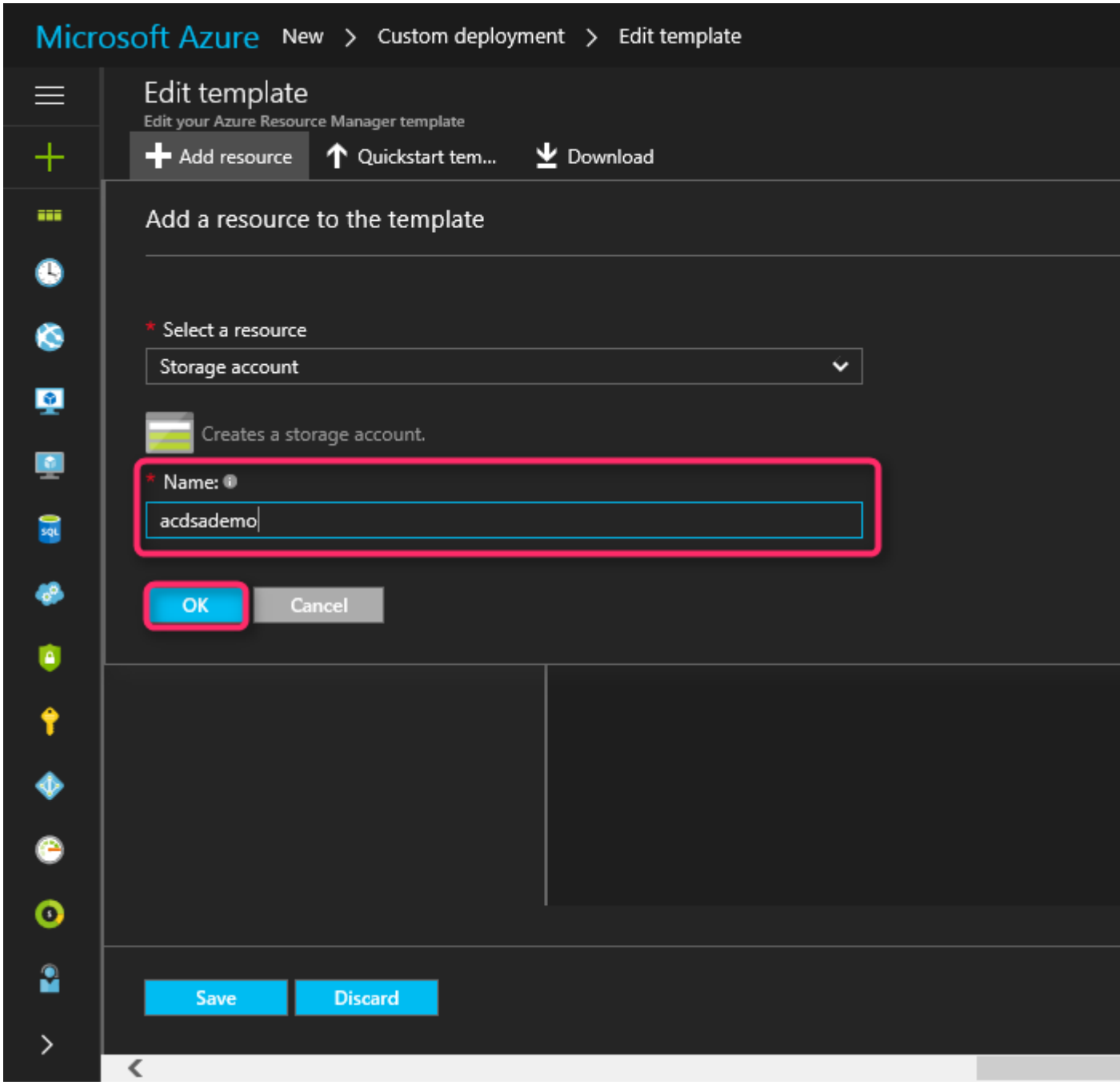
Add resource
Quickstart tem...
Download
Load a quickstart template
Select a template (disclaimer)
100-blank-template
101-acs-dcos
101-acs-kubernetes
101-acs-swarm
101-app-service-certificate-standard
101-app-service-certificate-wildcard
101-application-gateway-create
Save
Discard


Microsoft Azure
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Custom deployment
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Add a resource to the template
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Storage account
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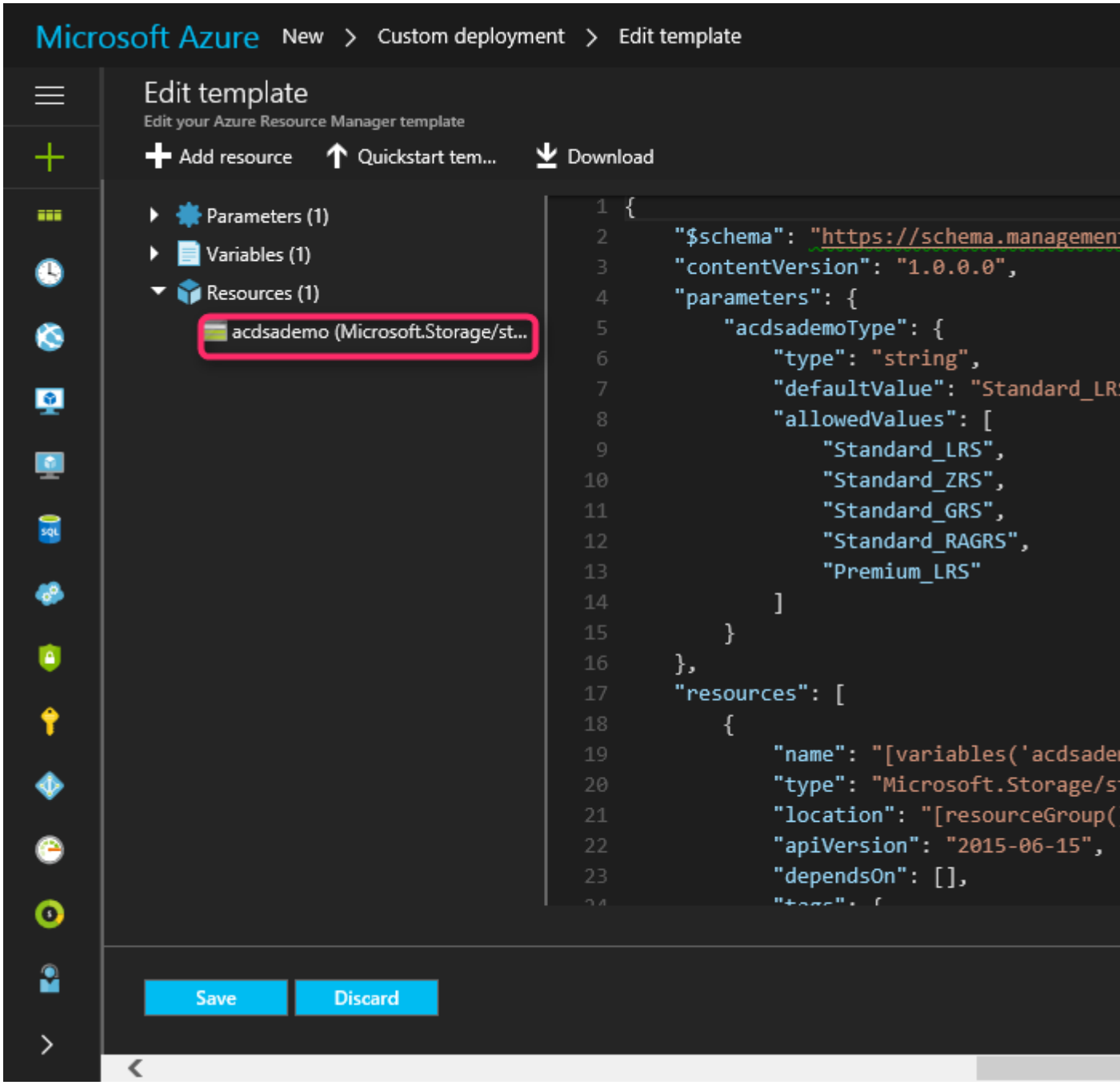
* Name:
acdsademo
OK
Cancel
Save
Discard


Microsoft Azure
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Add resource
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Download
Parameters (1)
Variables (1)
Resources (1)
acdsademo (Microsoft.Storage/st...
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"contentVersion": "1.0.0.0",
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"acdsademoType": {
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"allowedValues": [
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"Standard_ZRS",
"Standard_GRS",
"Standard_RAGRS",
"Premium_LRS"
]
}
},
"resources": [
{
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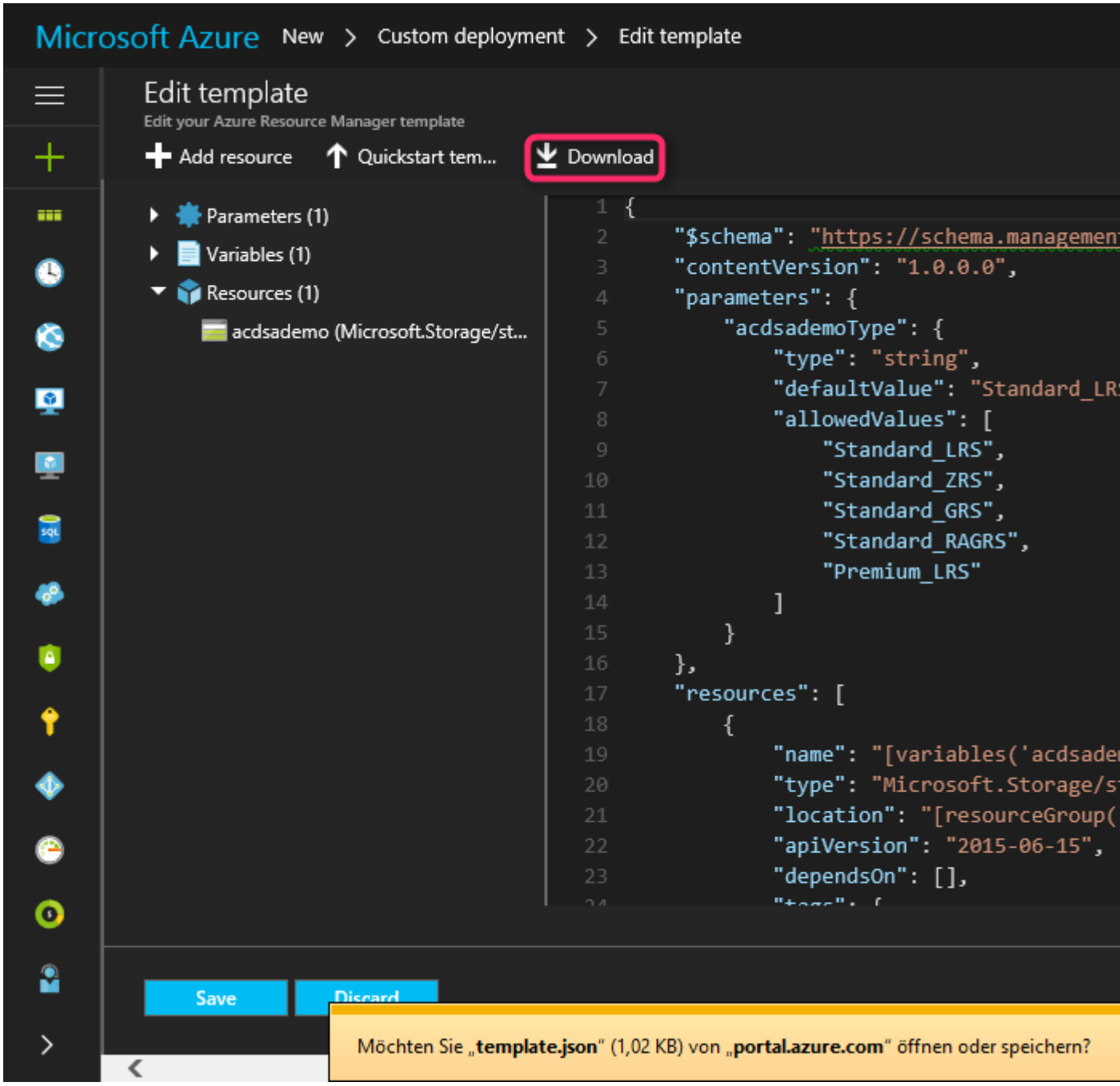
Save
Discard


Microsoft Azure
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Add resource
Quickstart tem...
Download
Parameters (1)
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{
"$schema": "https://schema.managemen
"contentVersion": "1.0.0.0",
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"type": "string",
"defaultValue": "Standard_LR
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"Standard_LRS",
"Standard_ZRS",
"Standard_GRS",
"Standard_RAGRS",
"Premium_LRS"
]
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"location": "[resourceGroup(
"apiVersion": "2015-06-15",
"dependsOn": [],
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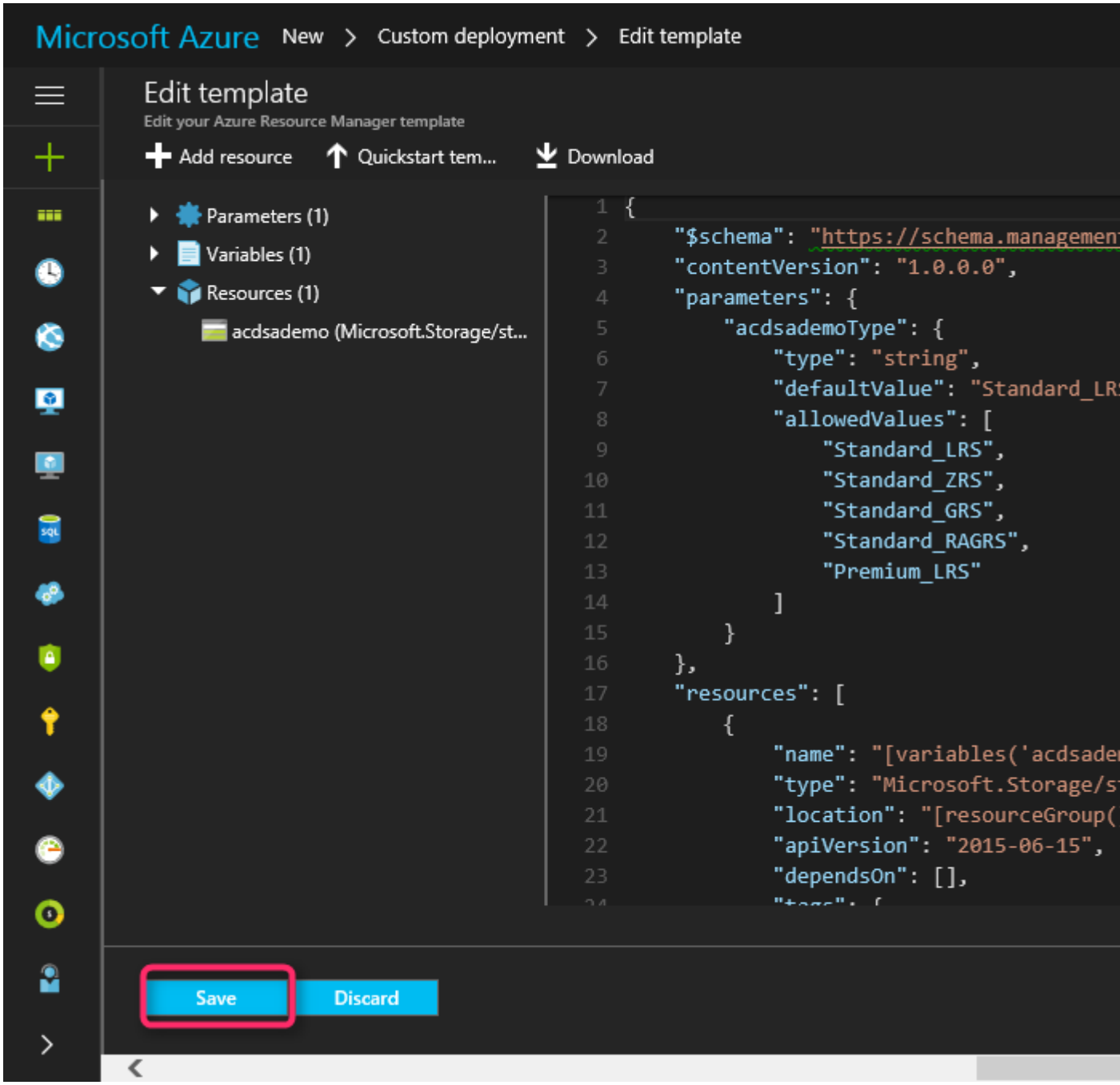
Discard
Möchten Sie „template.json" (1,02 KB) von „portal.azure.com" öffnen oder speichern?


Microsoft Azure
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Parameters (1)
Variables (1)
Resources (1)
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{
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"Premium_LRS"
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"location": "[resourceGroup(
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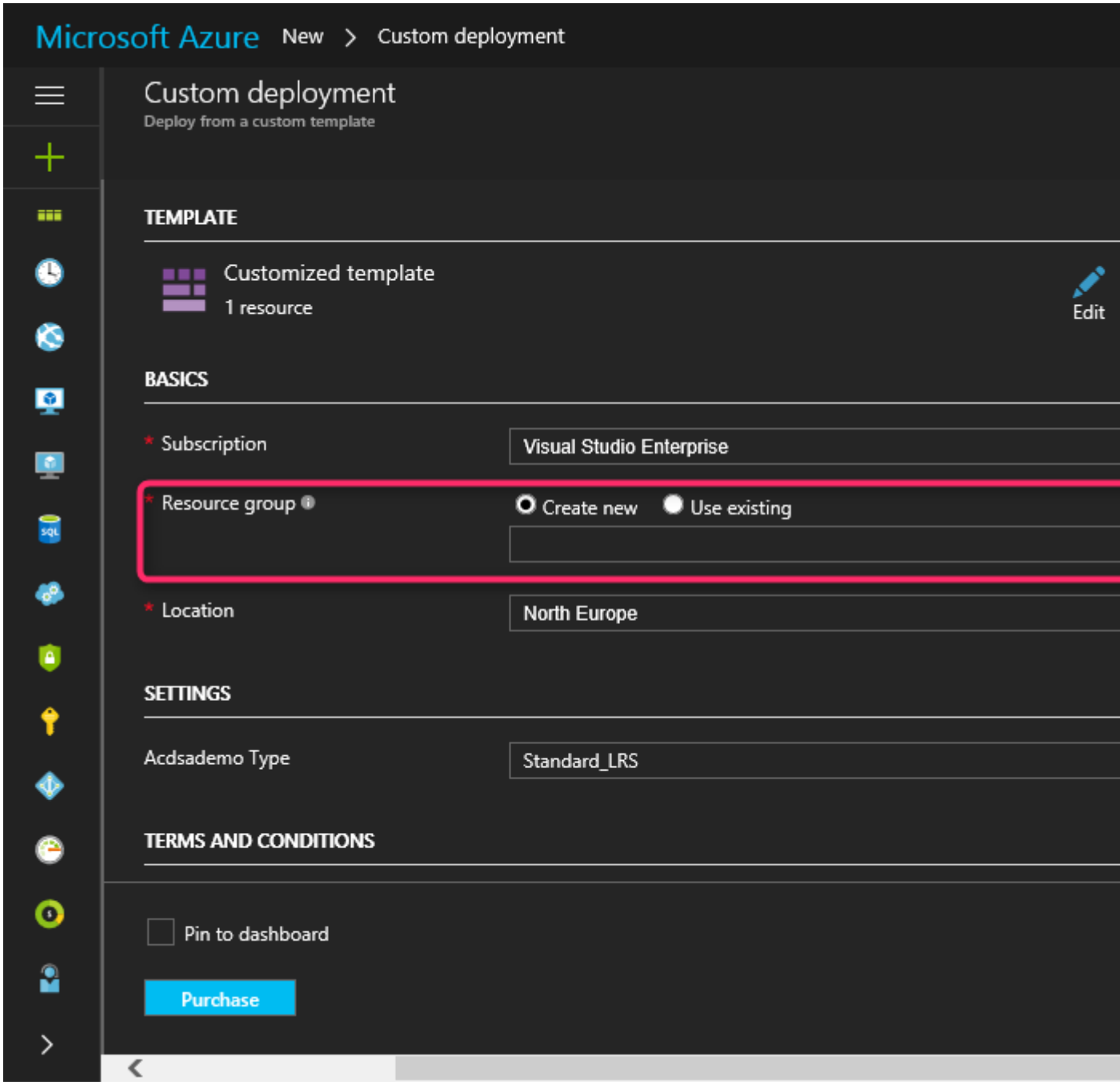
Microsoft Azure
New
Custom deployment
Custom deployment
Deploy from a custom template
TEMPLATE
Customized template
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Edit
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* Subscription
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SETTINGS
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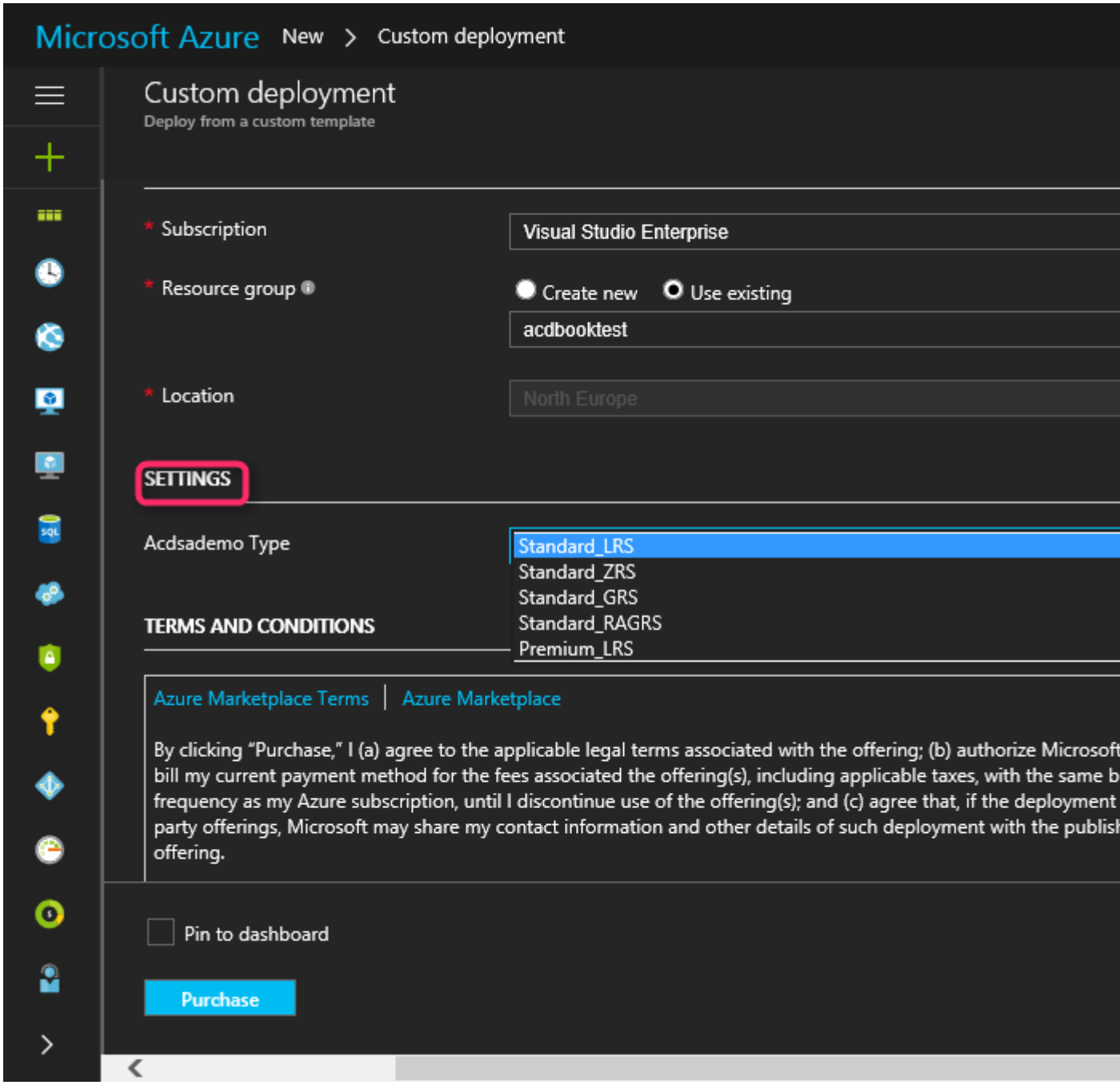
TERMS AND CONDITIONS
Pin to dashboard
Purchase


Microsoft Azure
New
Custom deployment
Custom deployment
Deploy from a custom template
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
acdbooktest
* Location
North Europe
SETTINGS
Acdsademo Type
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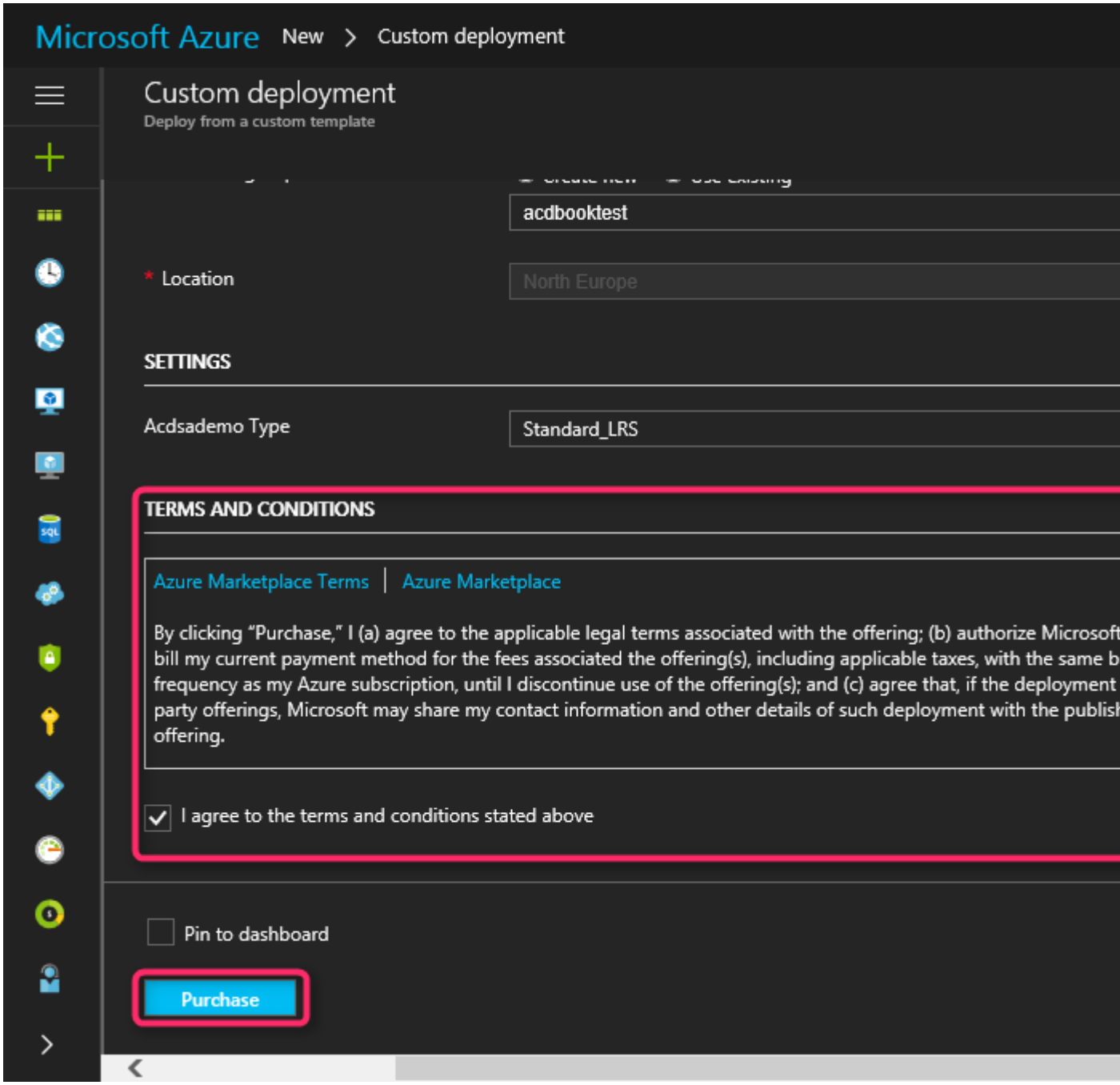
Microsoft Azure
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Custom deployment
Custom deployment
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* Location
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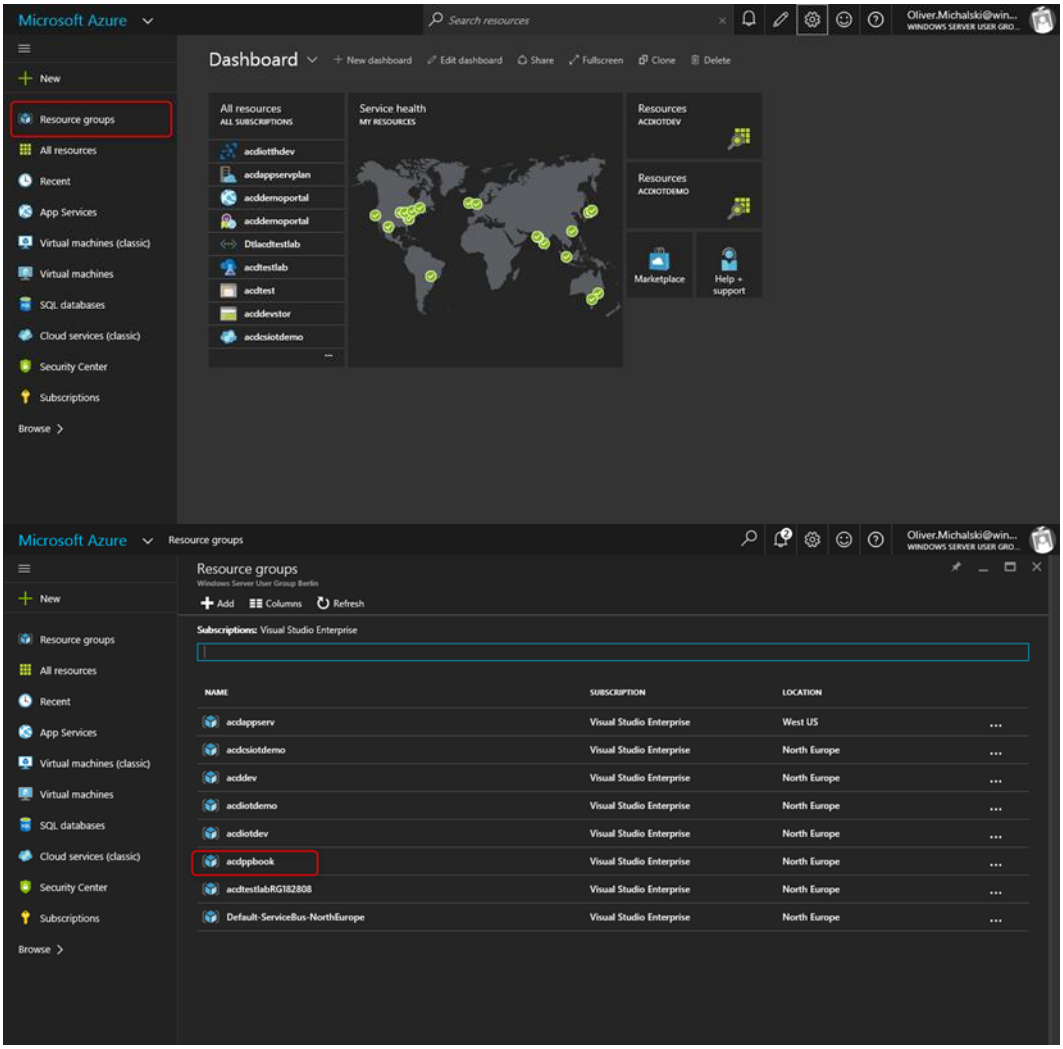
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Clone
Delete
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Visual Studio Enterprise
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Default-ServiceBus-NorthEurope
Visual Studio Enterprise
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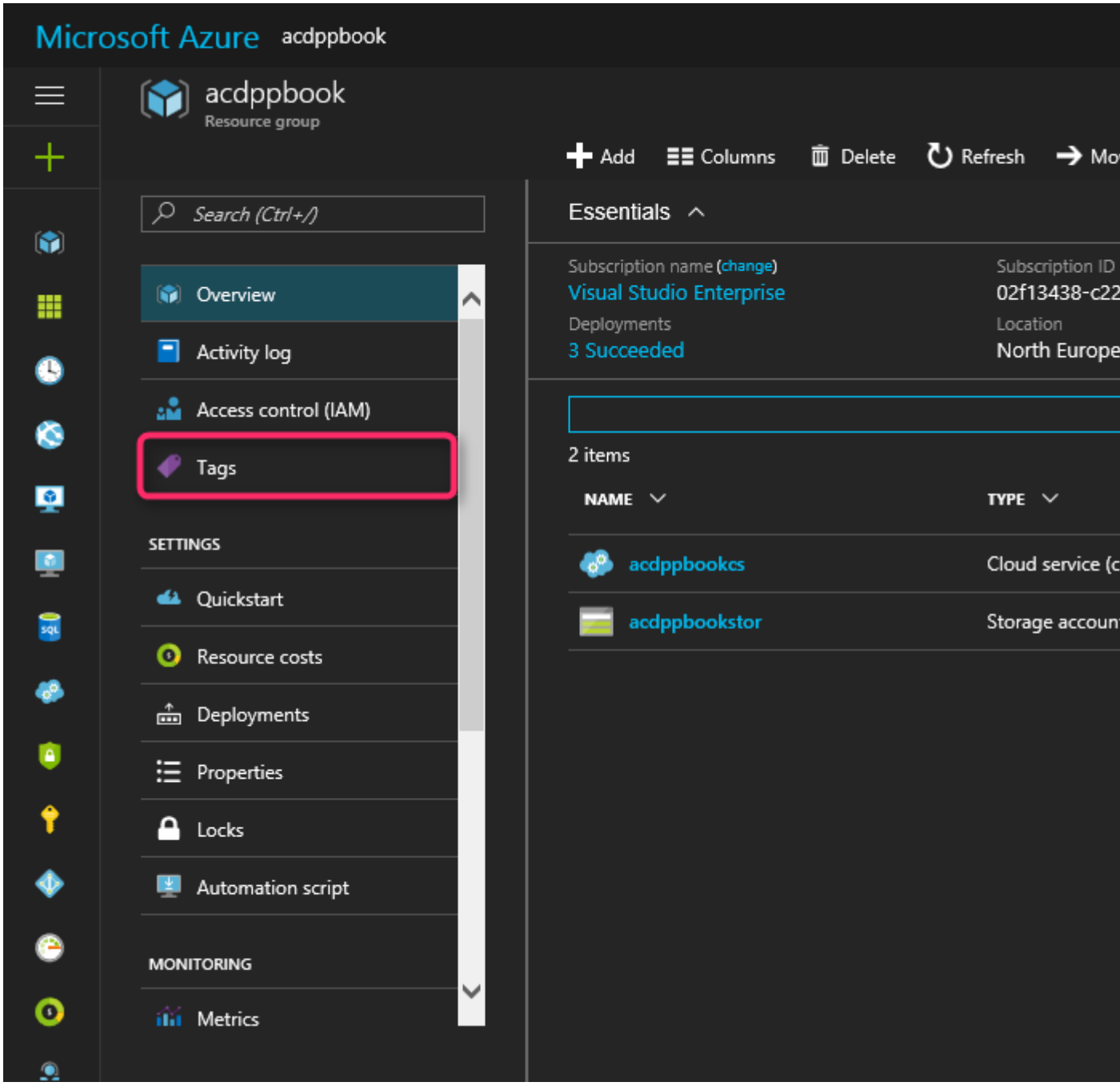
Microsoft Azure
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3 Succeeded
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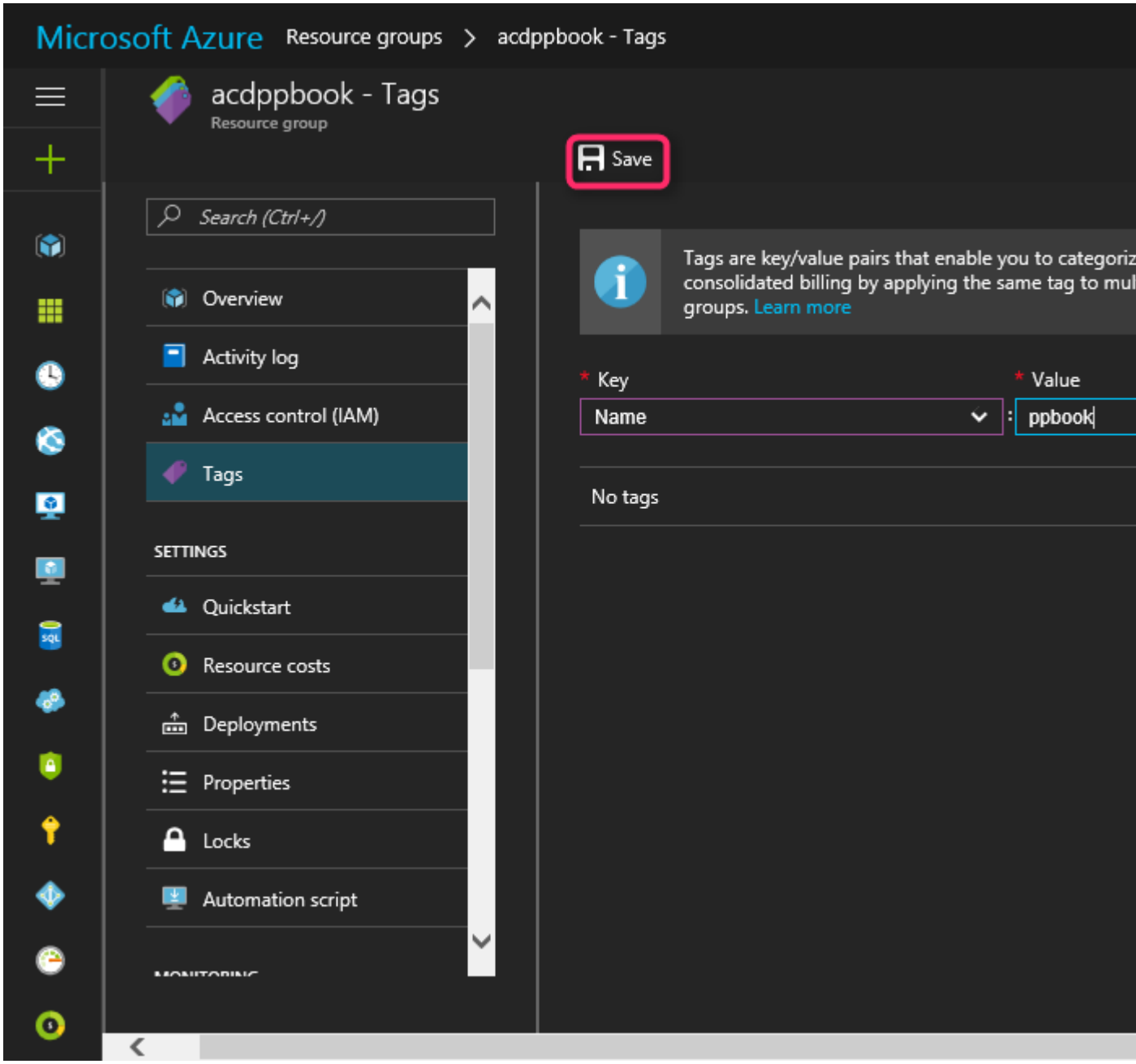
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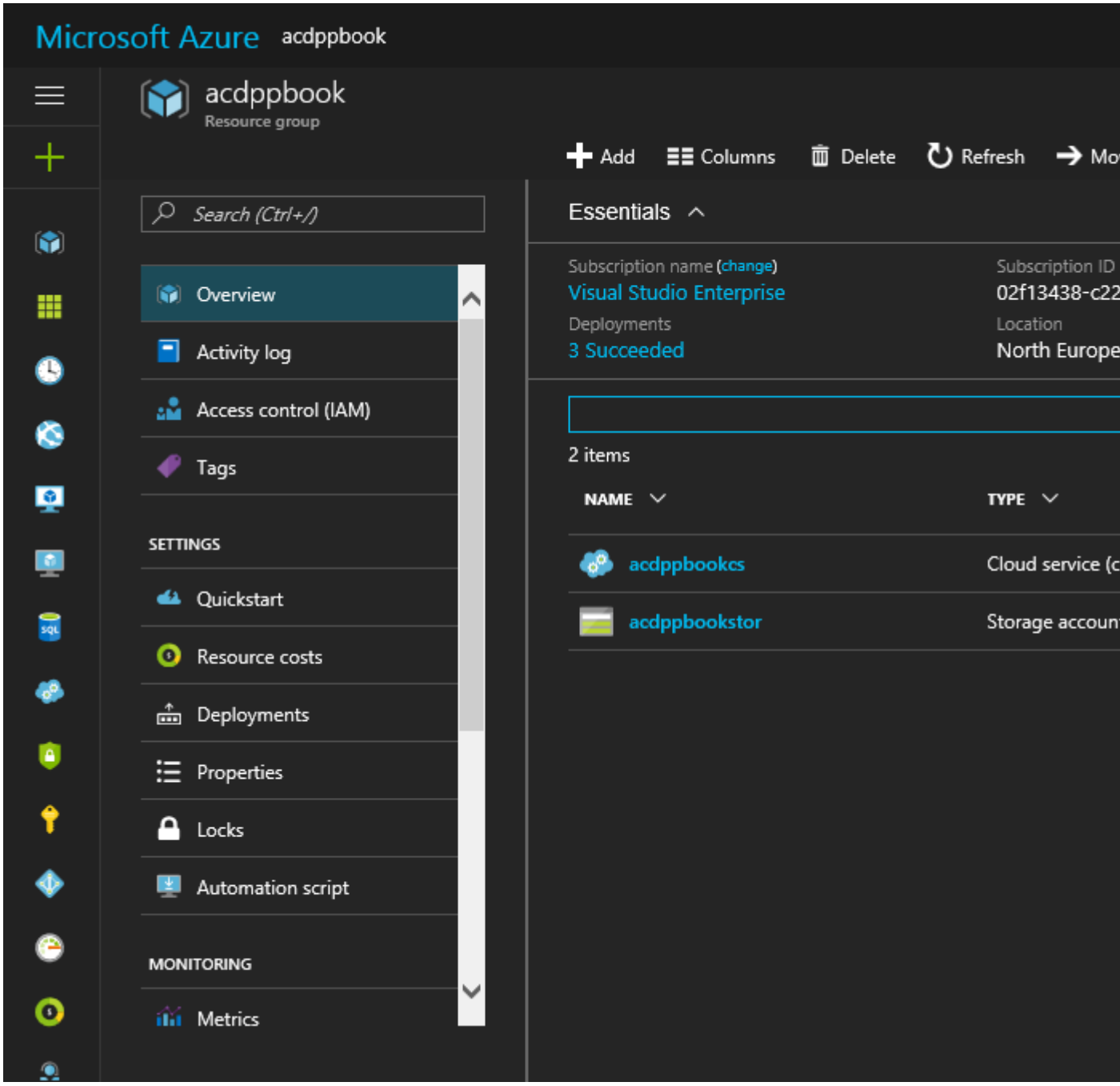
Tags are key/value pairs that enable you to categoriz
consolidated billing by applying the same tag to mul
groups. Learn more
* Key
* Value
Name
ppbook
No tags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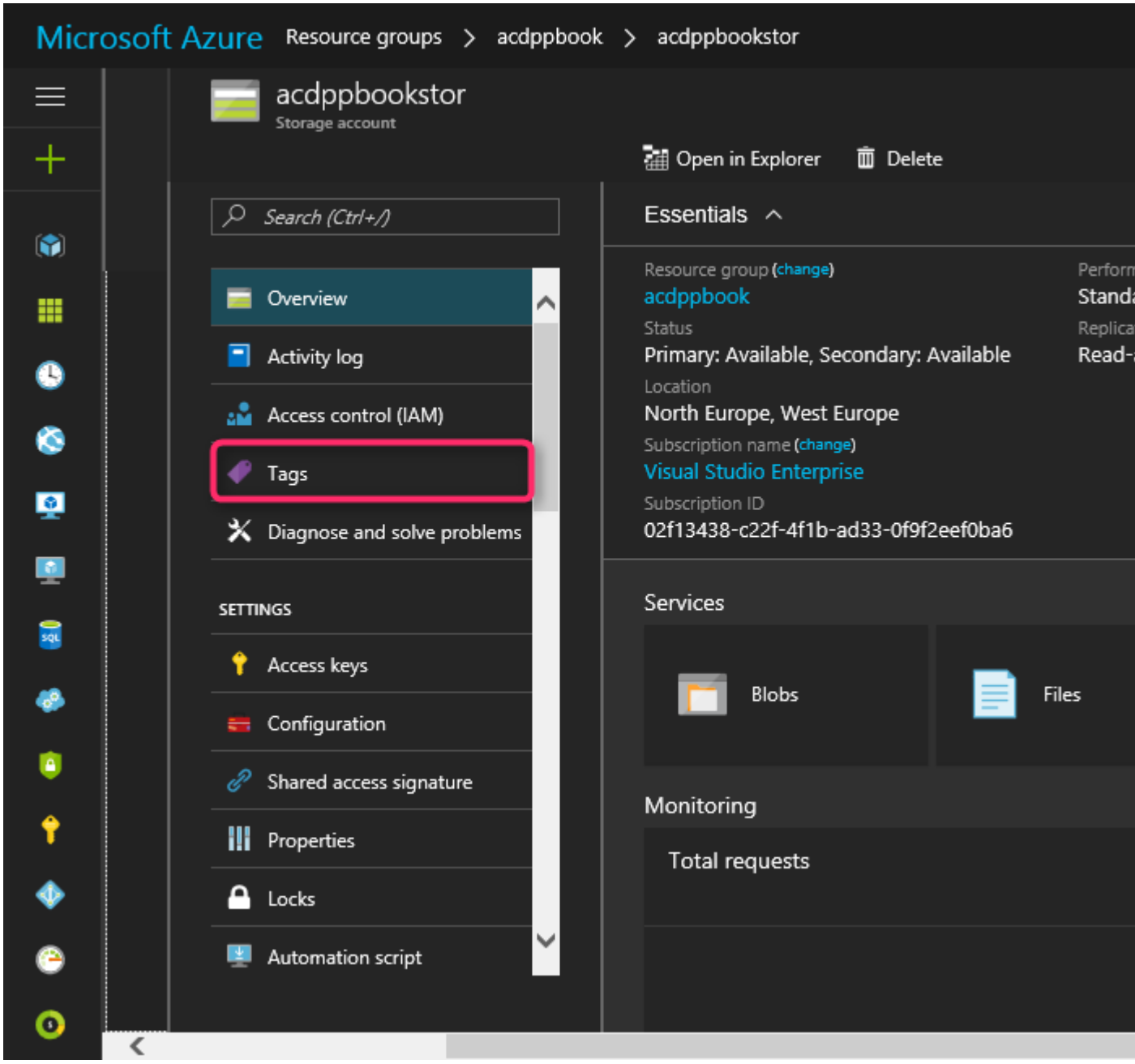
Microsoft Azure
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Services
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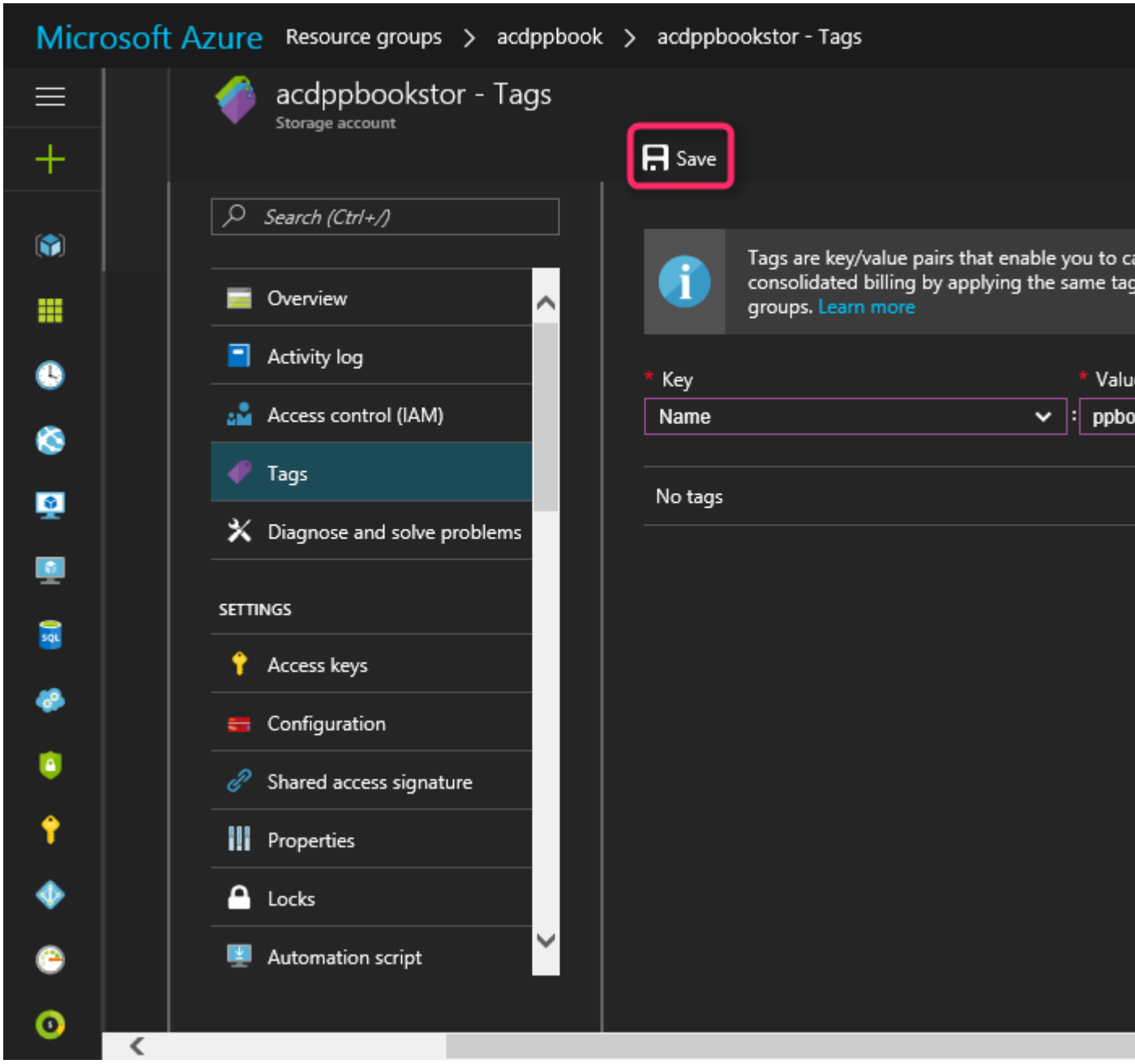
Total requests


Microsoft Azure
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Automation script
Tags are key/value pairs that enable you to
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groups. Learn more
* Key
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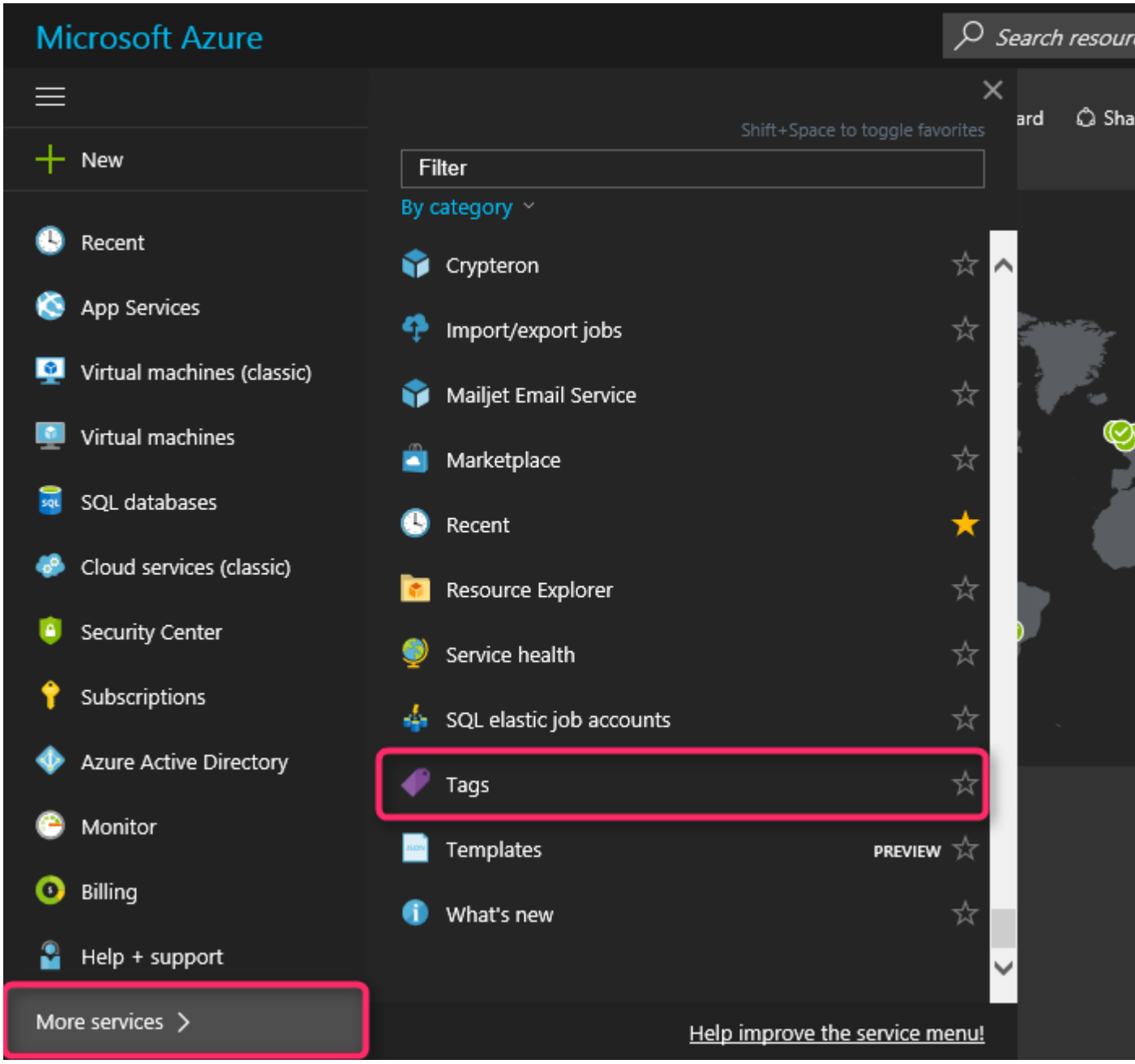
No tags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By category
Recent
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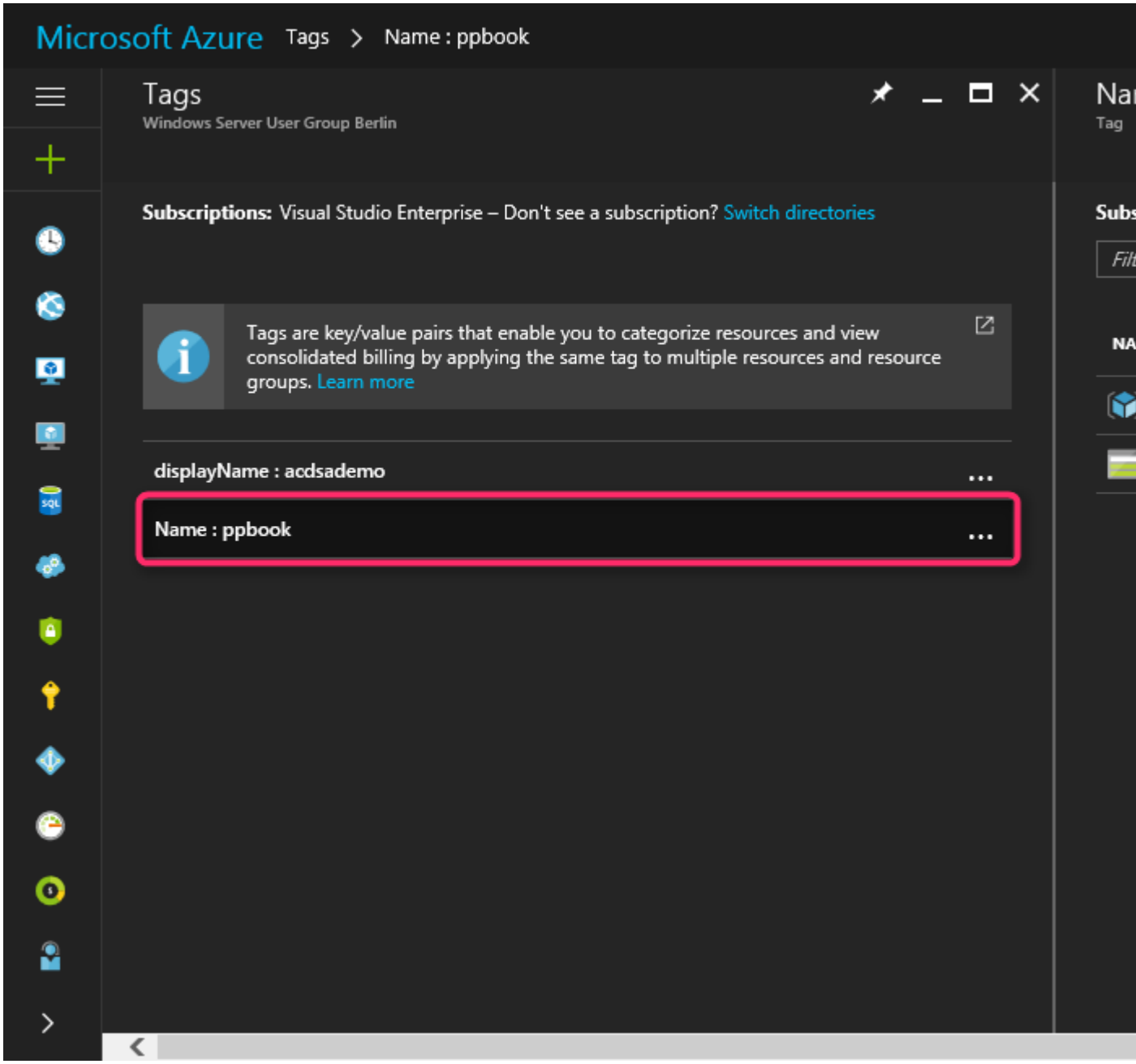
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
More services
Crypteron
Import/export jobs
Mailjet Email Service
Marketplace
Recent
Resource Explorer
Service health
SQL elastic job accounts
Tags
Templates
PREVIEW
What's new
Help improve the service menu!


Microsoft Azure
Tags > Name : ppbook
Tags
Windows Server User Group Berlin
Subscriptions: Visual Studio Enterprise – Don't see a subscription? Switch directories
Tags are key/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more
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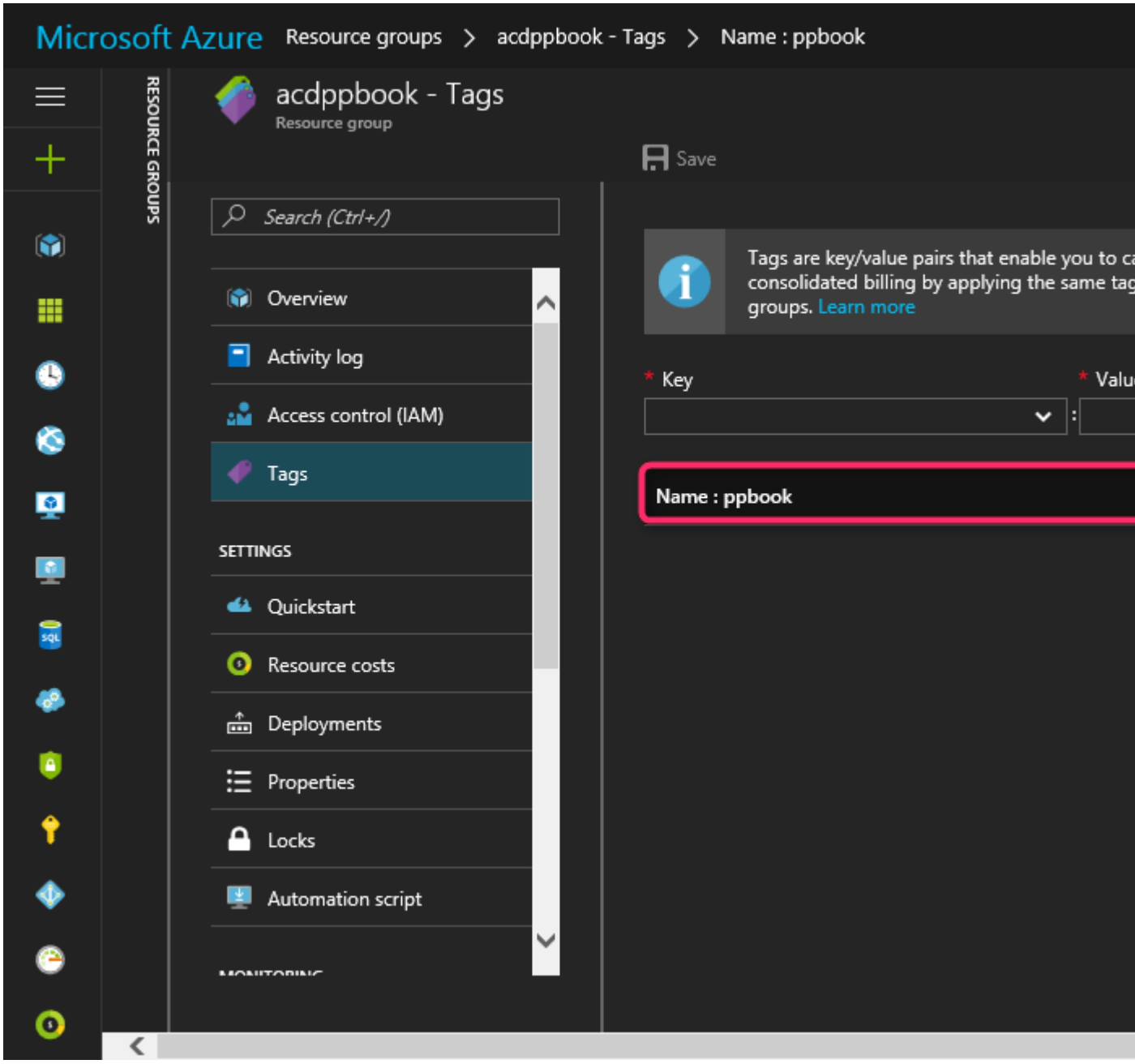
Microsoft Azure
Resource groups
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Name : ppbook
RESOURCE GROUPS
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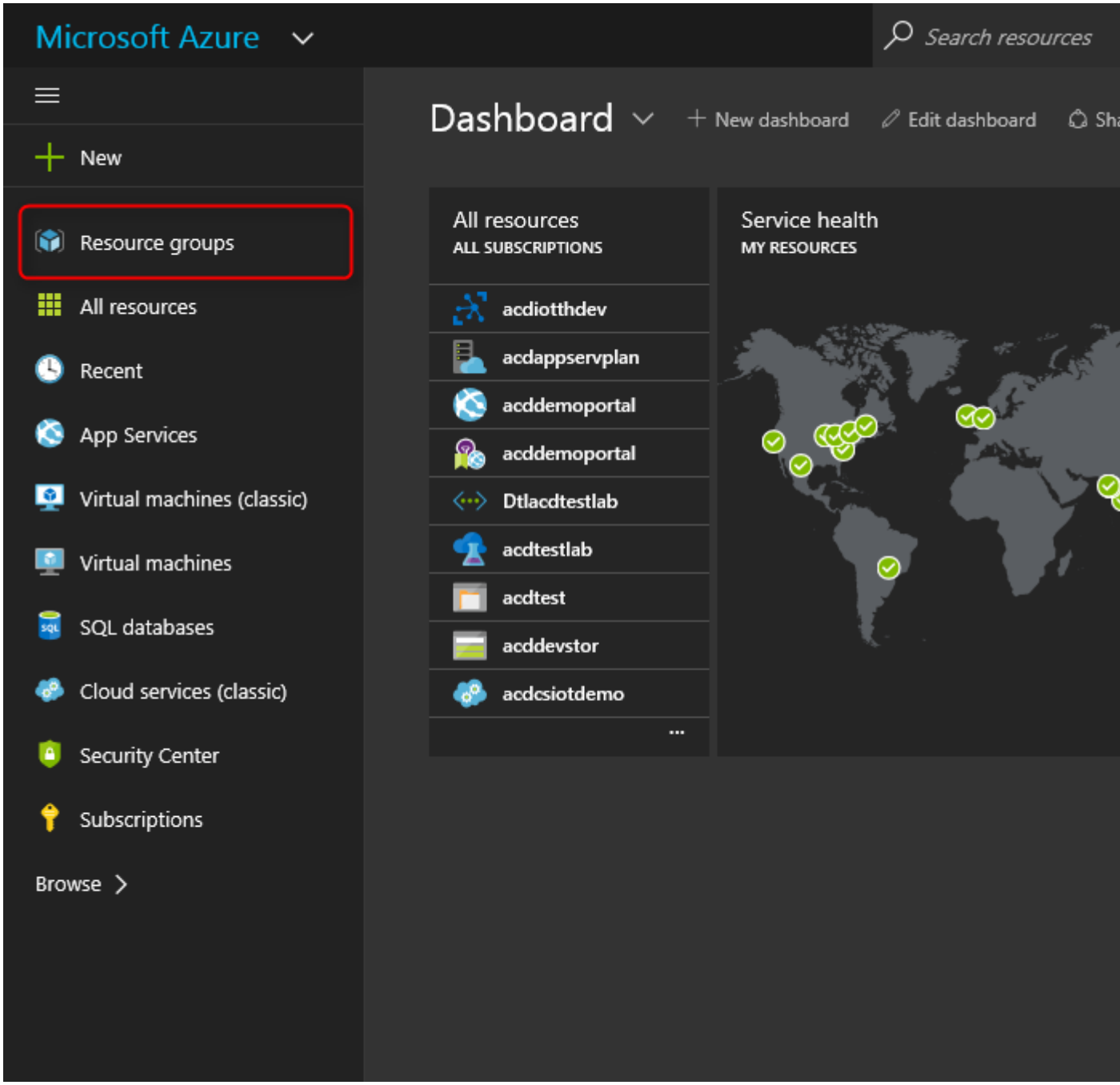
Microsoft Azure
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acddemoportal
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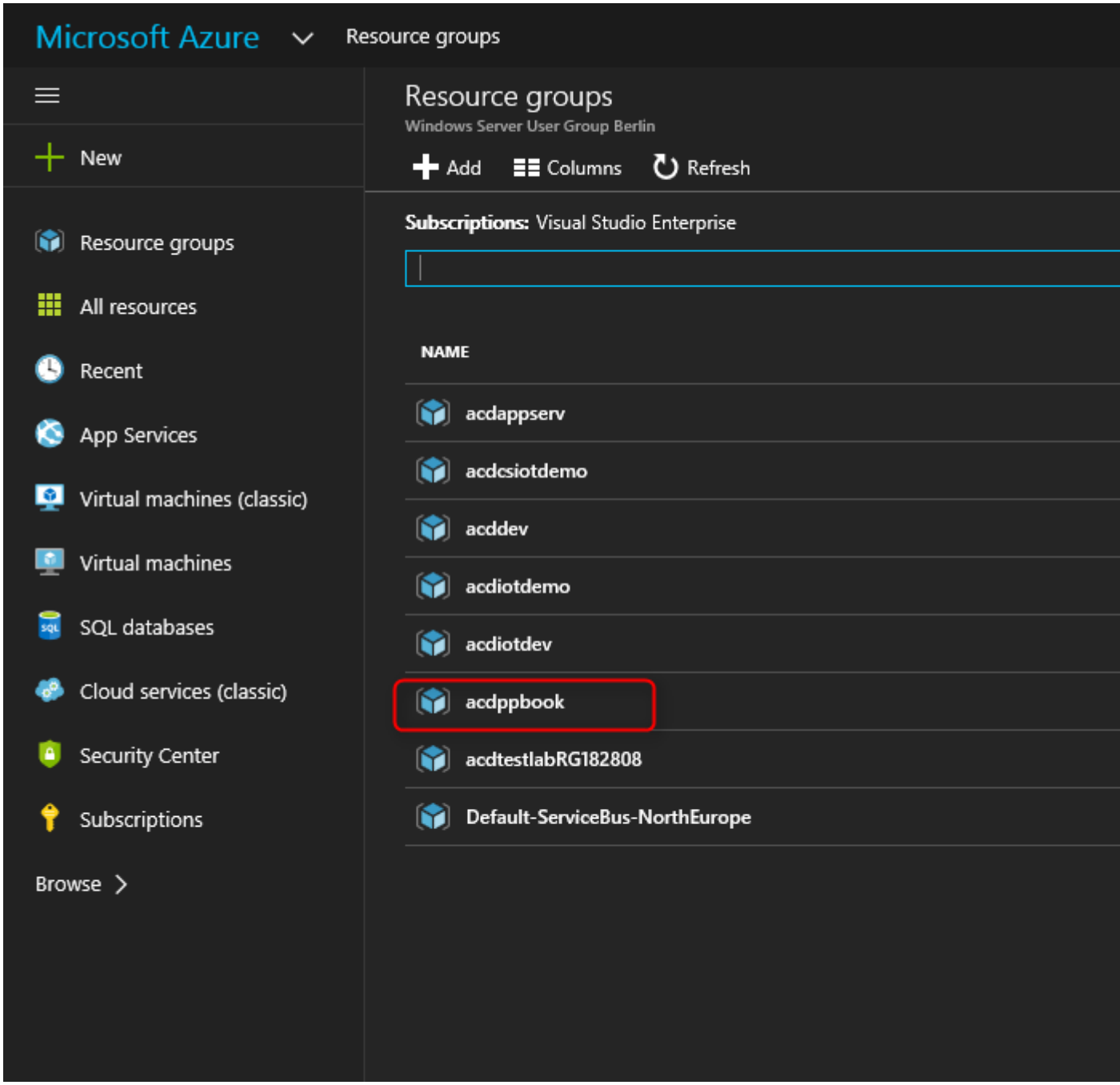
acddevstor
acdcsiotdemo
Service health
MY RESOURCES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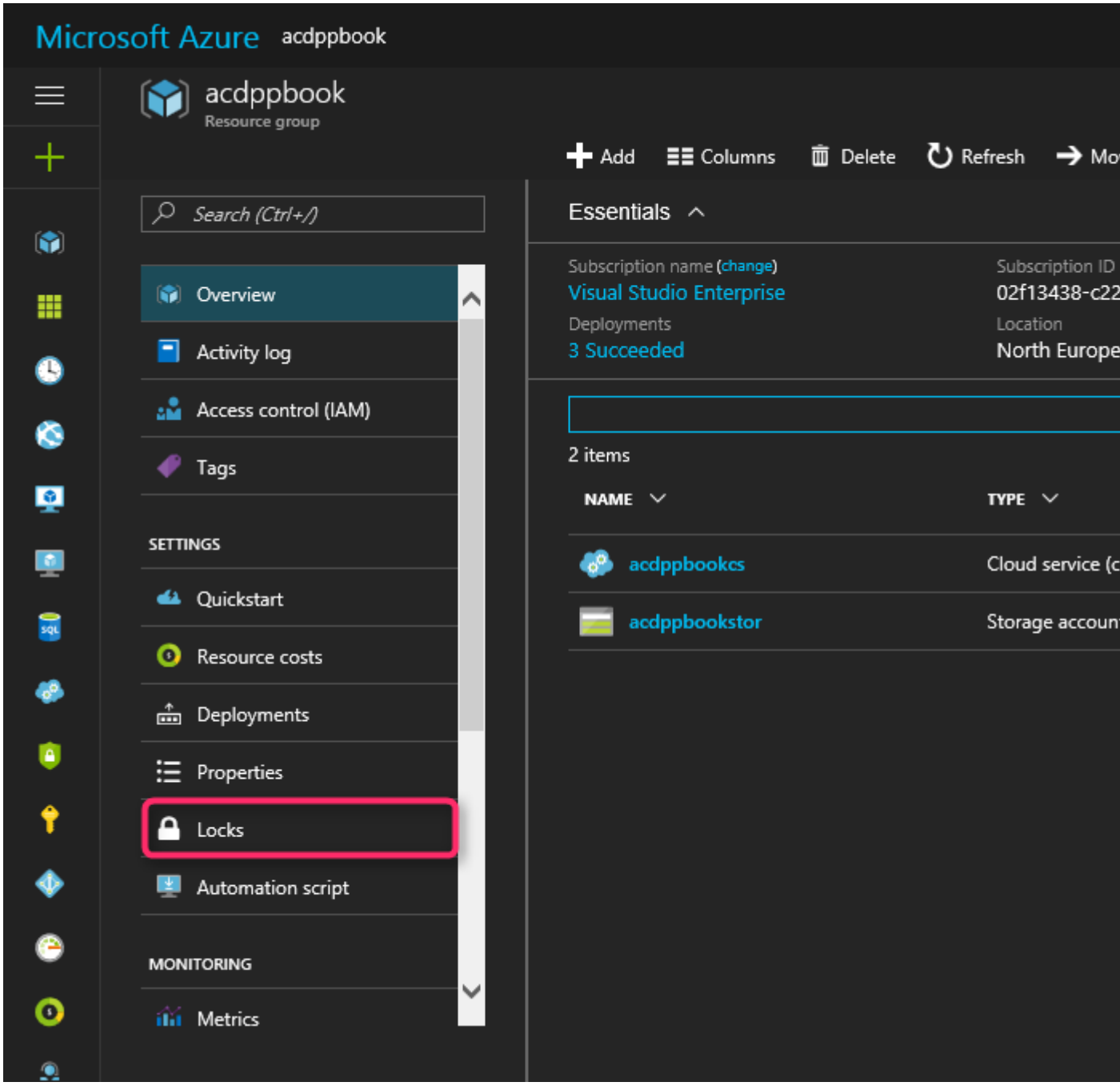
Default-ServiceBus-NorthEurope


Microsoft Azure
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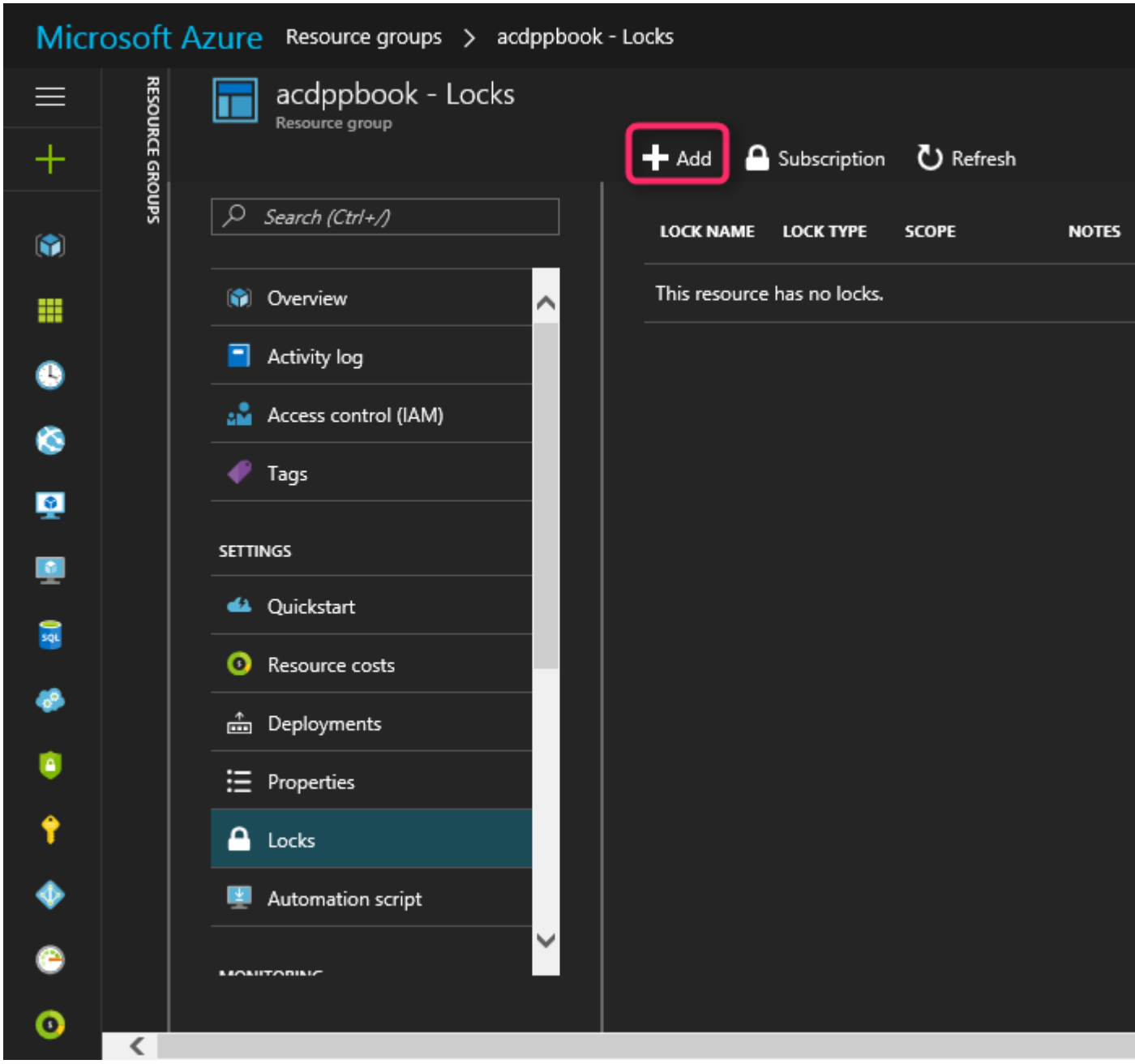
Microsoft Azure
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This resource has no locks.
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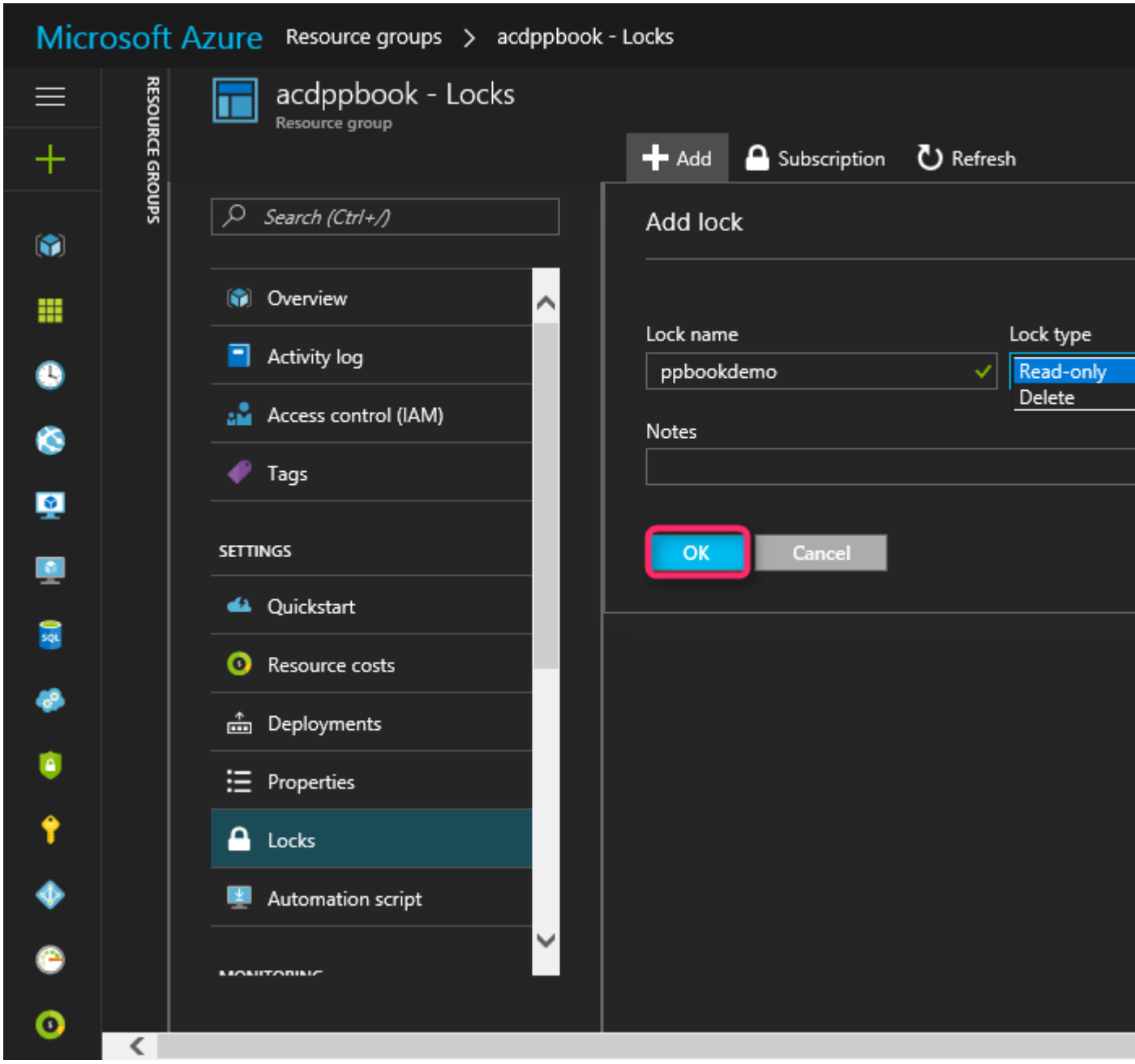
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Lock type
Read-only
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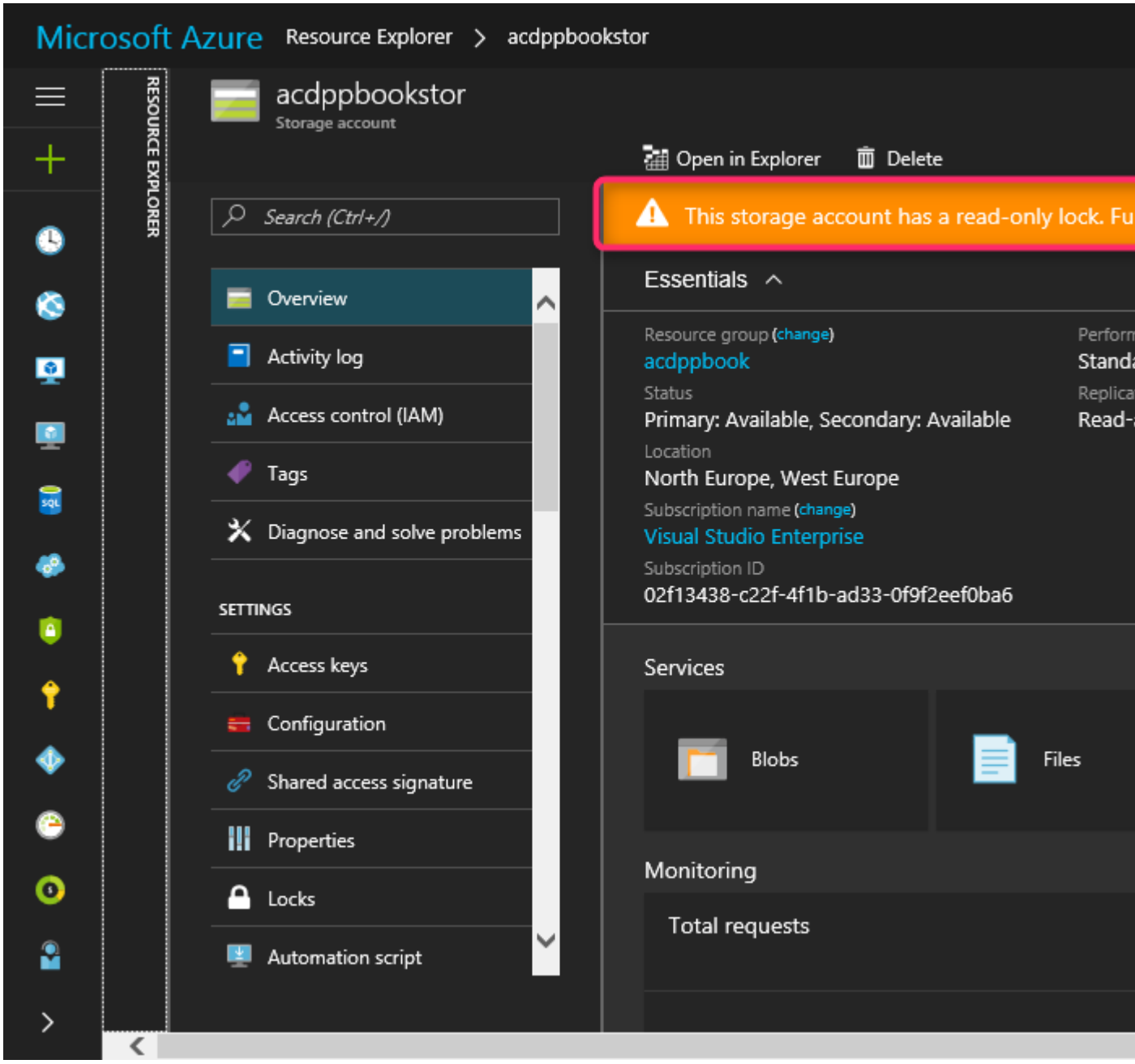
Notes
OK
Cancel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RESOURCE EXPLORER
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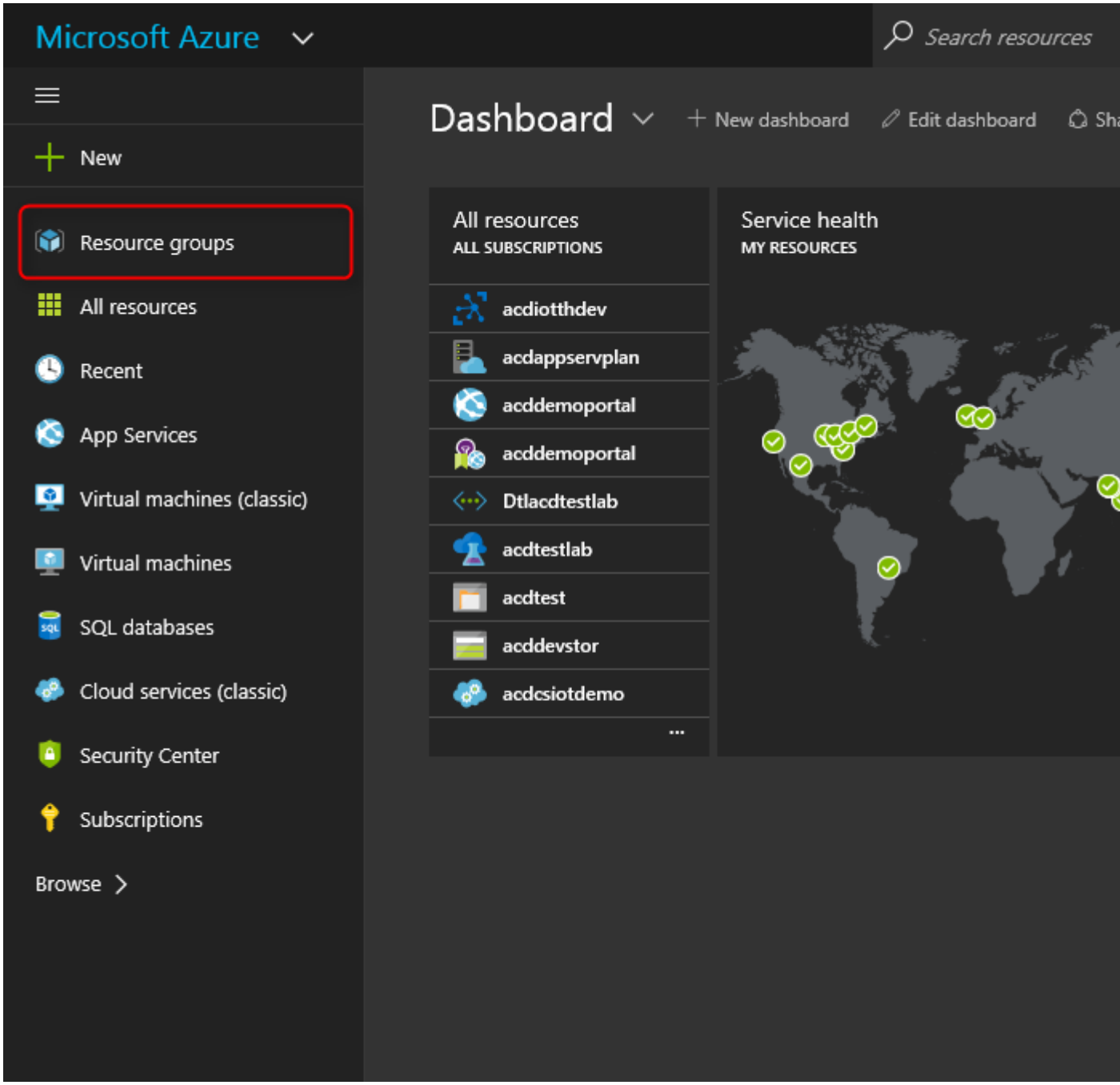
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acdappservplan
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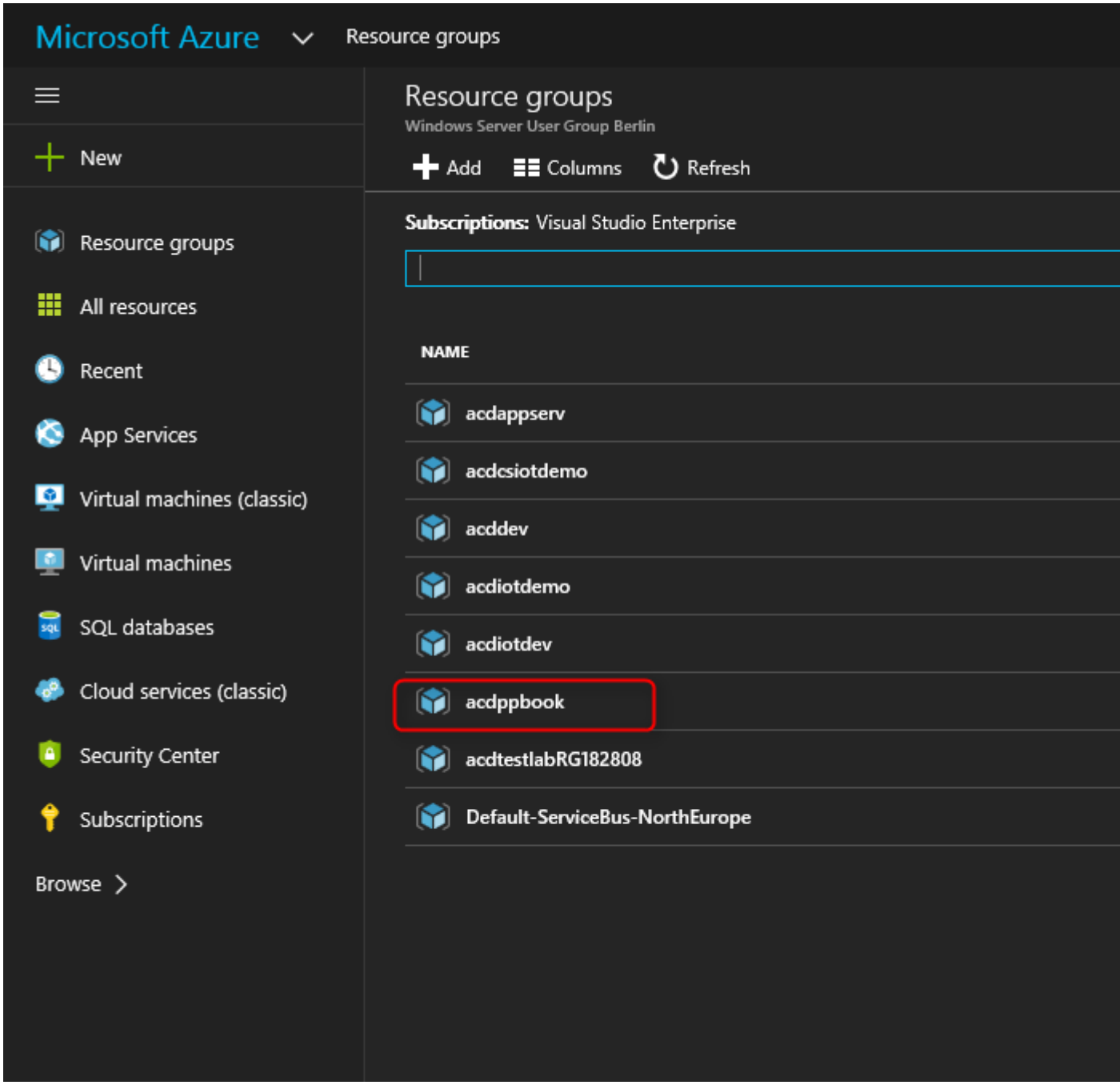
Service health
MY RESOURCES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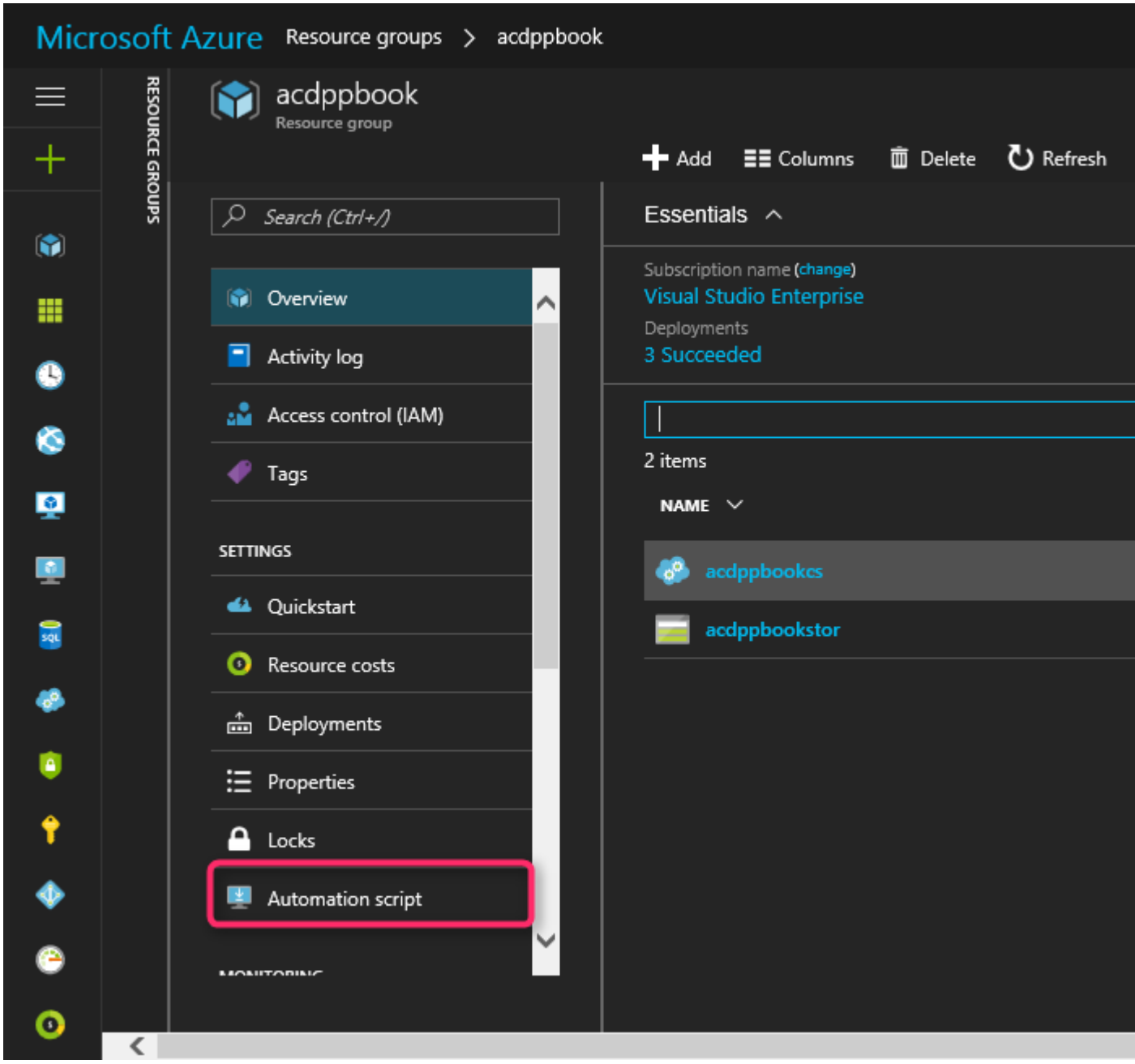
acdtestlabRG182808
Default-ServiceBus-NorthEurope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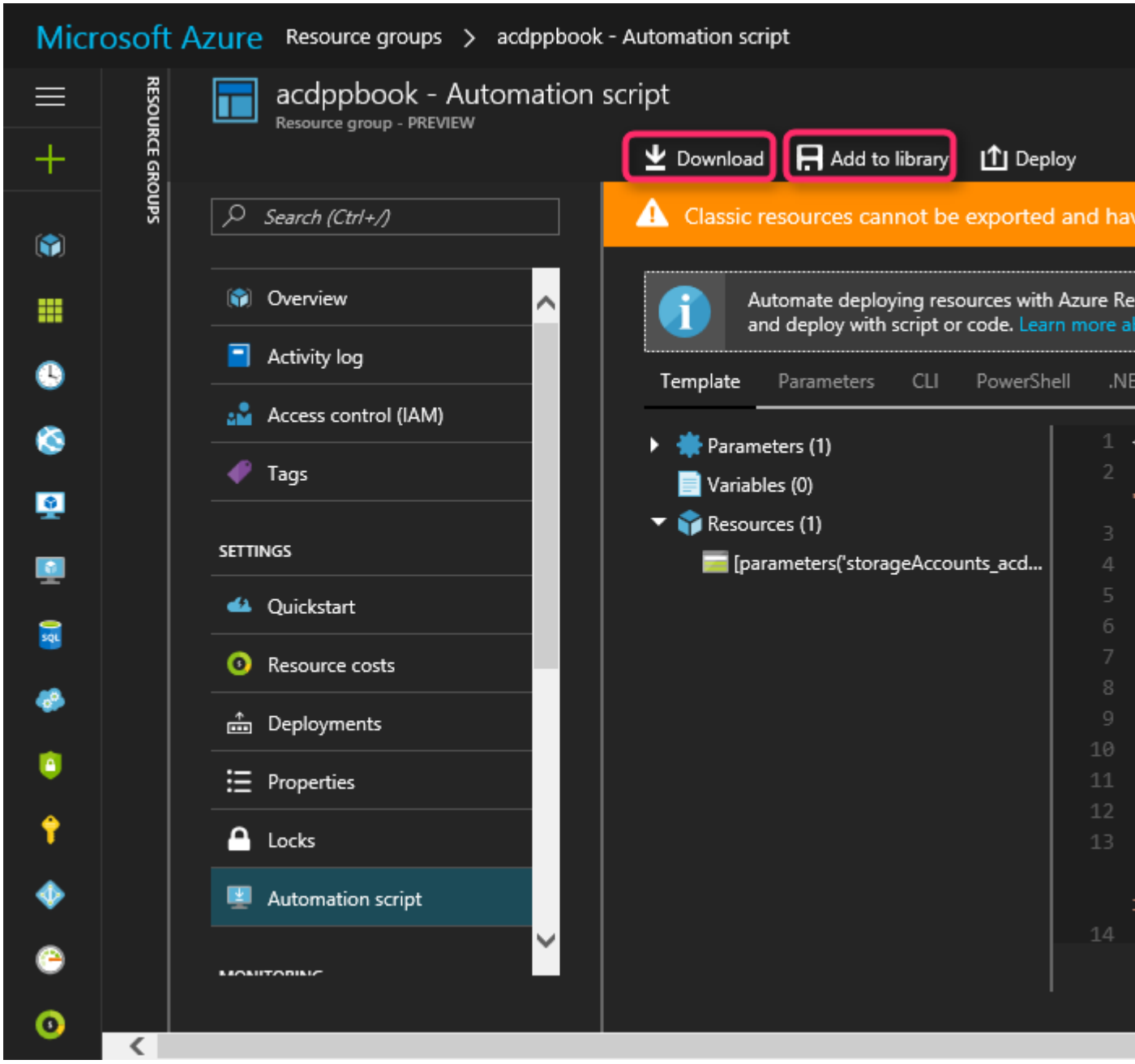
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Automate deploying resources with Azure Re
and deploy with script or code. Learn more a
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Parameters (1)
Variables (0)
Resources (1)
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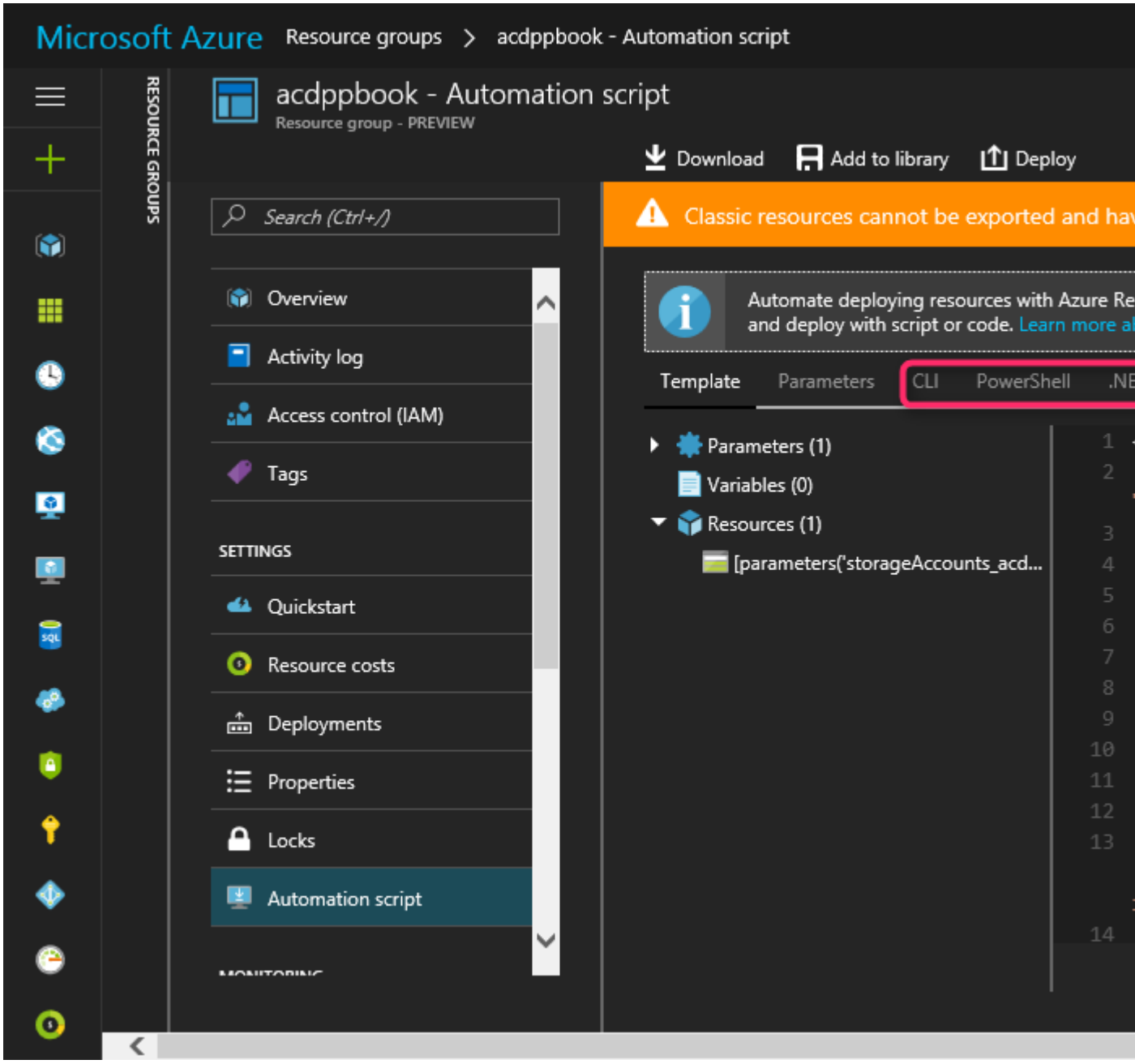
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PowerShell
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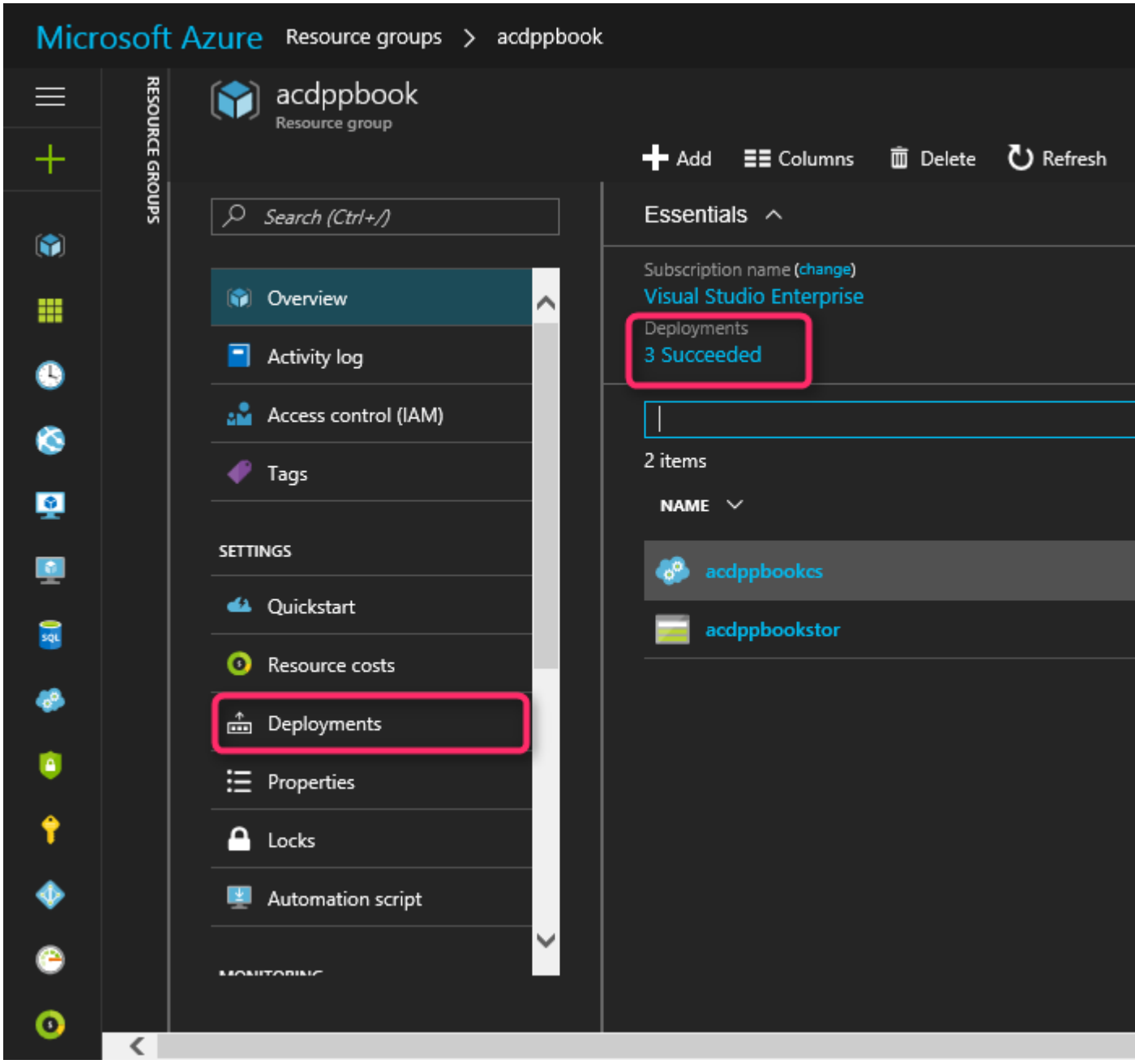
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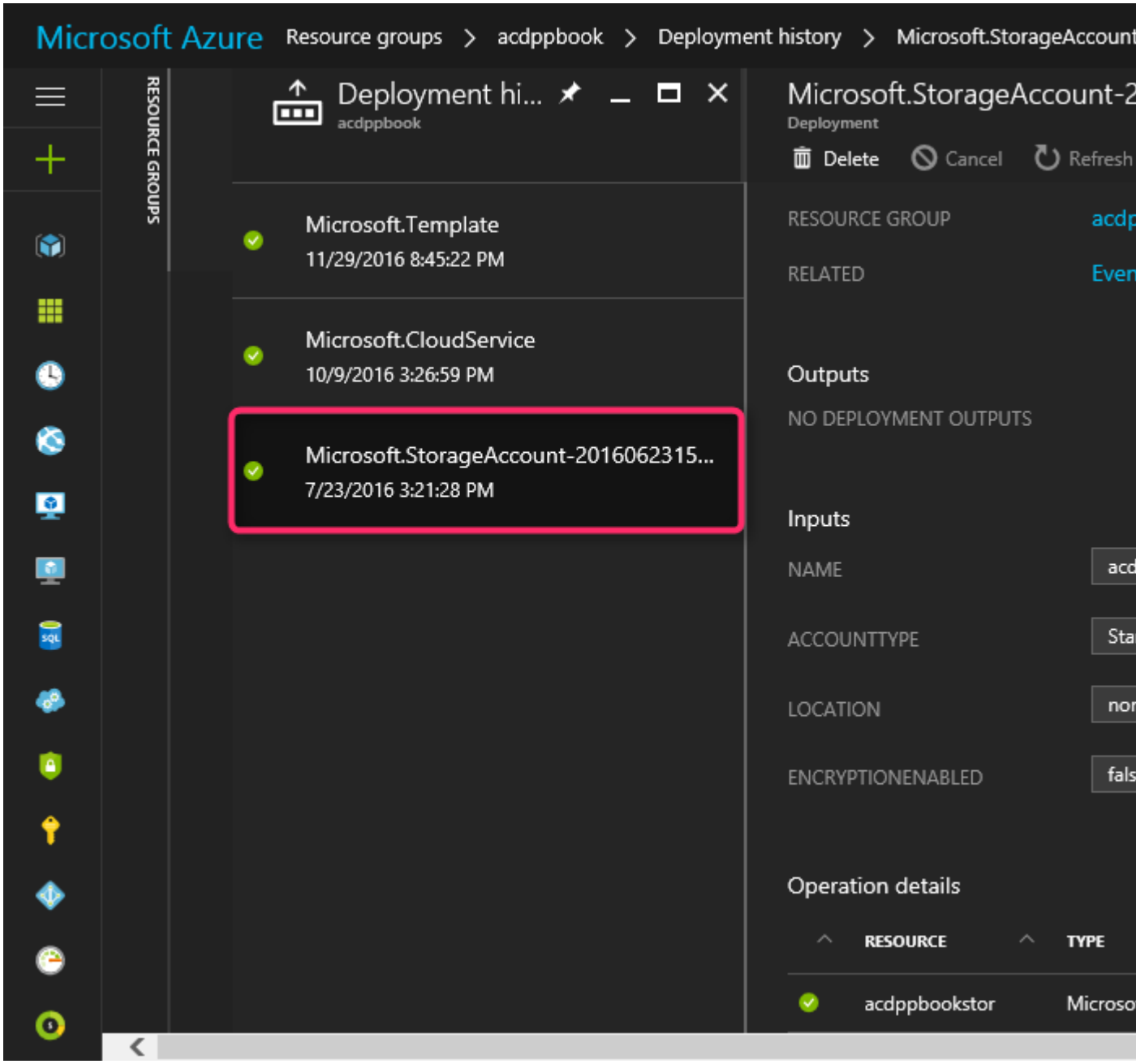
NAME
acdppbookcs
acdppbookstor


Microsoft Azure
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RESOURCE GROUPS
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Microsoft.Template
11/29/2016 8:45:22 PM
Microsoft.CloudService
10/9/2016 3:26:59 PM
Microsoft.StorageAccount-2016062315...
7/23/2016 3:21:28 PM
Microsoft.StorageAccount-2
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Outputs
NO DEPLOYMENT OUTPUTS
Inputs
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ACCOUNTTYPE
LOCATION
ENCRYPTIONENABLED
Operation details
RESOURCE
TYPE
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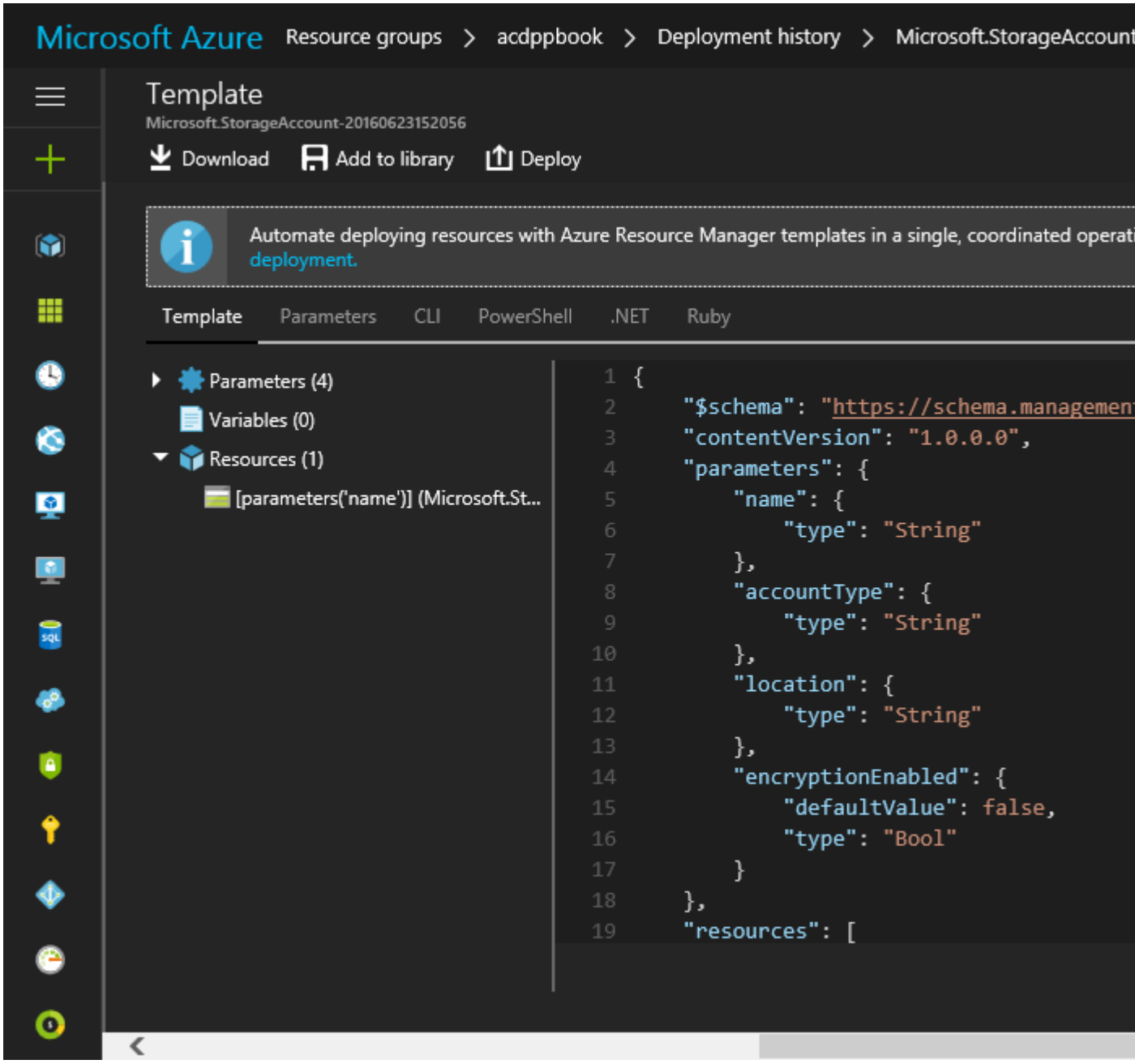
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Deployment history
Microsoft.StorageAccount
Template
Microsoft.StorageAccount-20160623152056
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Deploy
Automate deploying resources with Azure Resource Manager templates in a single, coordinated operati
deployment.
Template
Parameters
CLI
PowerShell
.NET
Ruby
Parameters (4)
Variables (0)
Resources (1)
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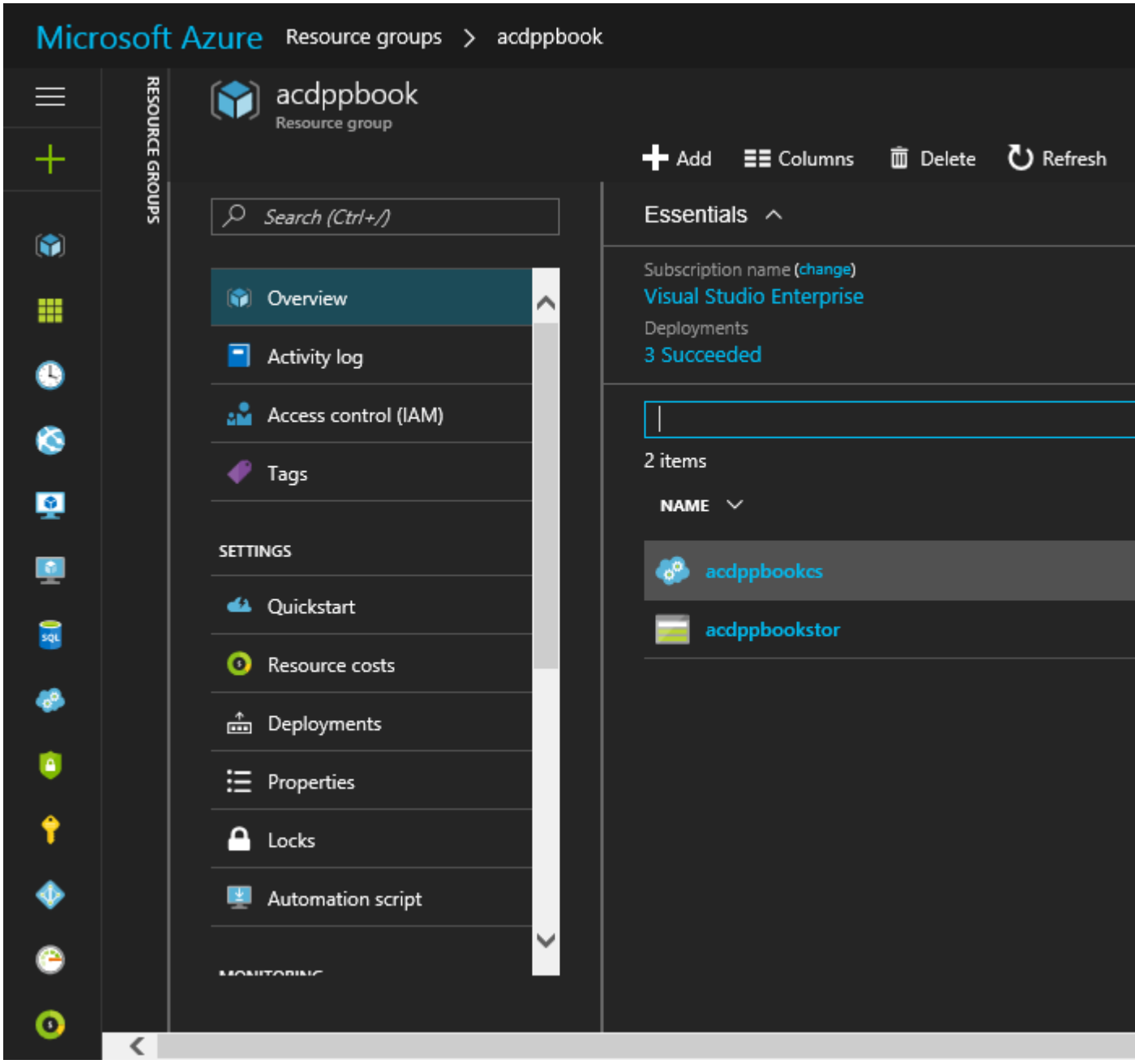
Microsoft Azure
Resource groups
acdppbook
RESOURCE GROUPS
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Resource group
Add
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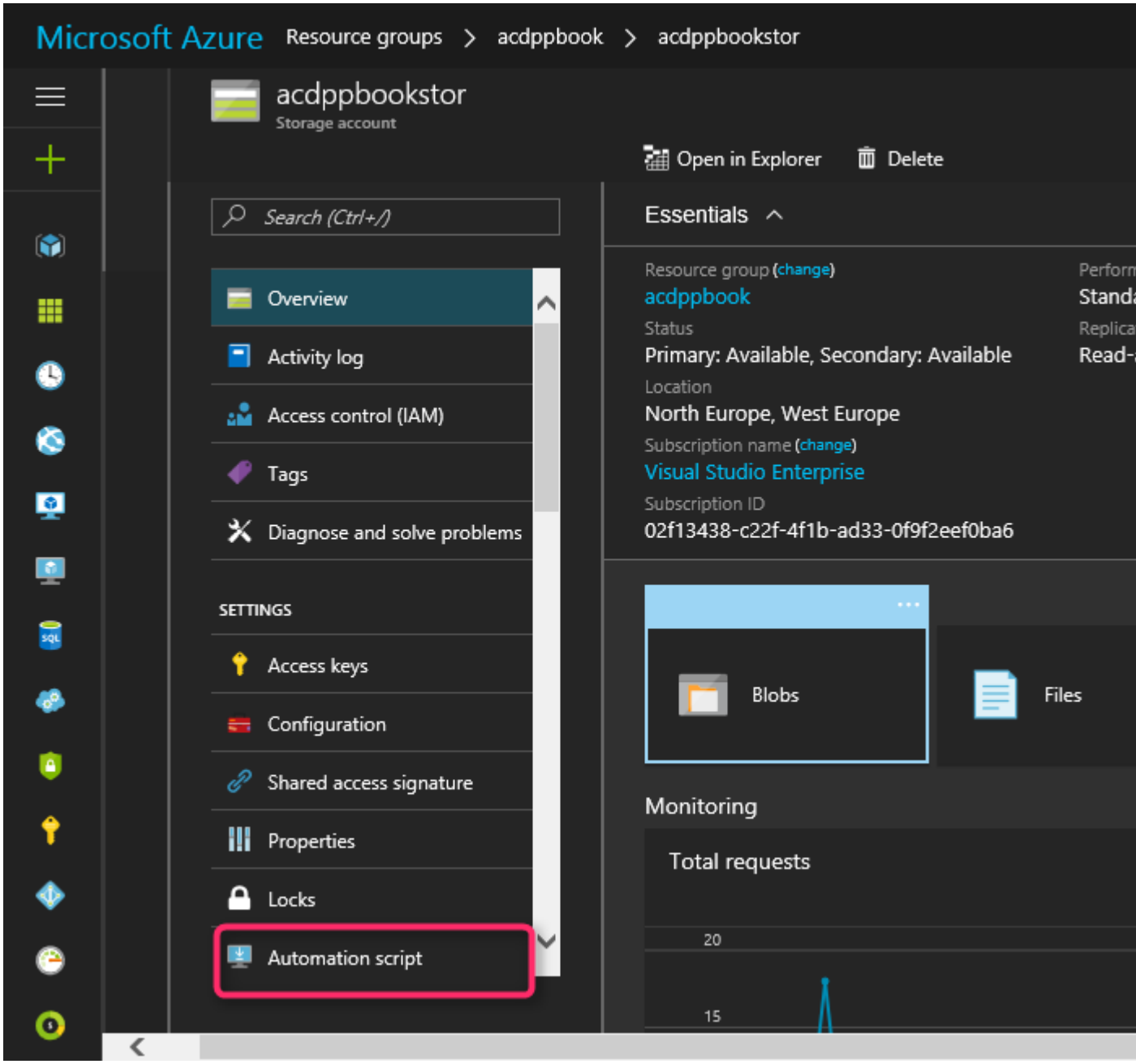
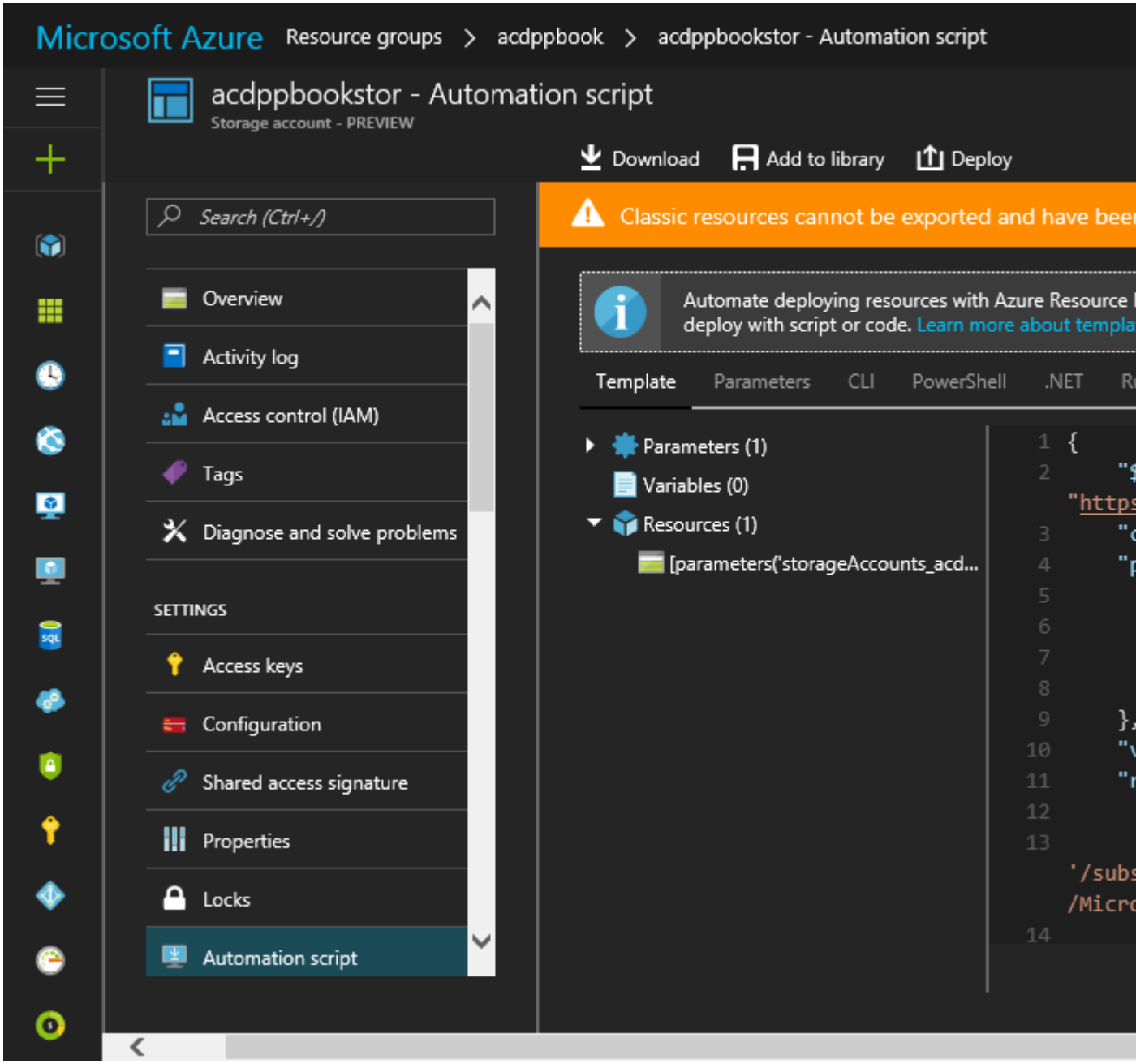
Delete
Refresh
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Resource costs
Deployments
Properties
Locks
Automation script
Essentials
Subscription name (change)
Visual Studio Enterprise
Deployments
3 Succeeded
2 items
NAME
acdppbookcs
acdppbookstor


Microsoft Azure
Resource groups
acdppbook
acdppbookstor
acdppbookstor
Storage account
Open in Explorer
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Properties
Locks
Automation script
Essentials
Resource group (change)
acdppbook
Status
Primary: Available, Secondary: Available
Location
North Europe, West Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
Blobs
Files
Monitoring
Total requests
20
15


Microsoft Azure
Resource groups
acdppbook
acdppbookstor - Automation script
acdppbookstor - Automation script
Storage account - PREVIEW
Download
Add to library
Deploy
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Properties
Locks
Automation script
Classic resources cannot be exported and have bee
Automate deploying resources with Azure Resource
deploy with script or code. Learn more about templa
Template
Parameters
CLI
PowerShell
.NET
Parameters (1)
Variables (0)
Resources (1)
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'/subs
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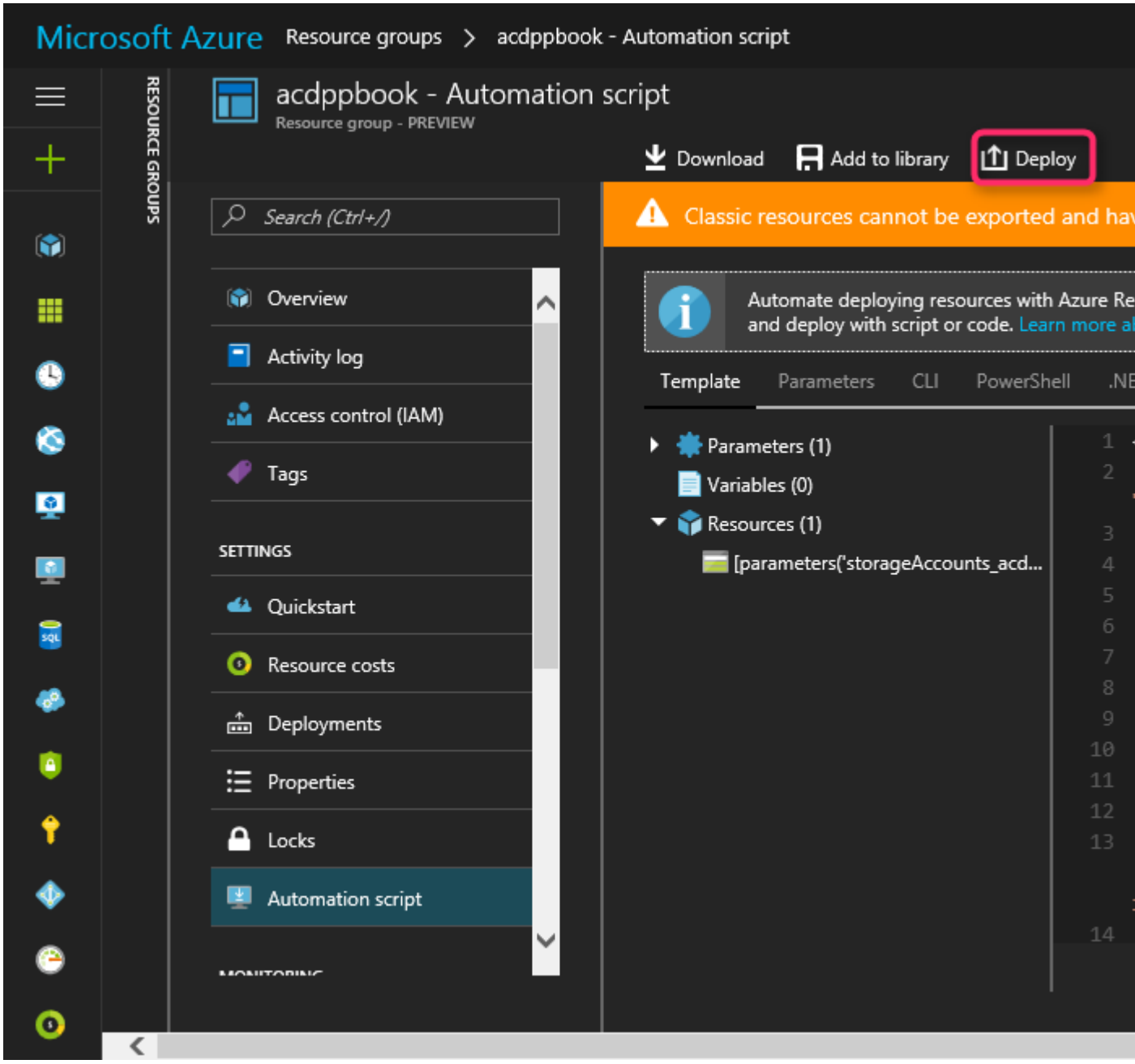
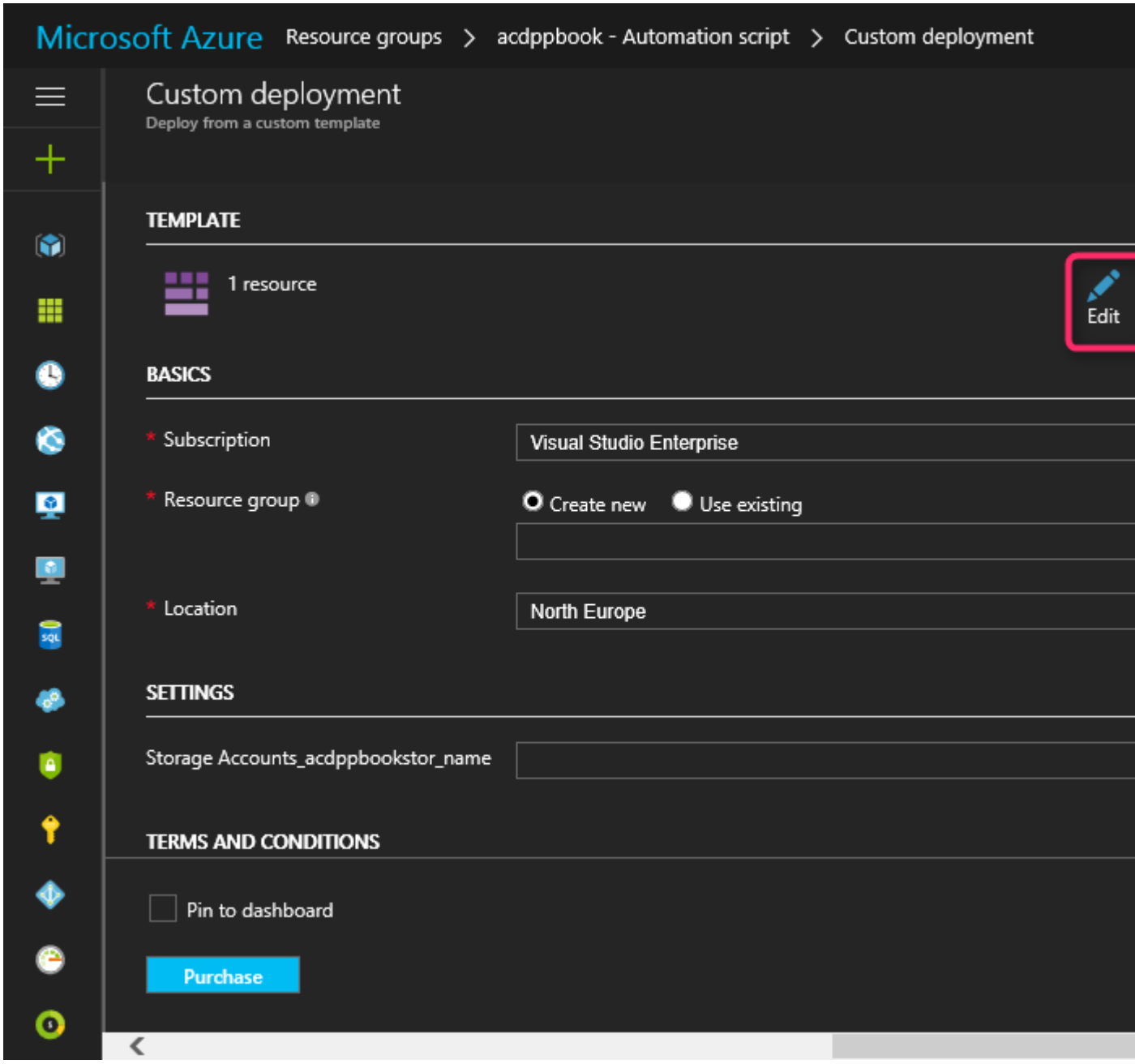
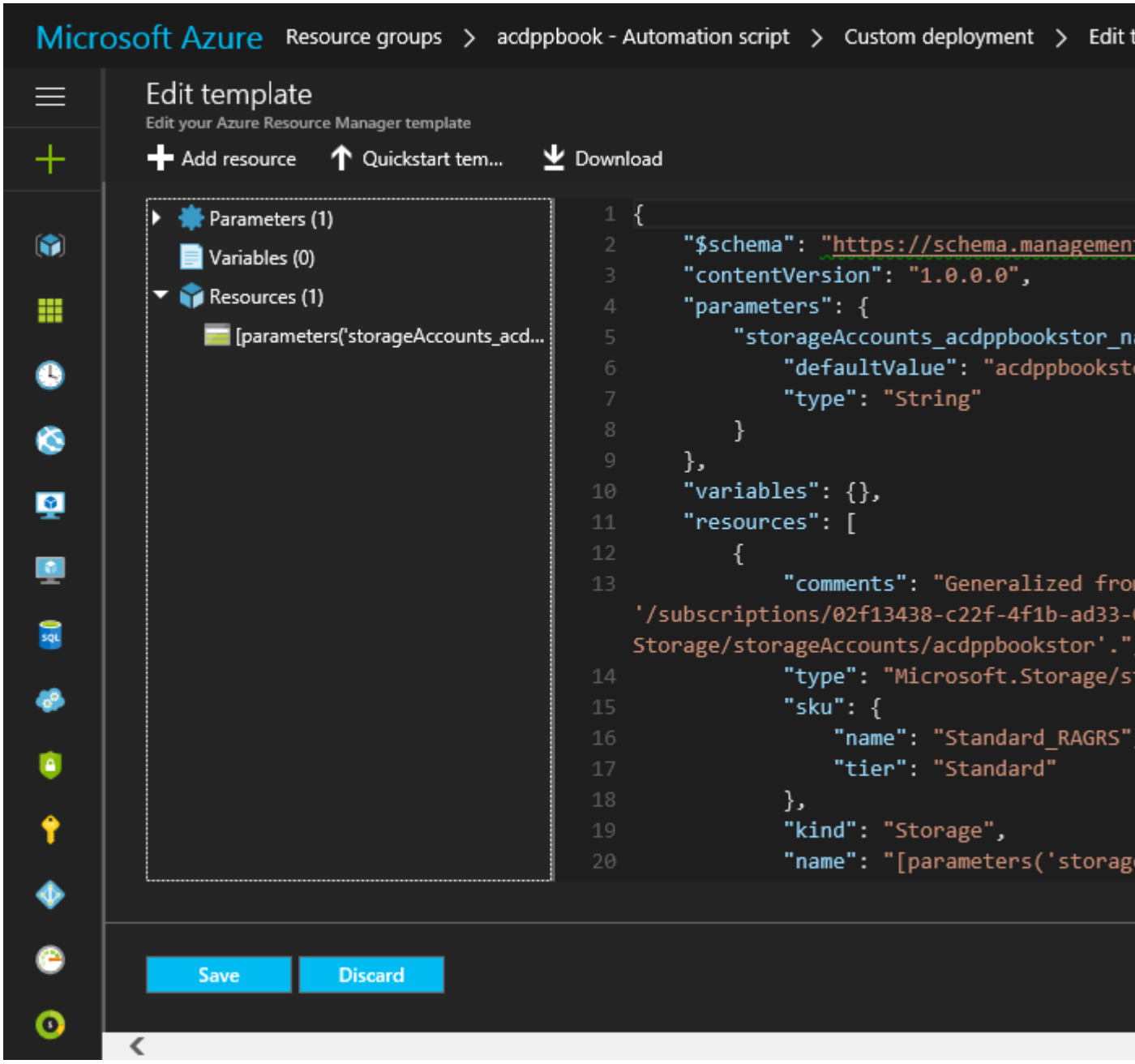

Microsoft Azure
Resource groups
acdppbook - Automation script
RESOURCE GROUPS
acdppbook - Automation script
Resource group - PREVIEW
Download
Add to library
Deploy
Search (Ctrl+/)
Classic resources cannot be exported and hav
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Resource costs
Deployments
Properties
Locks
Automation script
Automate deploying resources with Azure Re
and deploy with script or code. Learn more a
Template
Parameters
CLI
PowerShell
.NE
Parameters (1)
Variables (0)
Resources (1)
[parameters('storageAccounts_acd...


Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Custom deployment
Deploy from a custom template
TEMPLATE
1 resource
Edit
BASICS
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
* Location
North Europe
SETTINGS
Storage Accounts_acdppbookstor_name
TERMS AND CONDITIONS
Pin to dashboard
Purchase


Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Parameters (1)
Variables (0)
Resources (1)
[parameters('storageAccounts_acd...
{
"$schema": "https://schema.managemen
"contentVersion": "1.0.0.0",
"parameters": {
"storageAccounts_acdppbookstor_n
"defaultValue": "acdppbookst
"type": "String"
},
"variables": {},
"resources": [
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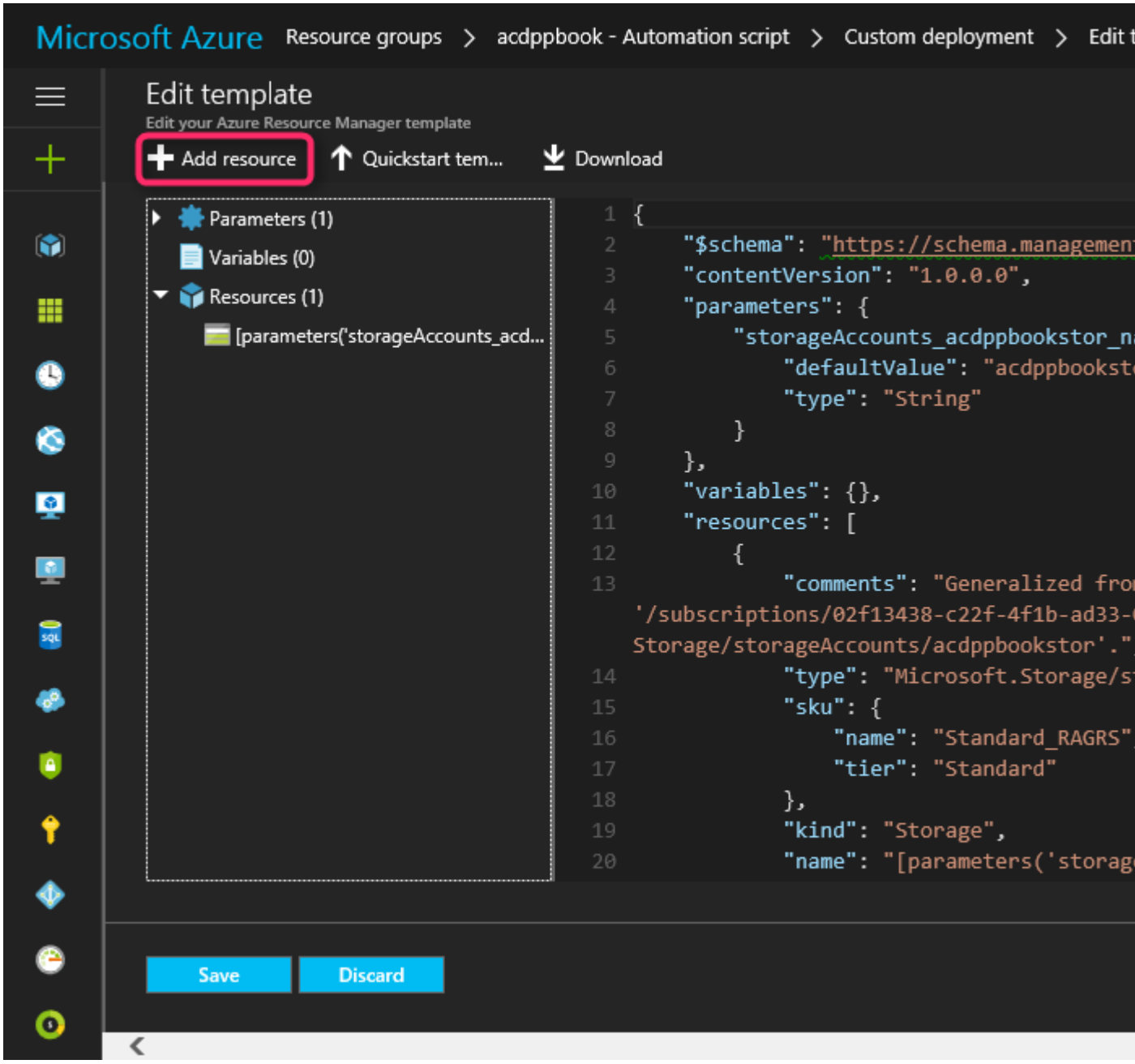
Storage/storageAccounts/acdppbookstor'."
"type": "Microsoft.Storage/s
"sku": {
"name": "Standard_RAGRS"
"tier": "Standard"
},
"kind": "Storage",
"name": "[parameters('storag
Save
Discard


Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Parameters (1)
Variables (0)
Resources (1)
[parameters('storageAccounts_acd...
{
"$schema": "https://schema.managemen
"contentVersion": "1.0.0.0",
"parameters": {
"storageAccounts_acdppbookstor_n
"defaultValue": "acdppbookst
"type": "String"
},
"variables": {},
"resources": [
{
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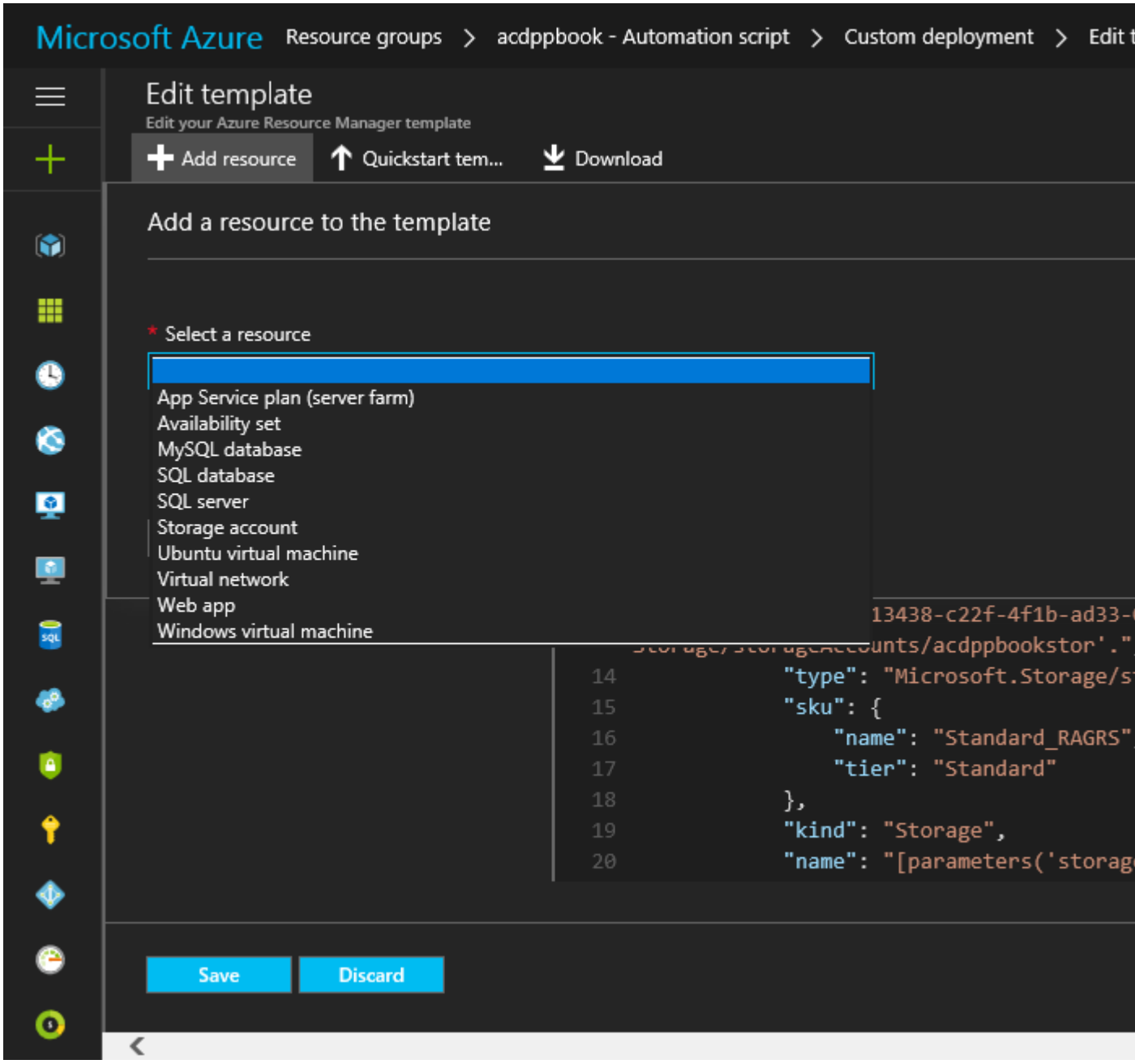
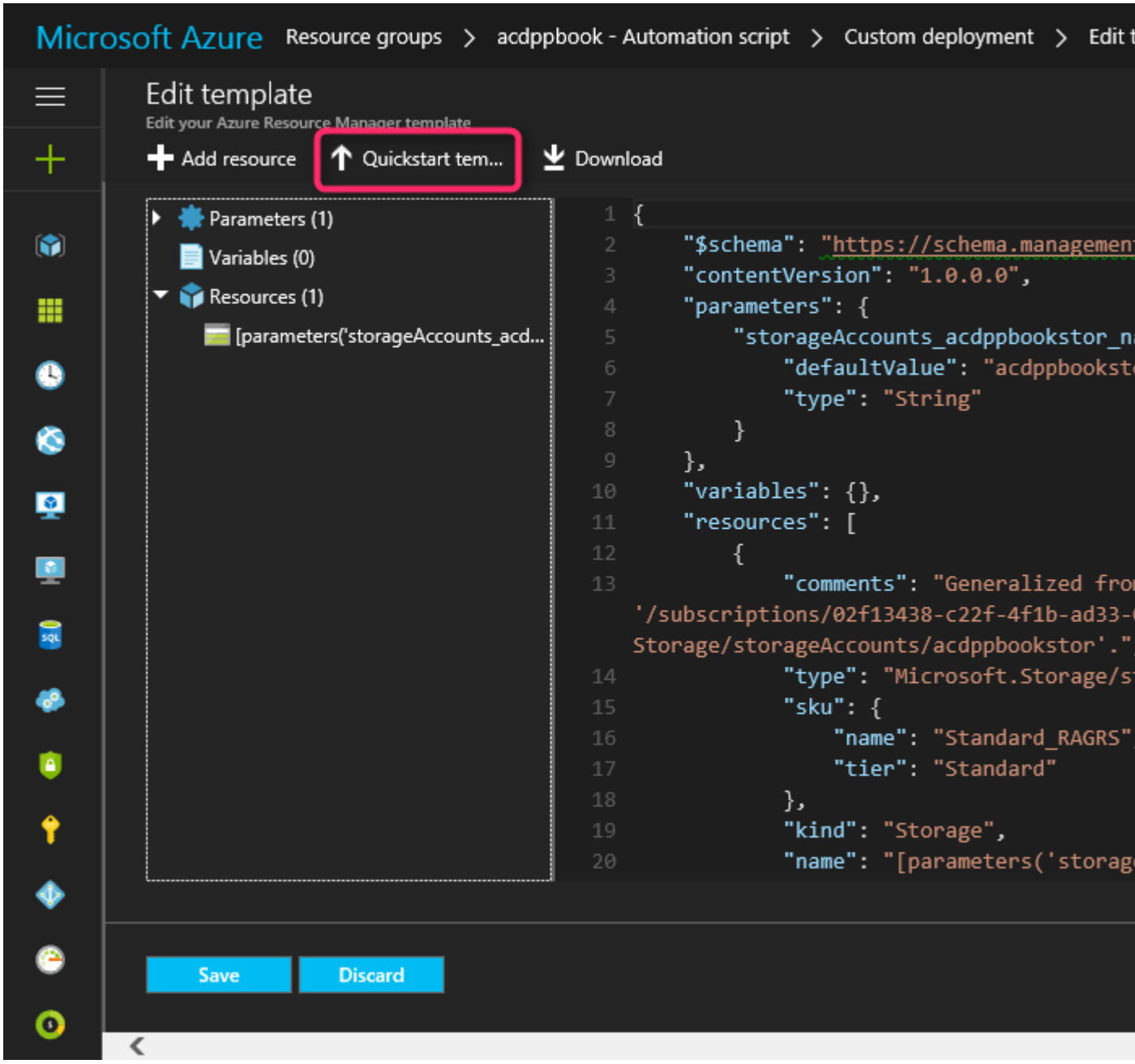
'/subscriptions/02f13438-c22f-4f1b-ad33-
Storage/storageAccounts/acdppbookstor'."
"type": "Microsoft.Storage/s
"sku": {
"name": "Standard_RAGRS"
"tier": "Standard"
},
"kind": "Storage",
"name": "[parameters('storag
Save
Discard


Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Add a resource to the template
* Select a resource
App Service plan (server farm)
Availability set
MySQL database
SQL database
SQL server
Storage account
Ubuntu virtual machine
Virtual network
Web app
Windows virtual machine
"type": "Microsoft.Storage/s
"sku": {
"name": "Standard_RAGRS"
"tier": "Standard"
},
"kind": "Storage",
"name": "[parameters('storag
Save
Discard


Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Parameters (1)
Variables (0)
Resources (1)
[parameters('storageAccounts_acd...
{
"$schema": "https://schema.managemen
"contentVersion": "1.0.0.0",
"parameters": {
"storageAccounts_acdppbookstor_n
"defaultValue": "acdppbookst
"type": "String"
},
"variables": {},
"resources": [
{
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'/subscriptions/02f13438-c22f-4f1b-ad33-
Storage/storageAccounts/acdppbookstor'."
"type": "Microsoft.Storage/s
"sku": {
"name": "Standard_RAGRS"
"tier": "Standard"
},
"kind": "Storage",
"name": "[parameters('storag
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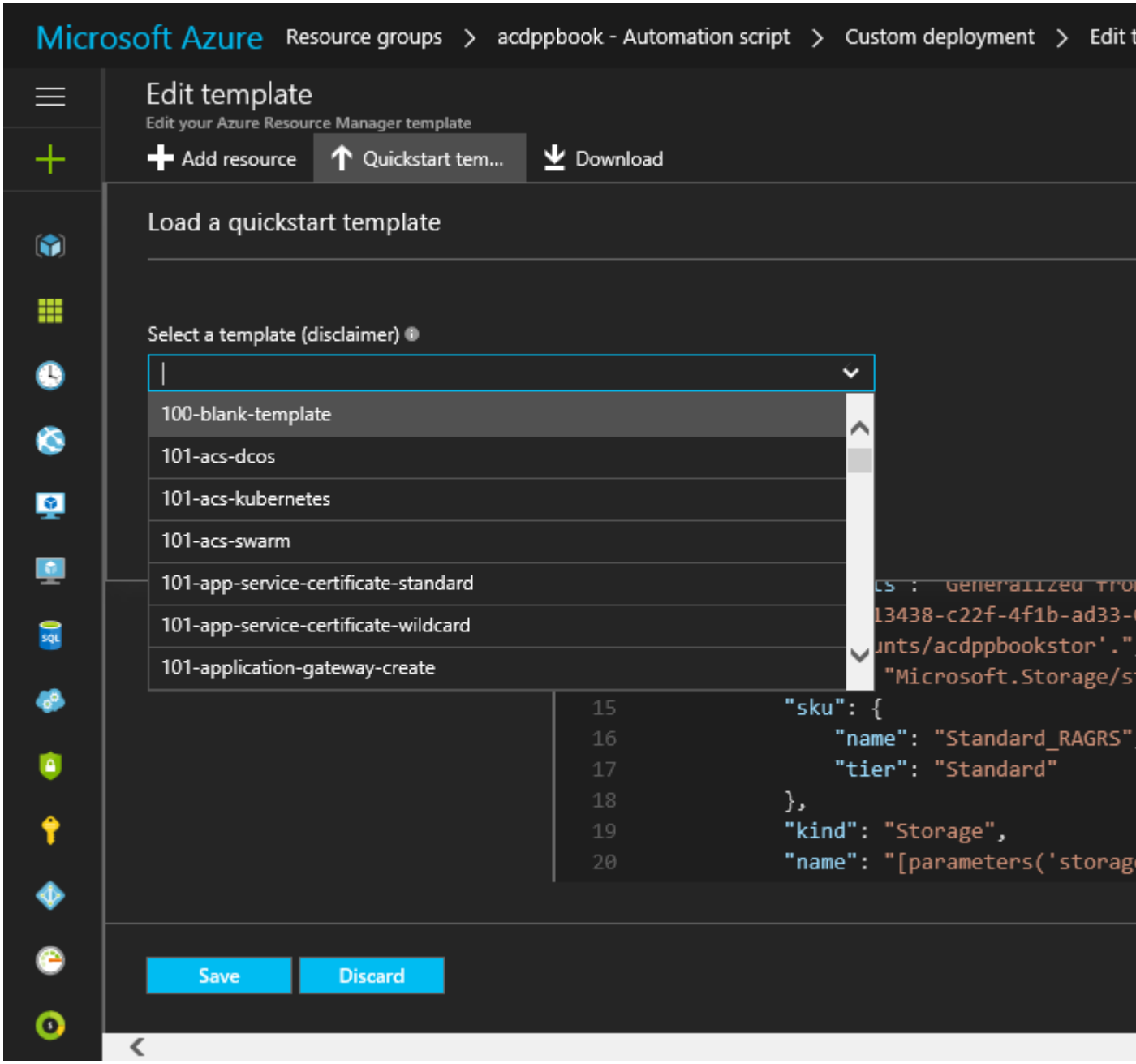
Discard


Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Load a quickstart template
Select a template (disclaimer)
100-blank-template
101-acs-dcos
101-acs-kubernetes
101-acs-swarm
101-app-service-certificate-standard
101-app-service-certificate-wildcard
101-application-gateway-create
"sku": {
"name": "Standard_RAGRS"
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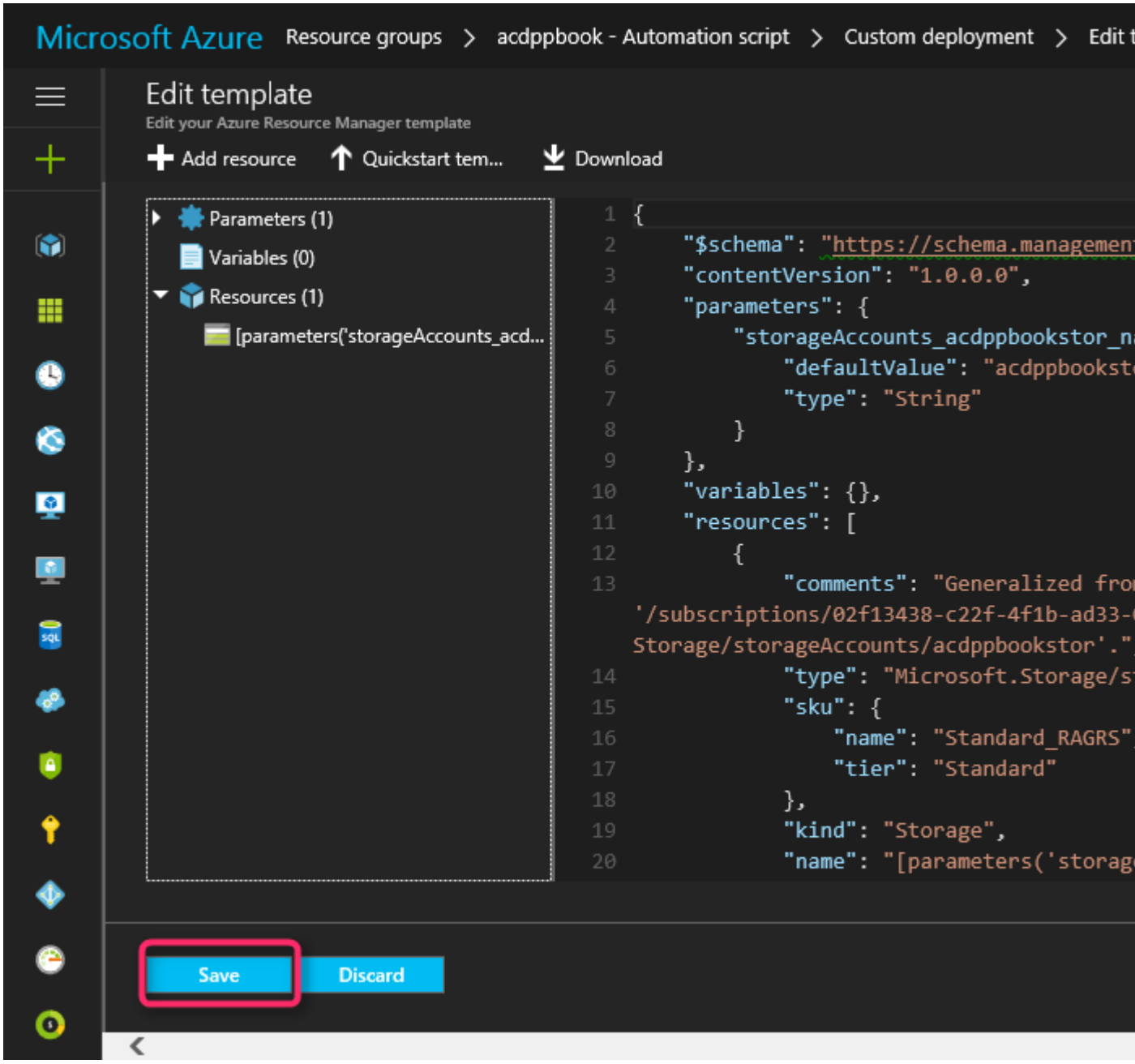
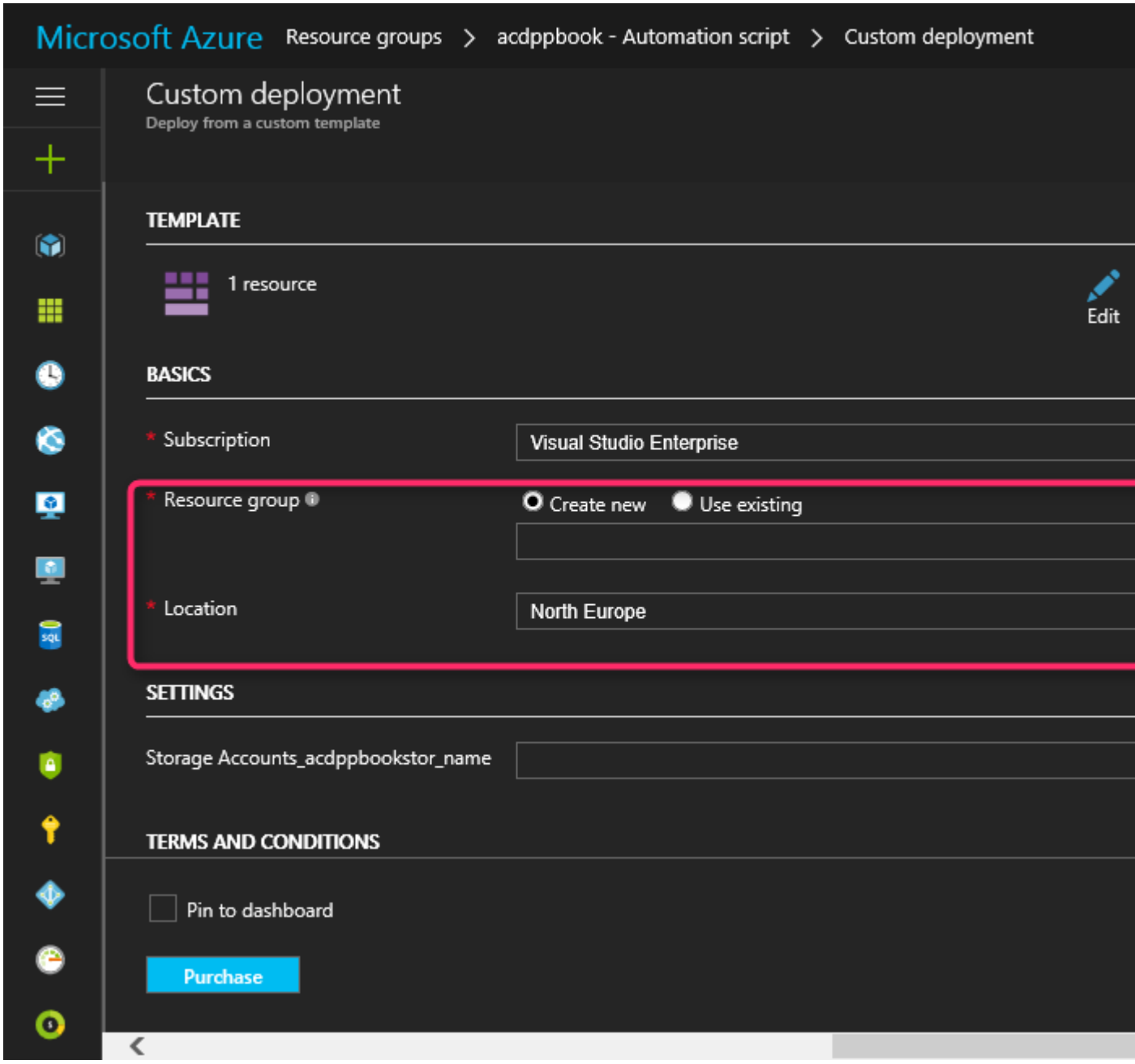
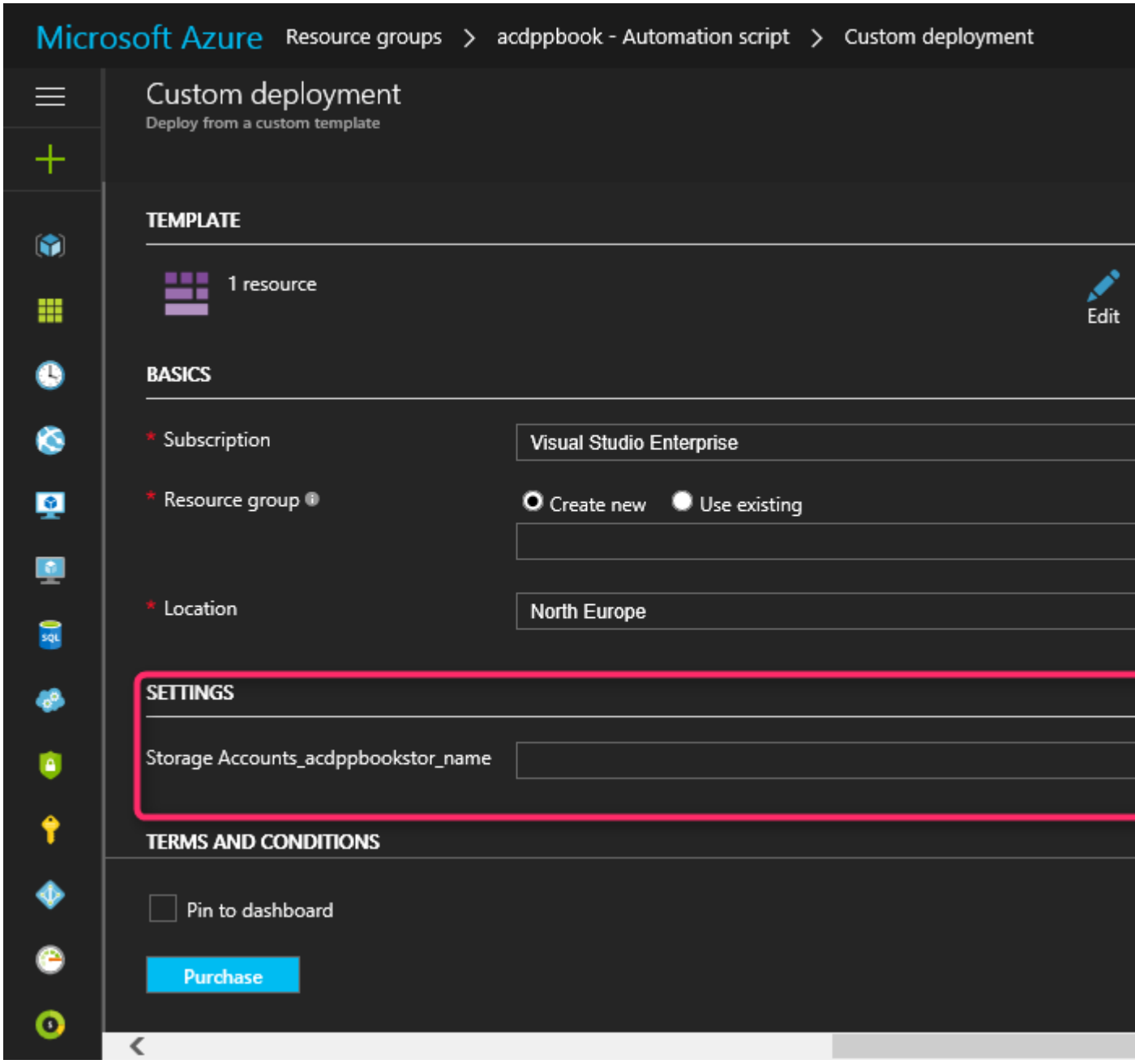
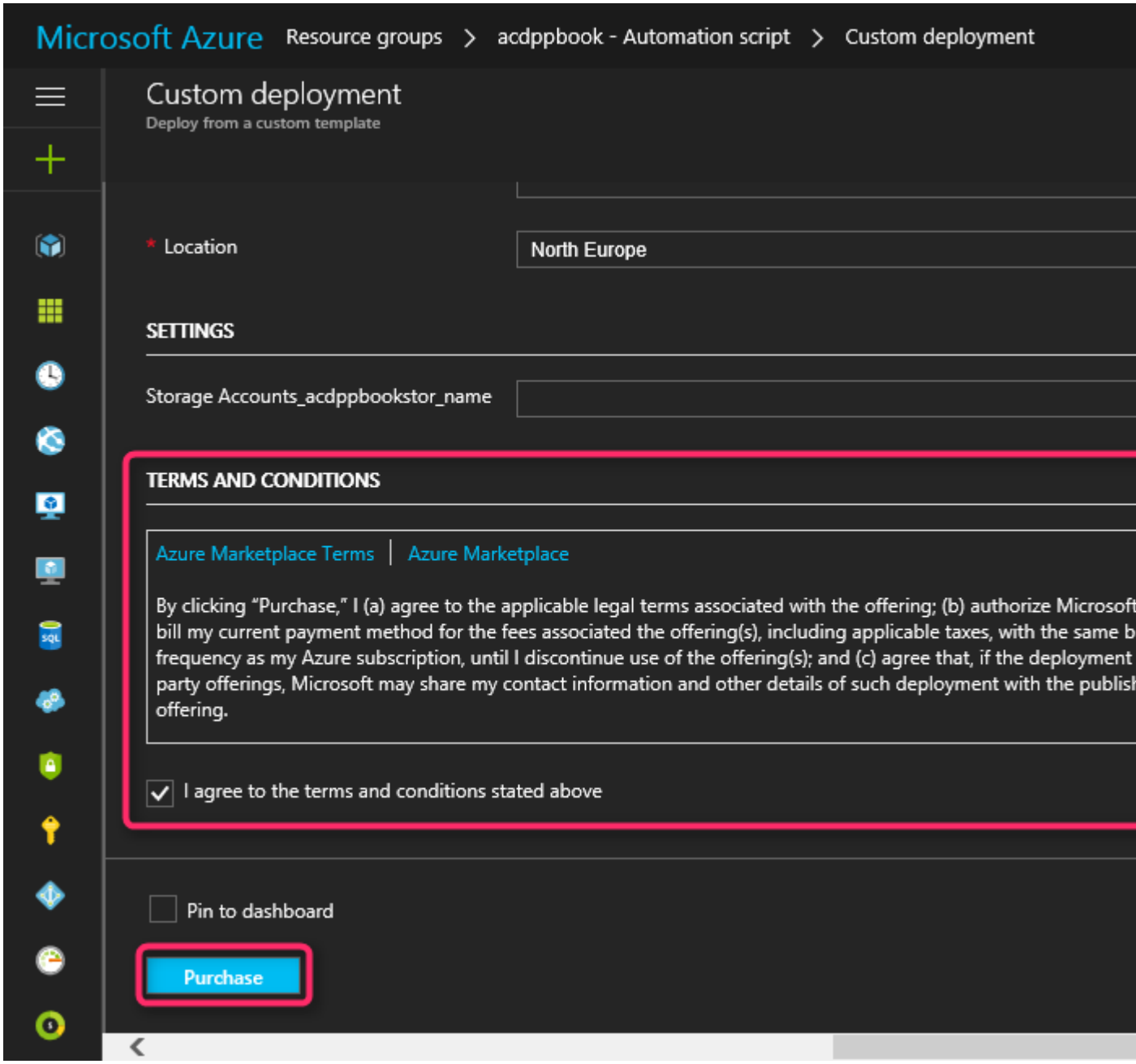
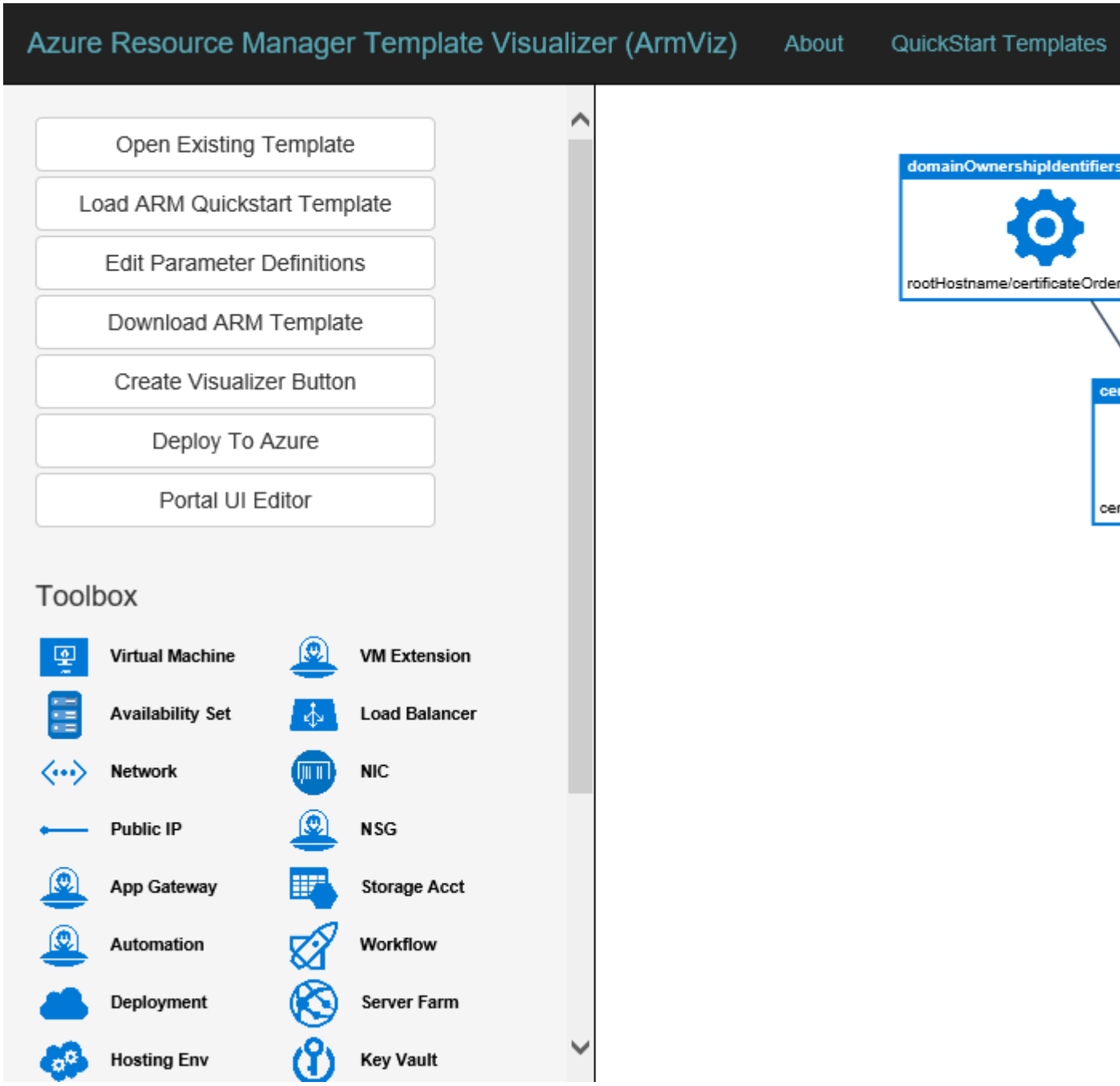
"kind": "Storage",
"name": "[parameters('storag
Save
Discard

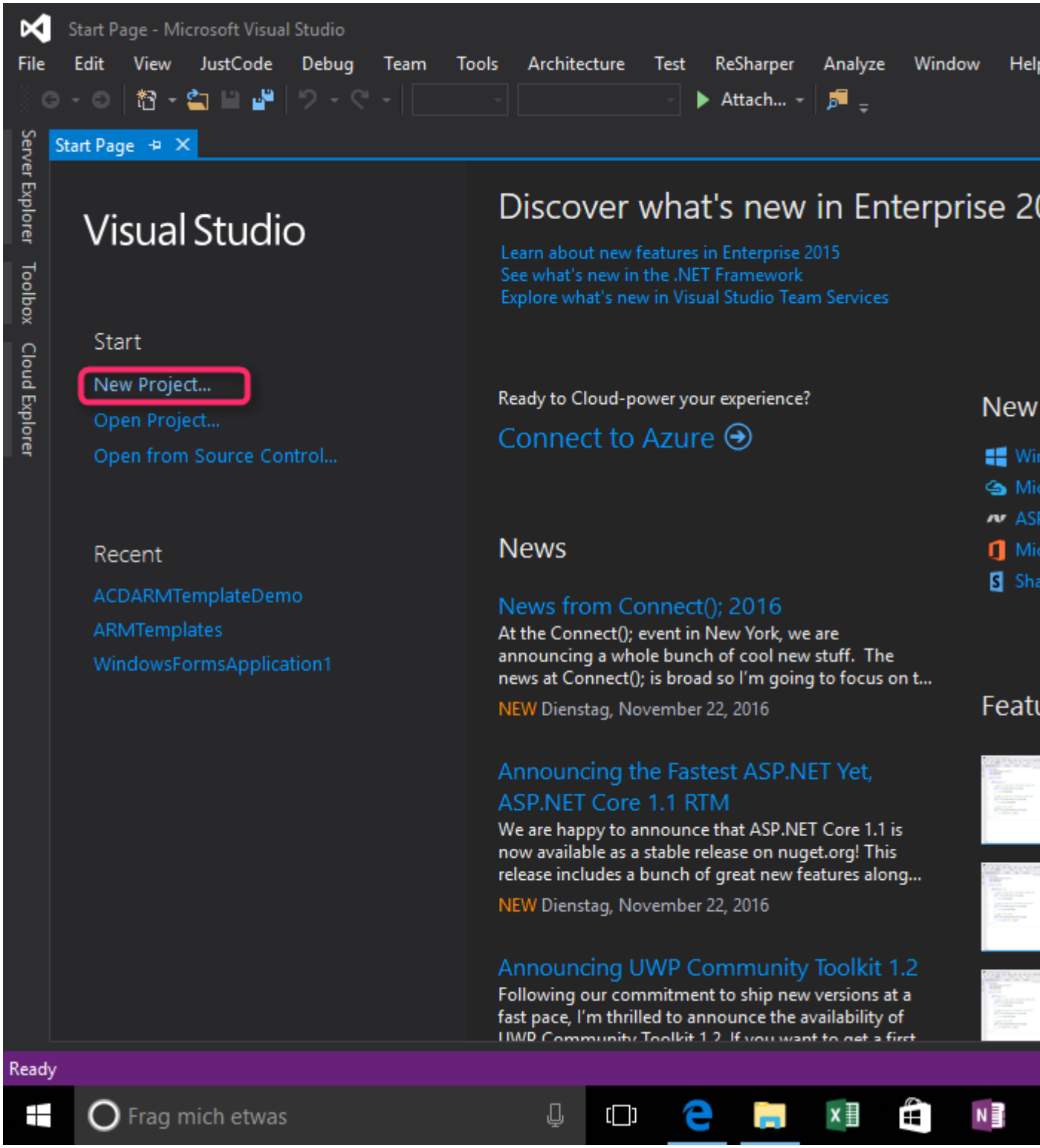

Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Edit template
Edit your Azure Resource Manager template
Add resource
Quickstart tem...
Download
Parameters (1)
Variables (0)
Resources (1)
[parameters('storageAccounts_acd...
{
"$schema": "https://schema.managemen
"contentVersion": "1.0.0.0",
"parameters": {
"storageAccounts_acdppbookstor_n
"defaultValue": "acdppbookst
"type": "String"
},
"variables": {},
"resources": [
{
"comments": "Generalized fro
'/subscriptions/02f13438-c22f-4f1b-ad33-
Storage/storageAccounts/acdppbookstor'."
"type": "Microsoft.Storage/s
"sku": {
"name": "Standard_RAGRS"
"tier": "Standard"
},
"kind": "Storage",
"name": "[parameters('storag
Save
Discard

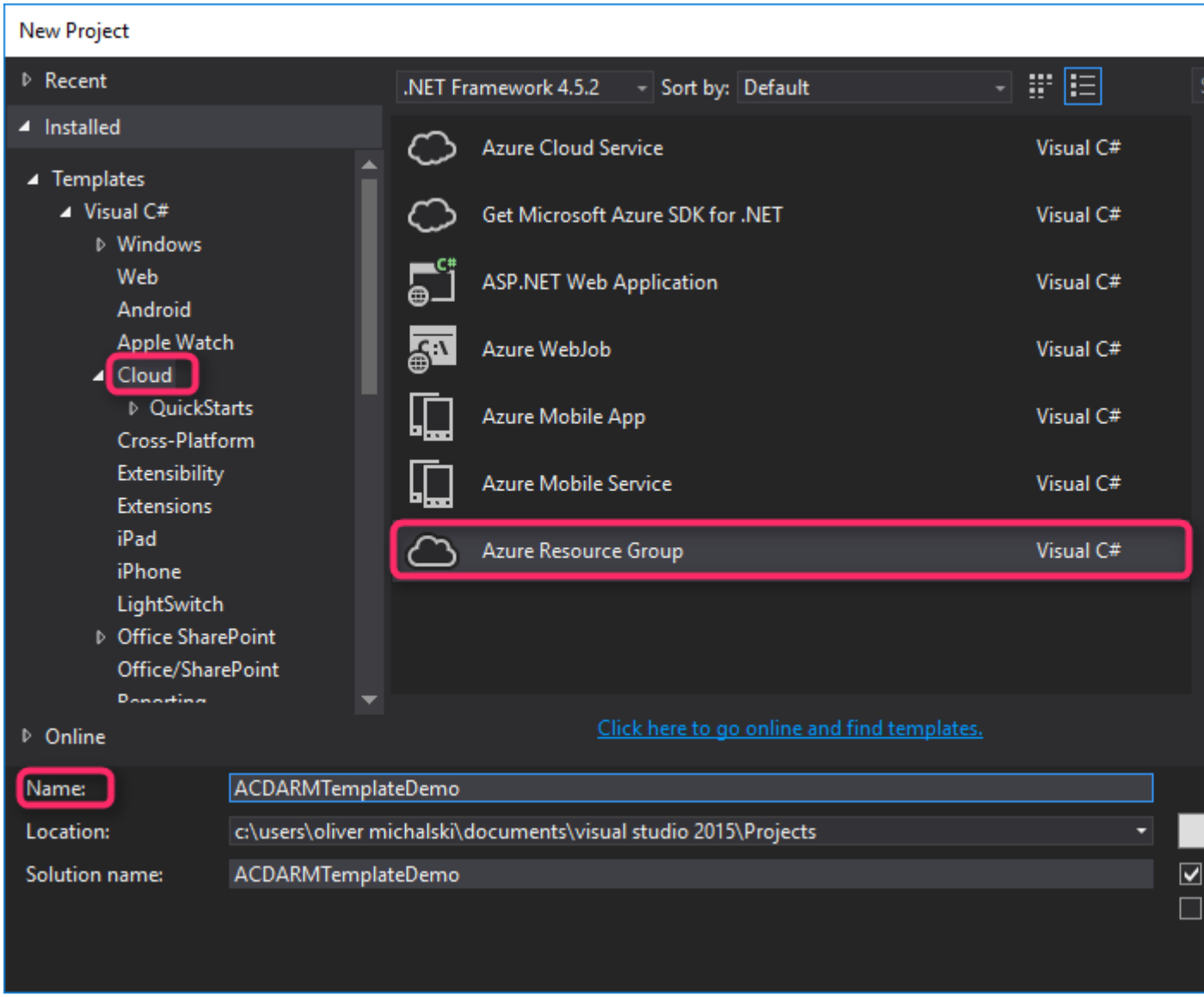

Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Custom deployment
Deploy from a custom template
TEMPLATE
1 resource
Edit
BASICS
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
* Location
North Europe
SETTINGS
Storage Accounts_acdppbookstor_name
TERMS AND CONDITIONS
Pin to dashboard
Purchase

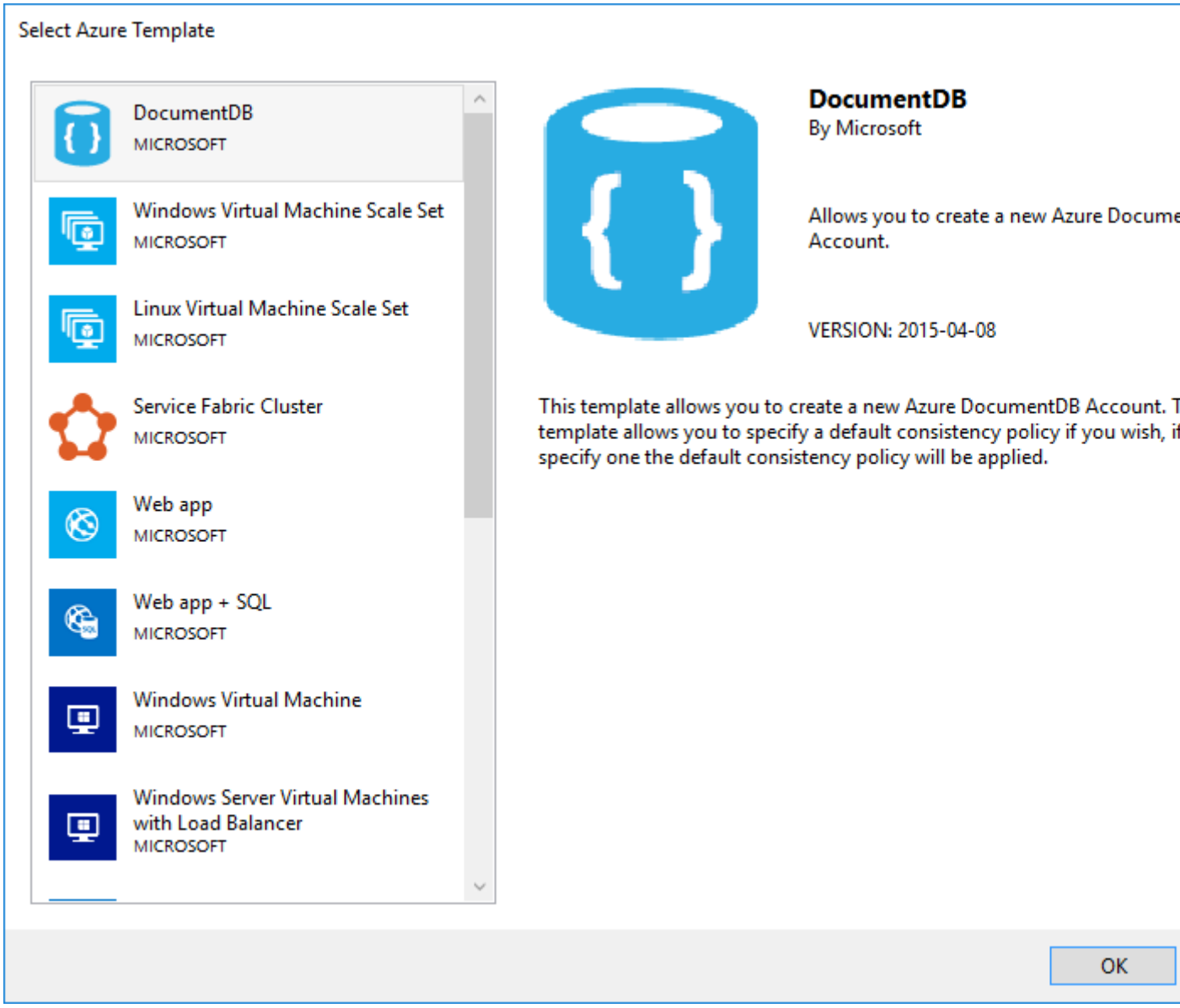

Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Custom deployment
Deploy from a custom template
TEMPLATE
1 resource
Edit
BASICS
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
* Location
North Europe
SETTINGS
Storage Accounts_acdppbookstor_name
TERMS AND CONDITIONS
Pin to dashboard
Purchase

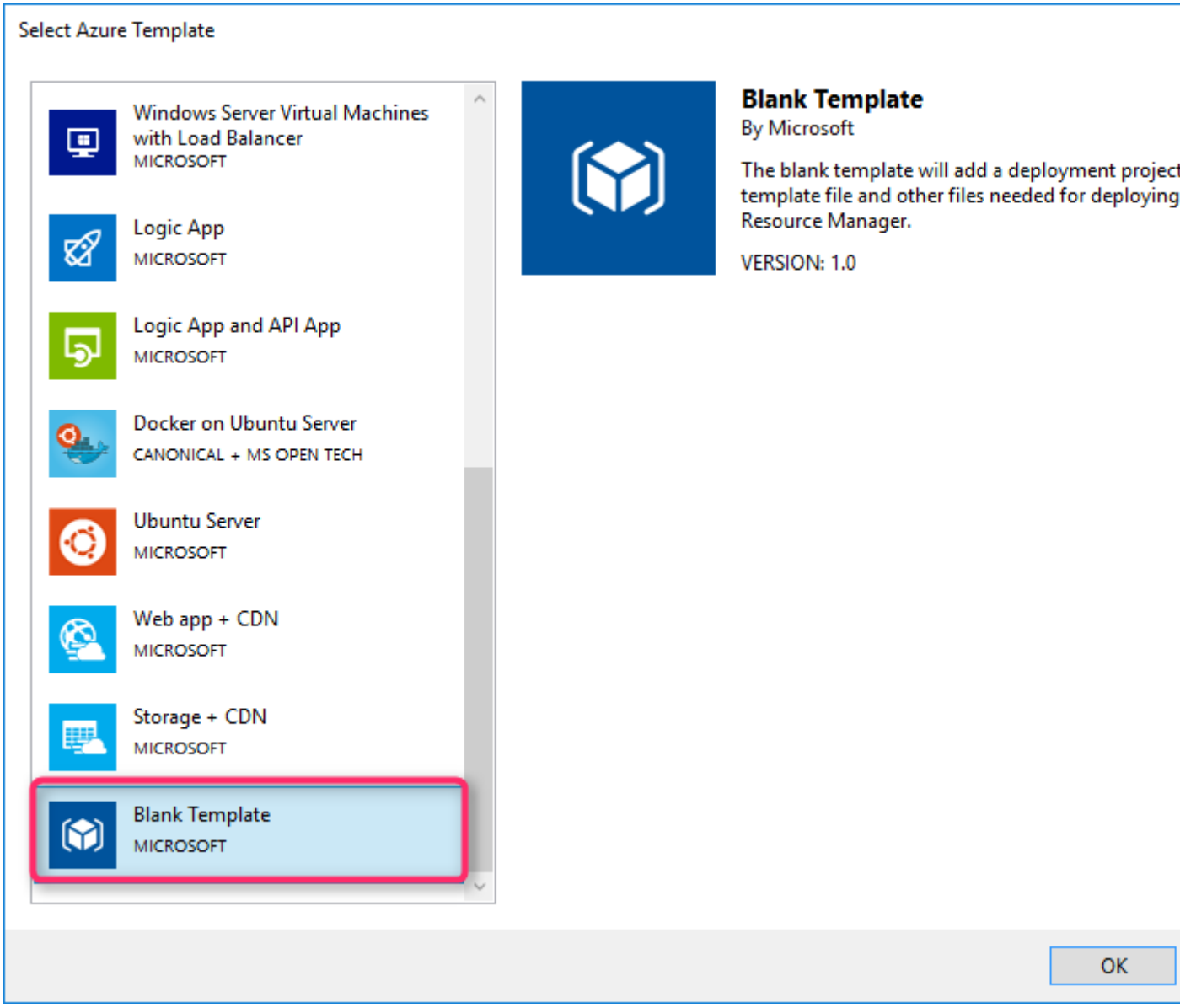

Microsoft Azure
Resource groups
acdppbook - Automation script
Custom deployment
Custom deployment
Deploy from a custom template
* Location
North Europe
SETTINGS
Storage Accounts_acdppbookstor_name
TERMS AND CONDITIONS
Azure Marketplace Terms | Azure Marketplace
By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft
bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same b
frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment
party offerings, Microsoft may share my contact information and other details of such deployment with the publish
offering.
I agree to the terms and conditions stated above
Pin to dashboard
Purchase

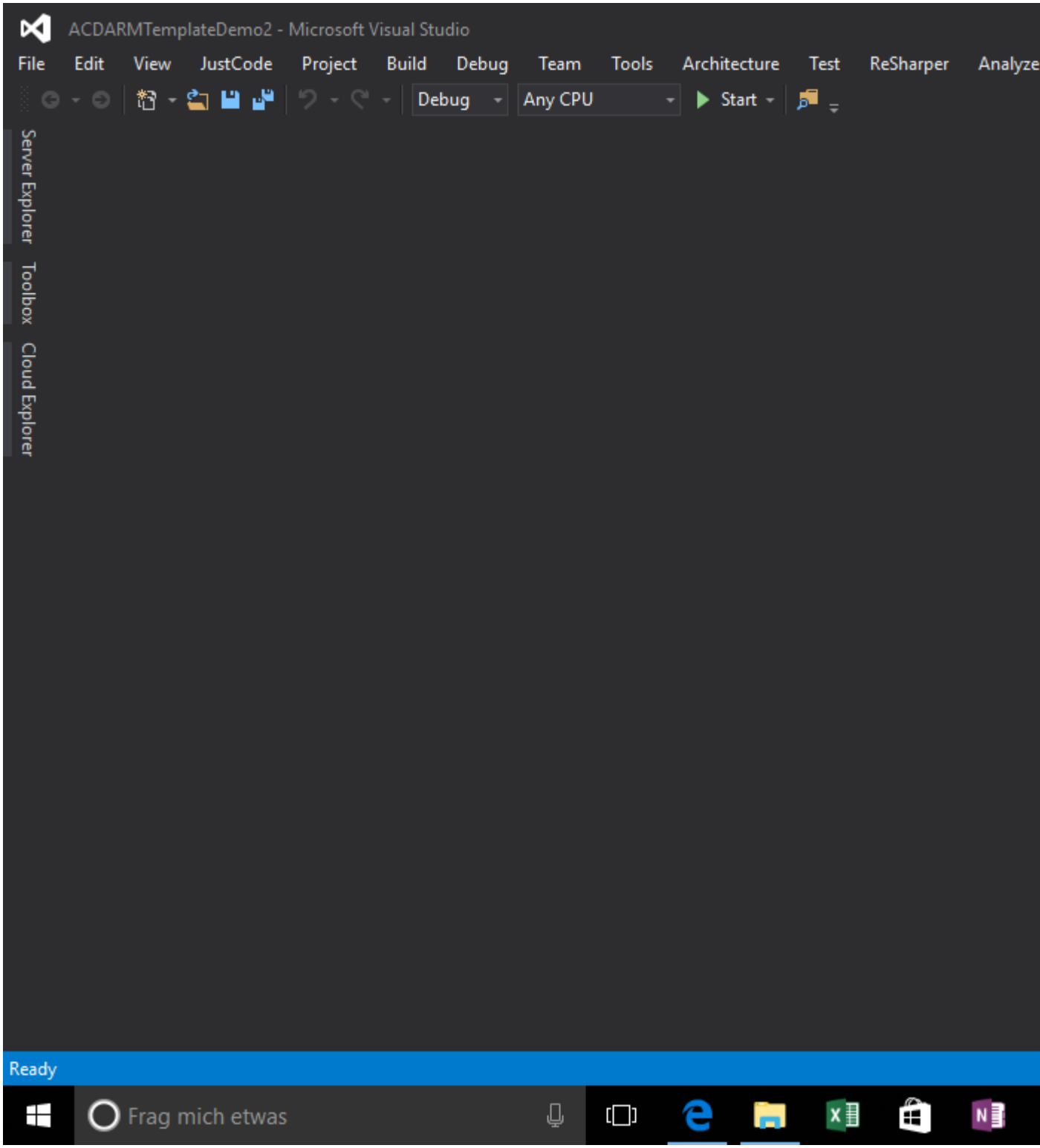

Azure Resource Manager Template Visualizer (ArmViz)
About
QuickStart Templates
Open Existing Template
Load ARM Quickstart Template
Edit Parameter Definitions
Download ARM Template
Create Visualizer Button
Deploy To Azure
Portal UI Editor
Toolbox
Virtual Machine
VM Extension
Availability Set
Load Balancer
Network
NIC
Public IP
NSG
App Gateway
Storage Acct
Automation
Workflow
Deployment
Server Farm
Hosting Env
Key Vault
domainOwnershipIdentifiers
rootHostname/certificateOrder

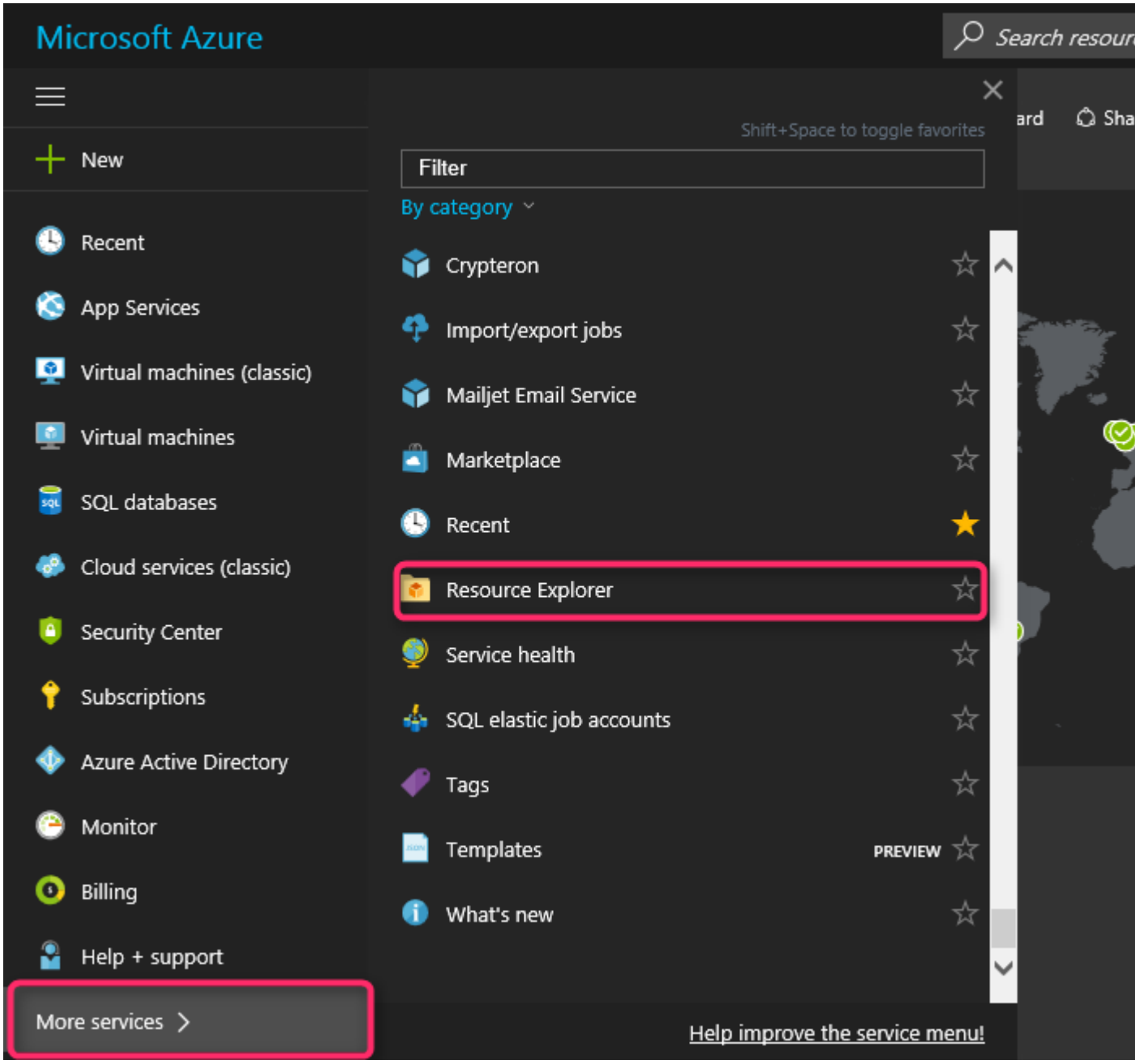

Start Page - Microsoft Visual Studio
File Edit View JustCode Debug Team Tools Architecture Test ReSharper Analyze Window Help
Attach...
Server Explorer
Toolbox
Cloud Explorer
Start Page
Visual Studio
Start
New Project...
Open Project...
Open from Source Control...
Recent
ACDARMTemplateDemo
ARMTemplates
WindowsFormsApplication1
Discover what's new in Enterprise 20
Learn about new features in Enterprise 2015
See what's new in the .NET Framework
Explore what's new in Visual Studio Team Services
Ready to Cloud-power your experience?
Connect to Azure
News
News from Connect(); 2016
At the Connect(); event in New York, we are announcing a whole bunch of cool new stuff. The news at Connect(); is broad so I'm going to focus on t...
NEW Dienstag, November 22, 2016
Announcing the Fastest ASP.NET Yet, ASP.NET Core 1.1 RTM
We are happy to announce that ASP.NET Core 1.1 is now available as a stable release on nuget.org! This release includes a bunch of great new features along...
NEW Dienstag, November 22, 2016
Announcing UWP Community Toolkit 1.2
Following our commitment to ship new versions at a fast pace, I'm thrilled to announce the availability of
New
Featu
Ready
Frag mich etwas

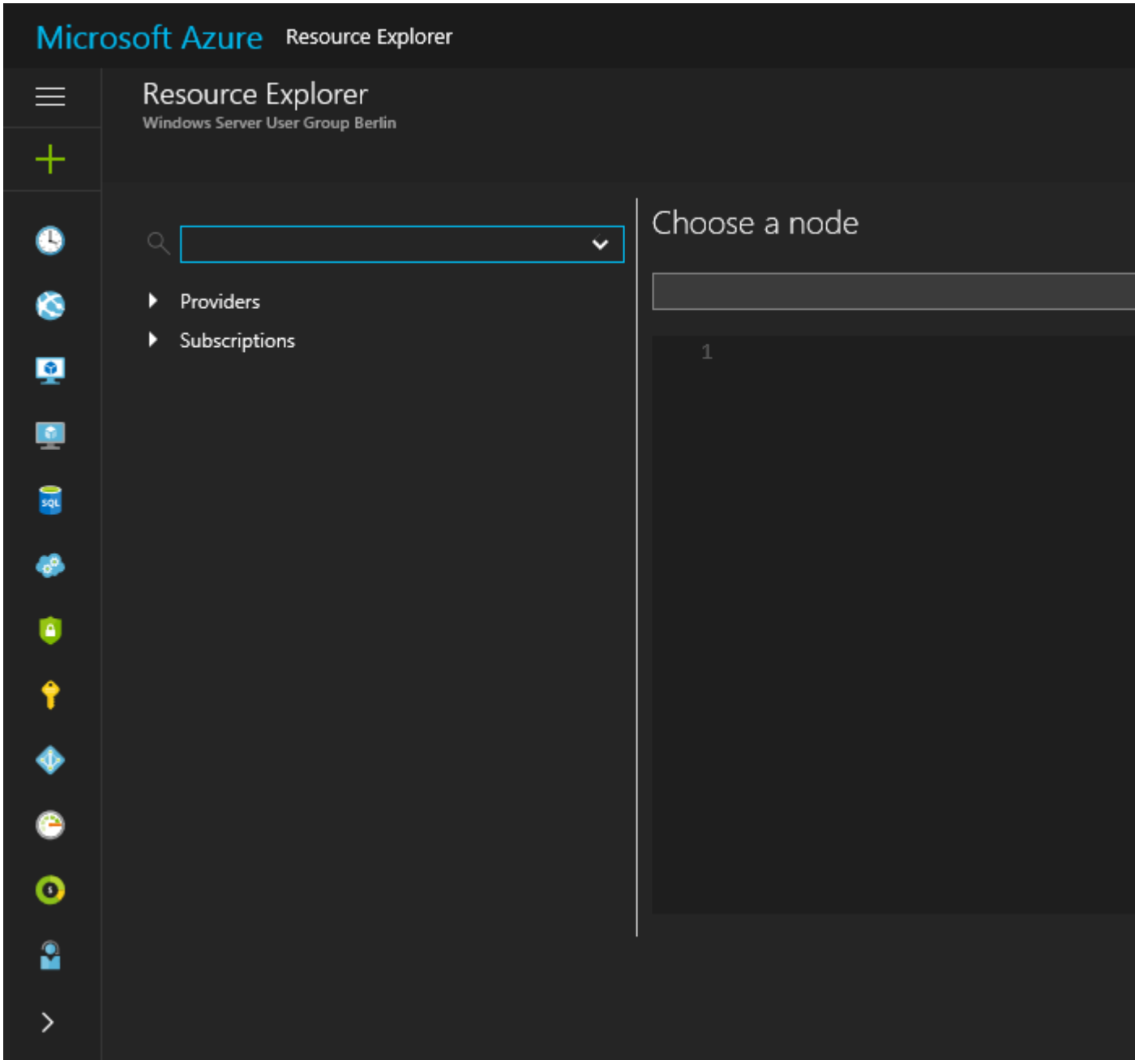

New Project
Recent
Installed
Templates
Visual C#
Windows
Web
Android
Apple Watch
Cloud
QuickStarts
Cross-Platform
Extensibility
Extensions
iPad
iPhone
LightSwitch
Office SharePoint
Office/SharePoint
Online
.NET Framework 4.5.2
Sort by:
Default
Azure Cloud Service
Visual C#
Get Microsoft Azure SDK for .NET
Visual C#
ASP.NET Web Application
Visual C#
Azure WebJob
Visual C#
Azure Mobile App
Visual C#
Azure Mobile Service
Visual C#
Azure Resource Group
Visual C#
Click here to go online and find templates.
Name:
ACDARMTemplateDemo
Location:
c:\users\oliver michalski\documents\visual studio 2015\Projects
Solution name:
ACDARMTemplateDemo

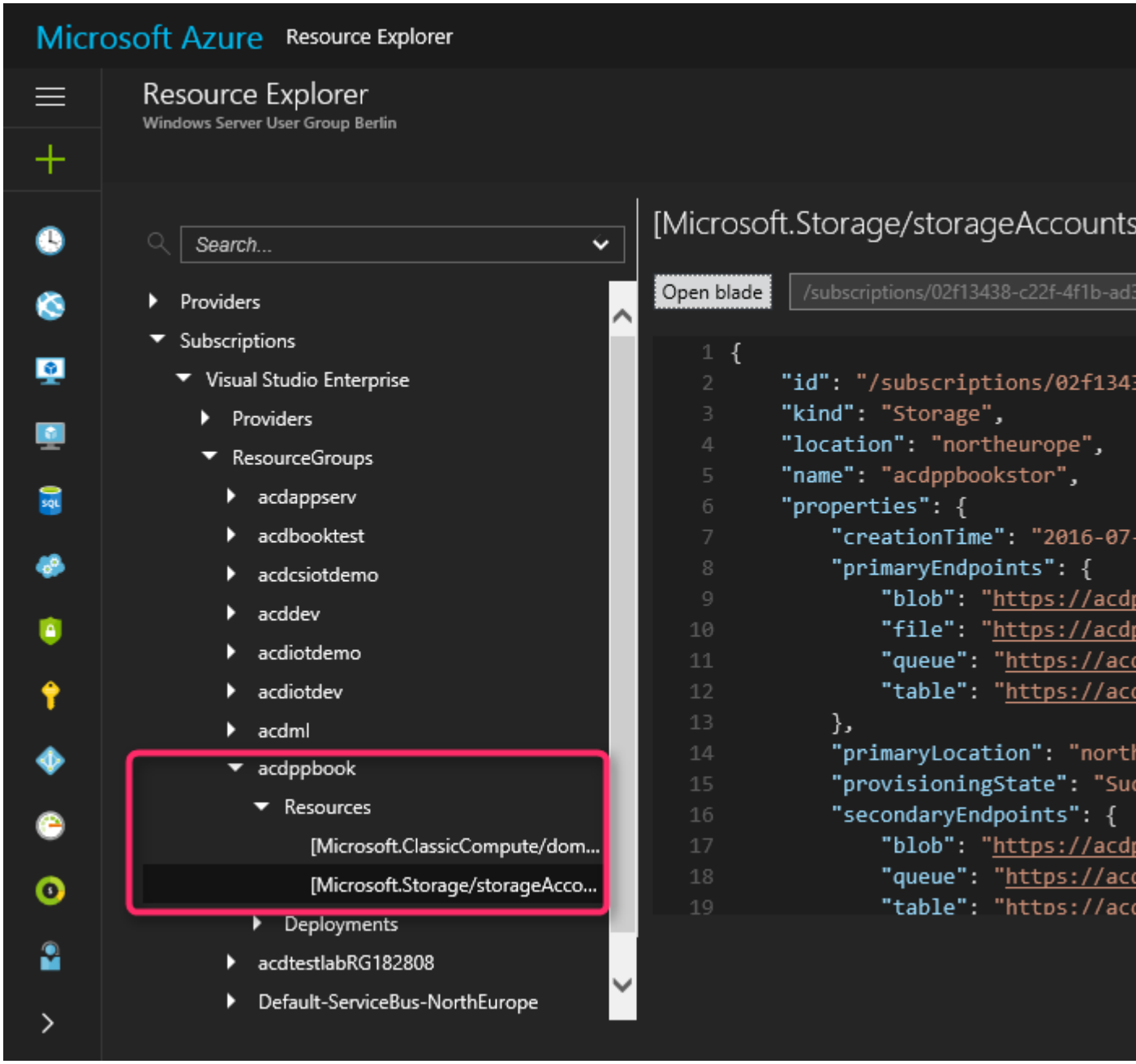

Select Azure Template
DocumentDB
MICROSOFT
Windows Virtual Machine Scale Set
MICROSOFT
Linux Virtual Machine Scale Set
MICROSOFT
Service Fabric Cluster
MICROSOFT
Web app
MICROSOFT
Web app + SQL
MICROSOFT
Windows Virtual Machine
MICROSOFT
Windows Server Virtual Machines with Load Balancer
MICROSOFT
DocumentDB
By Microsoft
Allows you to create a new Azure Docume
Account.
VERSION: 2015-04-08
This template allows you to create a new Azure DocumentDB Account. T
template allows you to specify a default consistency policy if you wish, if
specify one the default consistency policy will be applied.
OK


Select Azure Template
Windows Server Virtual Machines with Load Balancer
MICROSOFT
Logic App
MICROSOFT
Logic App and API App
MICROSOFT
Docker on Ubuntu Server
CANONICAL + MS OPEN TECH
Ubuntu Server
MICROSOFT
Web app + CDN
MICROSOFT
Storage + CDN
MICROSOFT
Blank Template
MICROSOFT
Blank Template
By Microsoft
The blank template will add a deployment project
template file and other files needed for deploying
Resource Manager.
VERSION: 1.0
OK


ACDARMTemplateDemo2 - Microsoft Visual Studio
File
Edit
View
JustCode
Project
Build
Debug
Team
Tools
Architecture
Test
ReSharper
Analyze
Debug
Any CPU
Start
Server Explorer
Toolbox
Cloud Explorer
Ready
Frag mich etwas


Microsoft Azure
Search resour
Shift+Space to toggle favorites
New
Filter
By category
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
More services
Crypteron
Import/export jobs
Mailjet Email Service
Marketplace
Recent
Resource Explorer
Service health
SQL elastic job accounts
Tags
Templates
PREVIEW
What's new
Help improve the service menu!


Microsoft Azure
Resource Explorer
Resource Explorer
Windows Server User Group Berlin
Providers
Subscriptions
Choose a node
1


Microsoft Azure
Resource Explorer
Resource Explorer
Windows Server User Group Berlin
Search...
Providers
Subscriptions
Visual Studio Enterprise
Providers
ResourceGroups
acdappserv
acdbooktest
acdcsiotdemo
acddev
acdiotdemo
acdiotdev
acdml
acdppbook
Resources
[Microsoft.ClassicCompute/dom...
[Microsoft.Storage/storageAcco...
Deployments
acdtestlabRG182808
Default-ServiceBus-NorthEurope
[Microsoft.Storage/storageAccounts
Open blade
/subscriptions/02f13438-c22f-4f1b-ad
{
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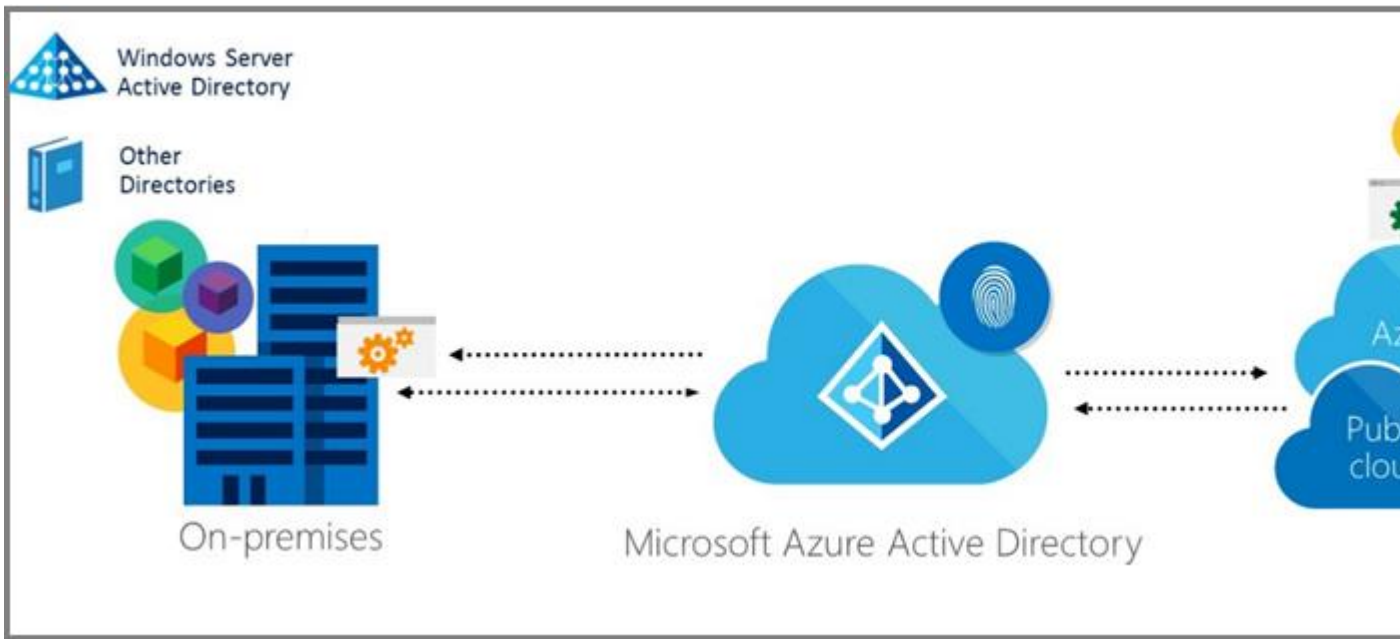
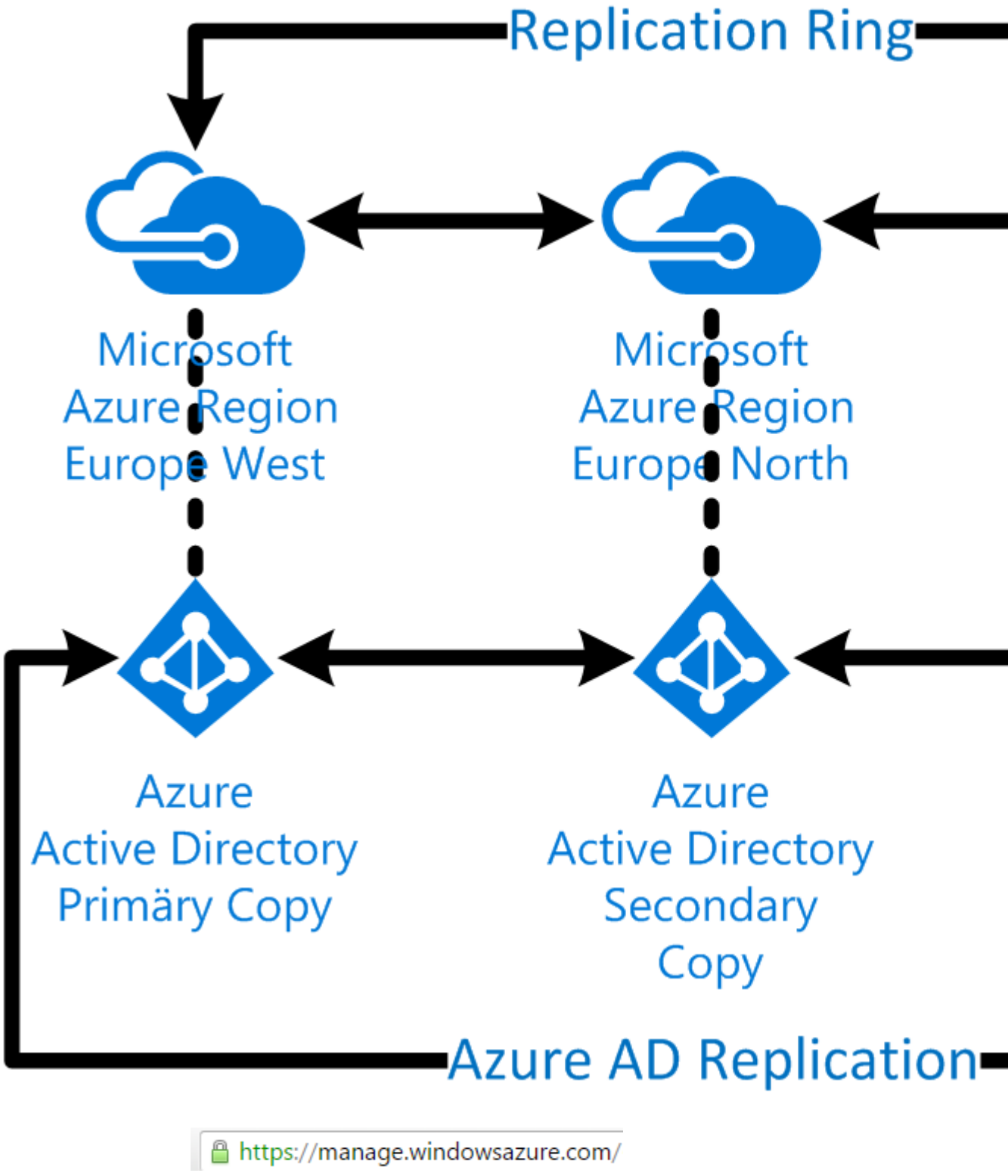
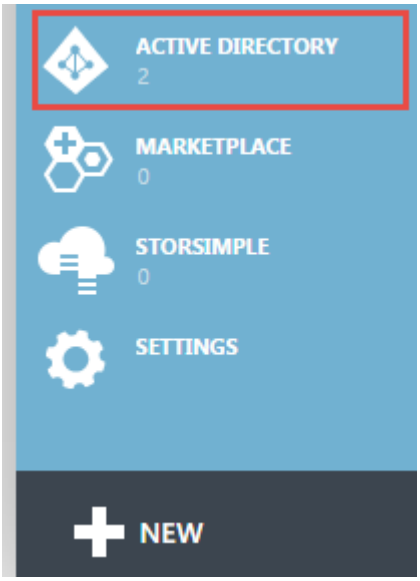
"kind": "Storage",
"location": "northeurope",
"name": "acdppbookstor",
"properties": {
"creationTime": "2016-07
"primaryEndpoints": {
"blob": "https://acdp
"file": "https://acdp
"queue": "https://acc
"table": "https://acc
},
"primaryLocation": "north
"provisioningState": "Su
"secondaryEndpoints": {
"blob": "https://acdp
"queue": "https://acc
"table": "https://acc

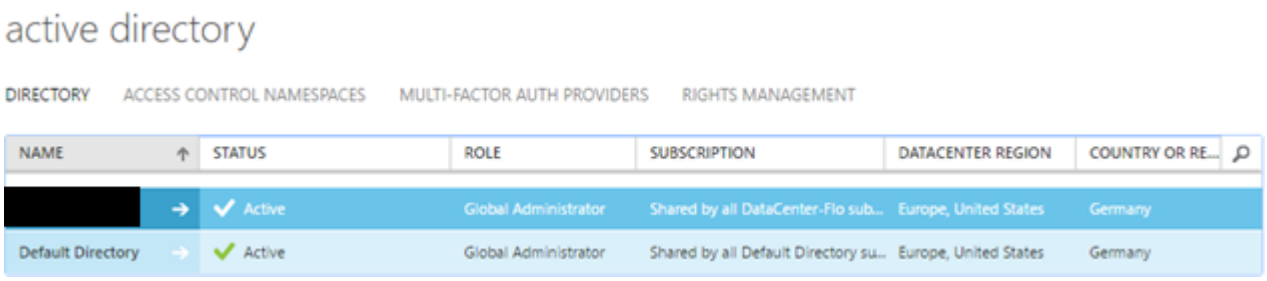
Chapter 3: Deploying and Synchronizing Azure Active Directory

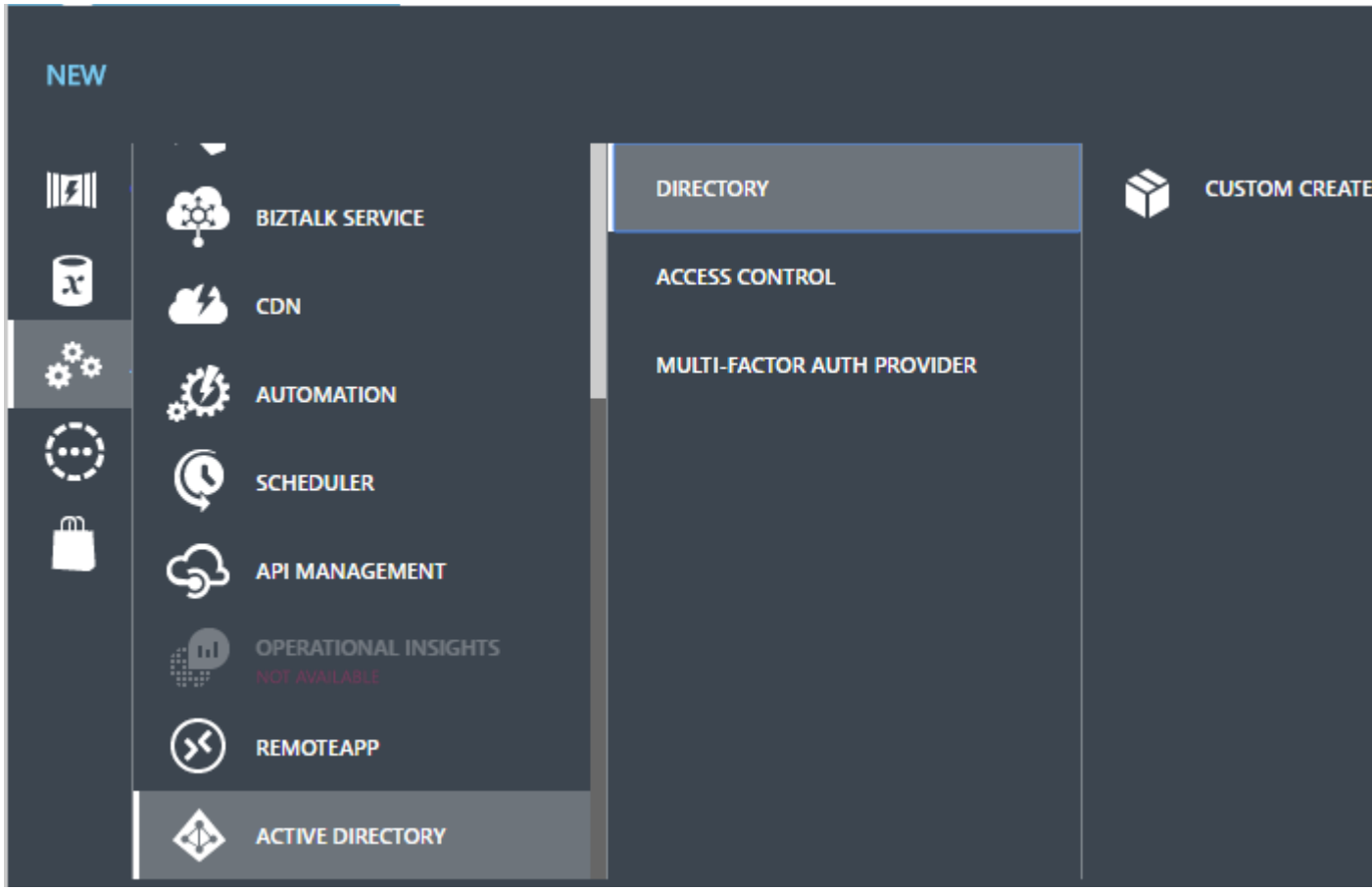


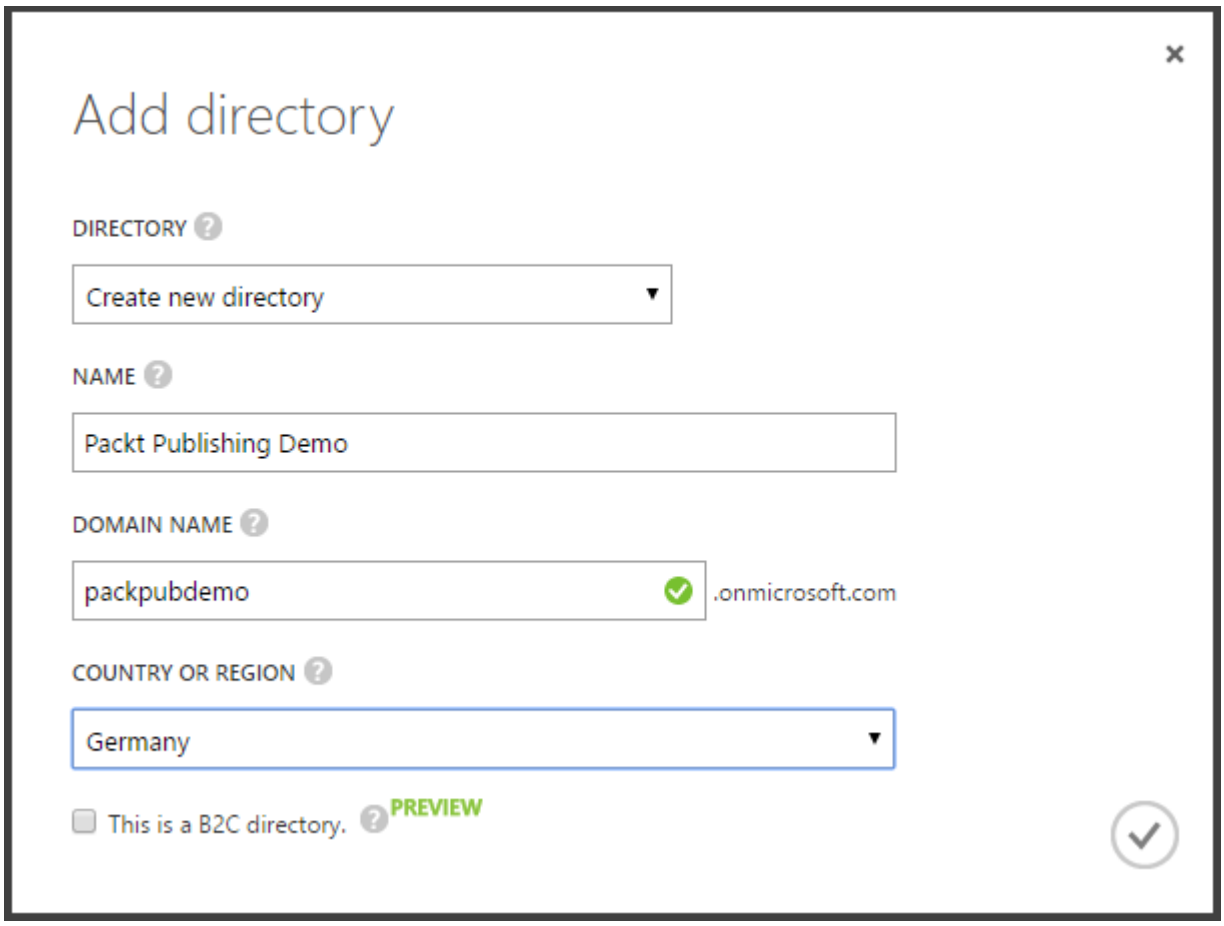

Replication Ring
Microsoft
Azure Region
Europe West
Microsoft
Azure Region
Europe North
Azure
Active Directory
Primäry Copy
Azure
Active Directory
Secondary
Copy
Azure AD Replication
https://manage.windowsazure.com/


ACTIVE DIRECTORY
2
MARKETPLACE
0
STORSIMPLE
0
SETTINGS
NEW

active directory
DIRECTORY
ACCESS CONTROL NAMESPACES
MULTI-FACTOR AUTH PROVIDERS
RIGHTS MA
NAME
STATUS
ROLE
SUBSCRIPTION
Standardverzeichnis
Active
Global Administrator
Shared by all Stand


active directory
DIRECTORY
ACCESS CONTROL NAMESPACES
MULTI-FACTOR AUTH PROVIDERS
RIGHTS MANAGEMENT
NAME
STATUS
ROLE
SUBSCRIPTION
DATACENTER REGION
COUNTRY OR RE...
Active
Global Administrator
Shared by all DataCenter-Flo sub...
Europe, United States
Germany
Default Directory
Active
Global Administrator
Shared by all Default Directory su...
Europe, United States
Germany

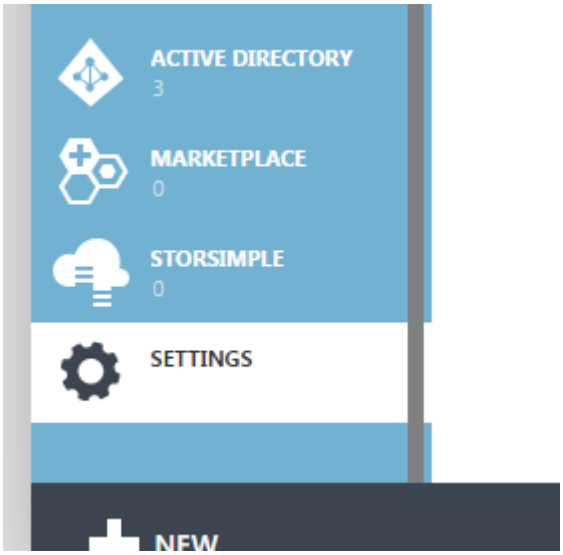

NEW
BIZTALK SERVICE
CDN
AUTOMATION
SCHEDULER
API MANAGEMENT
OPERATIONAL INSIGHTS
NOT AVAILABLE
REMOTEAPP
ACTIVE DIRECTORY
DIRECTORY
ACCESS CONTROL
MULTI-FACTOR AUTH PROVIDER
CUSTOM CREATE

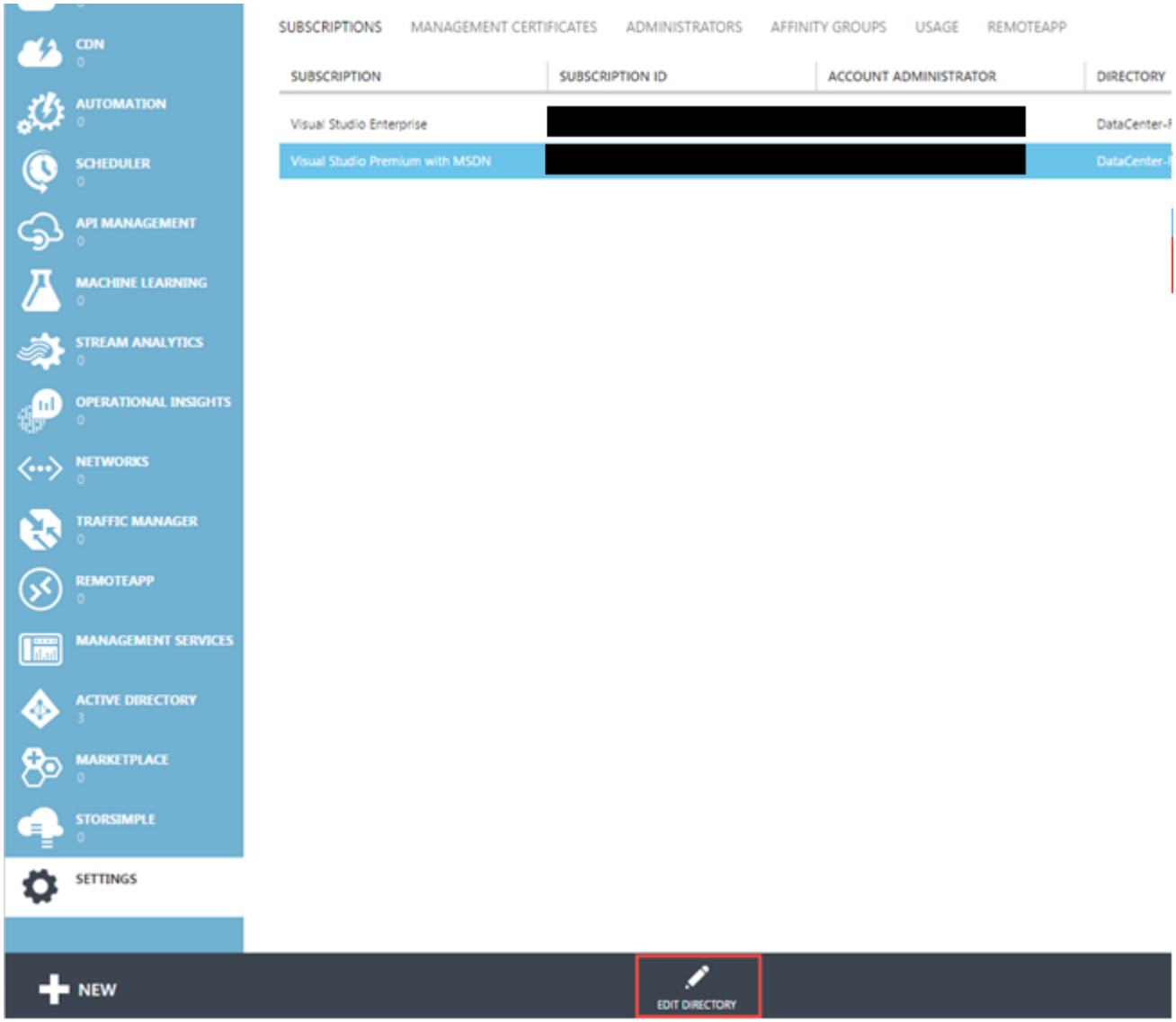

Add directory
DIRECTORY
Create new directory
NAME
Packt Publishing Demo
DOMAIN NAME
packpubdemo
.onmicrosoft.com
COUNTRY OR REGION
Germany
This is a B2C directory.
PREVIEW

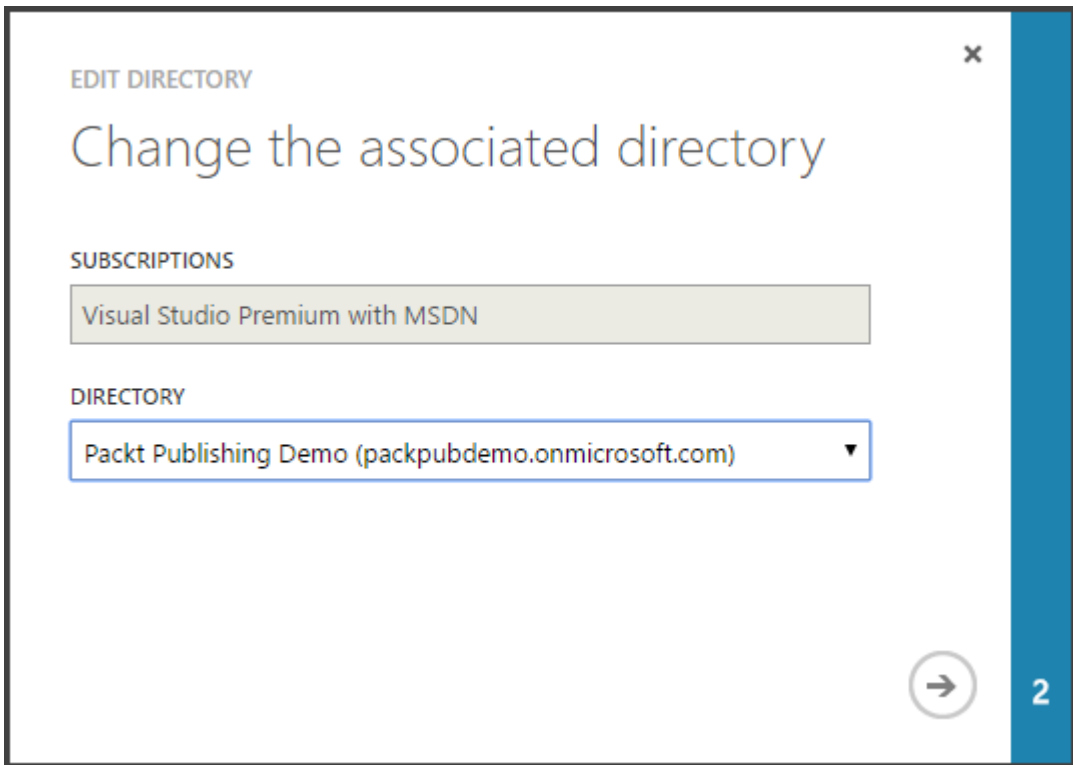
active directory

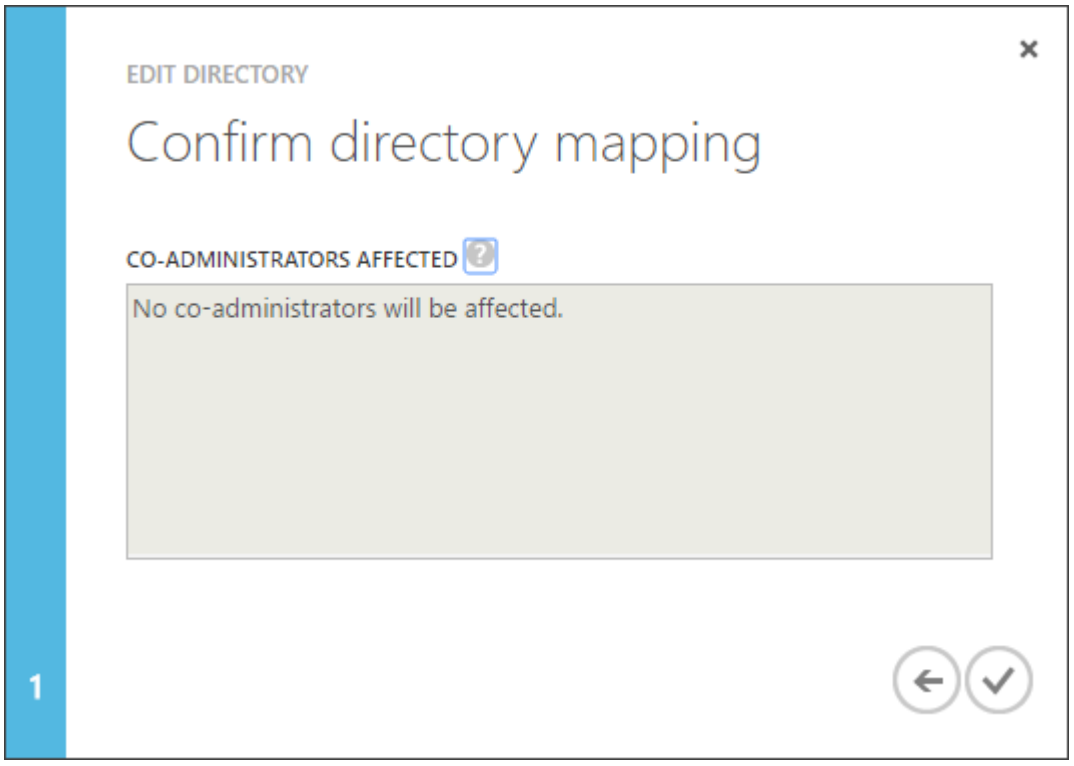
DIRECTORY ACCESS CONTROL NAMESPACES MULTI-FACTOR AUTH PROVIDERS RIGHTS MANAGEMENT

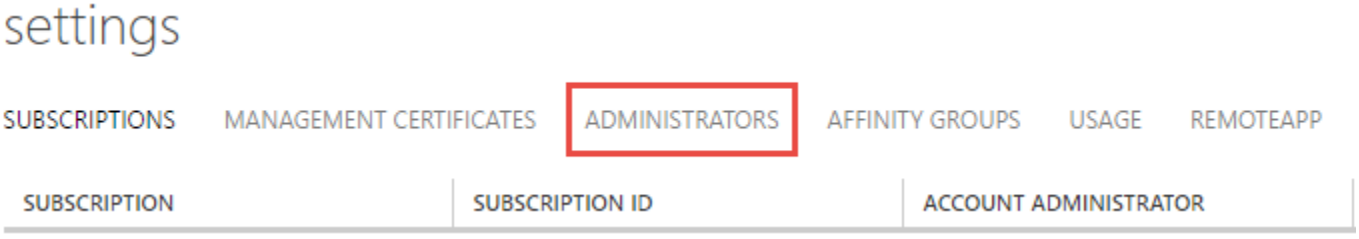
NAME	STATUS	ROLE	SUBSCRIPTION	DATACENTER REGION	COUNTRY OR RE...
[redacted]	Active	Global Administrator	Shared by all DataCenter-Flo sub...	Europe, United States	Germany
Default Directory	Active	Global Administrator	Shared by all Default Directory su...	Europe, United States	Germany
Packt Publishing Demo	Active	Global Administrator	Shared by all Packt Publishing De...	Europe, United States	Germany

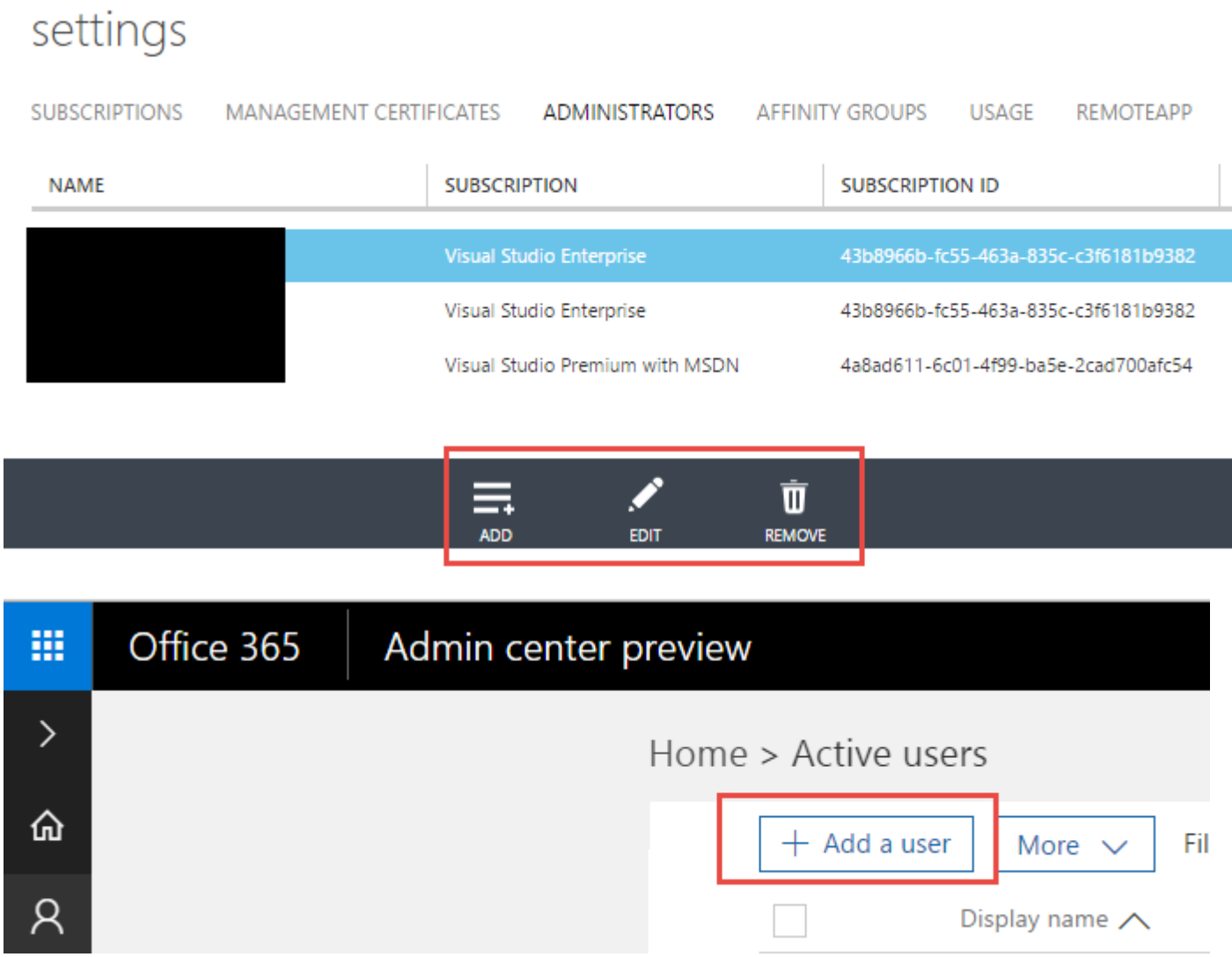



CDN
0
AUTOMATION
0
SCHEDULER
0
API MANAGEMENT
0
MACHINE LEARNING
0
STREAM ANALYTICS
0
OPERATIONAL INSIGHTS
0
NETWORKS
0
TRAFFIC MANAGER
0
REMOTEAPP
0
MANAGEMENT SERVICES
ACTIVE DIRECTORY
3
MARKETPLACE
0
STORSIMPLE
0
SETTINGS
SUBSCRIPTIONS
MANAGEMENT CERTIFICATES
ADMINISTRATORS
AFFINITY GROUPS
USAGE
REMOTEAPP
SUBSCRIPTION
SUBSCRIPTION ID
ACCOUNT ADMINISTRATOR
DIRECTORY
Visual Studio Enterprise
Visual Studio Premium with MSDN
NEW
EDIT DIRECTORY

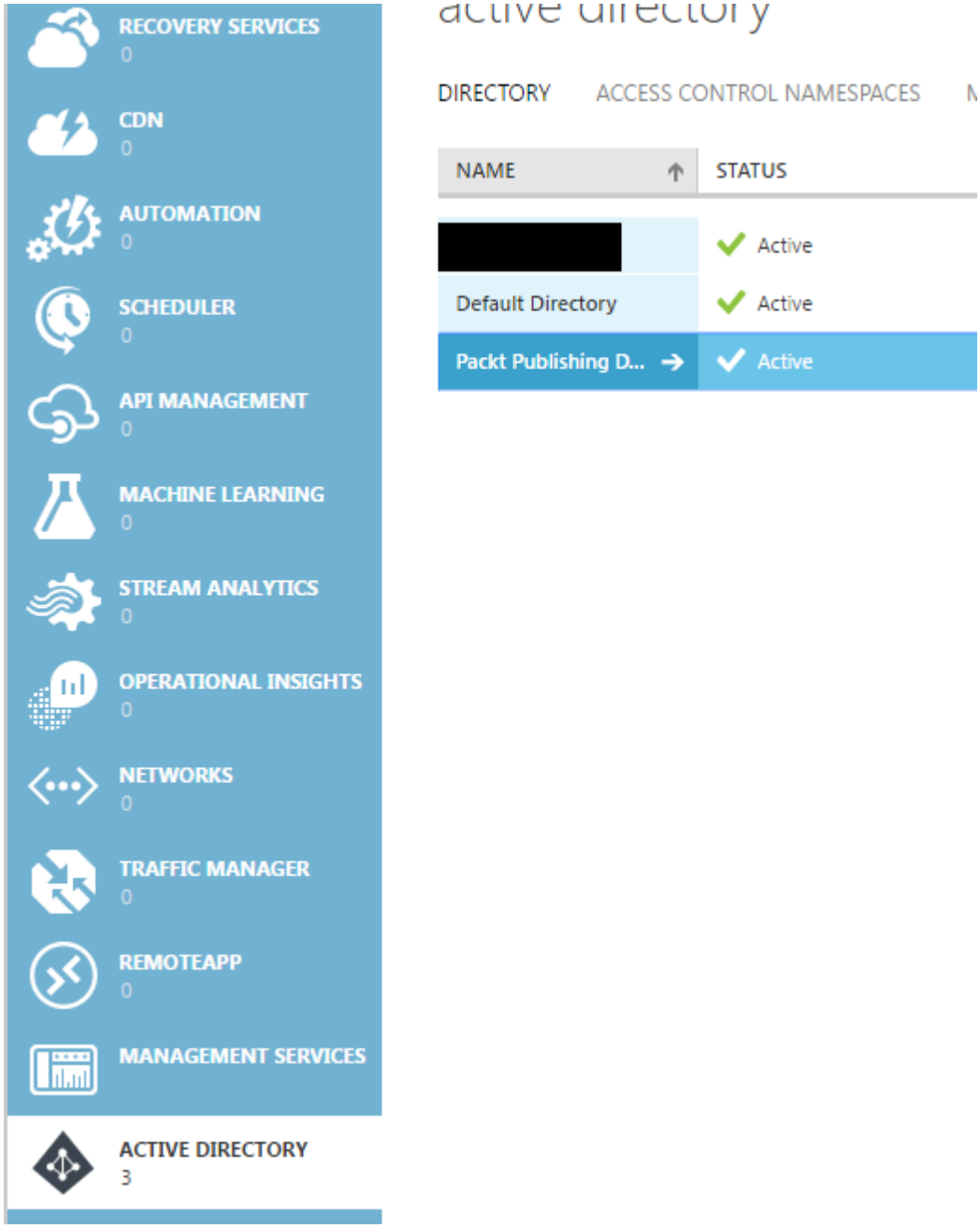

EDIT DIRECTORY
Change the associated directory
SUBSCRIPTIONS
Visual Studio Premium with MSDN
DIRECTORY
Packt Publishing Demo (packpubdemo.onmicrosoft.com)
2

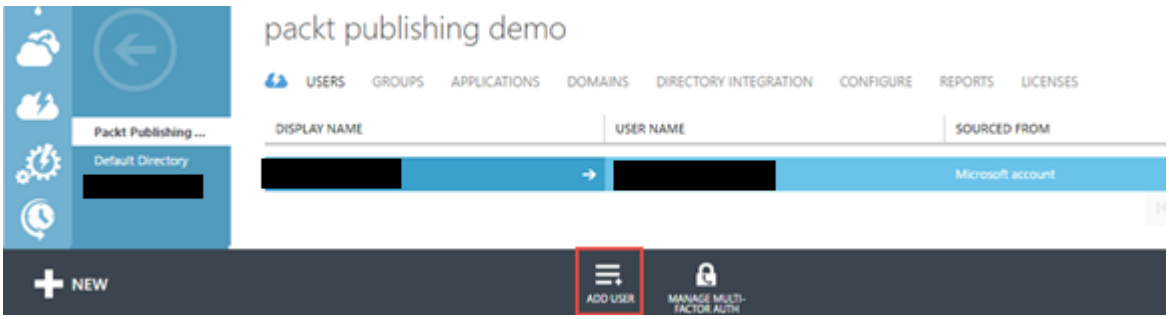

EDIT DIRECTORY
Confirm directory mapping
CO-ADMINISTRATORS AFFECTED
No co-administrators will be affected.
1


settings
SUBSCRIPTIONS
MANAGEMENT CERTIFICATES
ADMINISTRATORS
AFFINITY GROUPS
USAGE
REMOTEAPP
SUBSCRIPTION
SUBSCRIPTION ID
ACCOUNT ADMINISTRATOR

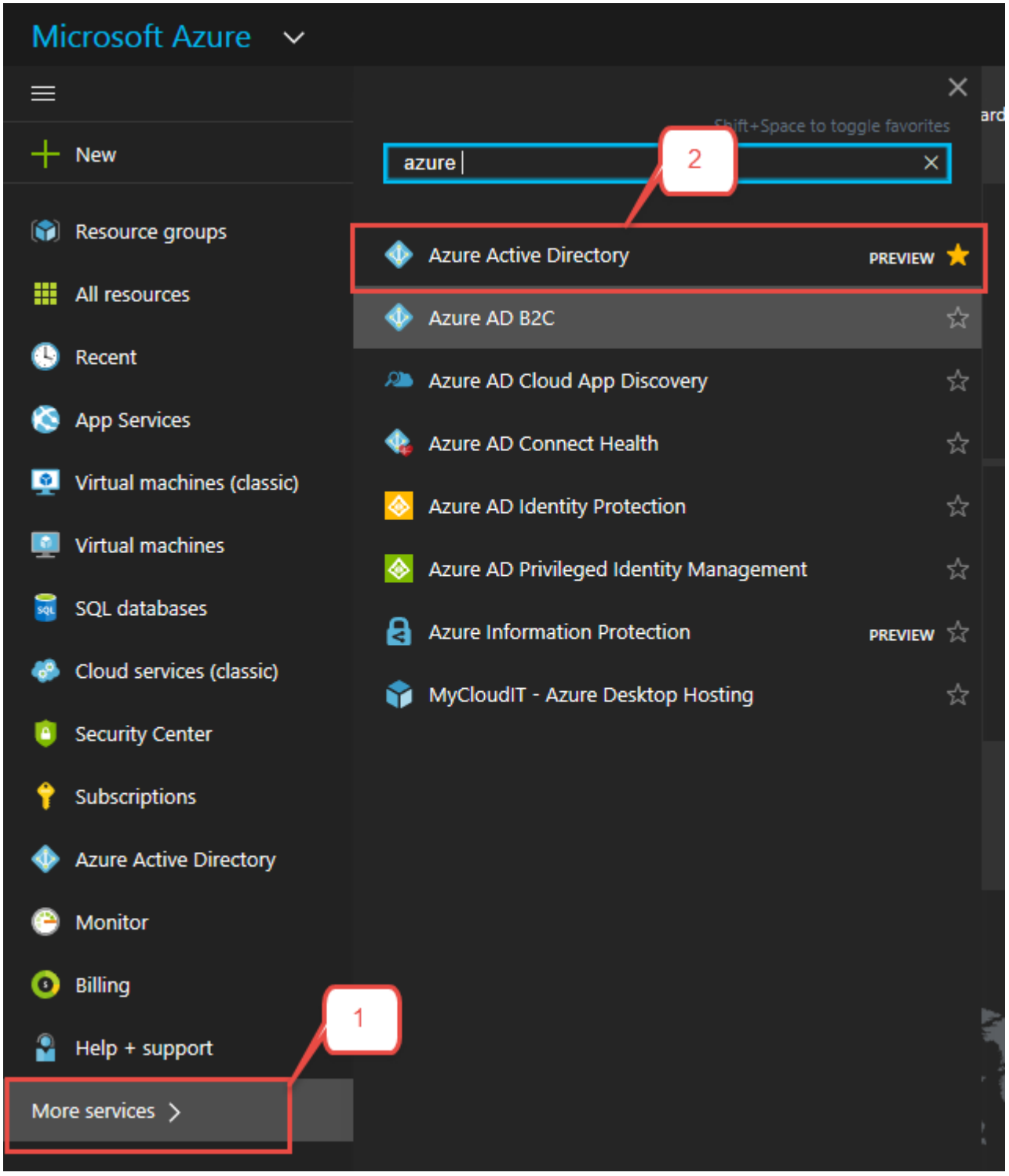

settings
SUBSCRIPTIONS
MANAGEMENT CERTIFICATES
ADMINISTRATORS
AFFINITY GROUPS
USAGE
REMOTEAPP
NAME
SUBSCRIPTION
SUBSCRIPTION ID
[redacted]
Visual Studio Enterprise
43b8966b-fc55-463a-835c-c3f6181b9382
Visual Studio Enterprise
43b8966b-fc55-463a-835c-c3f6181b9382
Visual Studio Premium with MSDN
4a8ad611-6c01-4f99-ba5e-2cad700afc54
ADD
EDIT
REMOVE

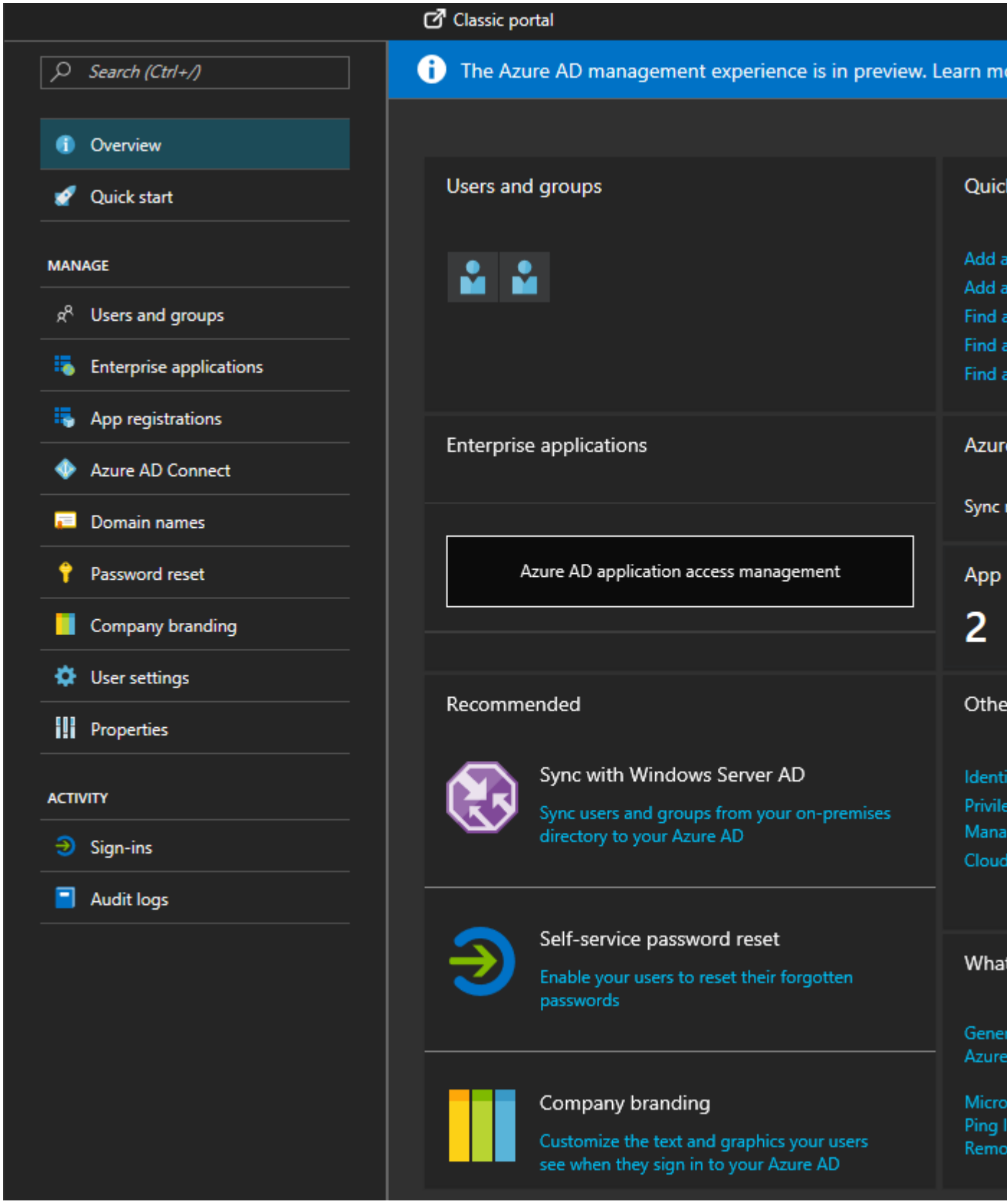
Office 365
Admin center preview
Home > Active users
Add a user
More
Fil
Display name

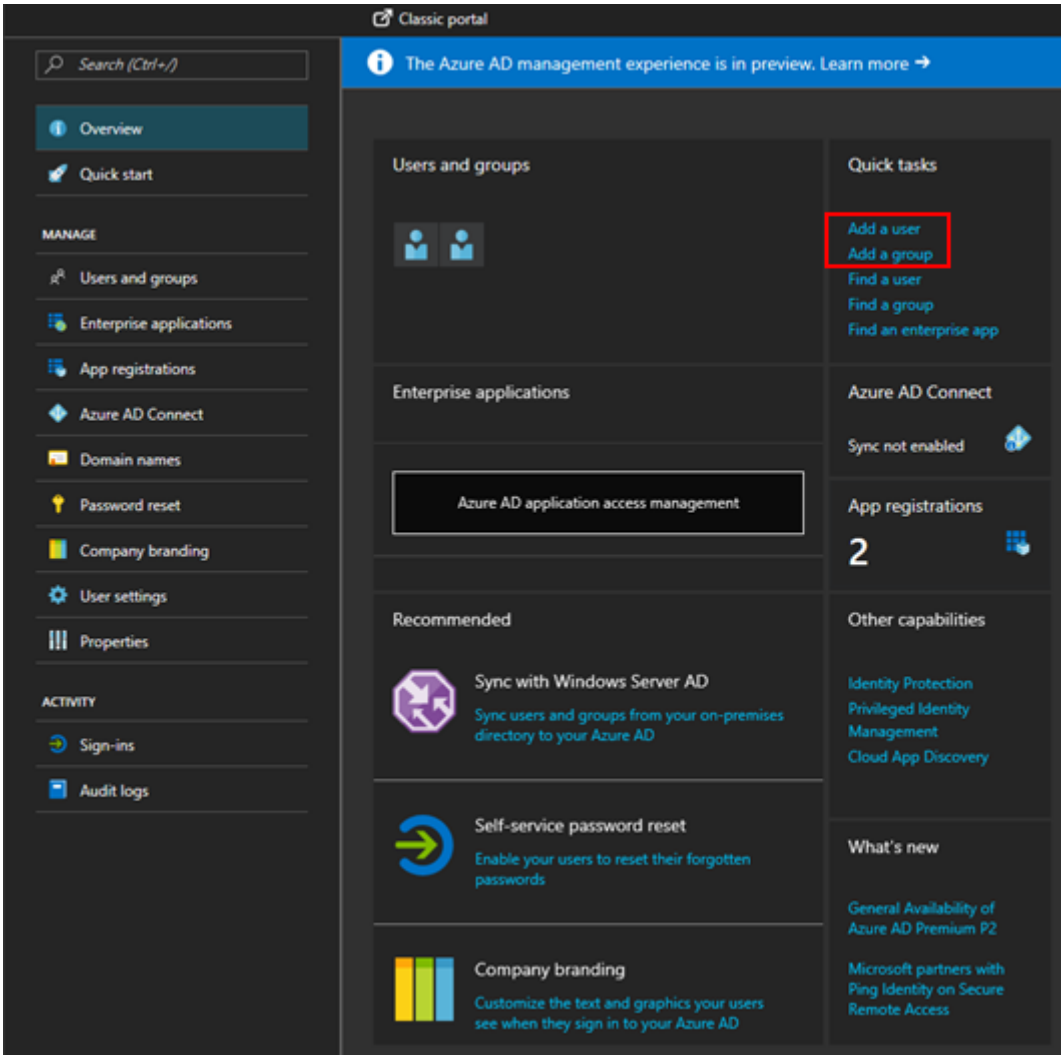


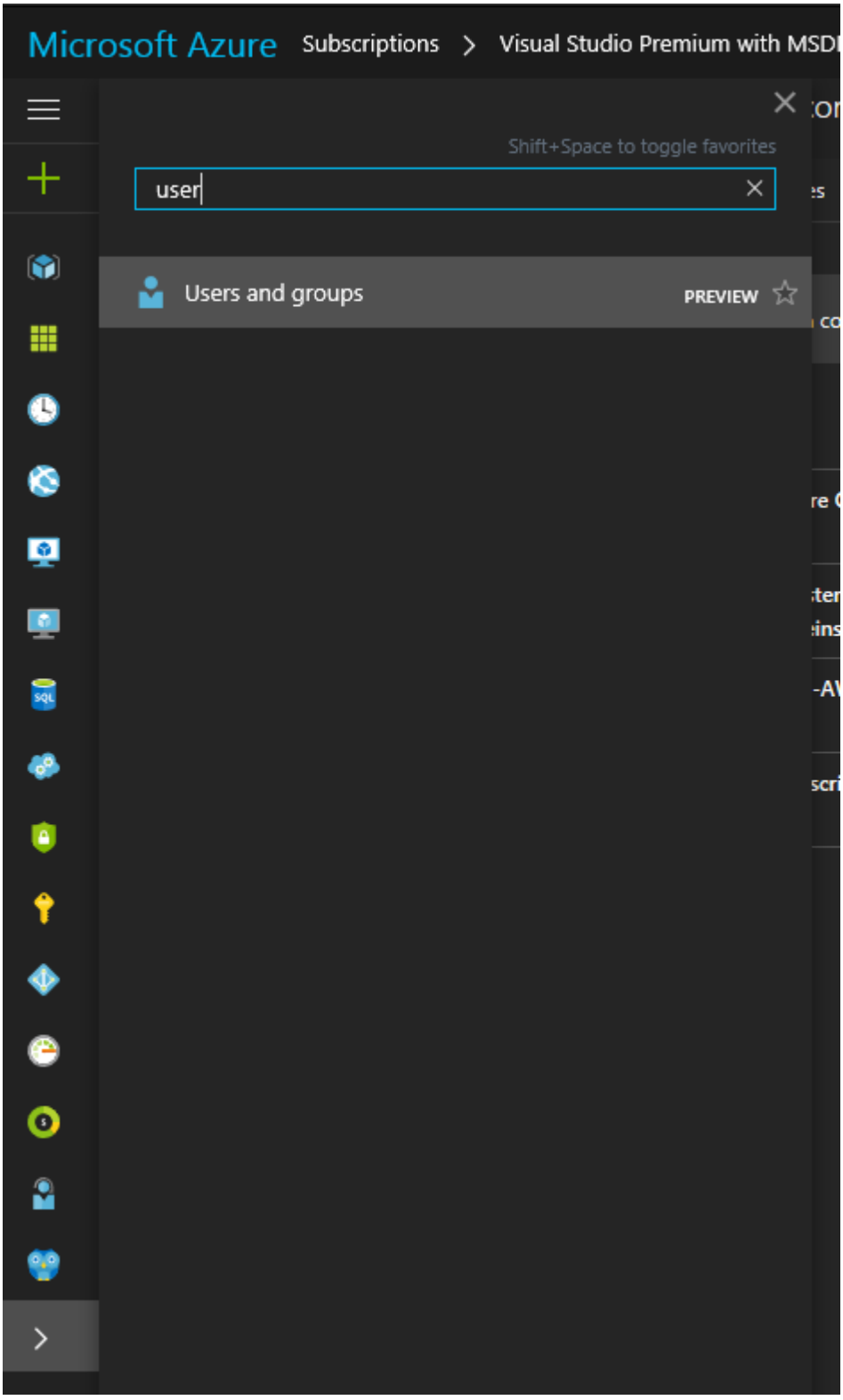


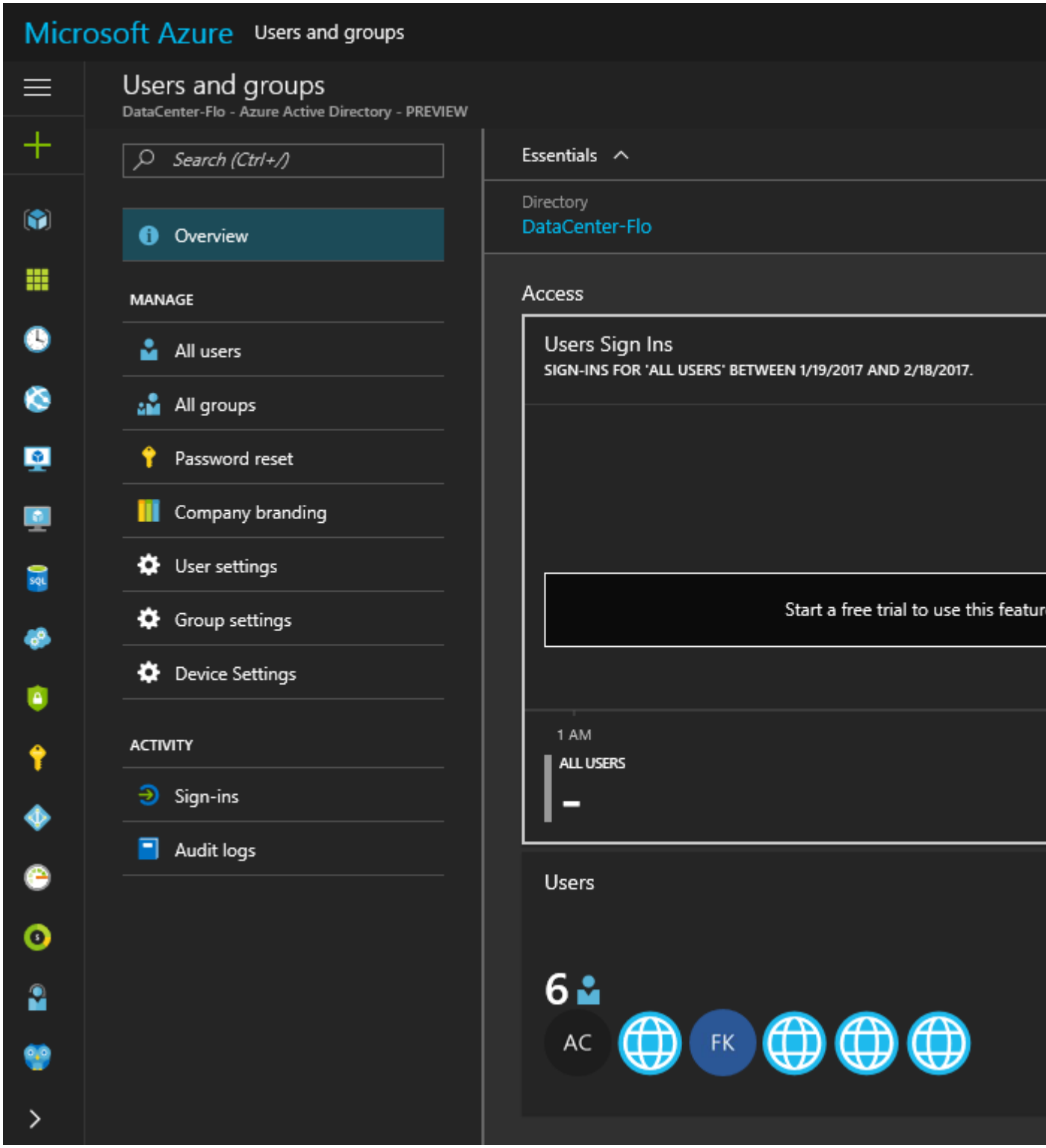
https://portal.azure.com/

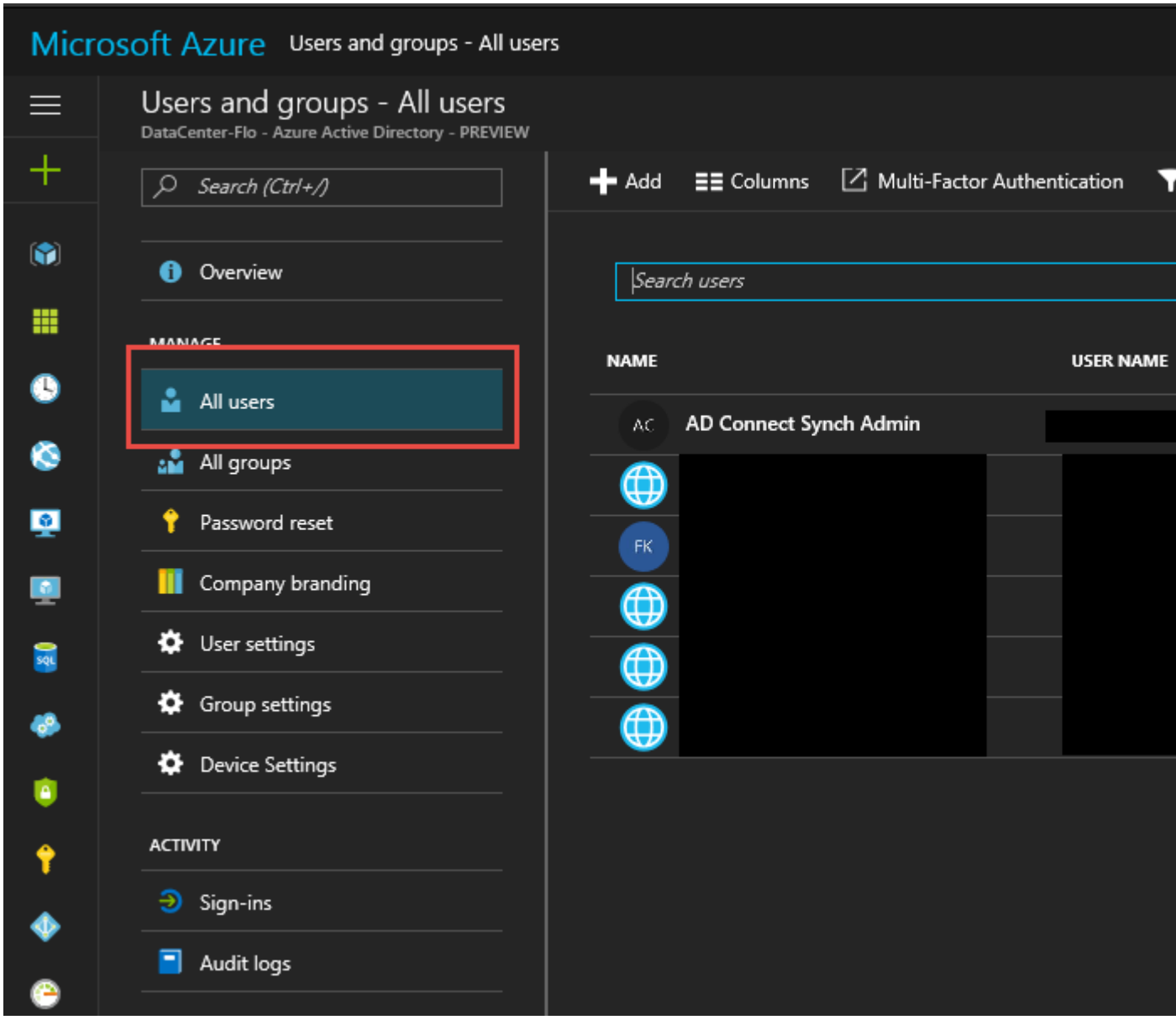

Microsoft Azure
New
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
More services
1
Shift+Space to toggle favorites
azure
2
Azure Active Directory
PREVIEW
Azure AD B2C
Azure AD Cloud App Discovery
Azure AD Connect Health
Azure AD Identity Protection
Azure AD Privileged Identity Management
Azure Information Protection
PREVIEW
MyCloudIT - Azure Desktop Hosting

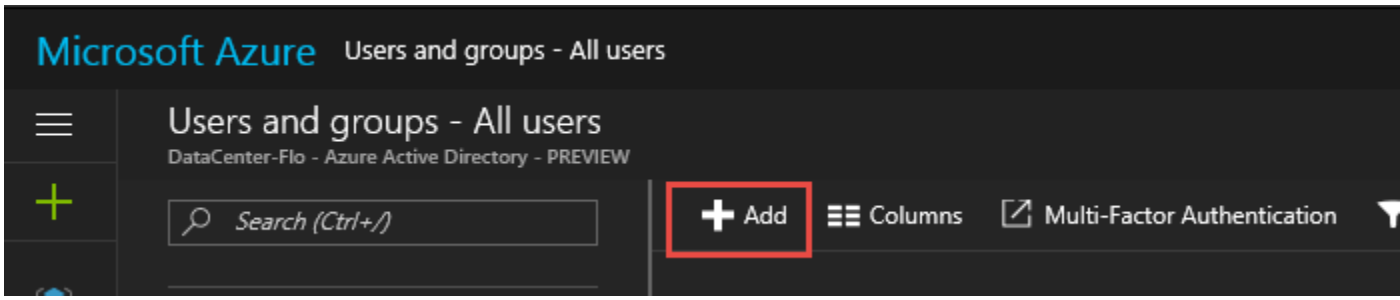

Classic portal
Search (Ctrl+/)
The Azure AD management experience is in preview. Learn m
Overview
Quick start
MANAGE
Users and groups
Enterprise applications
App registrations
Azure AD Connect
Domain names
Password reset
Company branding
User settings
Properties
ACTIVITY
Sign-ins
Audit logs
Users and groups
Enterprise applications
Azure AD application access management
Recommended
Sync with Windows Server AD
Sync users and groups from your on-premises directory to your Azure AD
Self-service password reset
Enable your users to reset their forgotten passwords
Company branding
Customize the text and graphics your users see when they sign in to your Azure AD
Quic
Add a
Add a
Find a
Find a
Find a
Azur
Sync
App
2
Othe
Identi
Privile
Mana
Cloud
What
Gene
Azure
Micro
Ping I
Remo

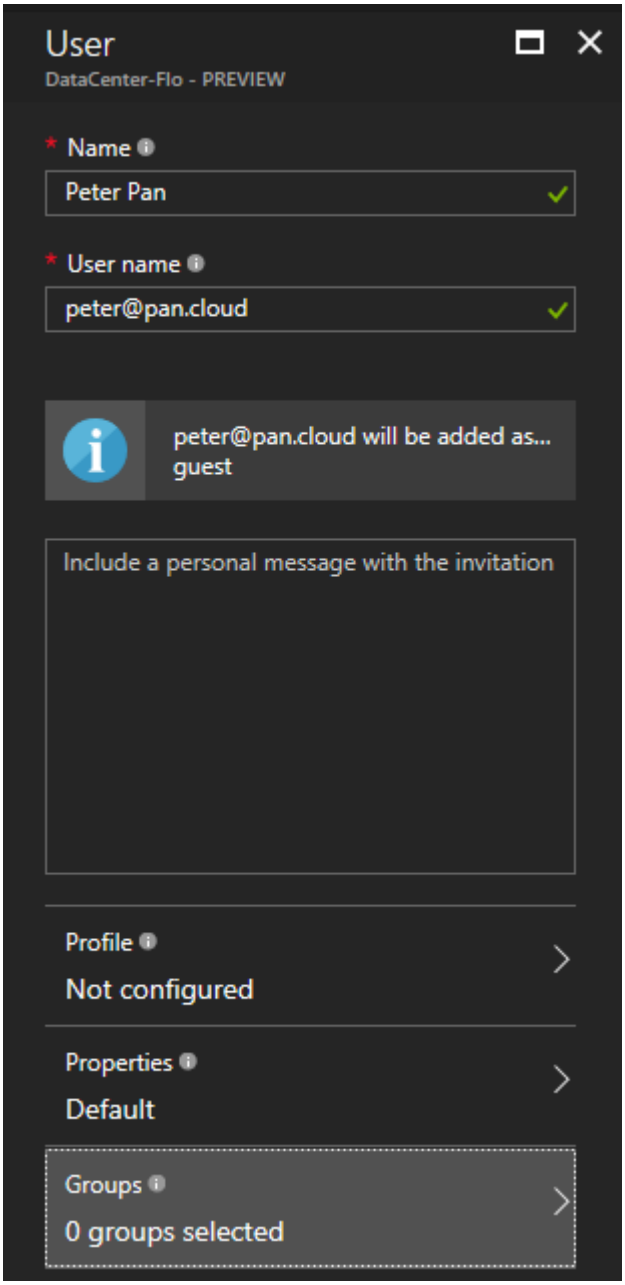

Classic portal
Search (Ctrl+/)
The Azure AD management experience is in preview. Learn more
Overview
Quick start
MANAGE
Users and groups
Enterprise applications
App registrations
Azure AD Connect
Domain names
Password reset
Company branding
User settings
Properties
ACTIVITY
Sign-ins
Audit logs
Users and groups
Quick tasks
Add a user
Add a group
Find a user
Find a group
Find an enterprise app
Enterprise applications
Azure AD Connect
Sync not enabled
Azure AD application access management
App registrations
2
Recommended
Other capabilities
Sync with Windows Server AD
Sync users and groups from your on-premises directory to your Azure AD
Identity Protection
Privileged Identity Management
Cloud App Discovery
Self-service password reset
Enable your users to reset their forgotten passwords
What's new
General Availability of Azure AD Premium P2
Company branding
Customize the text and graphics your users see when they sign in to your Azure AD
Microsoft partners with Ping Identity on Secure Remote Access

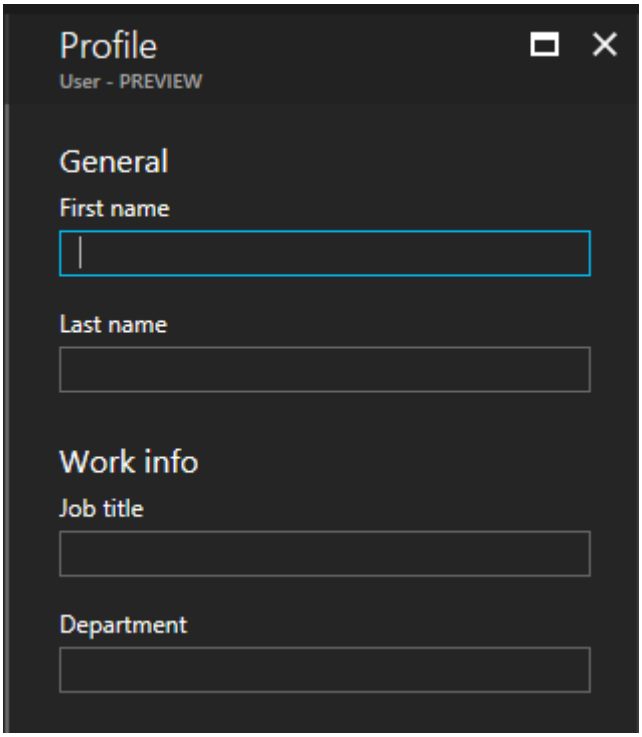

Microsoft Azure
Subscriptions
Visual Studio Premium with MSD
Shift+Space to toggle favorites
user
Users and groups
PREVIEW

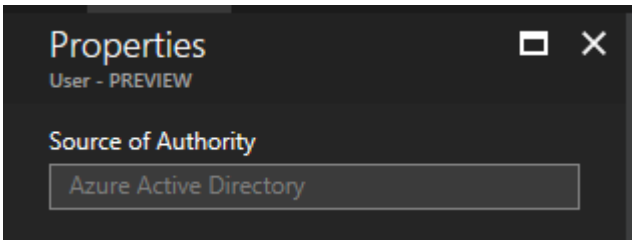

Microsoft Azure
Users and groups
Users and groups
DataCenter-Flo - Azure Active Directory - PREVIEW
Search (Ctrl+/)
Overview
MANAGE
All users
All groups
Password reset
Company branding
User settings
Group settings
Device Settings
ACTIVITY
Sign-ins
Audit logs
Essentials
Directory
DataCenter-Flo
Access
Users Sign Ins
SIGN-INS FOR 'ALL USERS' BETWEEN 1/19/2017 AND 2/18/2017.
Start a free trial to use this featur
1 AM
ALL USERS
Users
6
AC
FK

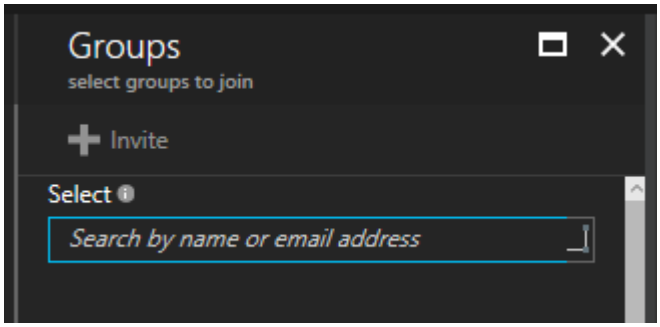

Microsoft Azure
Users and groups - All users
Users and groups - All users
DataCenter-Flo - Azure Active Directory - PREVIEW
Search (Ctrl+/)
Overview
MANAGE
All users
All groups
Password reset
Company branding
User settings
Group settings
Device Settings
ACTIVITY
Sign-ins
Audit logs
Add
Columns
Multi-Factor Authentication
Search users
NAME
USER NAME
AC
AD Connect Synch Admin
FK

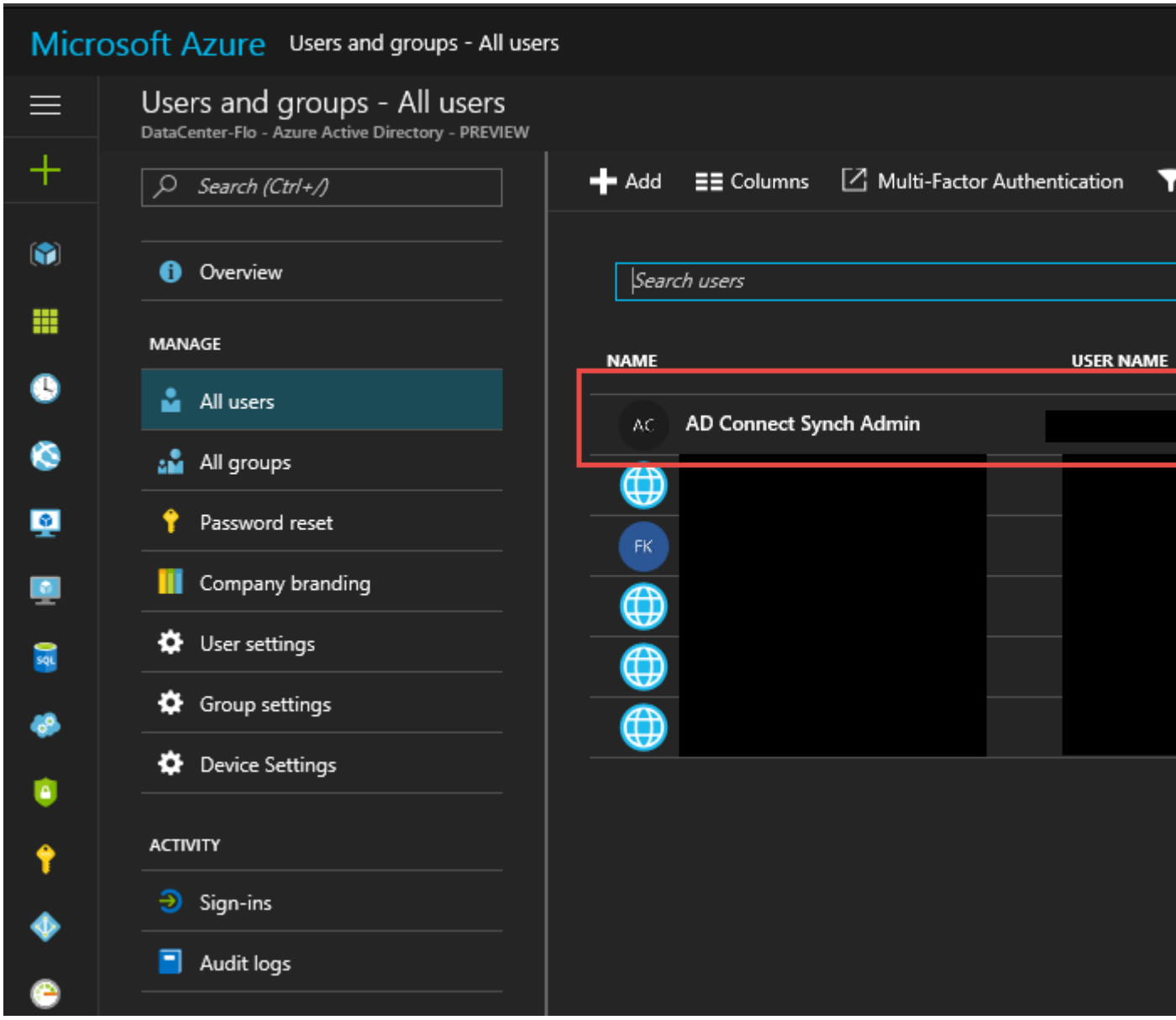

Microsoft Azure
Users and groups - All users
Users and groups - All users
DataCenter-Flo - Azure Active Directory - PREVIEW
Search (Ctrl+/)
Add
Columns
Multi-Factor Authentication

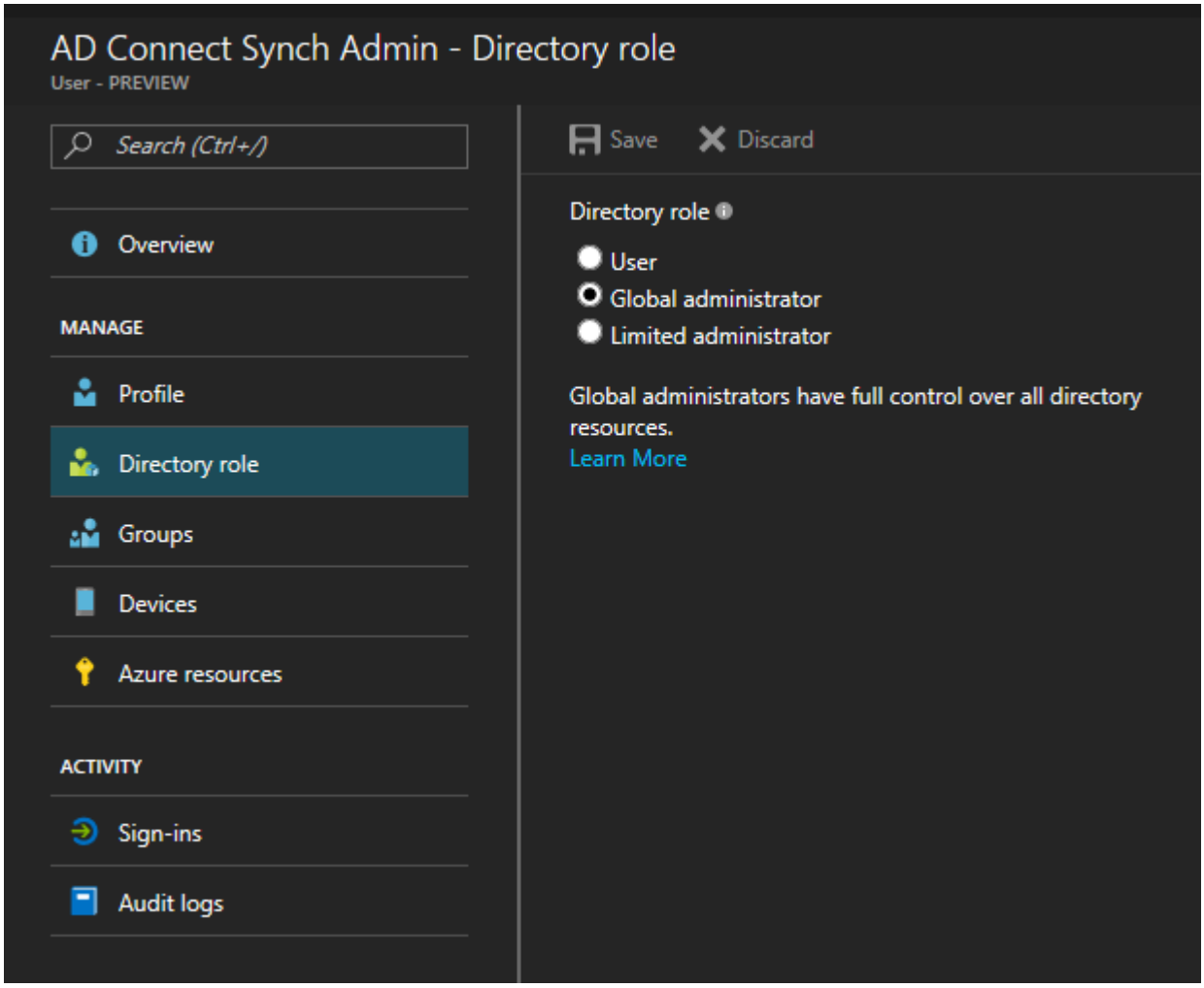

User
DataCenter-Flo - PREVIEW
* Name
Peter Pan
* User name
peter@pan.cloud
peter@pan.cloud will be added as...
guest
Include a personal message with the invitation
Profile
Not configured
Properties
Default
Groups
0 groups selected

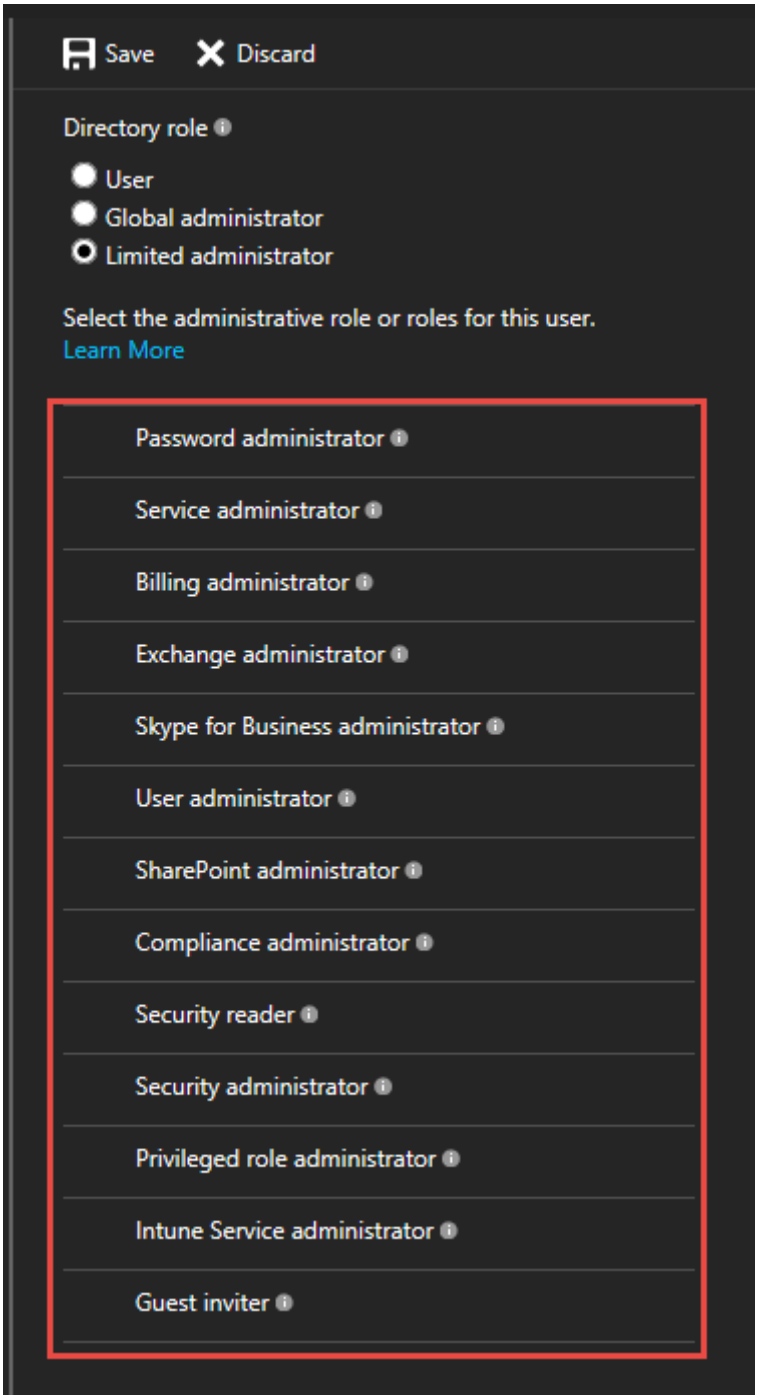

Profile
User - PREVIEW
General
First name
Last name
Work info
Job title
Department

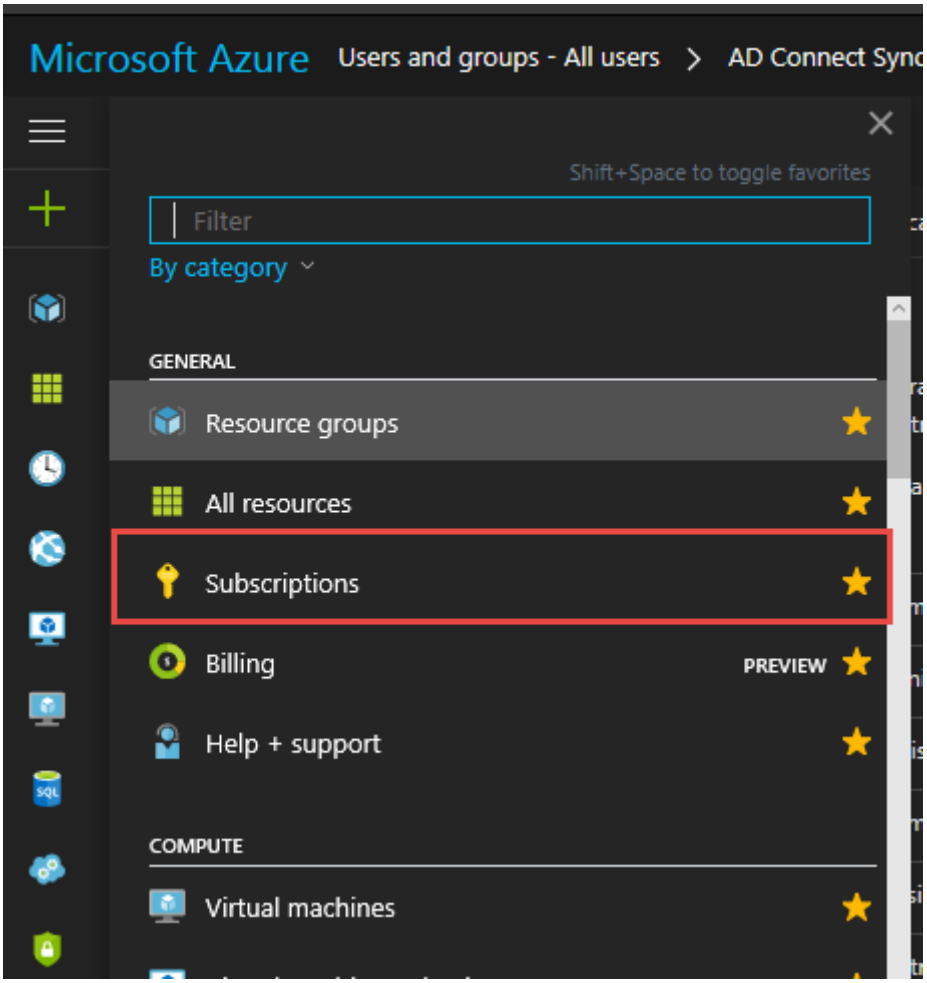

Properties
User - PREVIEW
Source of Authority
Azure Active Directory

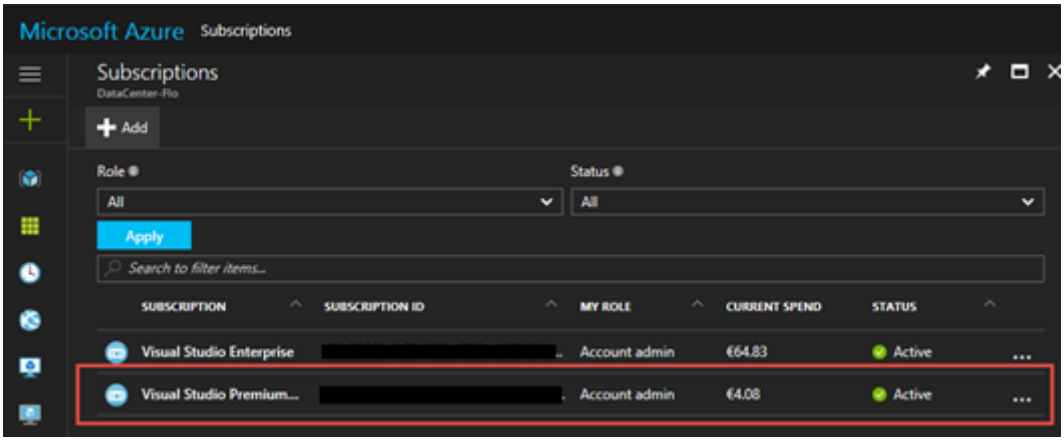

Groups
select groups to join
Invite
Select
Search by name or email address

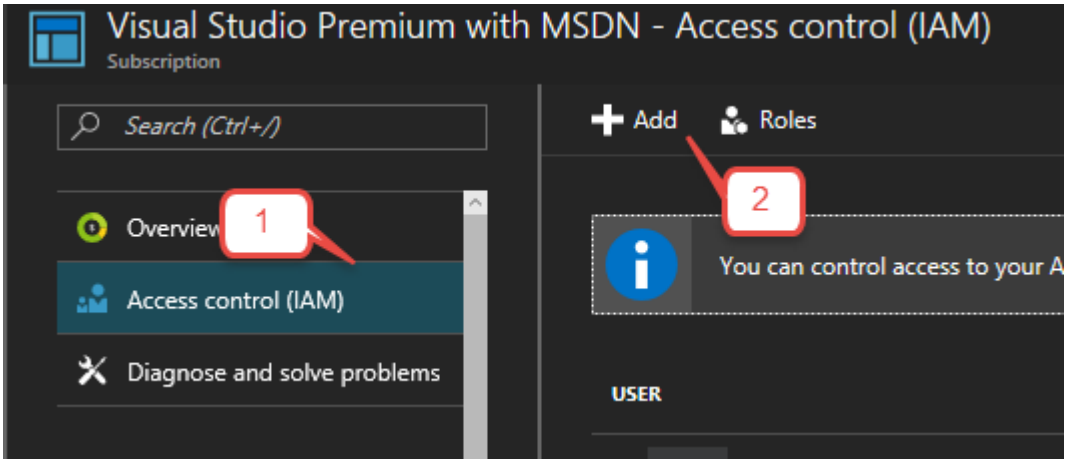

Microsoft Azure
Users and groups - All users
Users and groups - All users
DataCenter-Flo - Azure Active Directory - PREVIEW
Search (Ctrl+/)
Overview
MANAGE
All users
All groups
Password reset
Company branding
User settings
Group settings
Device Settings
ACTIVITY
Sign-ins
Audit logs
Add
Columns
Multi-Factor Authentication
Search users
NAME
USER NAME
AC
AD Connect Synch Admin
FK

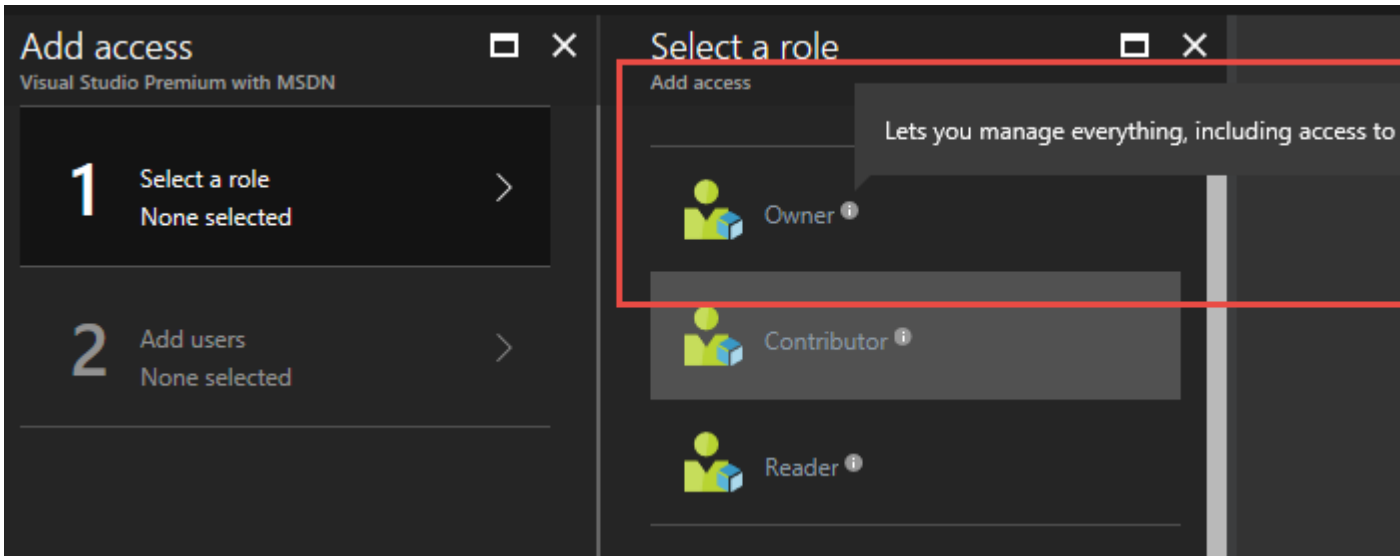

AD Connect Synch Admin - Directory role
User - PREVIEW
Search (Ctrl+/)
Overview
MANAGE
Profile
Directory role
Groups
Devices
Azure resources
ACTIVITY
Sign-ins
Audit logs
Save
Discard
Directory role
User
Global administrator
Limited administrator
Global administrators have full control over all directory resources.
Learn More

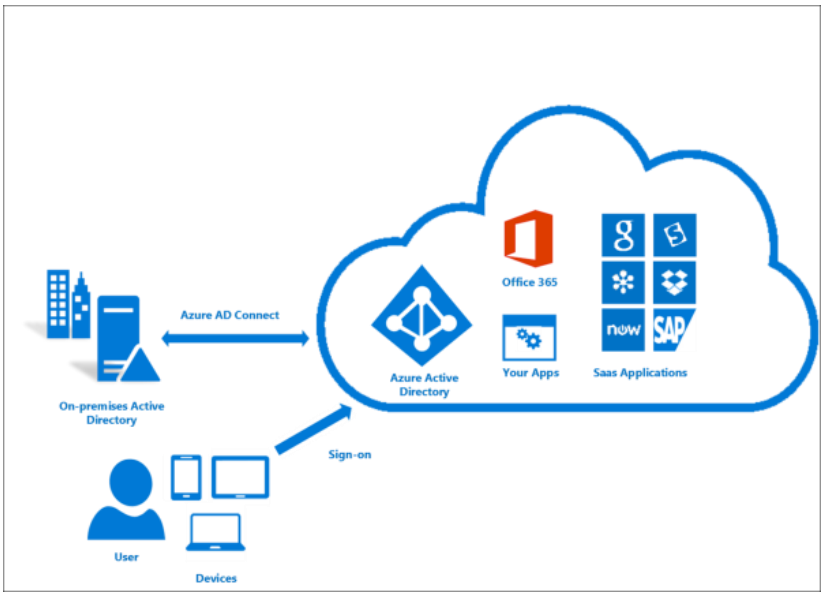

Save
Discard
Directory role
User
Global administrator
Limited administrator
Select the administrative role or roles for this user.
Learn More
Password administrator
Service administrator
Billing administrator
Exchange administrator
Skype for Business administrator
User administrator
SharePoint administrator
Compliance administrator
Security reader
Security administrator
Privileged role administrator
Intune Service administrator
Guest inviter

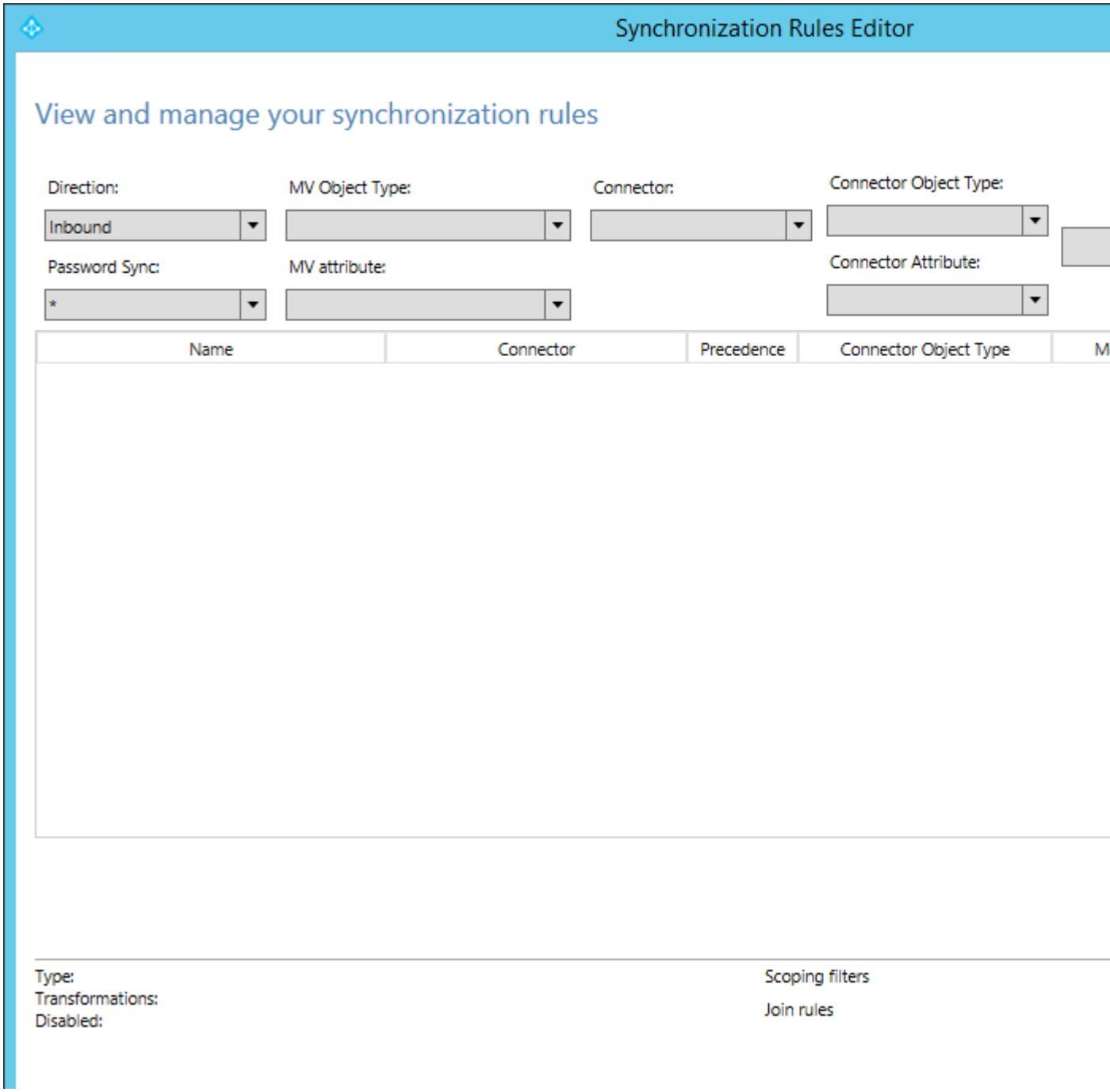

Microsoft Azure
Users and groups - All users
AD Connect Sync
Shift+Space to toggle favorites
Filter
By category
GENERAL
Resource groups
All resources
Subscriptions
Billing
PREVIEW
Help + support
COMPUTE
Virtual machines

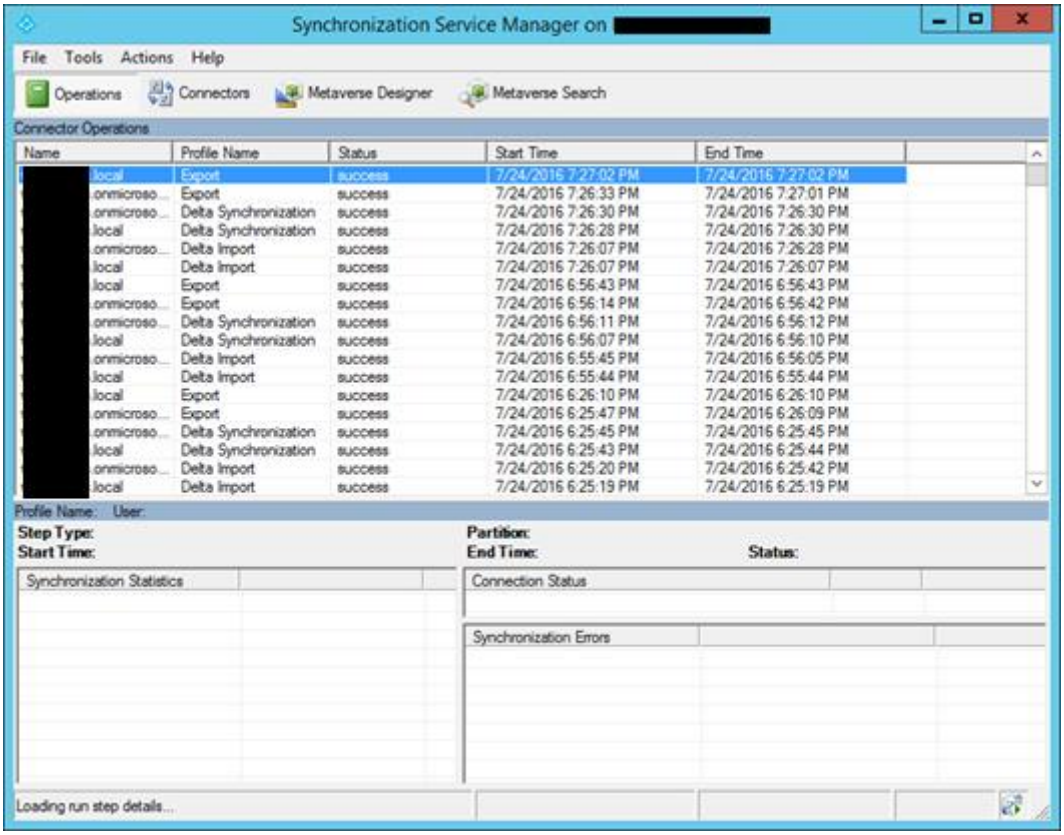

Microsoft Azure
Subscriptions
Subscriptions
Add
Role
All
Status
All
Apply
Search to filter items...
SUBSCRIPTION
SUBSCRIPTION ID
MY ROLE
CURRENT SPEND
STATUS
Visual Studio Enterprise
Account admin
€64.83
Active
Visual Studio Premium...
Account admin
€4.08
Active

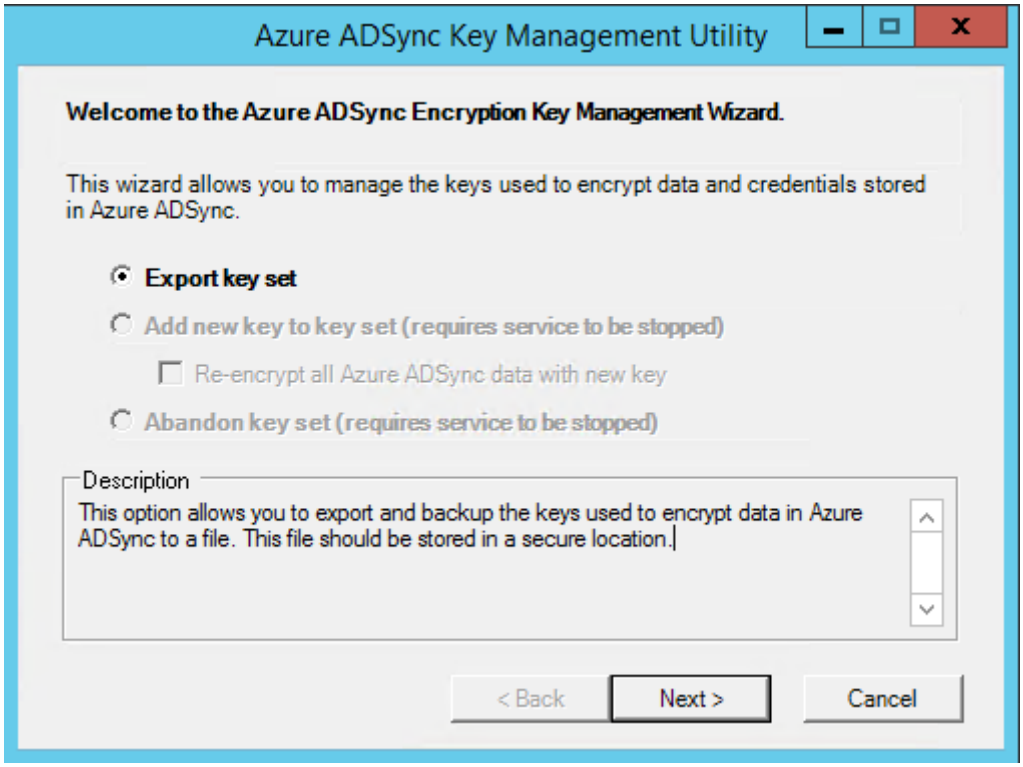

Visual Studio Premium with MSDN - Access control (IAM)
Subscription
Search (Ctrl+/)
Overview
1
Access control (IAM)
Diagnose and solve problems
Add
Roles
2
You can control access to your A
USER

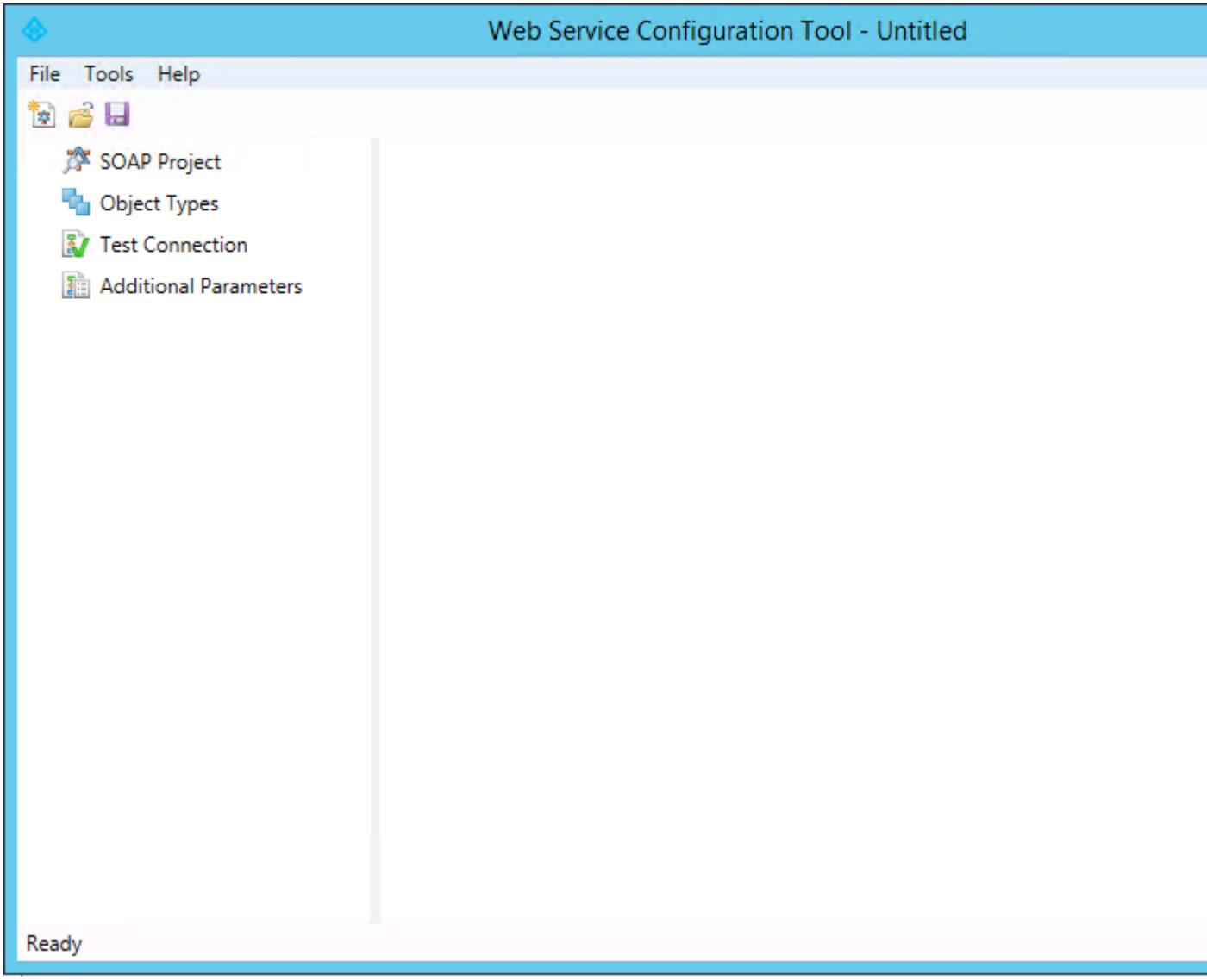

Add access
Visual Studio Premium with MSDN
1
Select a role
None selected
2
Add users
None selected
Select a role
Add access
Lets you manage everything, including access to
Owner
Contributor
Reader


Azure AD Connect
On-premises Active Directory
Azure Active Directory
Office 365
Your Apps
Saas Applications
Sign-on
User
Devices


Synchronization Rules Editor
View and manage your synchronization rules
Direction:
Inbound
MV Object Type:
Connector:
Connector Object Type:
Password Sync:
*
MV attribute:
Connector Attribute:
Name
Connector
Precedence
Connector Object Type
M
Type:
Transformations:
Disabled:
Scoping filters
Join rules


Synchronization Service Manager on [redacted]
File Tools Actions Help
Operations Connectors Metaverse Designer Metaverse Search
Connector Operations
Name Profile Name Status Start Time End Time
[redacted].local Export success 7/24/2016 7:27:02 PM 7/24/2016 7:27:02 PM
[redacted].onmicroso... Export success 7/24/2016 7:26:33 PM 7/24/2016 7:27:01 PM
[redacted].onmicroso... Delta Synchronization success 7/24/2016 7:26:30 PM 7/24/2016 7:26:30 PM
[redacted].local Delta Synchronization success 7/24/2016 7:26:28 PM 7/24/2016 7:26:30 PM
[redacted].onmicroso... Delta Import success 7/24/2016 7:26:07 PM 7/24/2016 7:26:28 PM
[redacted].local Delta Import success 7/24/2016 7:26:07 PM 7/24/2016 7:26:07 PM
[redacted].local Export success 7/24/2016 6:56:43 PM 7/24/2016 6:56:43 PM
[redacted].onmicroso... Export success 7/24/2016 6:56:14 PM 7/24/2016 6:56:42 PM
[redacted].onmicroso... Delta Synchronization success 7/24/2016 6:56:11 PM 7/24/2016 6:56:12 PM
[redacted].local Delta Synchronization success 7/24/2016 6:56:07 PM 7/24/2016 6:56:10 PM
[redacted].onmicroso... Delta Import success 7/24/2016 6:55:45 PM 7/24/2016 6:56:05 PM
[redacted].local Delta Import success 7/24/2016 6:55:44 PM 7/24/2016 6:55:44 PM
[redacted].local Export success 7/24/2016 6:26:10 PM 7/24/2016 6:26:10 PM
[redacted].onmicroso... Export success 7/24/2016 6:25:47 PM 7/24/2016 6:26:09 PM
[redacted].onmicroso... Delta Synchronization success 7/24/2016 6:25:45 PM 7/24/2016 6:25:45 PM
[redacted].local Delta Synchronization success 7/24/2016 6:25:43 PM 7/24/2016 6:25:44 PM
[redacted].onmicroso... Delta Import success 7/24/2016 6:25:20 PM 7/24/2016 6:25:42 PM
[redacted].local Delta Import success 7/24/2016 6:25:19 PM 7/24/2016 6:25:19 PM
Profile Name: User:
Step Type: Partition:
Start Time: End Time: Status:
Synchronization Statistics
Connection Status
Synchronization Errors
Loading run step details...


Azure ADSync Key Management Utility
Welcome to the Azure ADSync Encryption Key Management Wizard.
This wizard allows you to manage the keys used to encrypt data and credentials stored in Azure ADSync.
Export key set
Add new key to key set (requires service to be stopped)
Re-encrypt all Azure ADSync data with new key
Abandon key set (requires service to be stopped)
Description
This option allows you to export and backup the keys used to encrypt data in Azure ADSync to a file. This file should be stored in a secure location.
< Back
Next >
Cancel



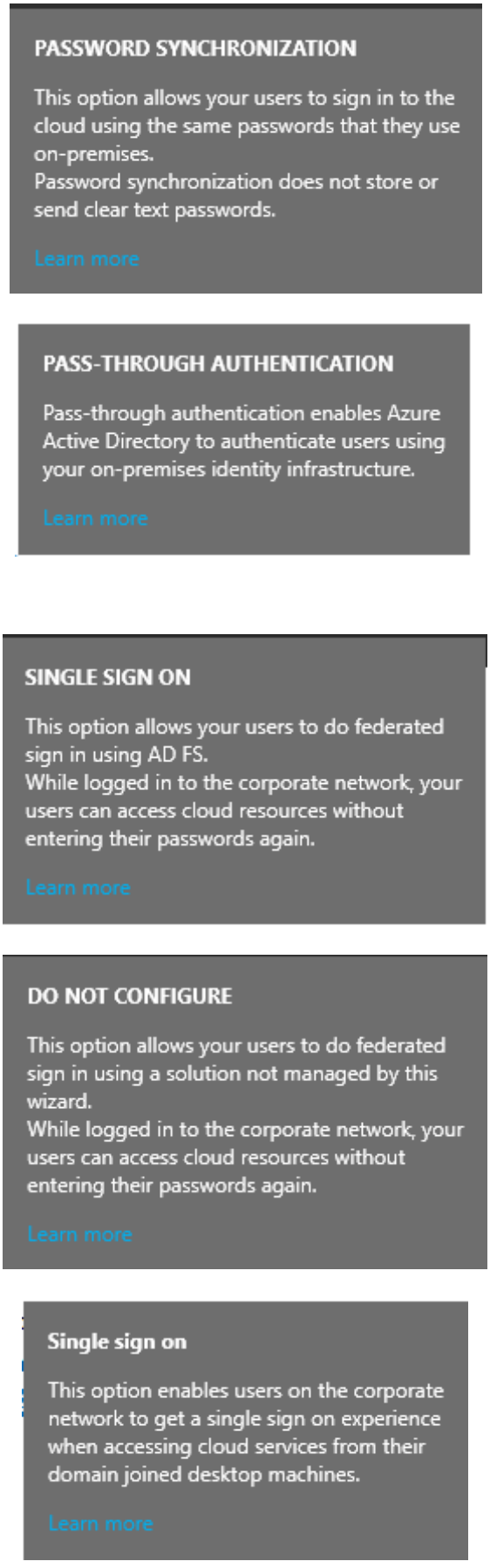
User sign-in

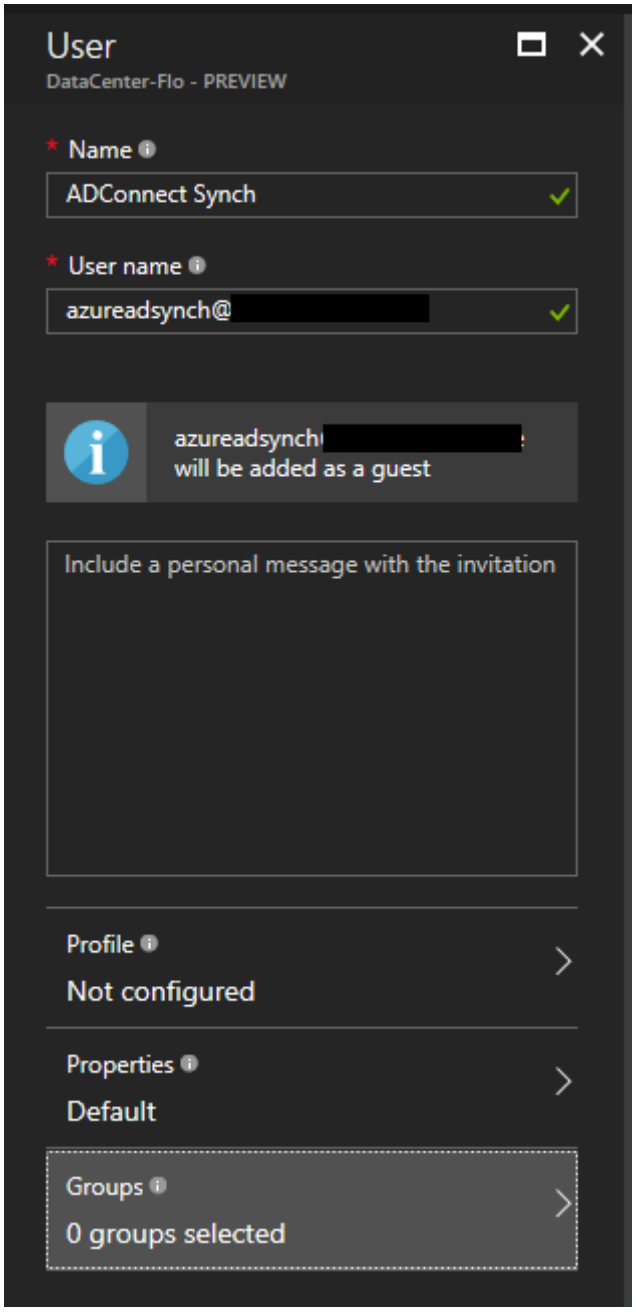
Select the Sign On method.

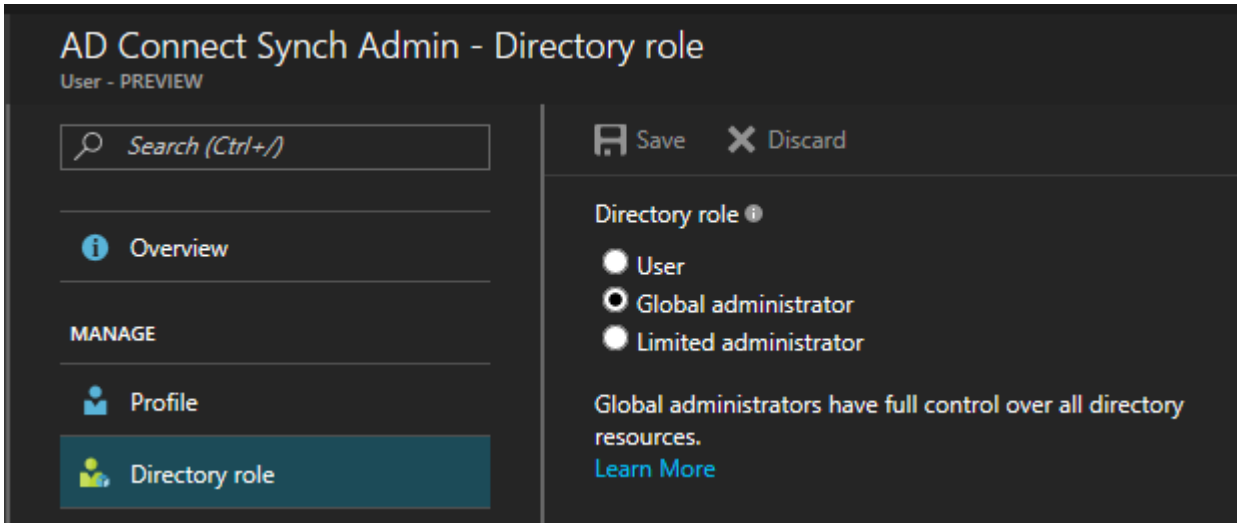
- (●) Password Synchronization
- ( ) Pass-through authentication (Preview)
- ( ) Federation with AD FS
- ( ) Do not configure

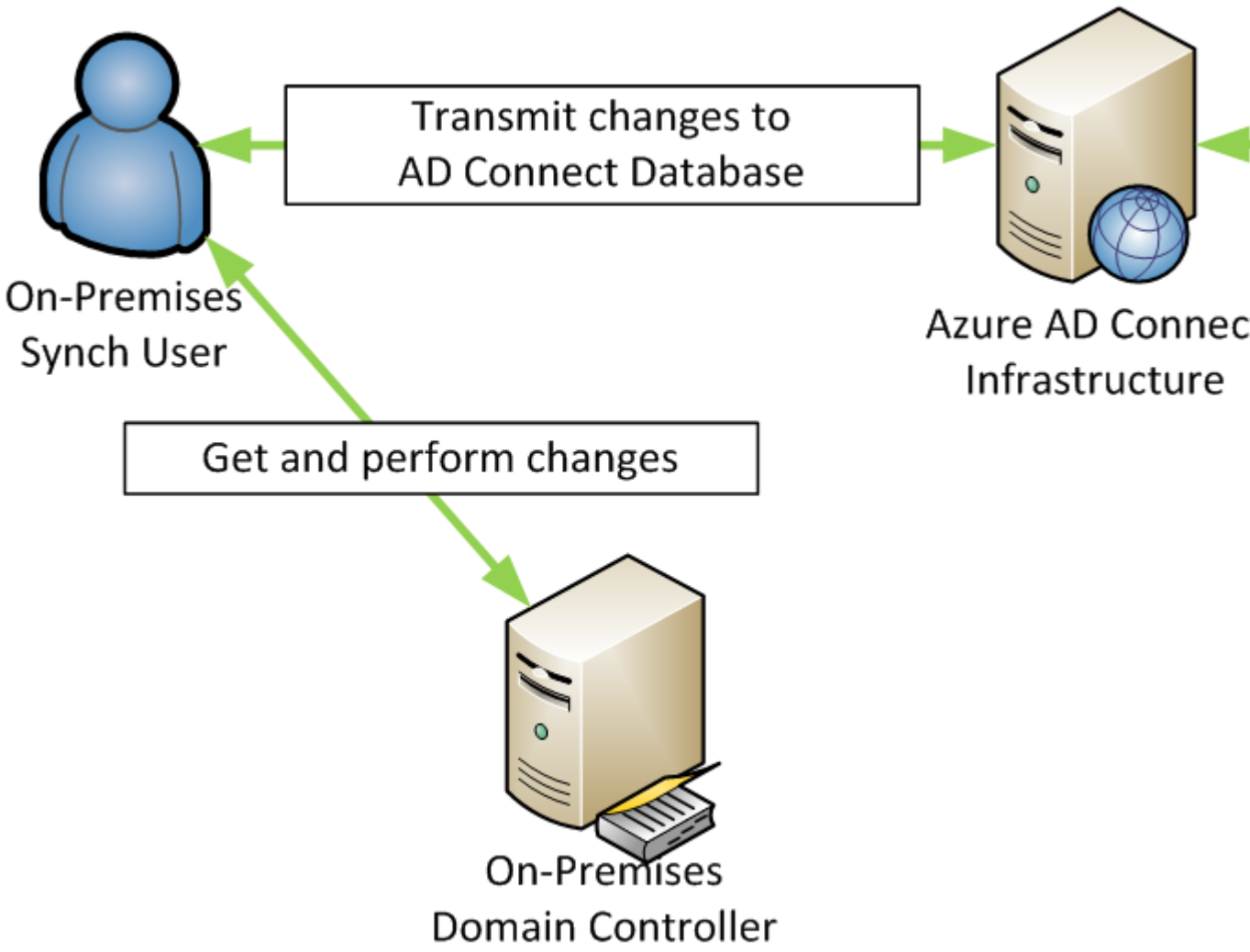
Select this option to enable single sign on for your corporate desktop users:

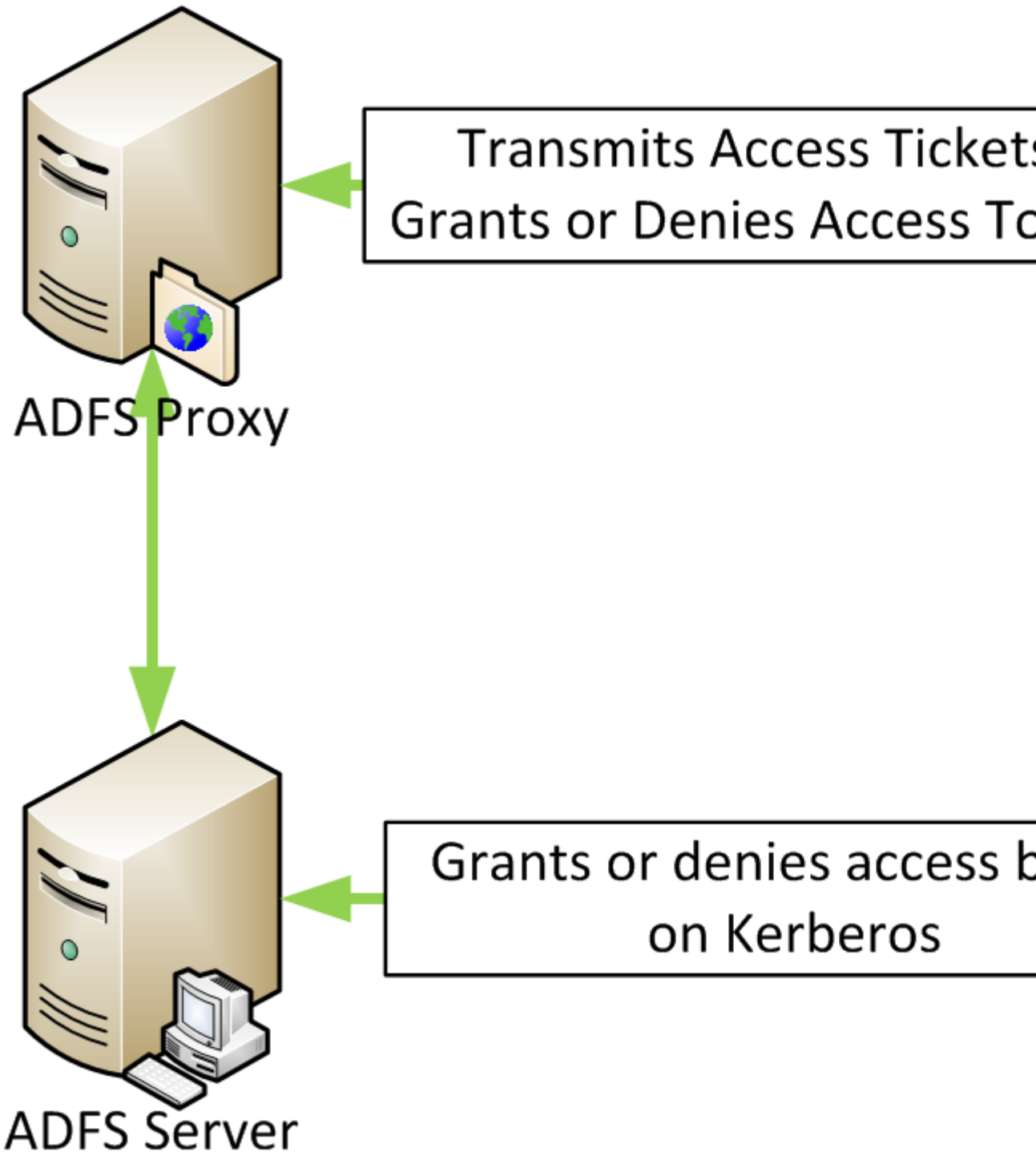
- [x] Enable single sign on (Preview)

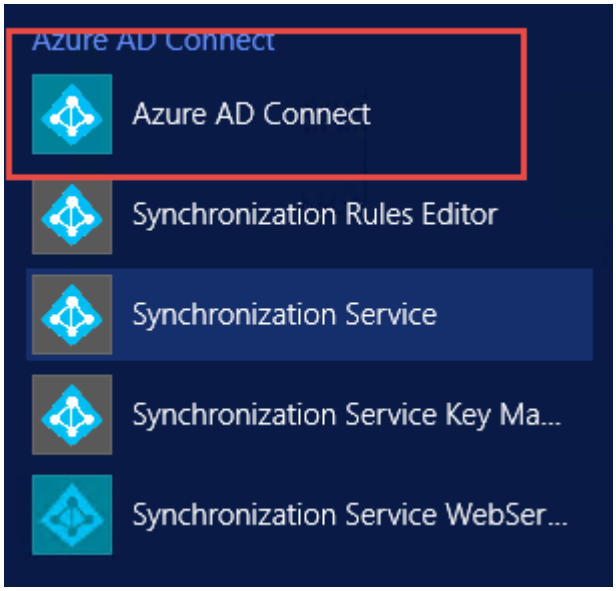

PASSWORD SYNCHRONIZATION
This option allows your users to sign in to the cloud using the same passwords that they use on-premises.
Password synchronization does not store or send clear text passwords.
Learn more
PASS-THROUGH AUTHENTICATION
Pass-through authentication enables Azure Active Directory to authenticate users using your on-premises identity infrastructure.
Learn more
SINGLE SIGN ON
This option allows your users to do federated sign in using AD FS.
While logged in to the corporate network, your users can access cloud resources without entering their passwords again.
Learn more
DO NOT CONFIGURE
This option allows your users to do federated sign in using a solution not managed by this wizard.
While logged in to the corporate network, your users can access cloud resources without entering their passwords again.
Learn more
Single sign on
This option enables users on the corporate network to get a single sign on experience when accessing cloud services from their domain joined desktop machines.
Learn more

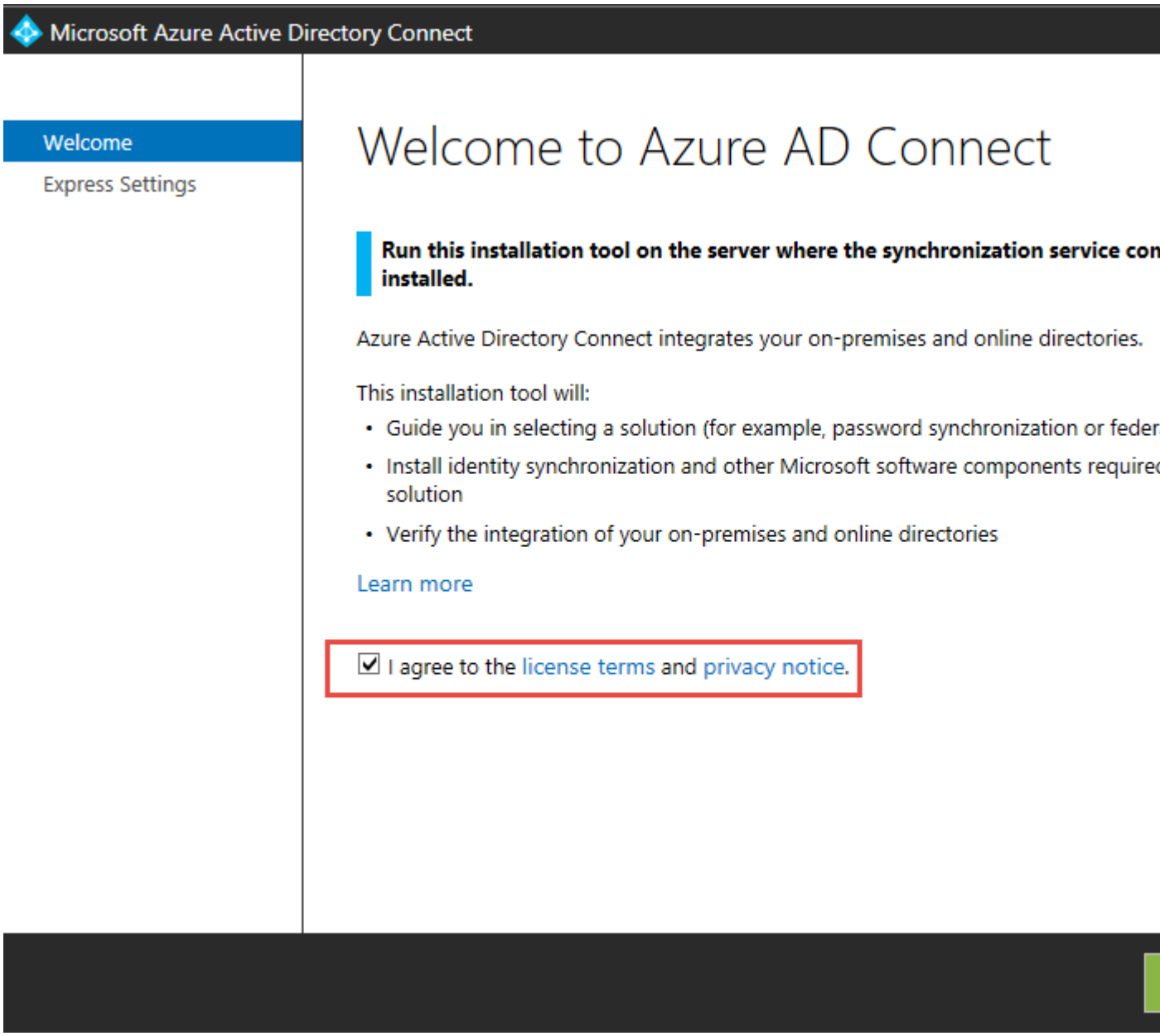

User
DataCenter-Flo - PREVIEW
* Name
ADConnect Synch
* User name
azureadsynch@[redacted]
azureadsynch[redacted]
will be added as a guest
Include a personal message with the invitation
Profile
Not configured
Properties
Default
Groups
0 groups selected

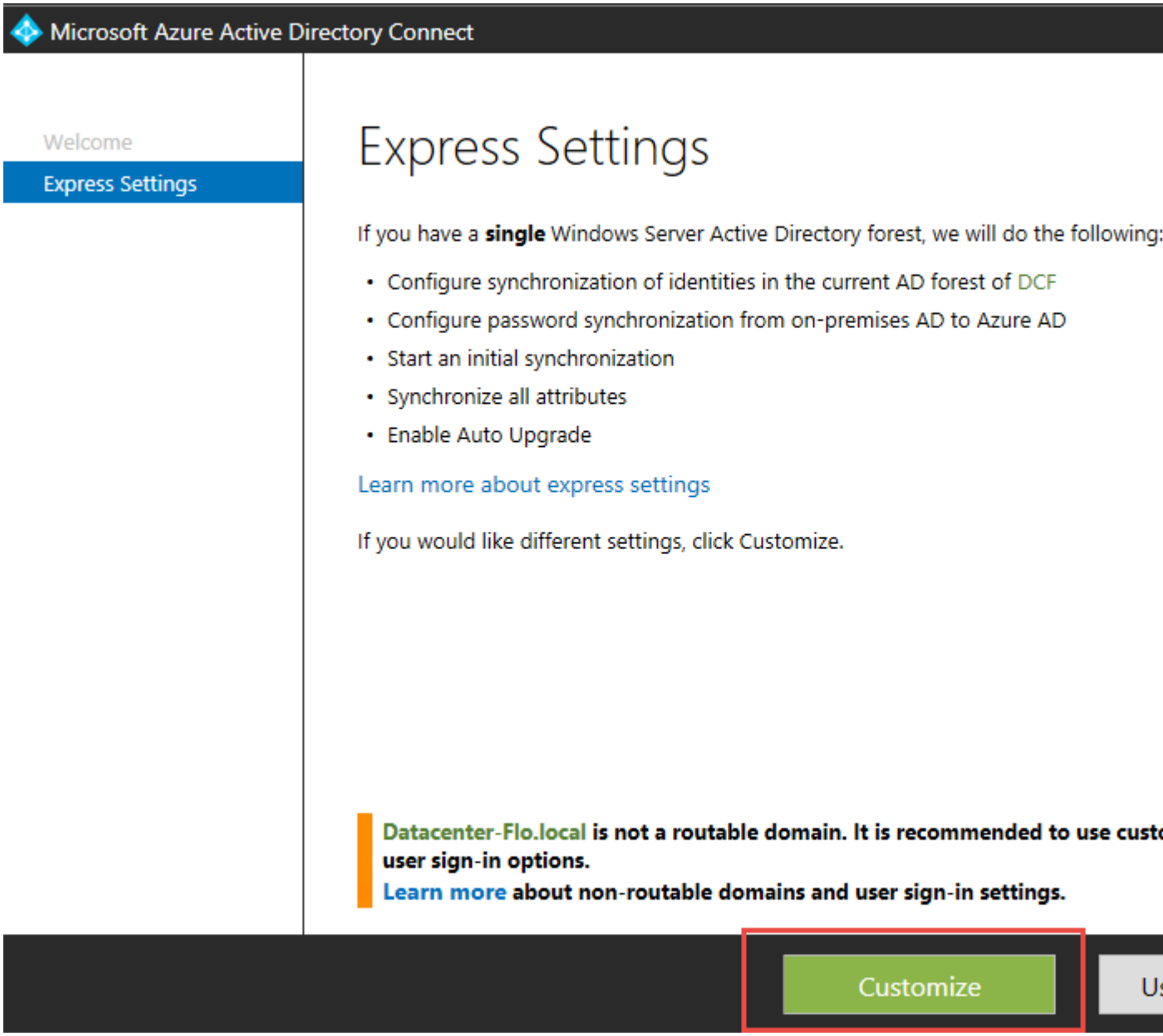

AD Connect Synch Admin - Directory role
User - PREVIEW
Search (Ctrl+/)
Overview
MANAGE
Profile
Directory role
Save
Discard
Directory role
User
Global administrator
Limited administrator
Global administrators have full control over all directory resources.
Learn More


Transmit changes to
AD Connect Database
On-Premises
Synch User
Azure AD Connec
Infrastructure
Get and perform changes
On-Premises
Domain Controller


Transmits Access Tickets
Grants or Denies Access To
ADFS Proxy
Grants or denies access b
on Kerberos
ADFS Server


Azure AD Connect
Azure AD Connect
Synchronization Rules Editor
Synchronization Service
Synchronization Service Key Ma...
Synchronization Service WebSer...


Microsoft Azure Active Directory Connect
Welcome
Express Settings
Welcome to Azure AD Connect
Run this installation tool on the server where the synchronization service con
installed.
Azure Active Directory Connect integrates your on-premises and online directories.
This installation tool will:
Guide you in selecting a solution (for example, password synchronization or feder
Install identity synchronization and other Microsoft software components required
solution
Verify the integration of your on-premises and online directories
Learn more
I agree to the license terms and privacy notice.



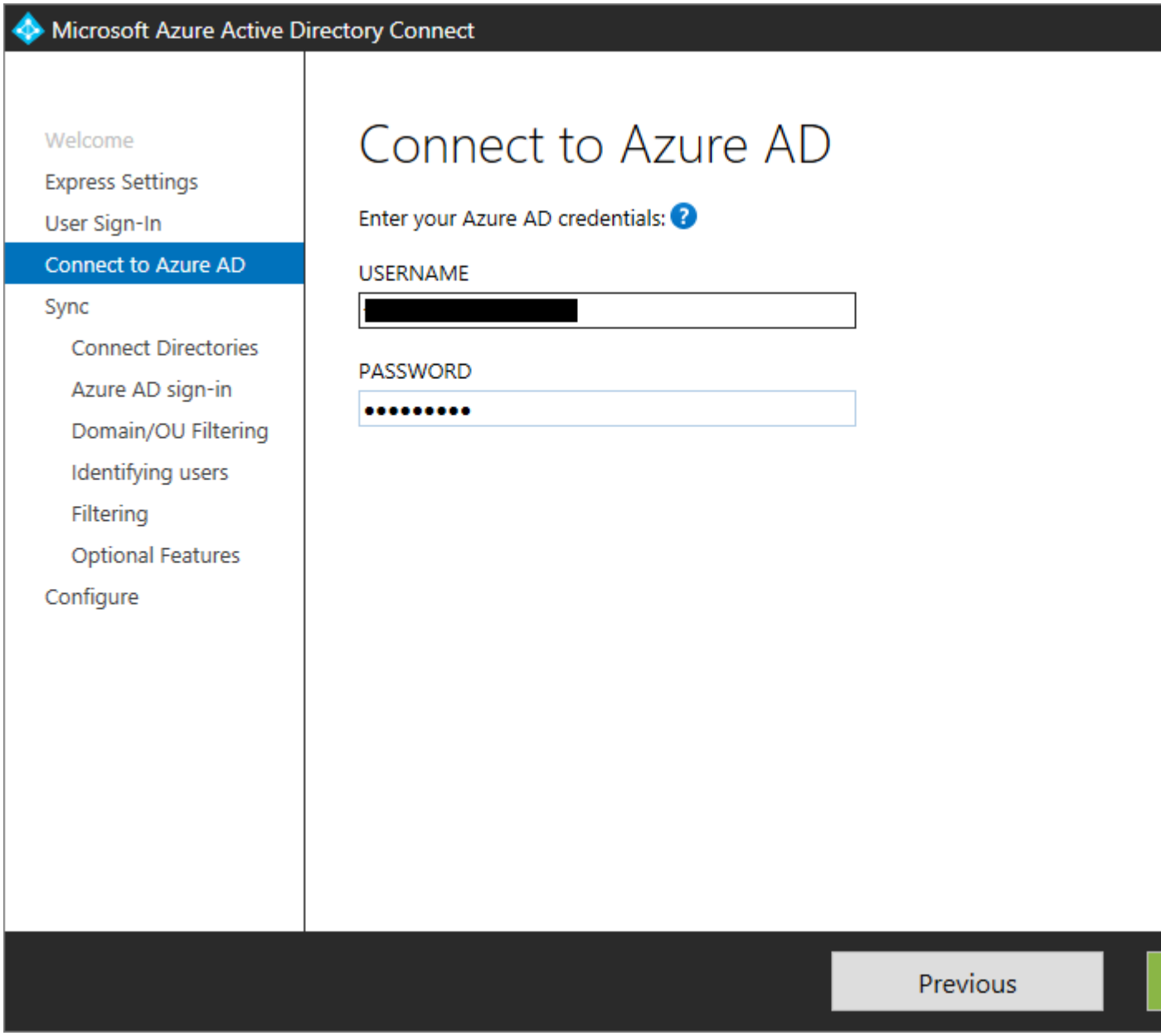
User sign-in

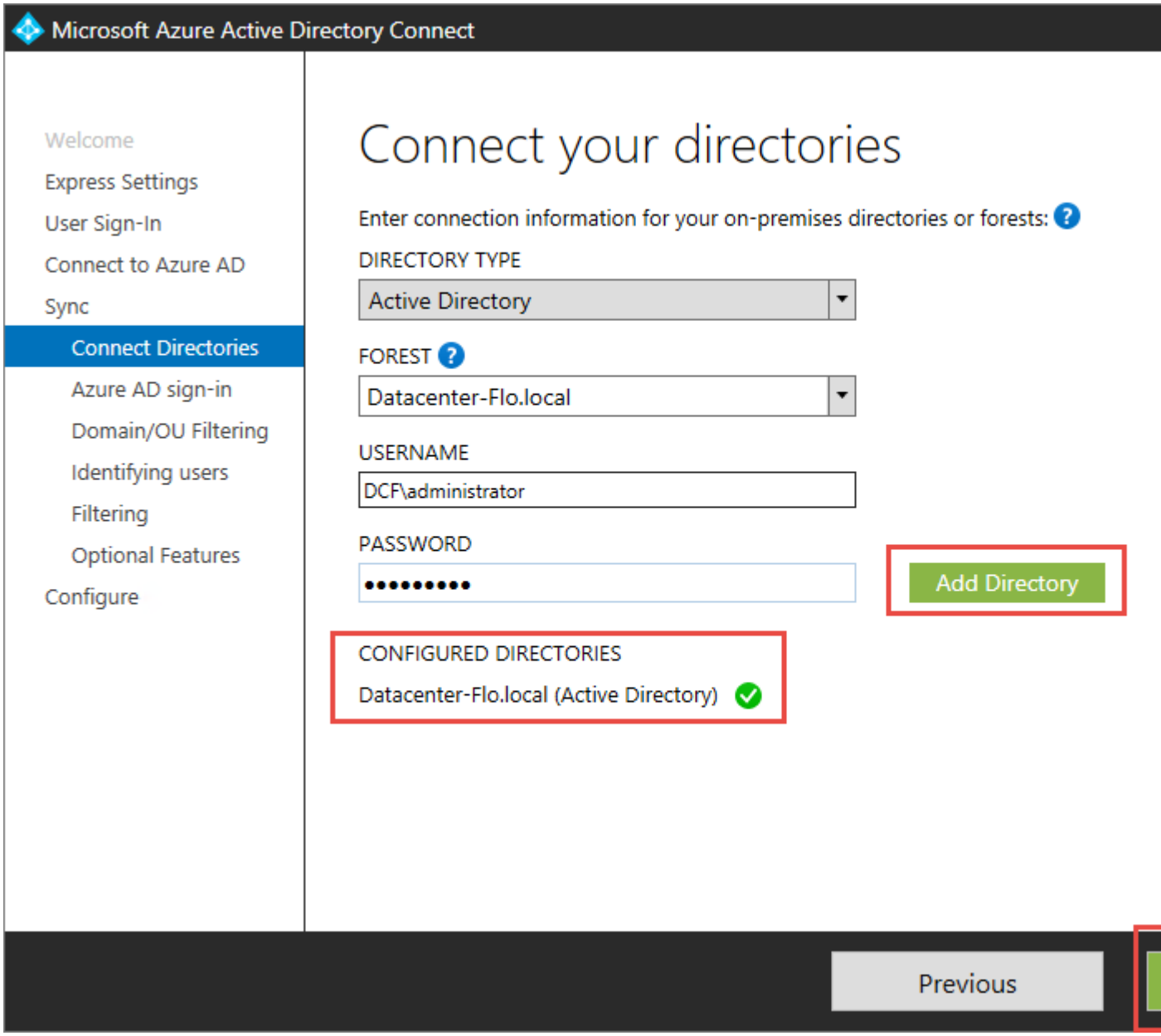
Select the Sign On method.

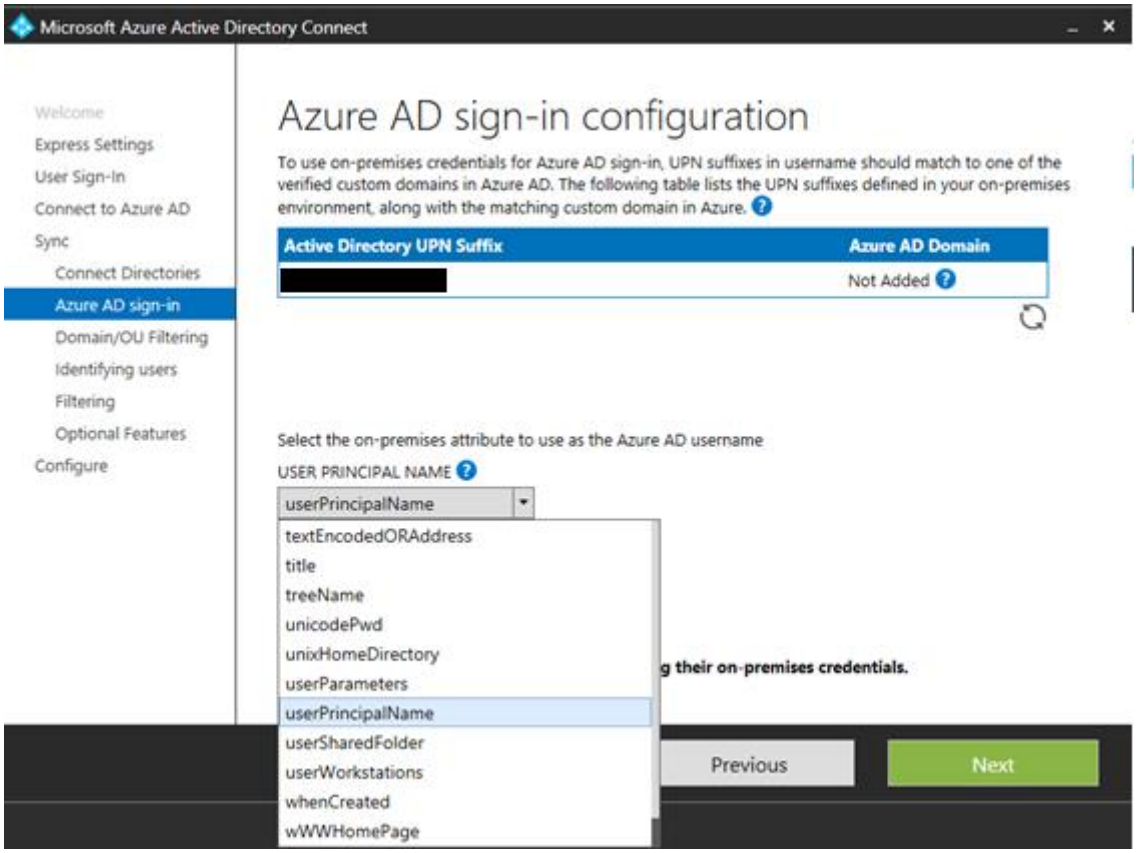
- (•) Password Synchronization
- ( ) Pass-through authentication (Preview)
- ( ) Federation with AD FS
- ( ) Do not configure

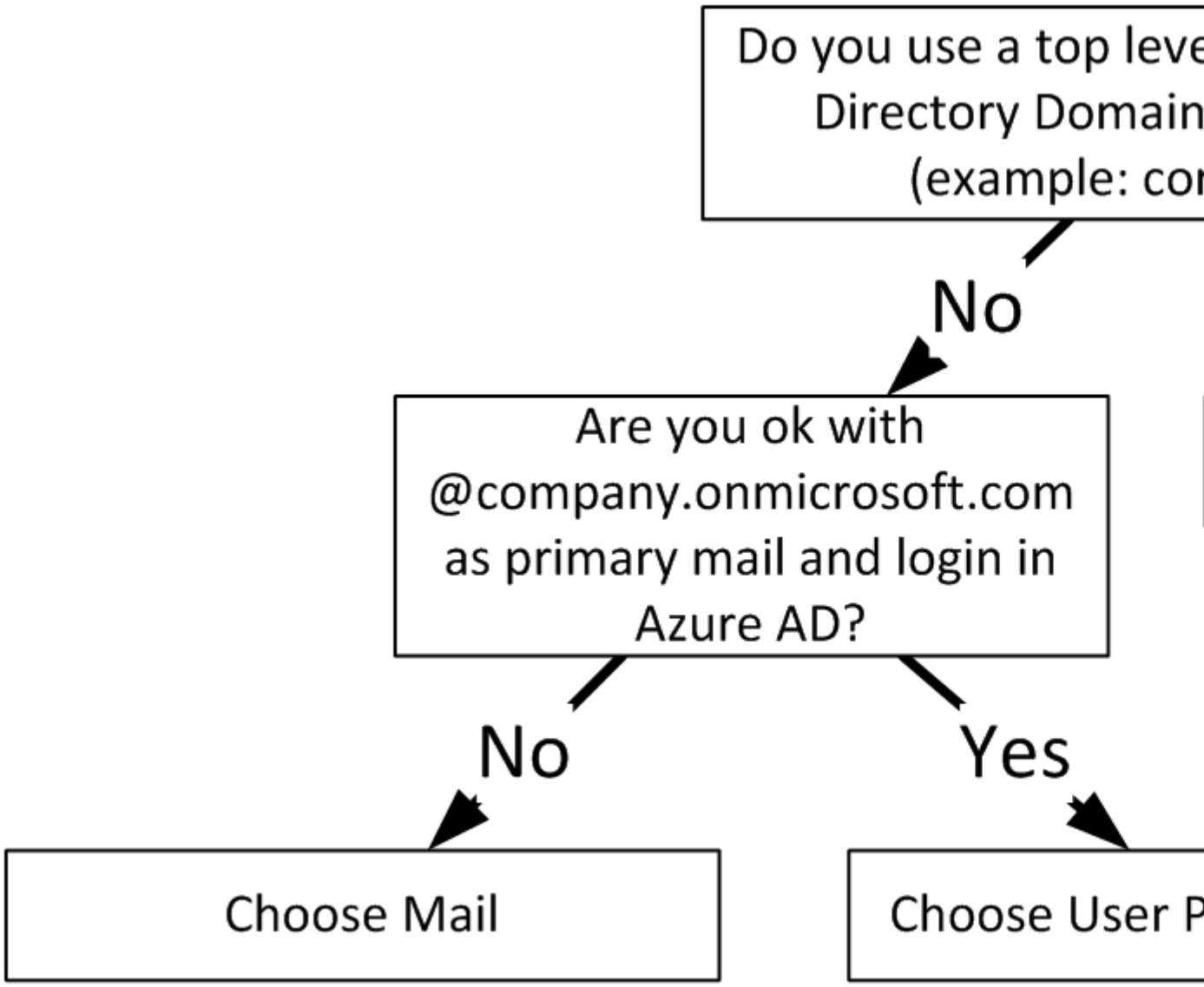
Select this option to enable single sign on for your corporate desktop users:

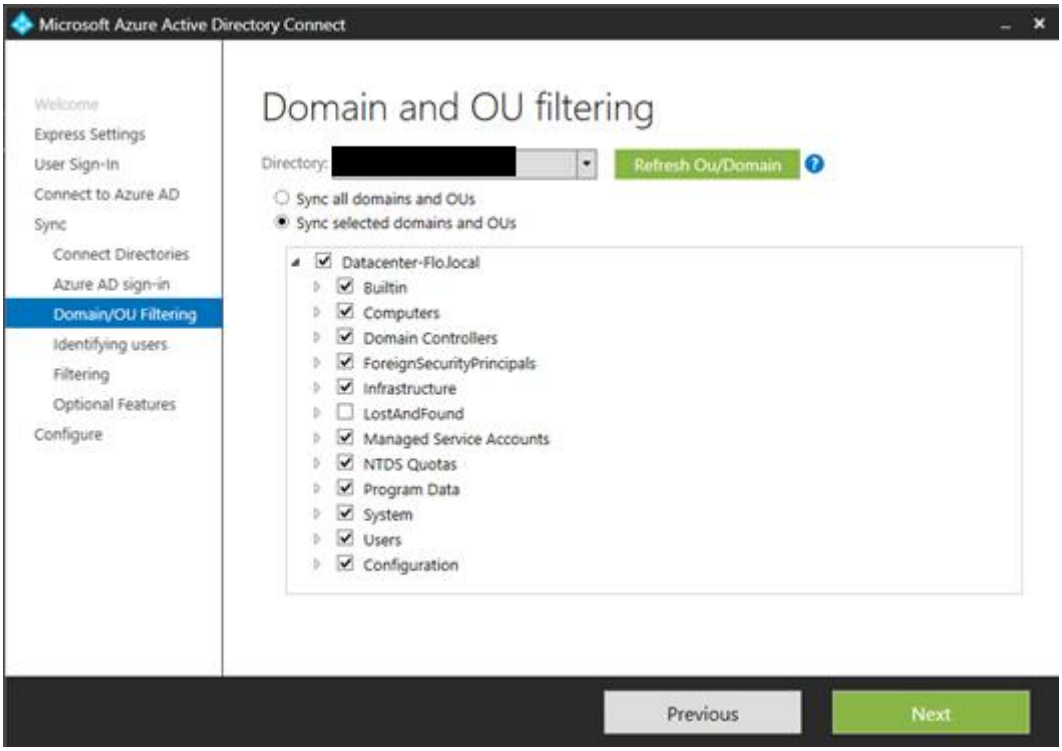
- [x] Enable single sign on (Preview)

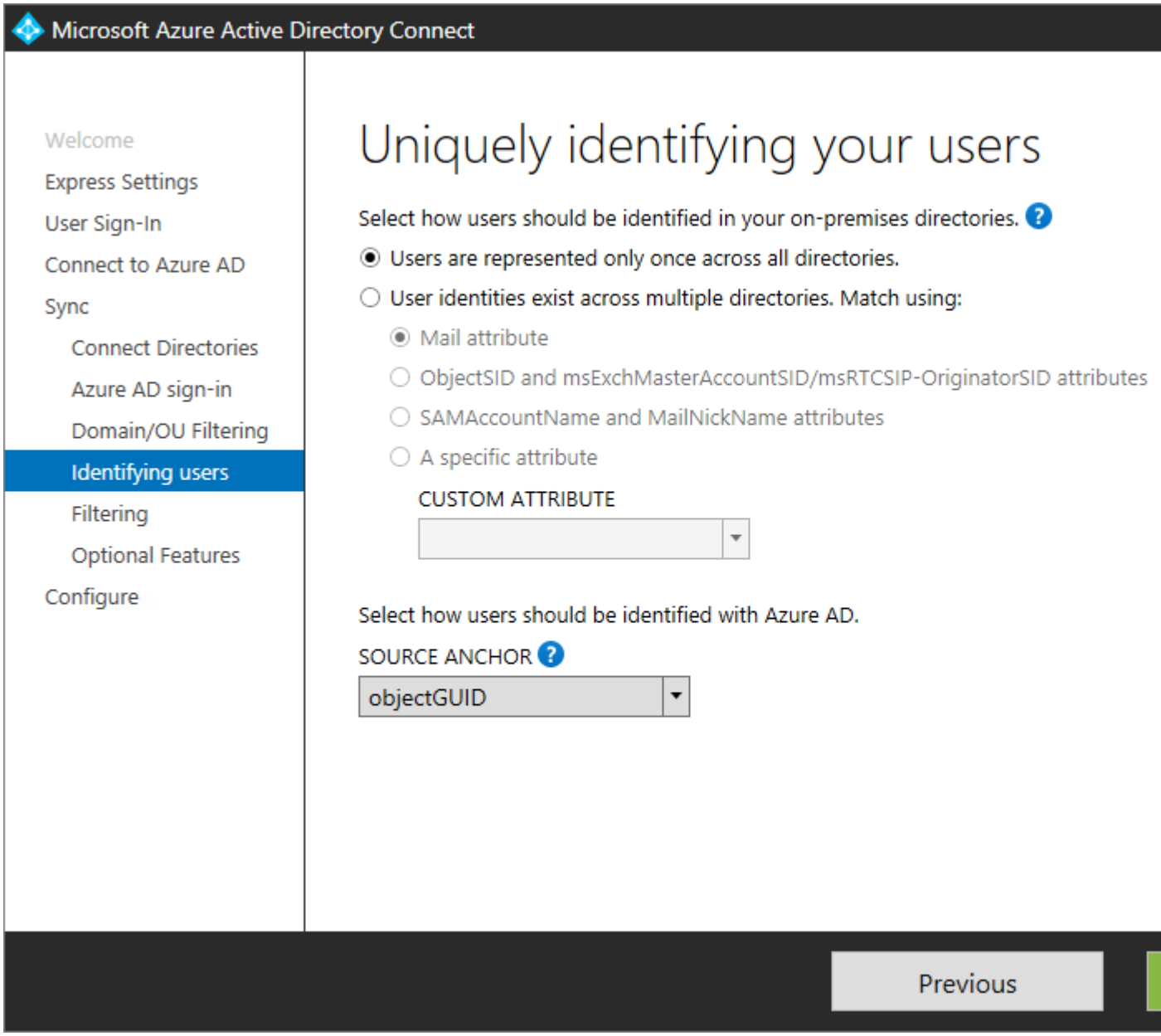

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Configure
Connect to Azure AD
Enter your Azure AD credentials:
USERNAME
[redacted]
PASSWORD
••••••••••
Previous

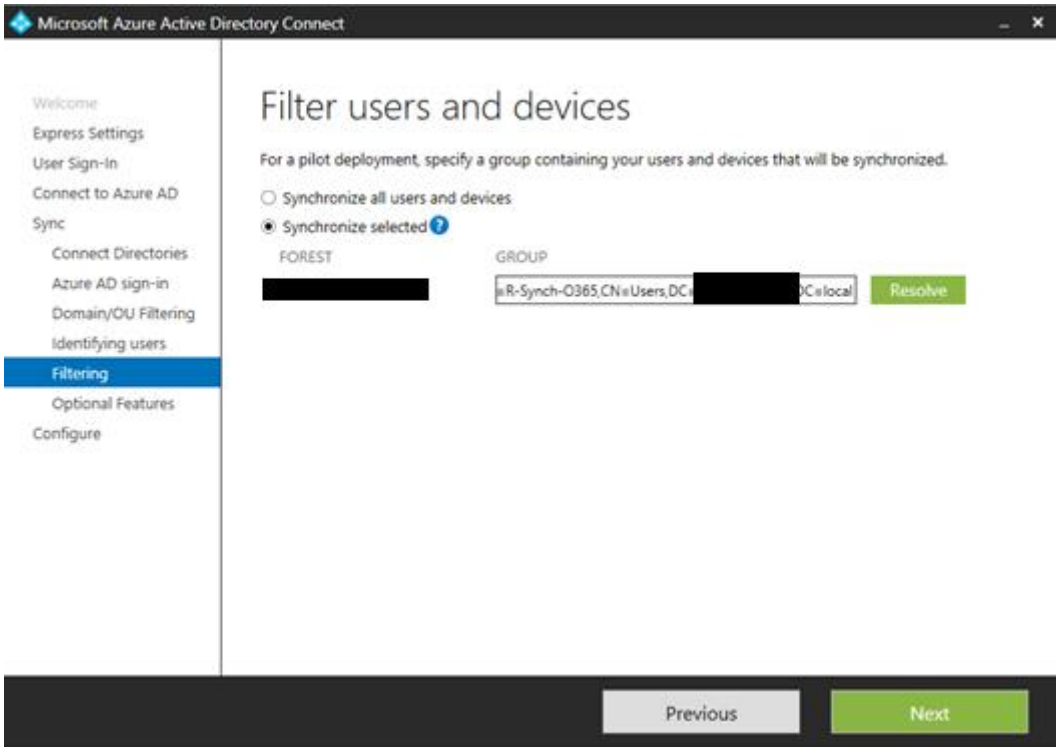

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Configure
Connect your directories
Enter connection information for your on-premises directories or forests:
DIRECTORY TYPE
Active Directory
FOREST
Datacenter-Flo.local
USERNAME
DCF\administrator
PASSWORD
Add Directory
CONFIGURED DIRECTORIES
Datacenter-Flo.local (Active Directory)
Previous

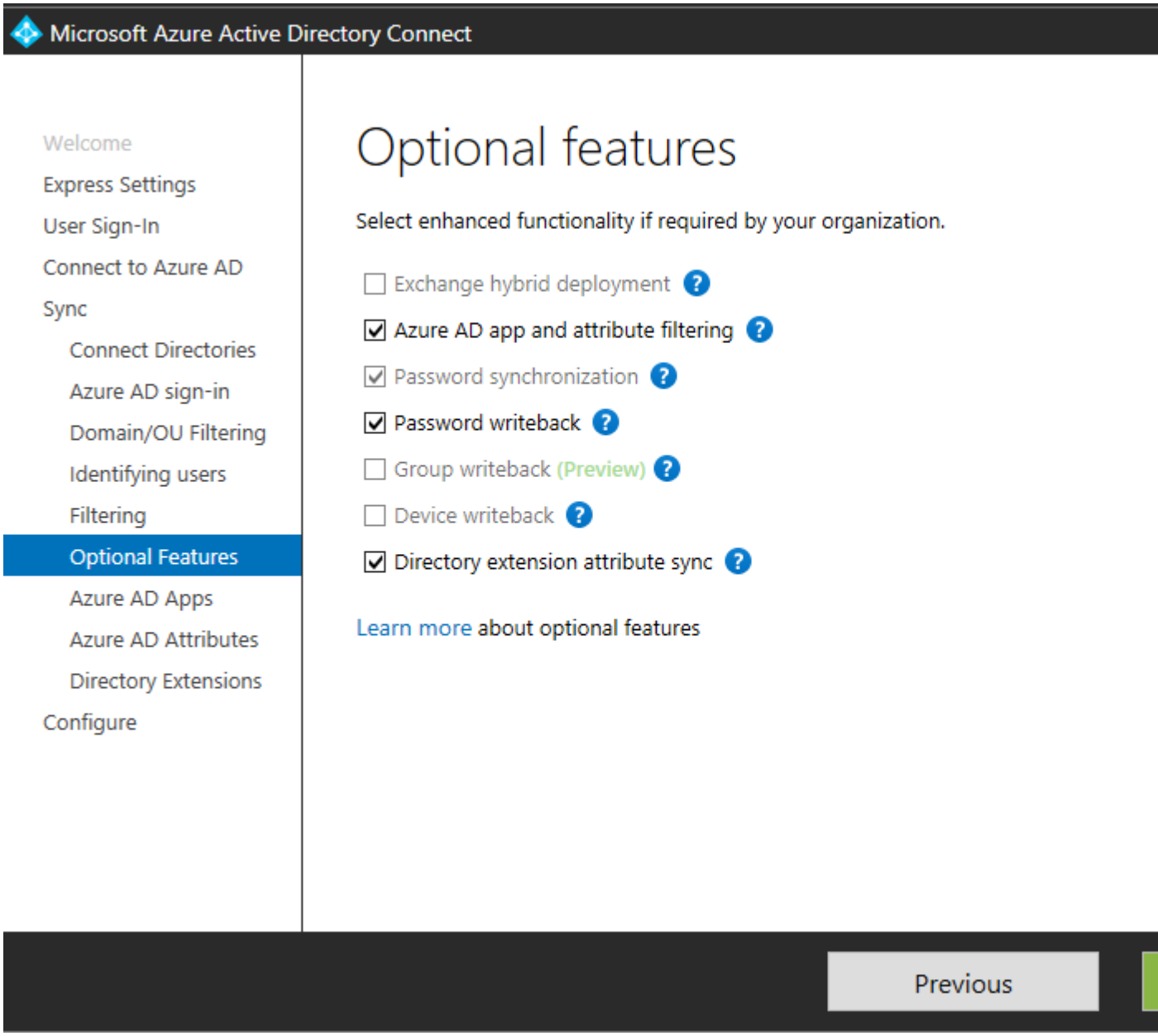

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Configure
Azure AD sign-in configuration
To use on-premises credentials for Azure AD sign-in, UPN suffixes in username should match to one of the verified custom domains in Azure AD. The following table lists the UPN suffixes defined in your on-premises environment, along with the matching custom domain in Azure.
Active Directory UPN Suffix
Azure AD Domain
Not Added
Select the on-premises attribute to use as the Azure AD username
USER PRINCIPAL NAME
userPrincipalName
textEncodedORAddress
title
treeName
unicodePwd
unixHomeDirectory
userParameters
userPrincipalName
userSharedFolder
userWorkstations
whenCreated
wWWHomePage
their on-premises credentials.
Previous
Next

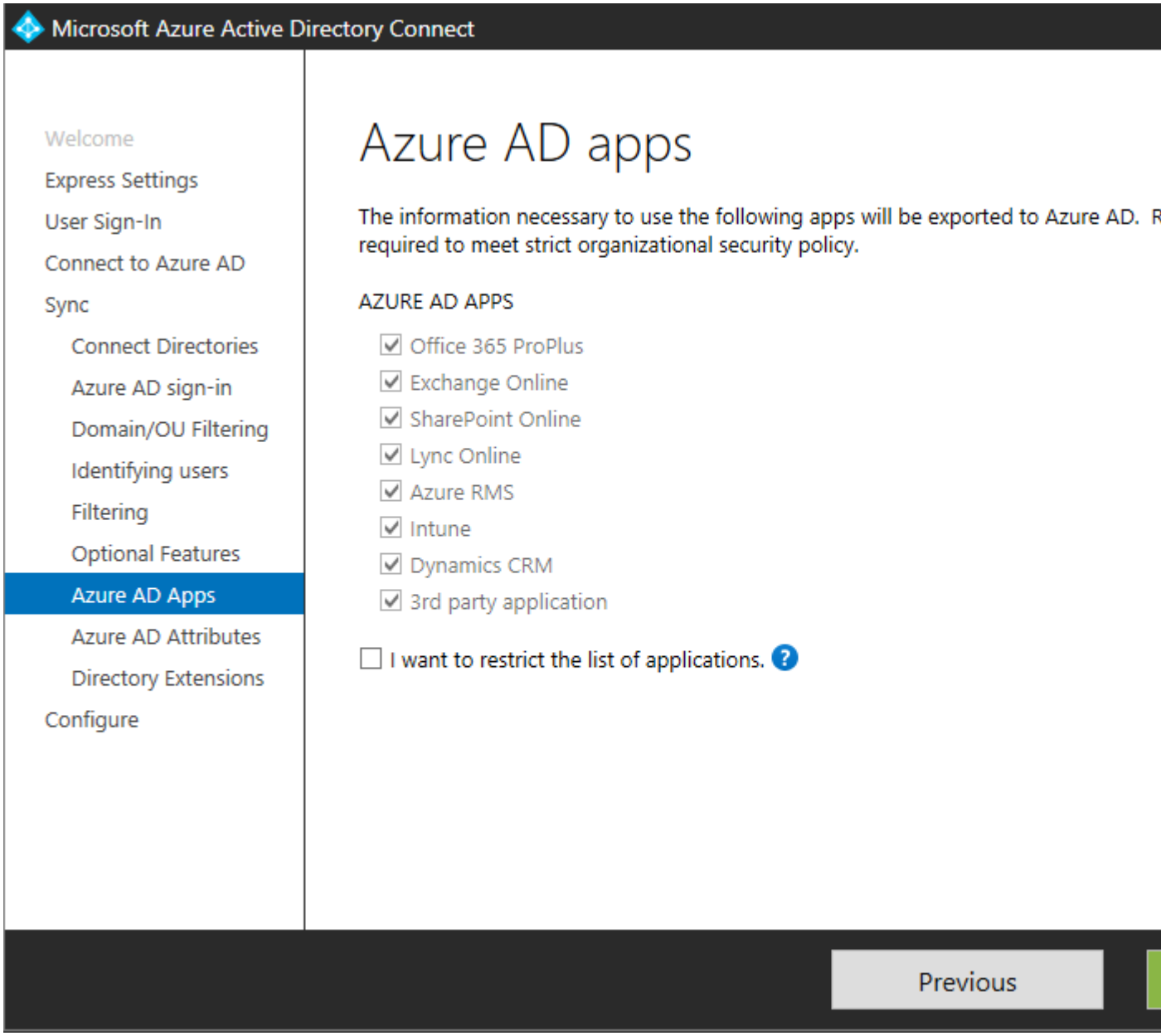

Do you use a top leve
Directory Domain
(example: co
No
Are you ok with
@company.onmicrosoft.com
as primary mail and login in
Azure AD?
No
Yes
Choose Mail
Choose User P

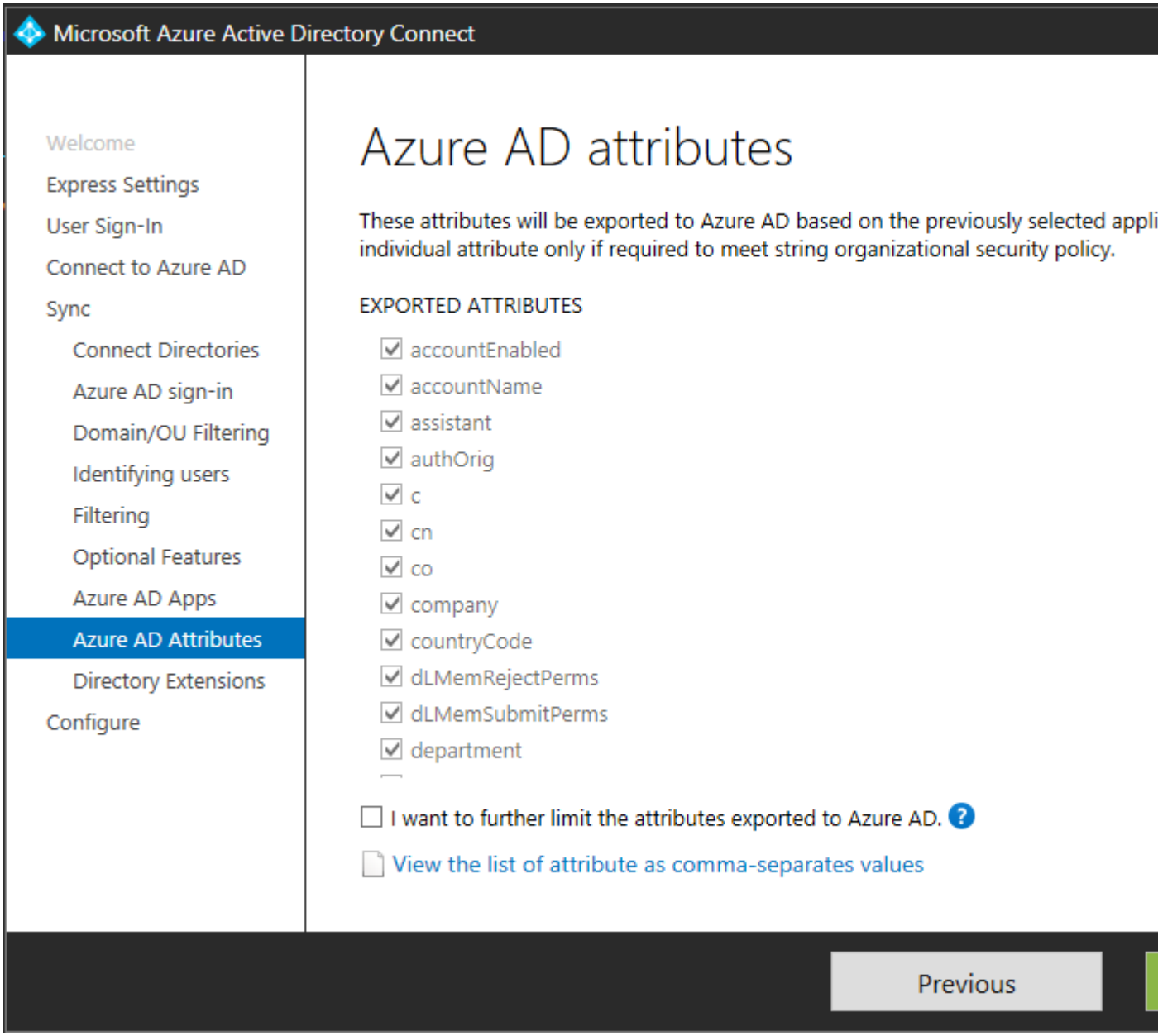

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Configure
Domain and OU filtering
Directory:
Refresh Ou/Domain
Sync all domains and OUs
Sync selected domains and OUs
Datacenter-Flo.local
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
Infrastructure
LostAndFound
Managed Service Accounts
NTDS Quotas
Program Data
System
Users
Configuration
Previous
Next

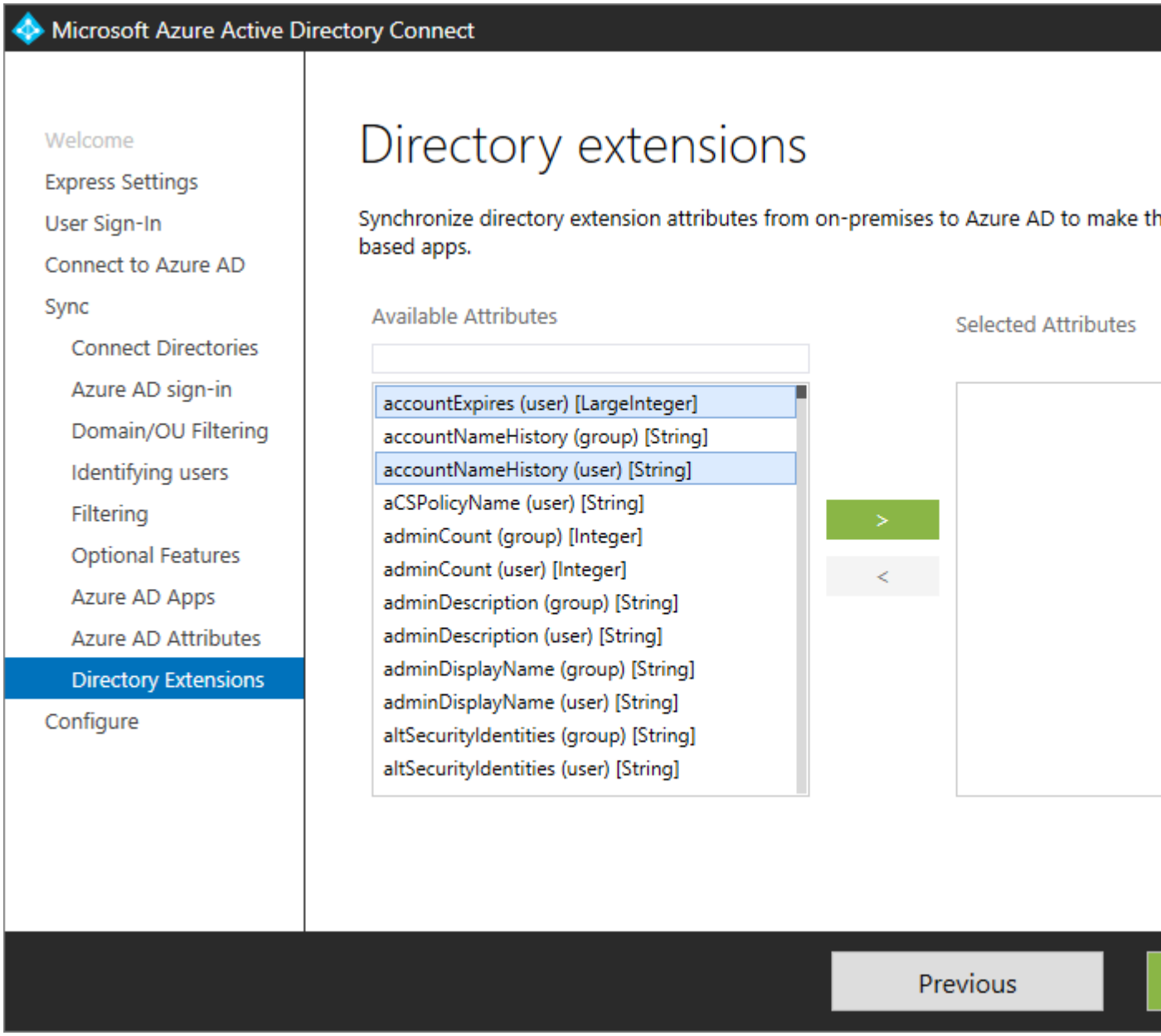

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Configure
Uniquely identifying your users
Select how users should be identified in your on-premises directories.
Users are represented only once across all directories.
User identities exist across multiple directories. Match using:
Mail attribute
ObjectSID and msExchMasterAccountSID/msRTCSIP-OriginatorSID attributes
SAMAccountName and MailNickName attributes
A specific attribute
CUSTOM ATTRIBUTE
Select how users should be identified with Azure AD.
SOURCE ANCHOR
objectGUID
Previous

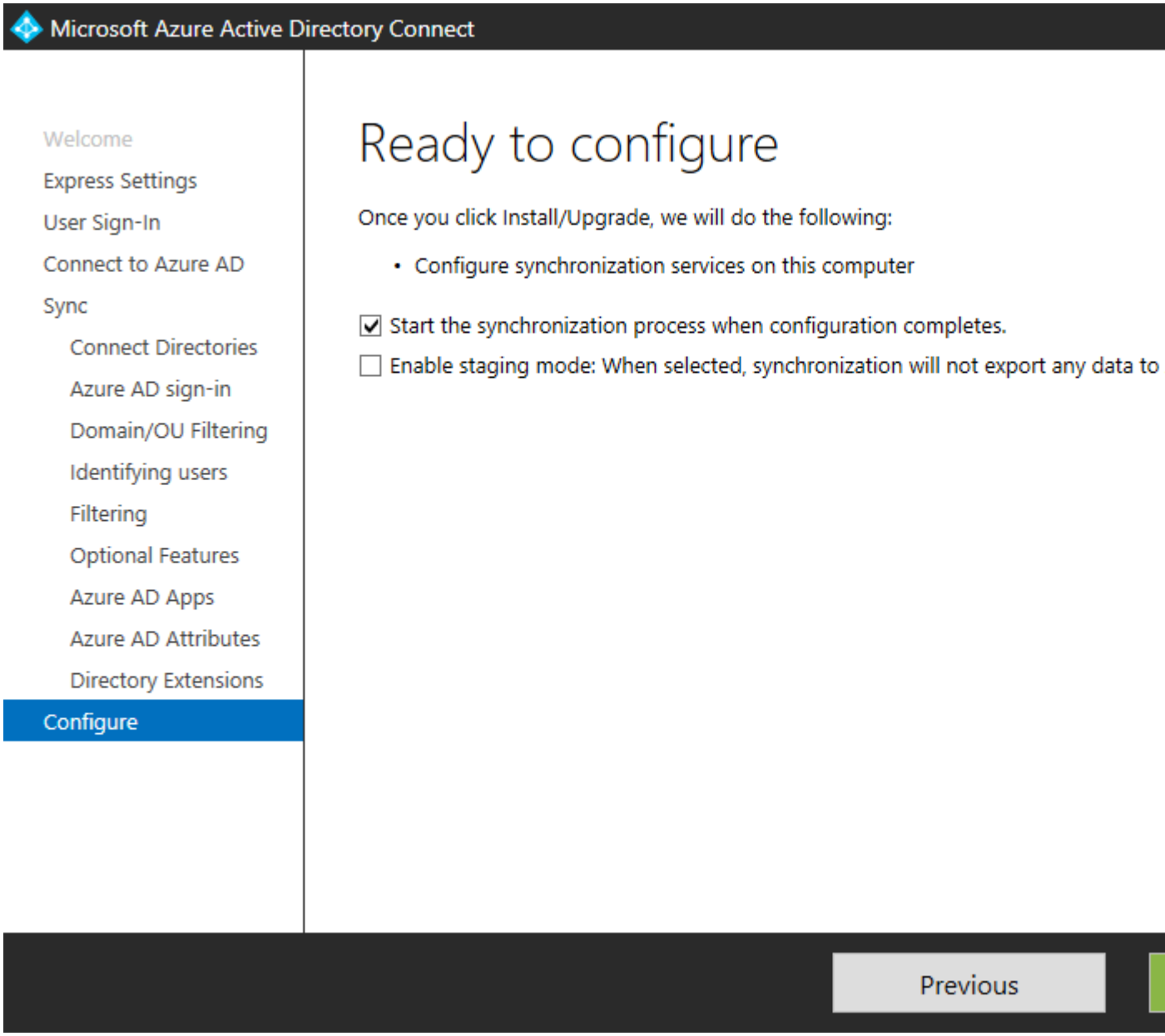

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Configure
Filter users and devices
For a pilot deployment, specify a group containing your users and devices that will be synchronized.
Synchronize all users and devices
Synchronize selected
FOREST
GROUP
[redacted]
R-Synch-O365,CN=Users,DC=[redacted]DC=local
Resolve
Previous
Next

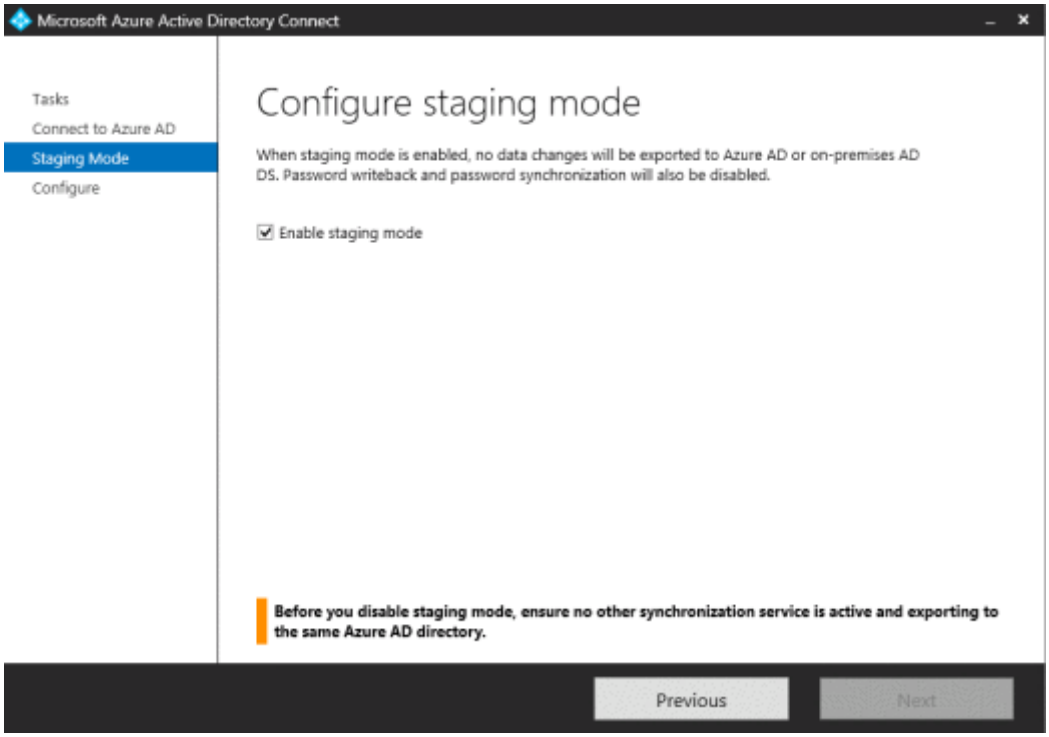

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Azure AD Apps
Azure AD Attributes
Directory Extensions
Configure
Optional features
Select enhanced functionality if required by your organization.
Exchange hybrid deployment
Azure AD app and attribute filtering
Password synchronization
Password writeback
Group writeback (Preview)
Device writeback
Directory extension attribute sync
Learn more about optional features
Previous

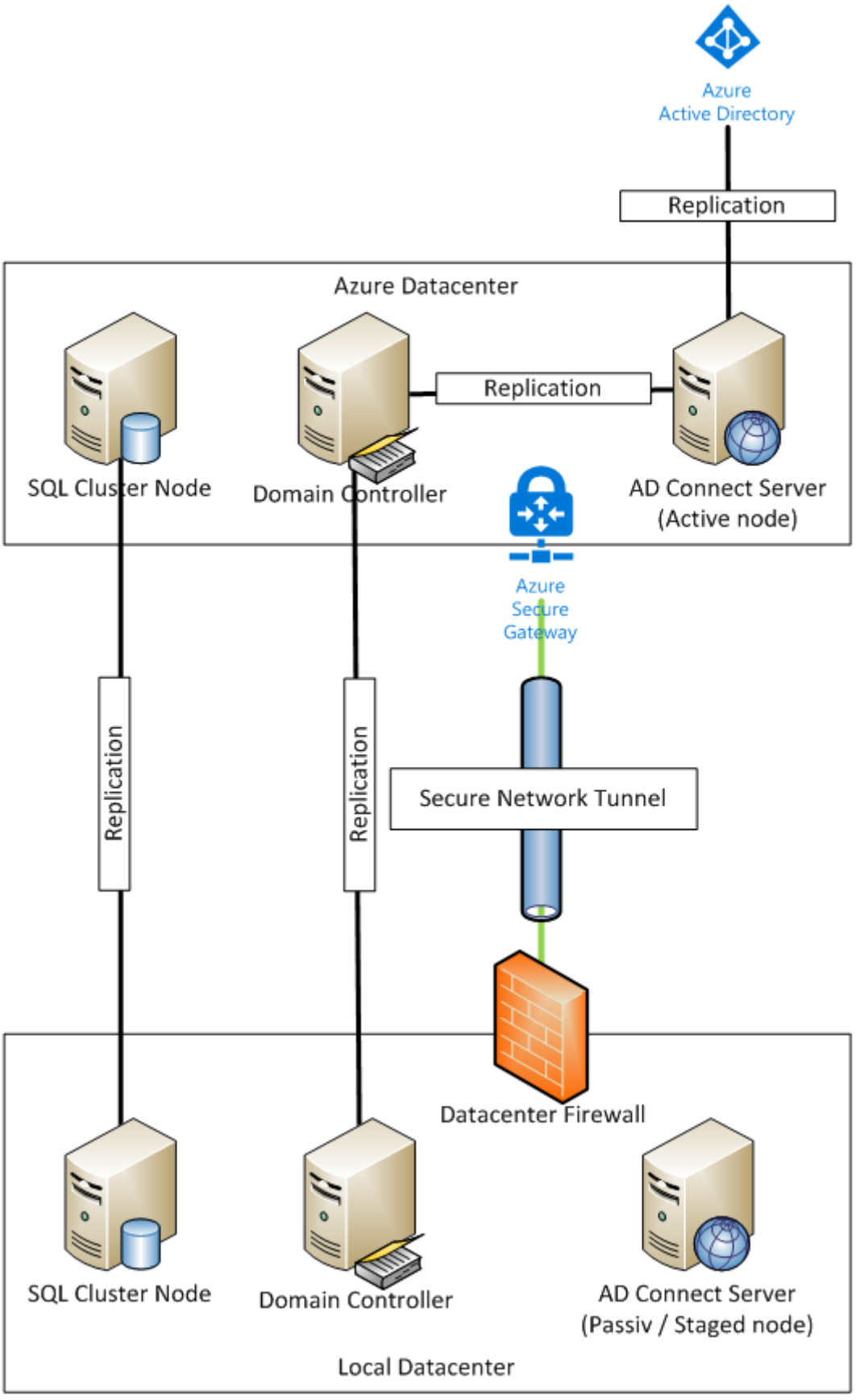

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Azure AD Apps
Azure AD Attributes
Directory Extensions
Configure
Azure AD apps
The information necessary to use the following apps will be exported to Azure AD. R
required to meet strict organizational security policy.
AZURE AD APPS
Office 365 ProPlus
Exchange Online
SharePoint Online
Lync Online
Azure RMS
Intune
Dynamics CRM
3rd party application
I want to restrict the list of applications.
Previous

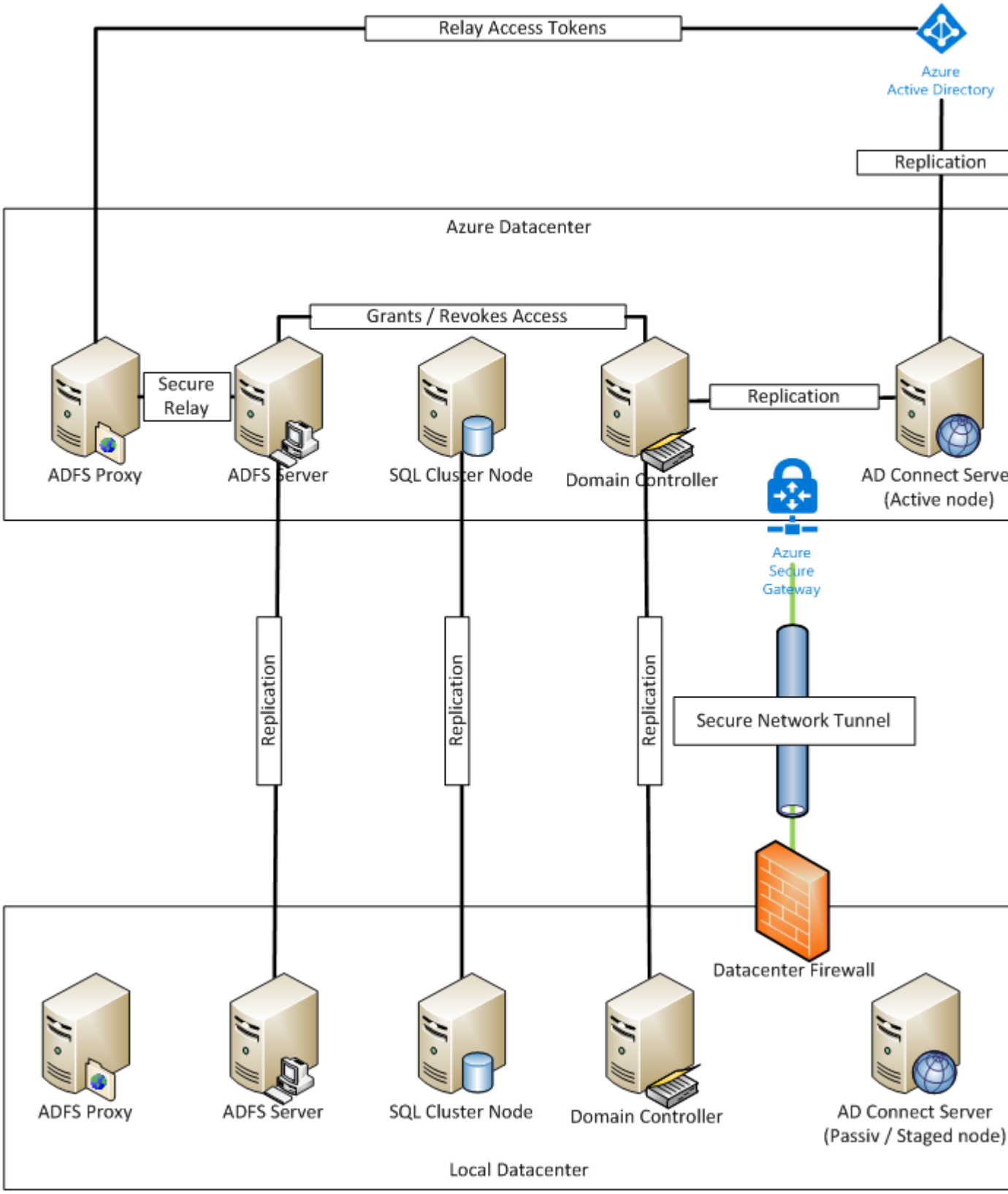

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Azure AD Apps
Azure AD Attributes
Directory Extensions
Configure
Azure AD attributes
These attributes will be exported to Azure AD based on the previously selected appli
individual attribute only if required to meet string organizational security policy.
EXPORTED ATTRIBUTES
accountEnabled
accountName
assistant
authOrig
c
cn
co
company
countryCode
dLMemRejectPerms
dLMemSubmitPerms
department
I want to further limit the attributes exported to Azure AD.
View the list of attribute as comma-separates values
Previous


Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Azure AD Apps
Azure AD Attributes
Directory Extensions
Configure
Directory extensions
Synchronize directory extension attributes from on-premises to Azure AD to make th
based apps.
Available Attributes
Selected Attributes
accountExpires (user) [LargeInteger]
accountNameHistory (group) [String]
accountNameHistory (user) [String]
aCSPolicyName (user) [String]
adminCount (group) [Integer]
adminCount (user) [Integer]
adminDescription (group) [String]
adminDescription (user) [String]
adminDisplayName (group) [String]
adminDisplayName (user) [String]
altSecurityIdentities (group) [String]
altSecurityIdentities (user) [String]
>
<
Previous

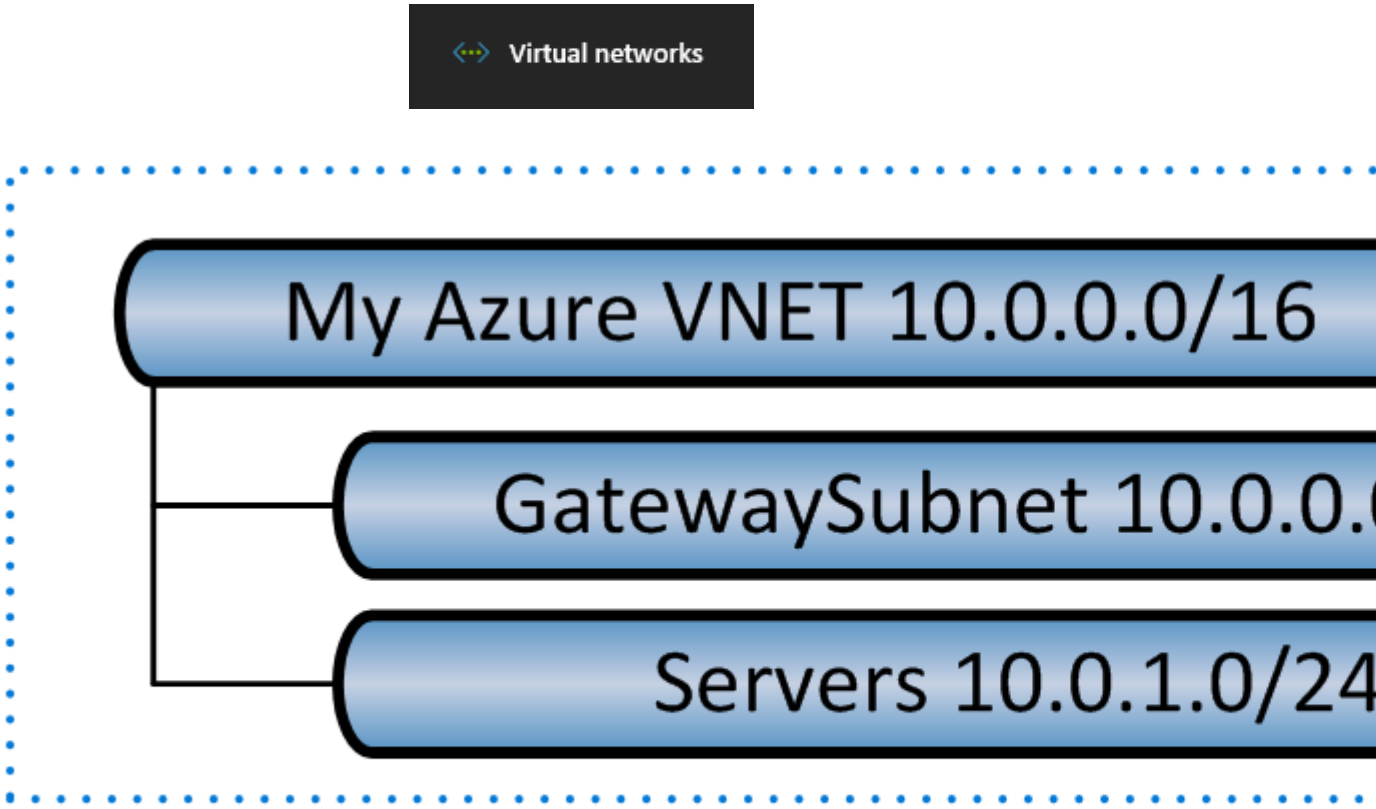

Microsoft Azure Active Directory Connect
Welcome
Express Settings
User Sign-In
Connect to Azure AD
Sync
Connect Directories
Azure AD sign-in
Domain/OU Filtering
Identifying users
Filtering
Optional Features
Azure AD Apps
Azure AD Attributes
Directory Extensions
Configure
Ready to configure
Once you click Install/Upgrade, we will do the following:
• Configure synchronization services on this computer
Start the synchronization process when configuration completes.
Enable staging mode: When selected, synchronization will not export any data to
Previous

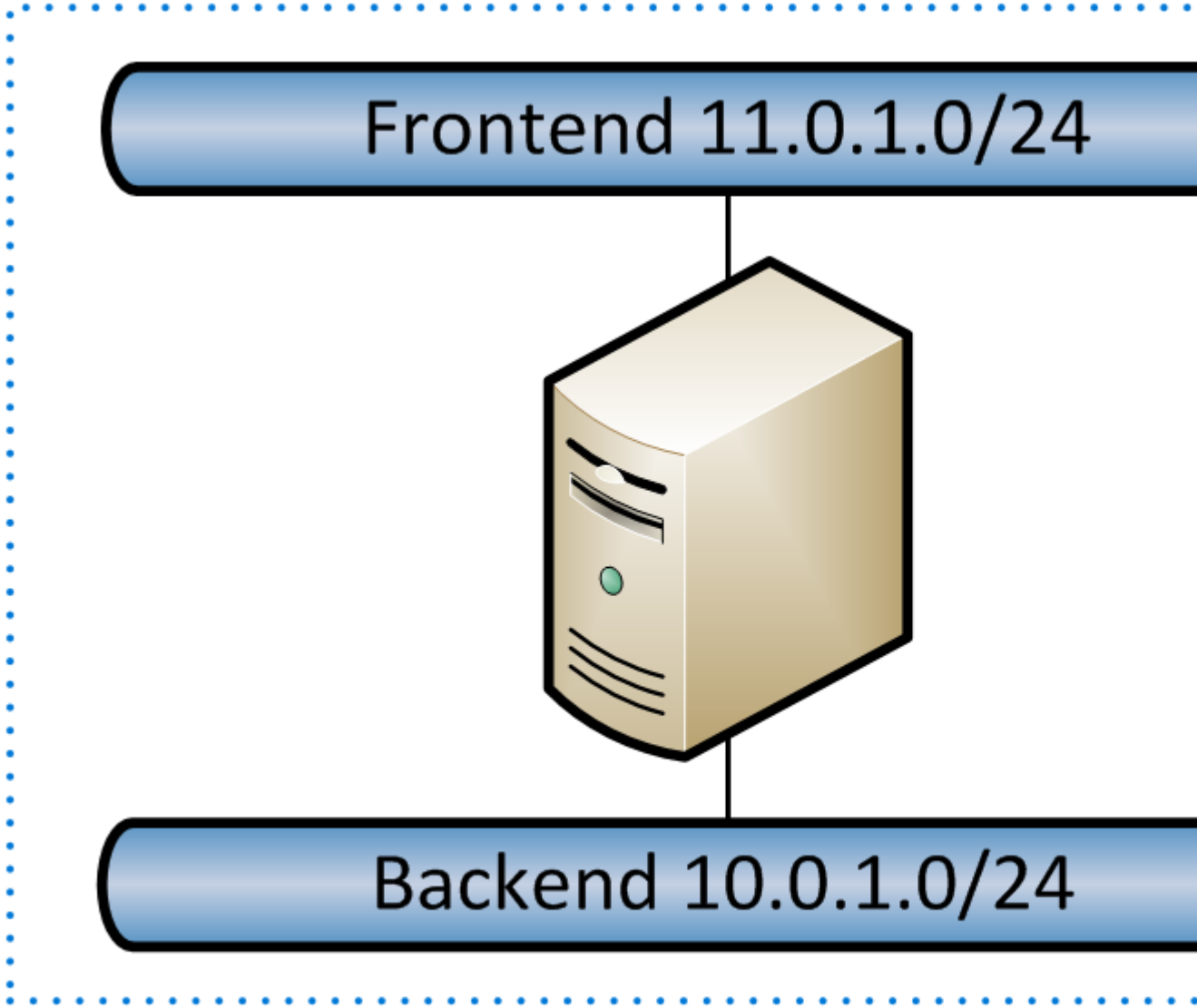

Microsoft Azure Active Directory Connect
Tasks
Connect to Azure AD
Staging Mode
Configure
Configure staging mode
When staging mode is enabled, no data changes will be exported to Azure AD or on-premises AD DS. Password writeback and password synchronization will also be disabled.
Enable staging mode
Before you disable staging mode, ensure no other synchronization service is active and exporting to the same Azure AD directory.
Previous
Next

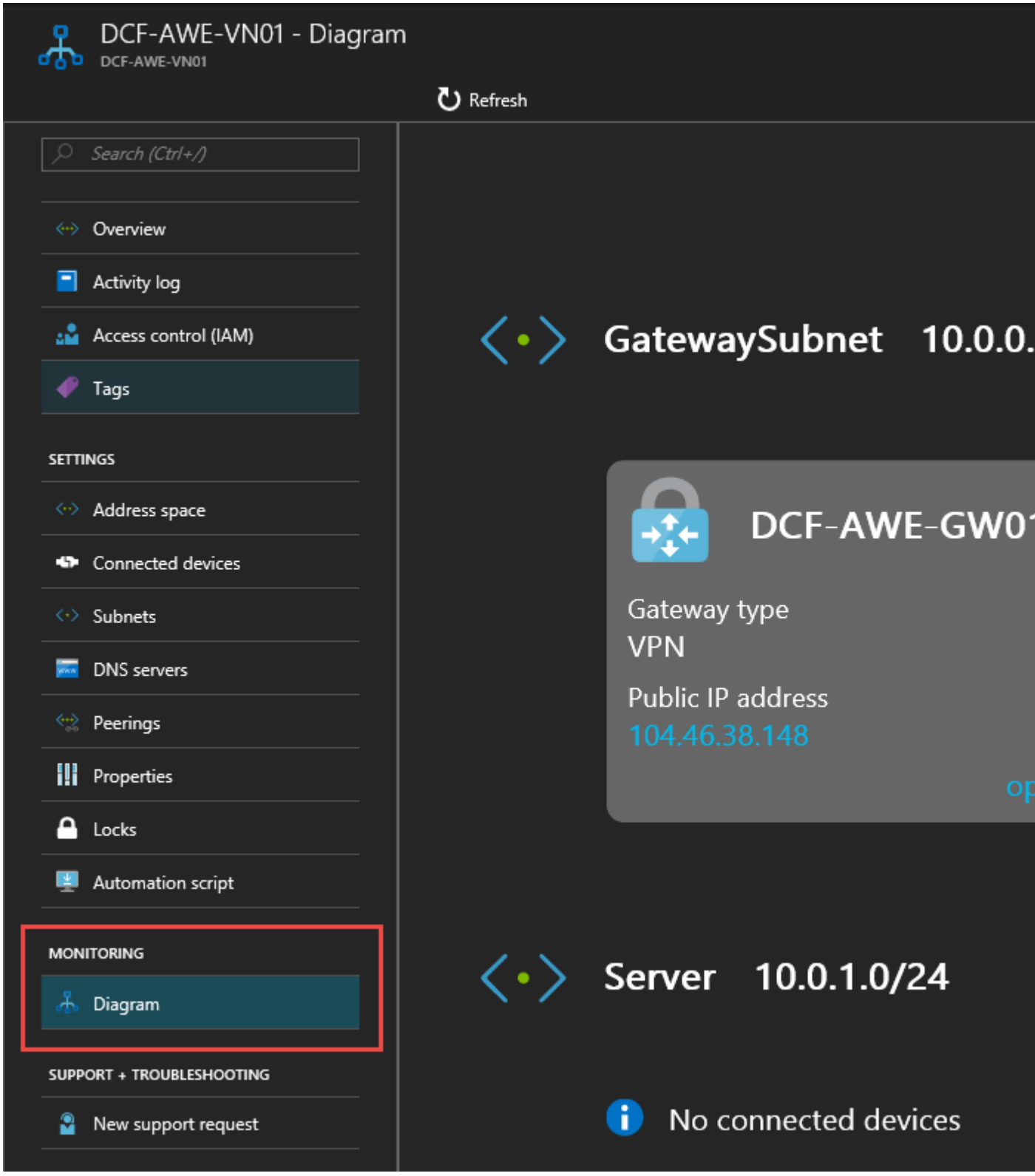

Azure
Active Directory
Replication
Azure Datacenter
SQL Cluster Node
Domain Controller
Replication
AD Connect Server
(Active node)
Azure
Secure
Gateway
Replication
Replication
Secure Network Tunnel
Datacenter Firewall
SQL Cluster Node
Domain Controller
AD Connect Server
(Passiv / Staged node)
Local Datacenter


Relay Access Tokens
Azure
Active Directory
Replication
Azure Datacenter
Grants / Revokes Access
Secure
Relay
Replication
ADFS Proxy
ADFS Server
SQL Cluster Node
Domain Controller
AD Connect Server
(Active node)
Azure
Secure
Gateway
Replication
Replication
Replication
Secure Network Tunnel
Datacenter Firewall
ADFS Proxy
ADFS Server
SQL Cluster Node
Domain Controller
AD Connect Server
(Passiv / Staged node)
Local Datacenter

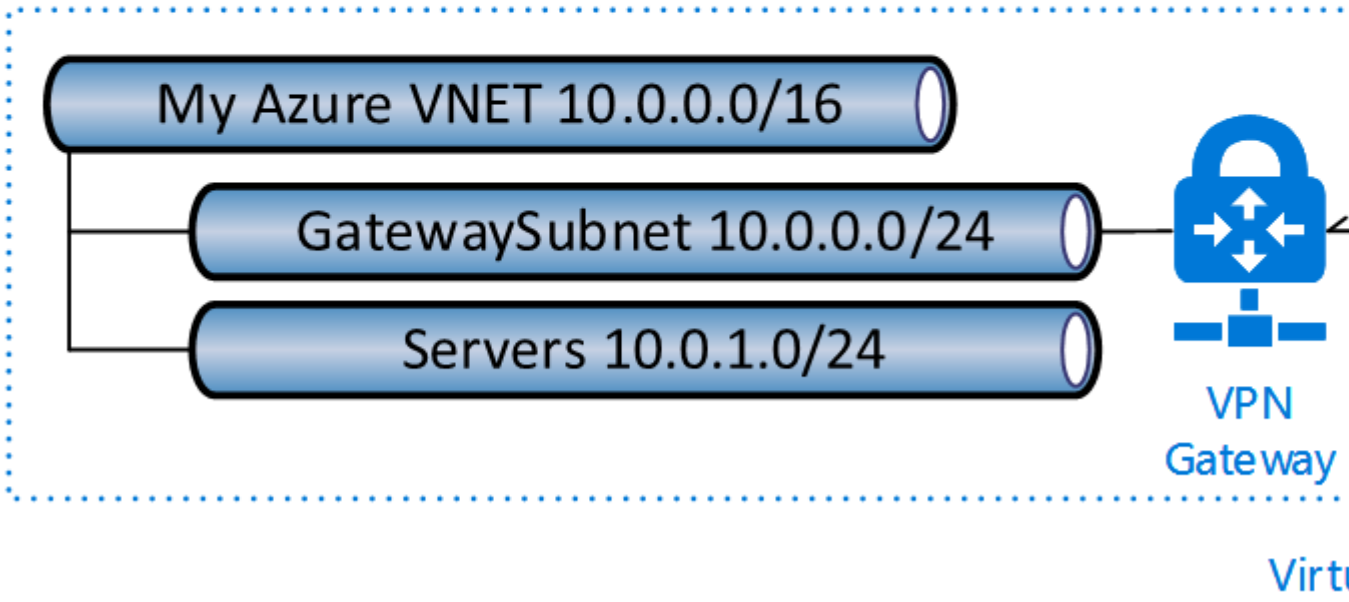
Chapter 4: Implementing Azure Networks

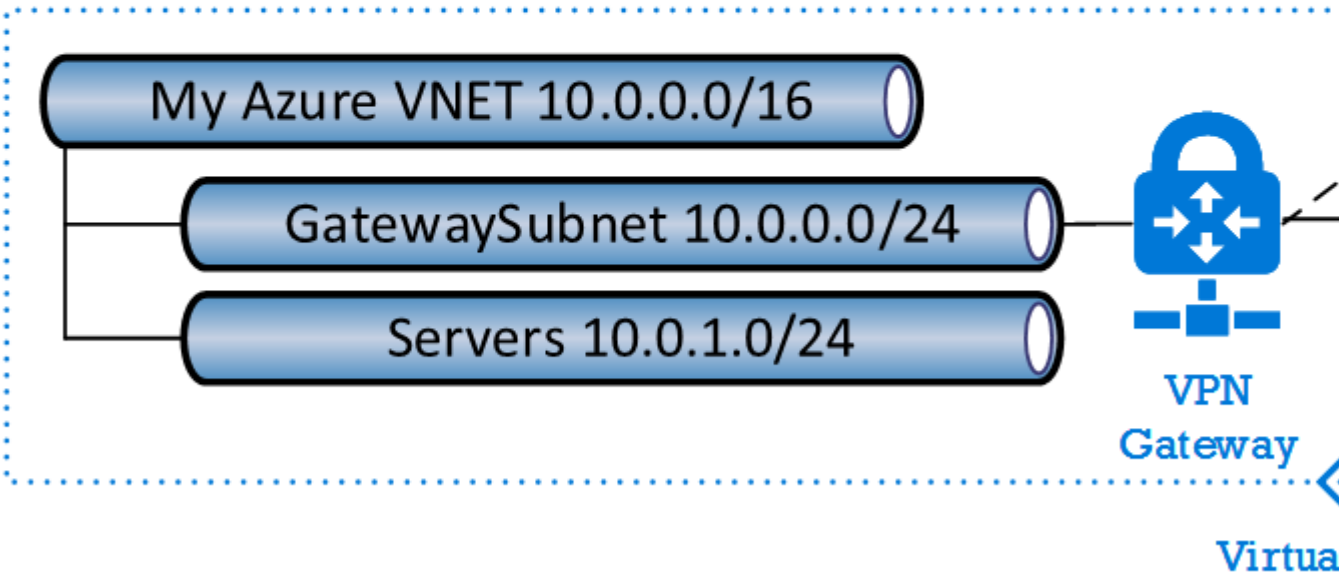


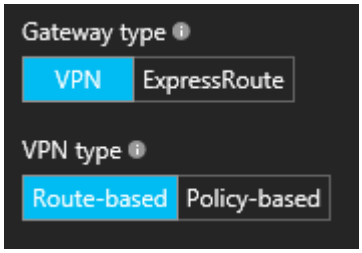

Frontend 11.0.1.0/24
Backend 10.0.1.0/24

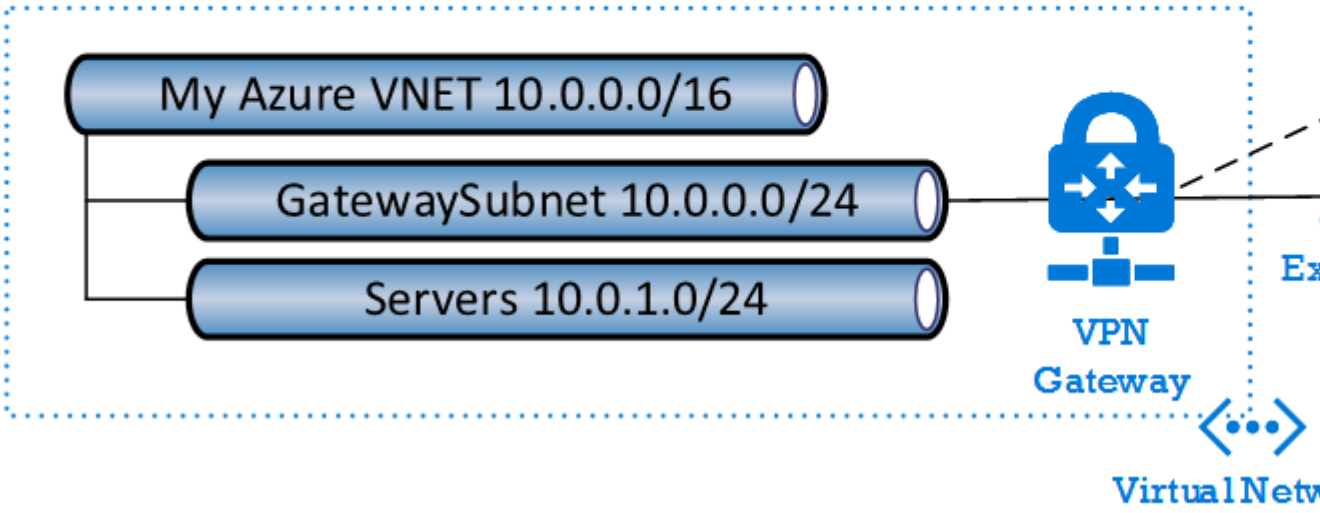


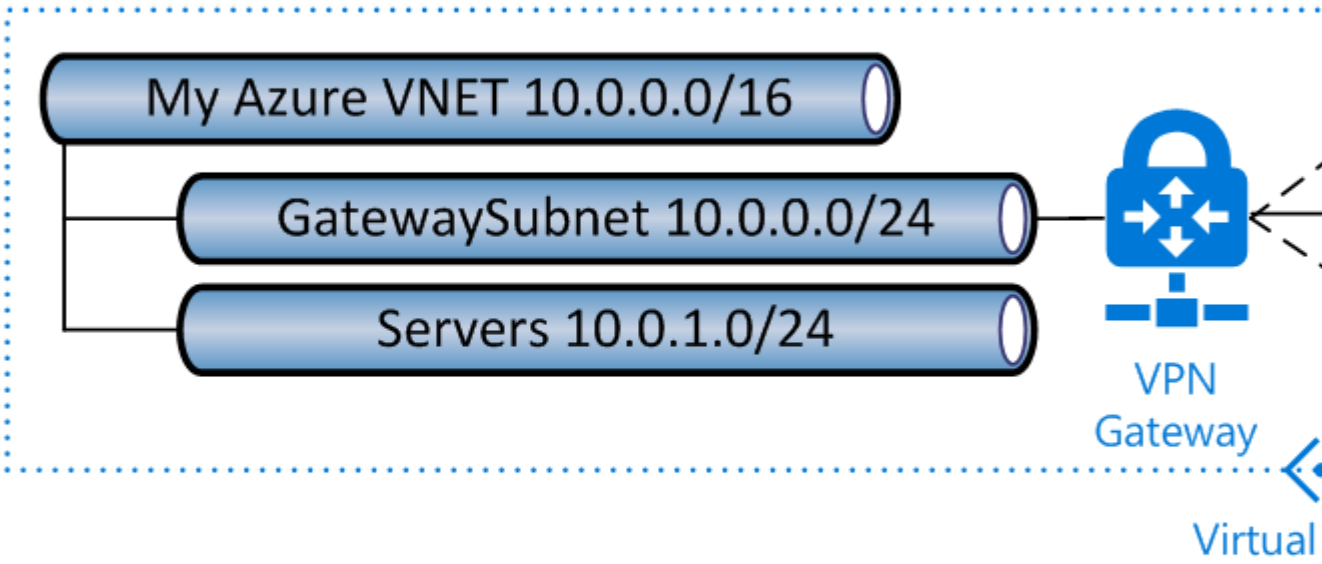
Virtual network gateways

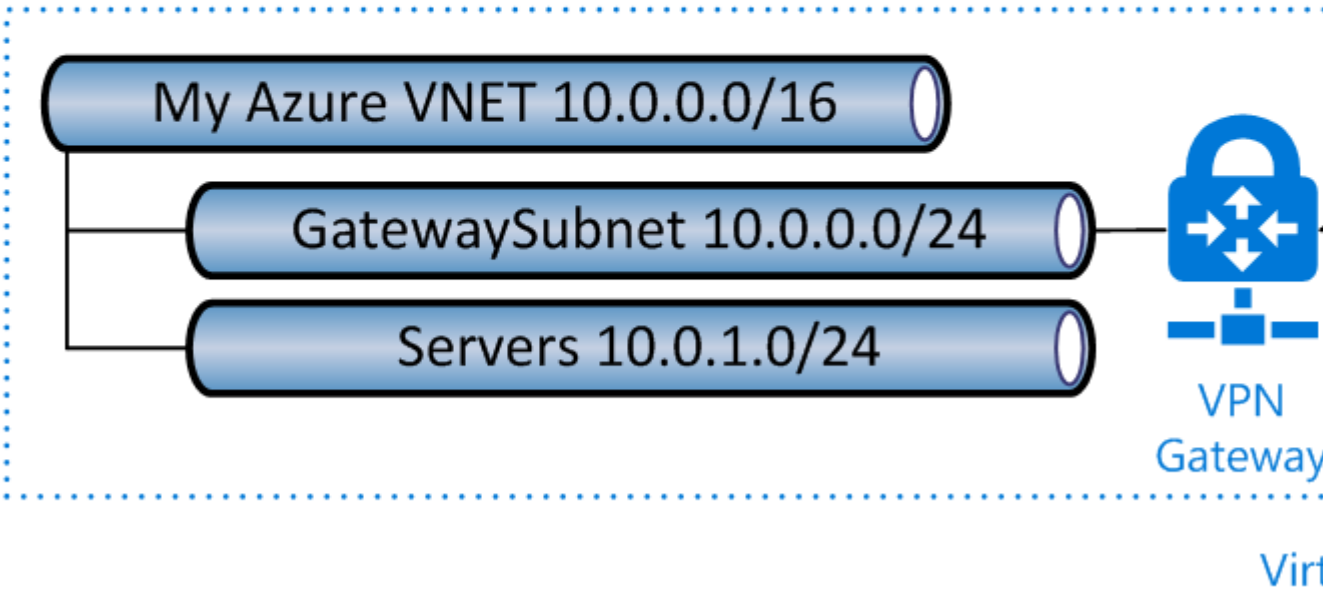

My Azure VNET 10.0.0.0/16
GatewaySubnet 10.0.0.0/24
Servers 10.0.1.0/24
VPN
Gateway
Virt

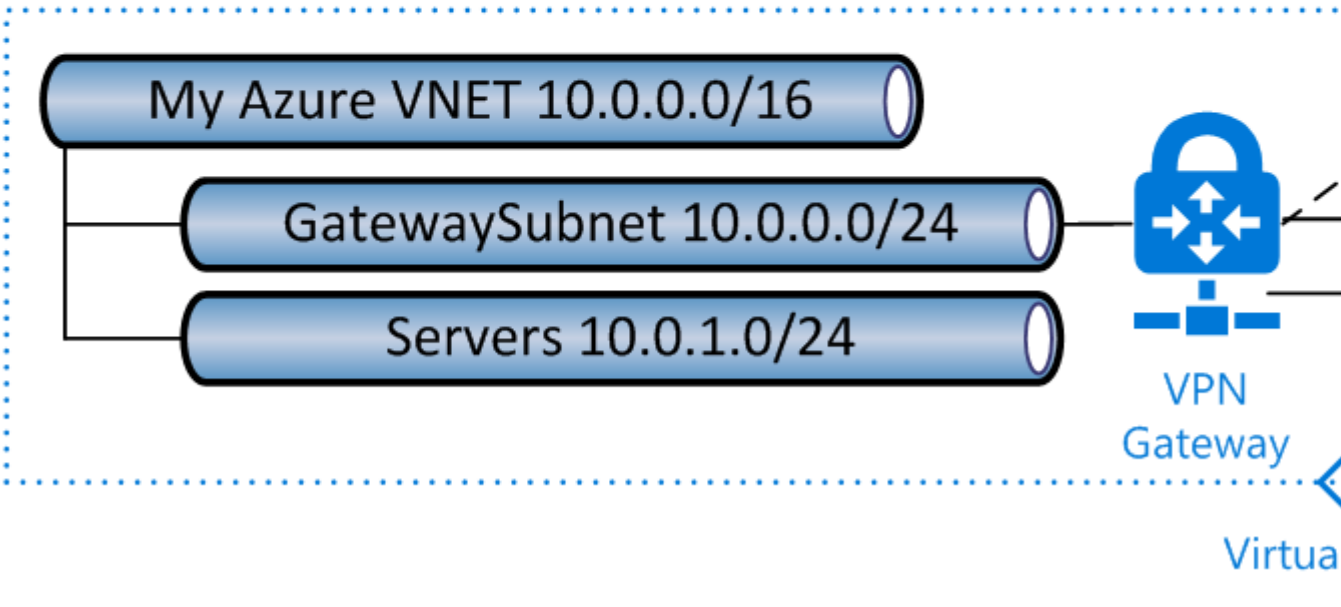

My Azure VNET 10.0.0.0/16
GatewaySubnet 10.0.0.0/24
Servers 10.0.1.0/24
VPN
Gateway
Virtua


Gateway type
VPN
ExpressRoute
VPN type
Route-based
Policy-based

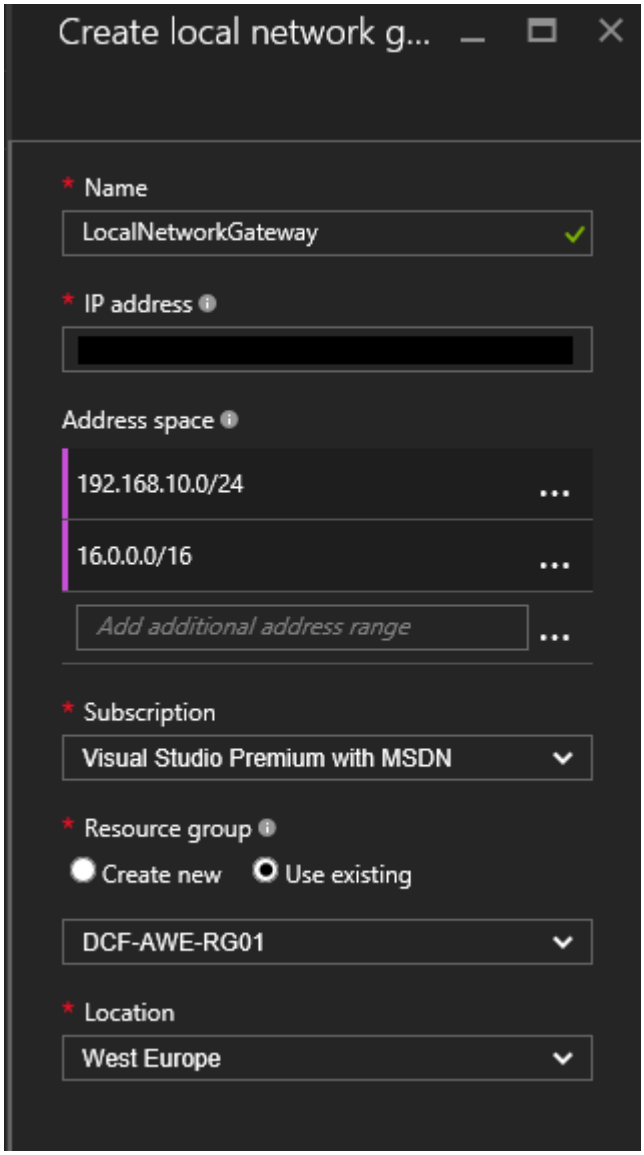

My Azure VNET 10.0.0.0/16
GatewaySubnet 10.0.0.0/24
Servers 10.0.1.0/24
VPN
Gateway
Ex
VirtualNetw

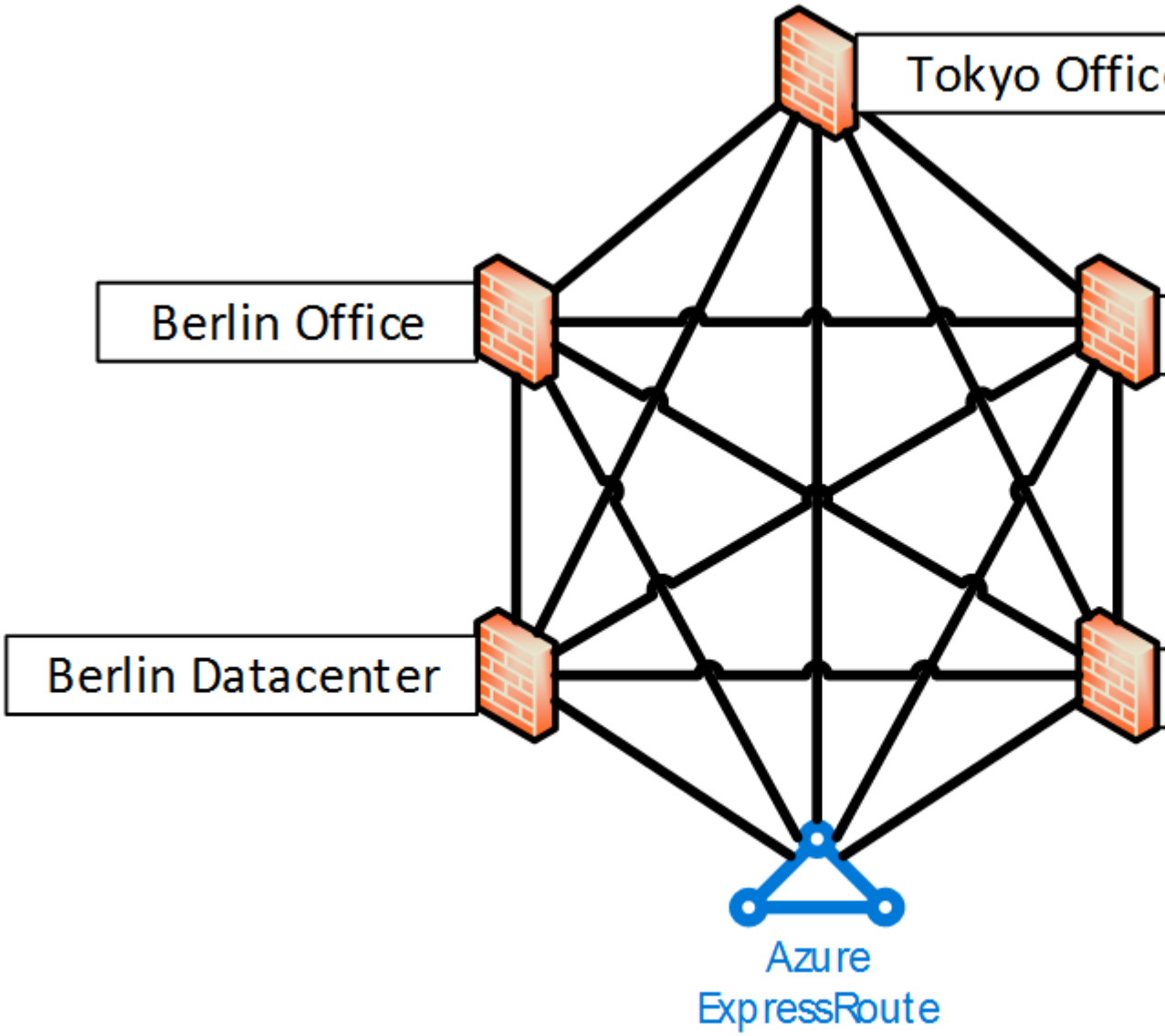

My Azure VNET 10.0.0.0/16
GatewaySubnet 10.0.0.0/24
Servers 10.0.1.0/24
VPN
Gateway
Virtual

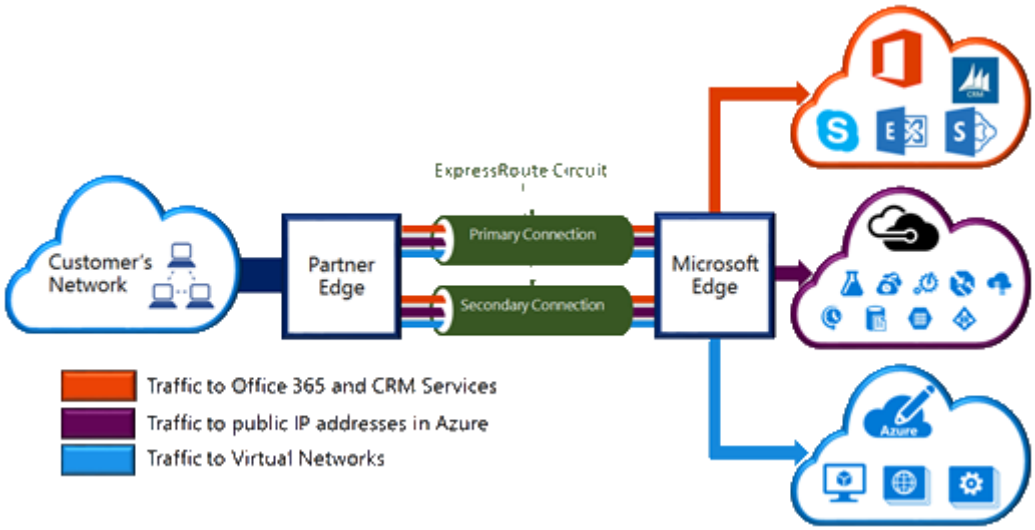

My Azure VNET 10.0.0.0/16
GatewaySubnet 10.0.0.0/24
Servers 10.0.1.0/24
VPN
Gateway
Virt

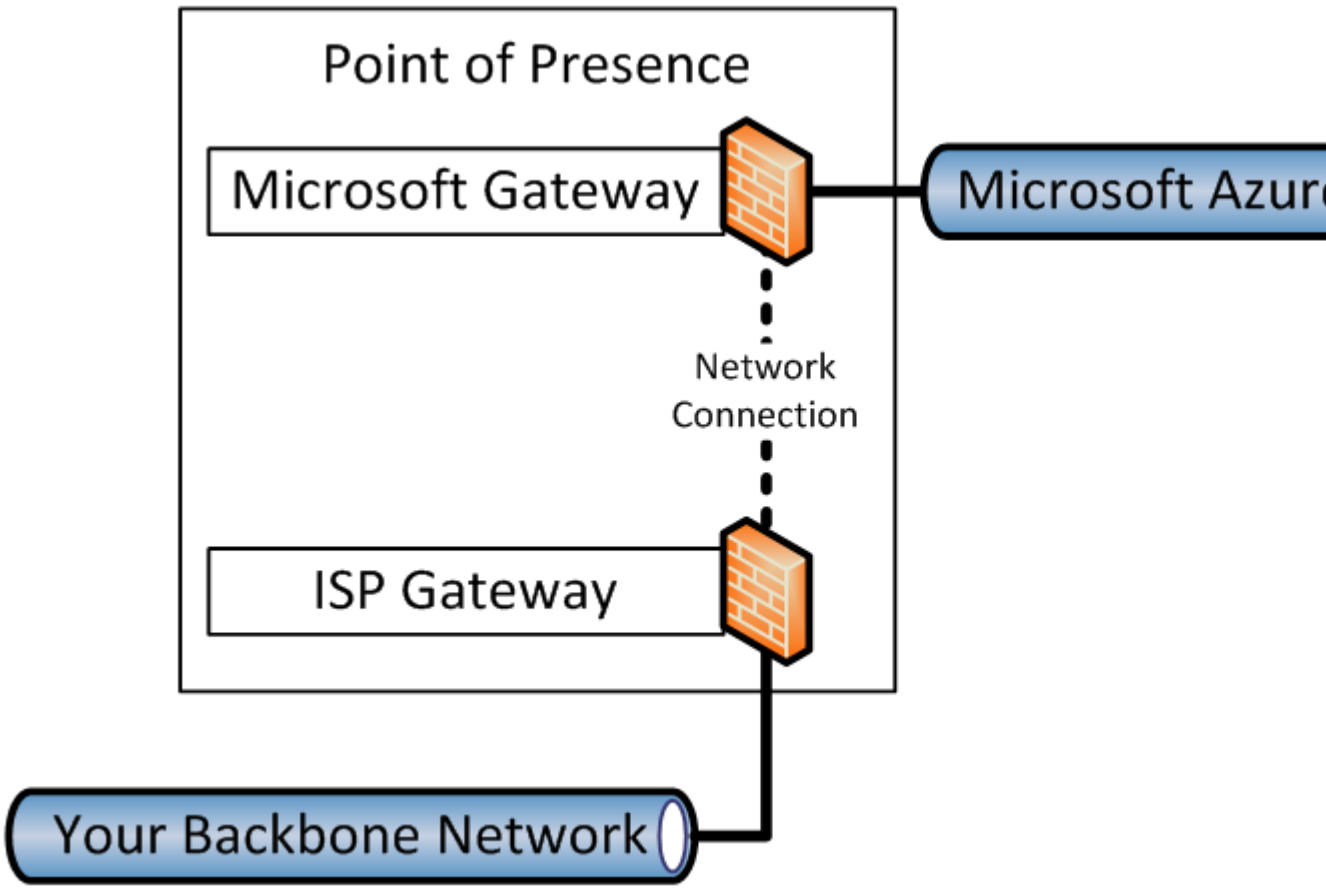


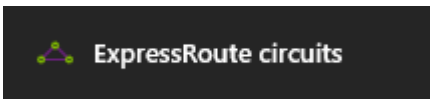
Local network gateways

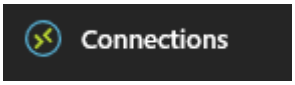

Create local network g...
* Name
LocalNetworkGateway
* IP address
Address space
192.168.10.0/24
16.0.0.0/16
Add additional address range
* Subscription
Visual Studio Premium with MSDN
* Resource group
Create new
Use existing
DCF-AWE-RG01
* Location
West Europe

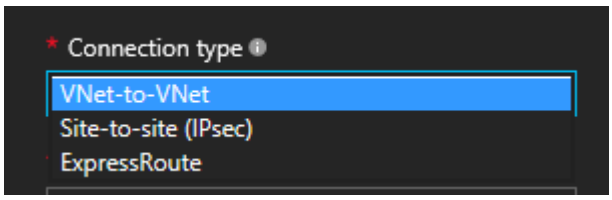

Tokyo Offic
Berlin Office
Berlin Datacenter
Azure
ExpressRoute

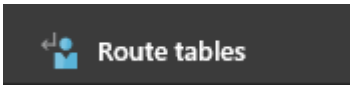

ExpressRoute Circuit
Customer's Network
Partner Edge
Primary Connection
Secondary Connection
Microsoft Edge
Azure
Traffic to Office 365 and CRM Services
Traffic to public IP addresses in Azure
Traffic to Virtual Networks

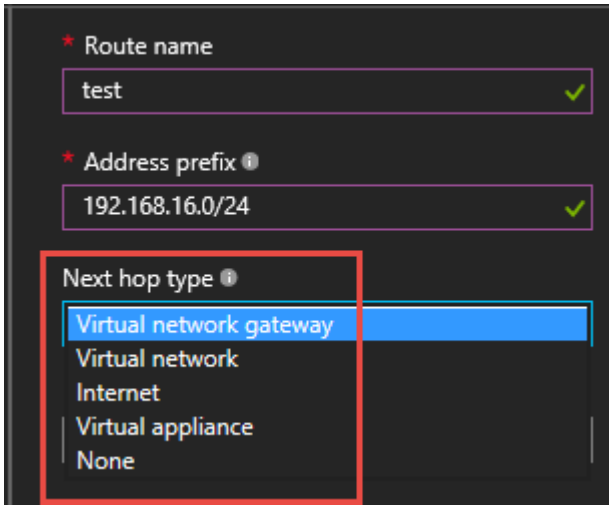

Point of Presence
Microsoft Gateway
Microsoft Azur
Network
Connection
ISP Gateway
Your Backbone Network

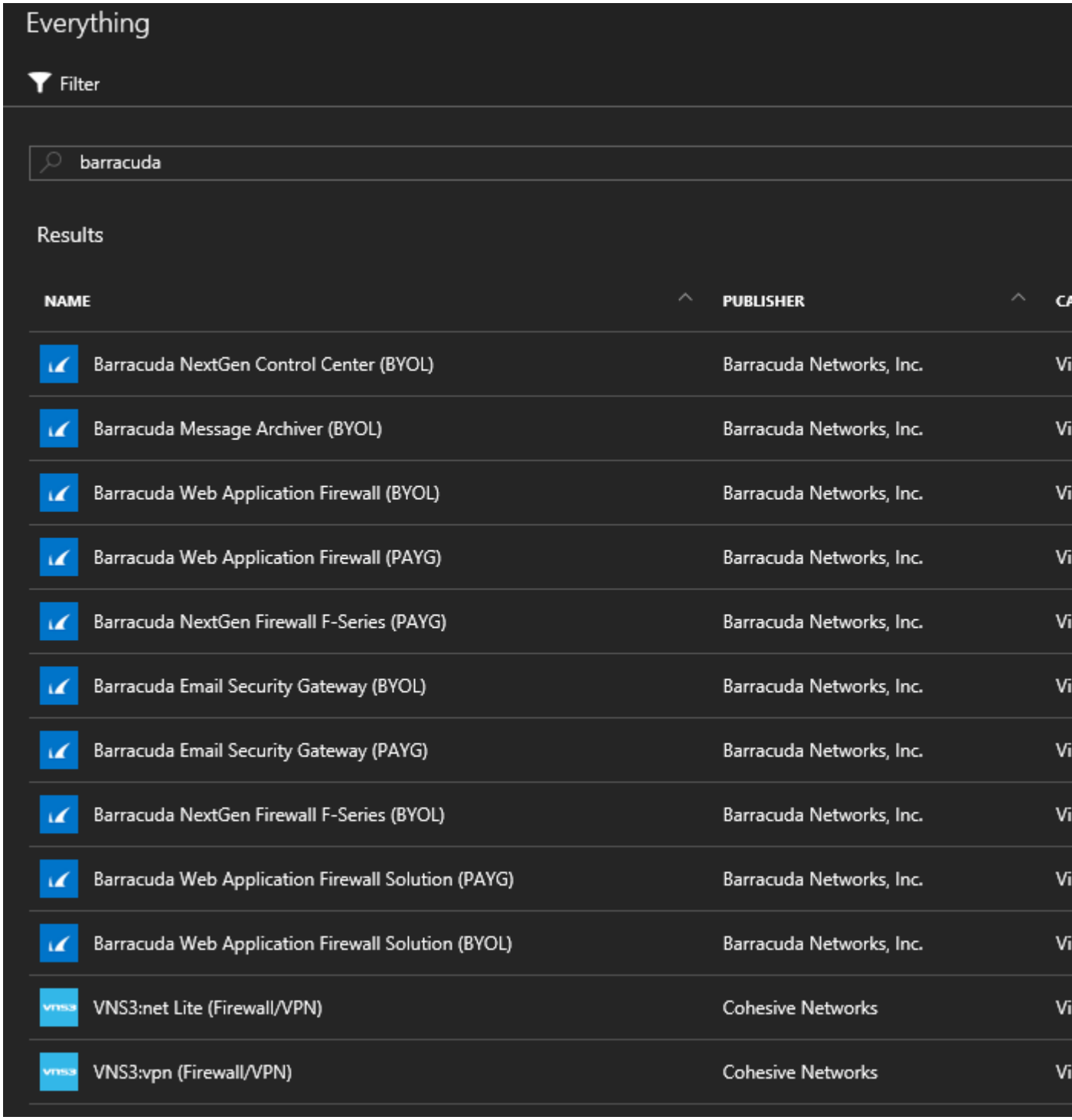

ExpressRoute circuits

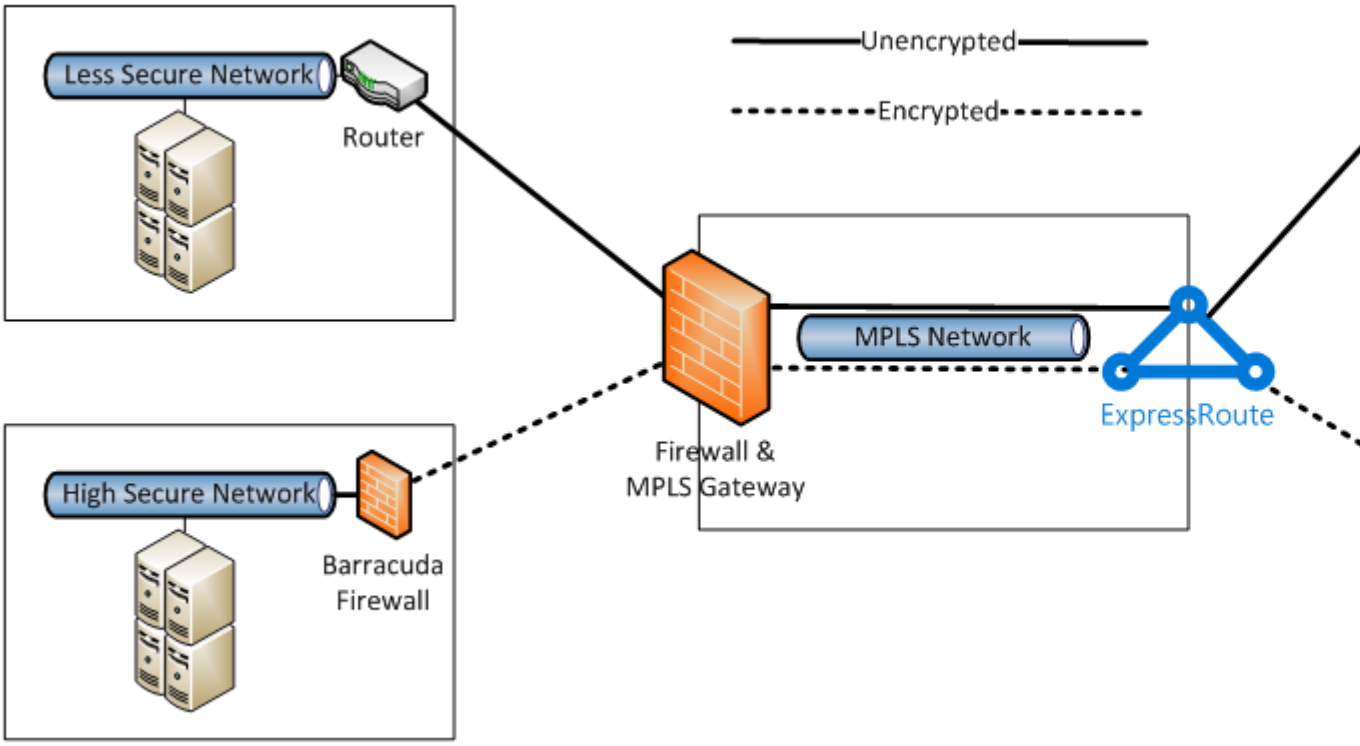

Connections


Connection type
VNet-to-VNet
Site-to-site (IPsec)
ExpressRoute


Route tables


* Route name
test
* Address prefix
192.168.16.0/24
Next hop type
Virtual network gateway
Virtual network
Internet
Virtual appliance
None


Everything
Filter
barracuda
Results
NAME
PUBLISHER
Barracuda NextGen Control Center (BYOL)
Barracuda Networks, Inc.
Barracuda Message Archiver (BYOL)
Barracuda Networks, Inc.
Barracuda Web Application Firewall (BYOL)
Barracuda Networks, Inc.
Barracuda Web Application Firewall (PAYG)
Barracuda Networks, Inc.
Barracuda NextGen Firewall F-Series (PAYG)
Barracuda Networks, Inc.
Barracuda Email Security Gateway (BYOL)
Barracuda Networks, Inc.
Barracuda Email Security Gateway (PAYG)
Barracuda Networks, Inc.
Barracuda NextGen Firewall F-Series (BYOL)
Barracuda Networks, Inc.
Barracuda Web Application Firewall Solution (PAYG)
Barracuda Networks, Inc.
Barracuda Web Application Firewall Solution (BYOL)
Barracuda Networks, Inc.
VNS3:net Lite (Firewall/VPN)
Cohesive Networks
VNS3:vpn (Firewall/VPN)
Cohesive Networks

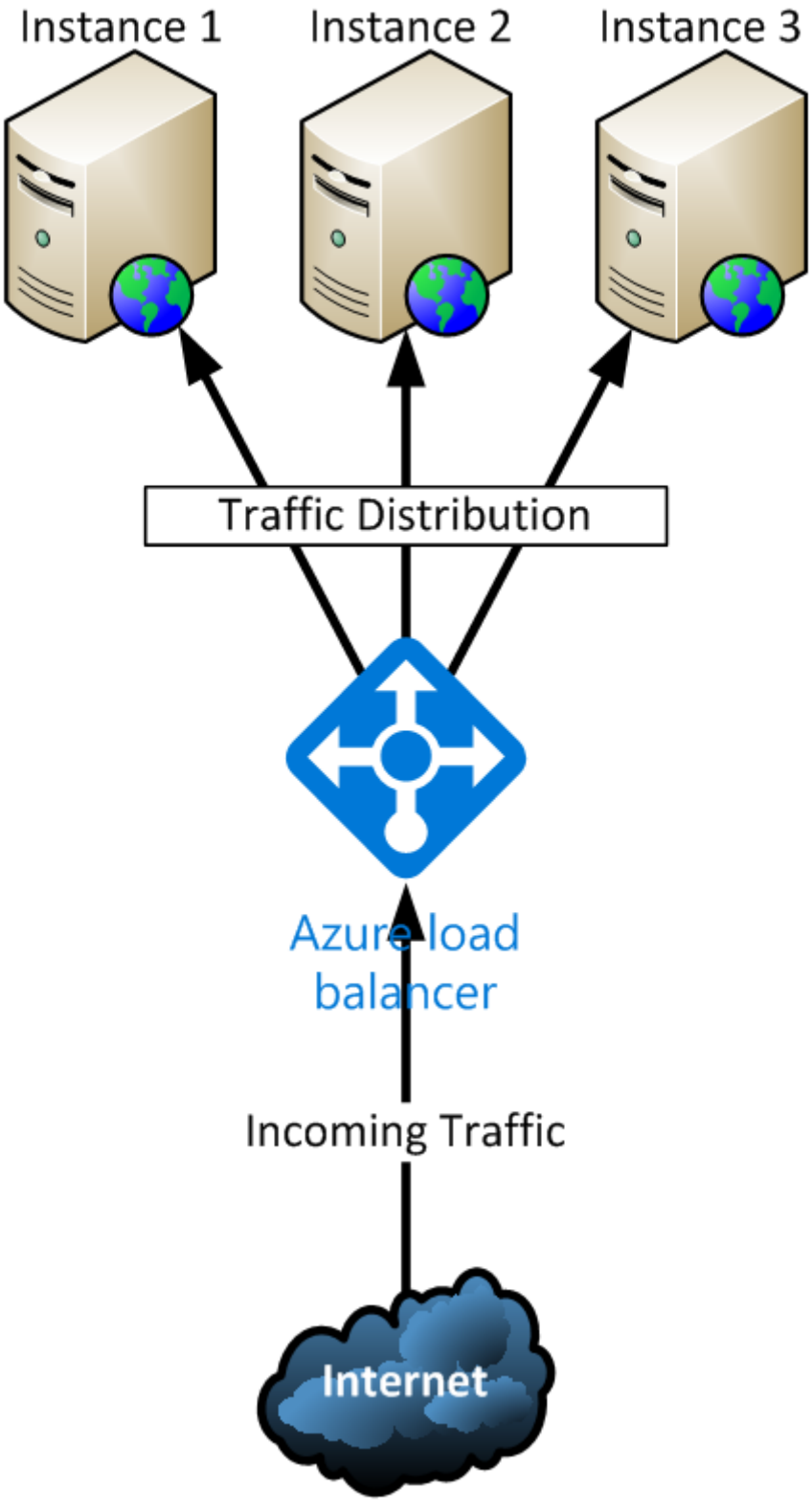


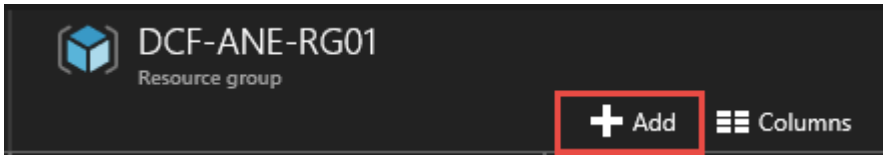
Barracuda NextGen Control Center (BYOL)

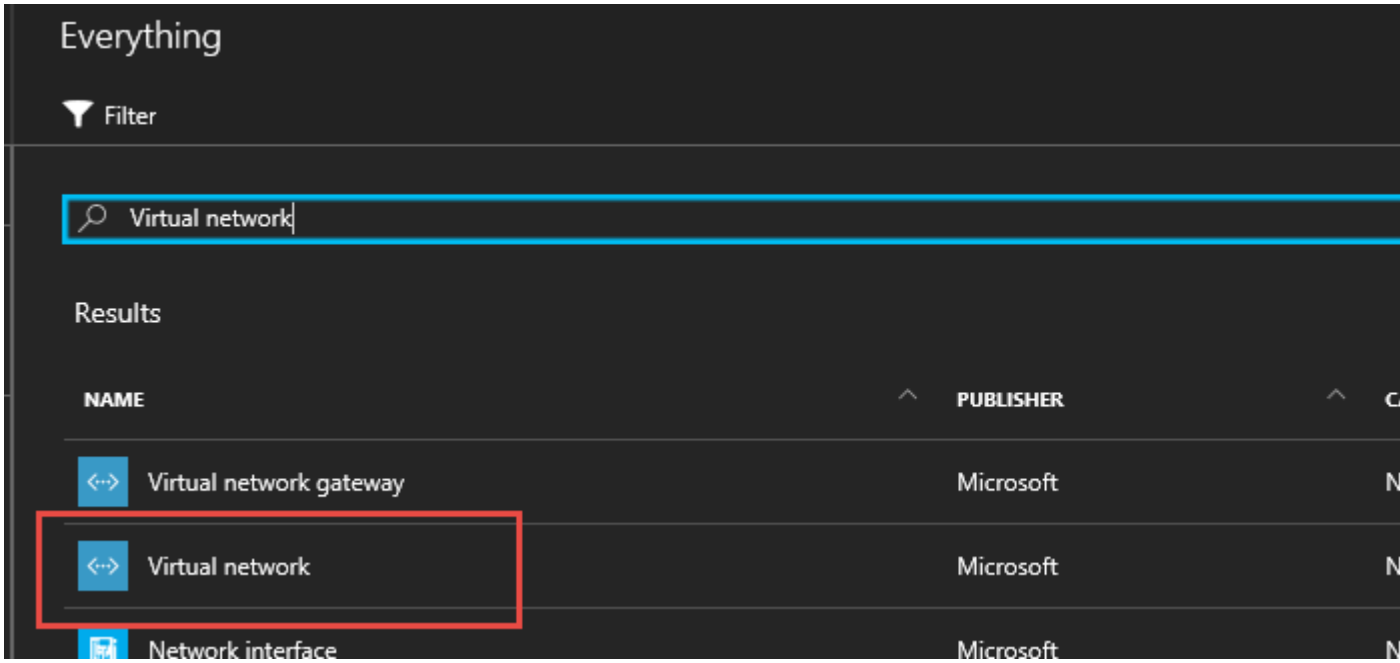
Barracuda Networks, Inc.

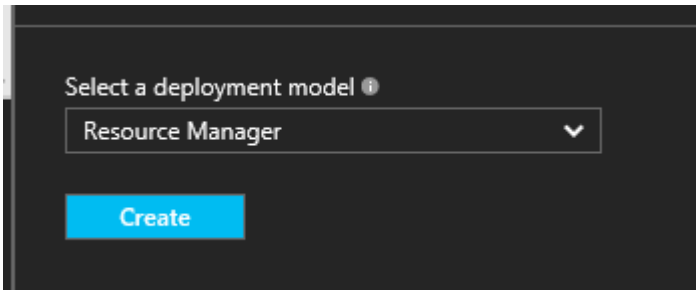
Bring Your Own License enabled.

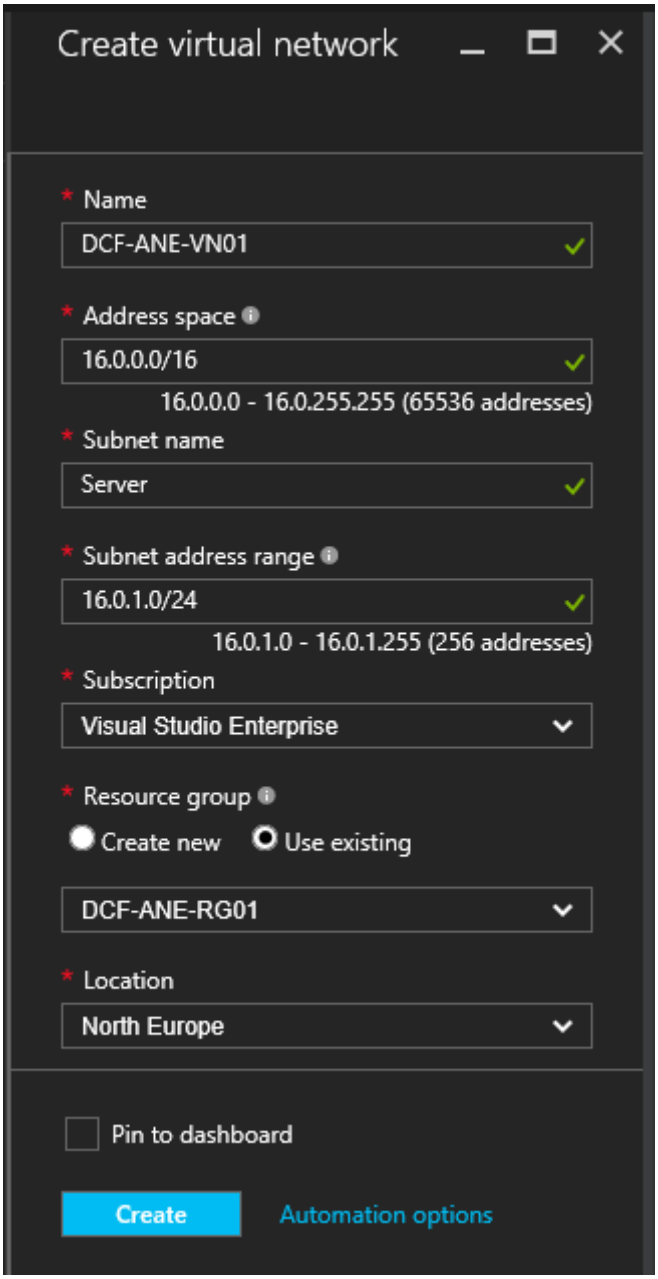
- This Barracuda NextGen Control Center is licensed using the Bring-Your-Own-License (BYOL) model. Fill out the evaluation form to receive a 30-day evaluation license or purchase one of the licenses depending on your requirement.

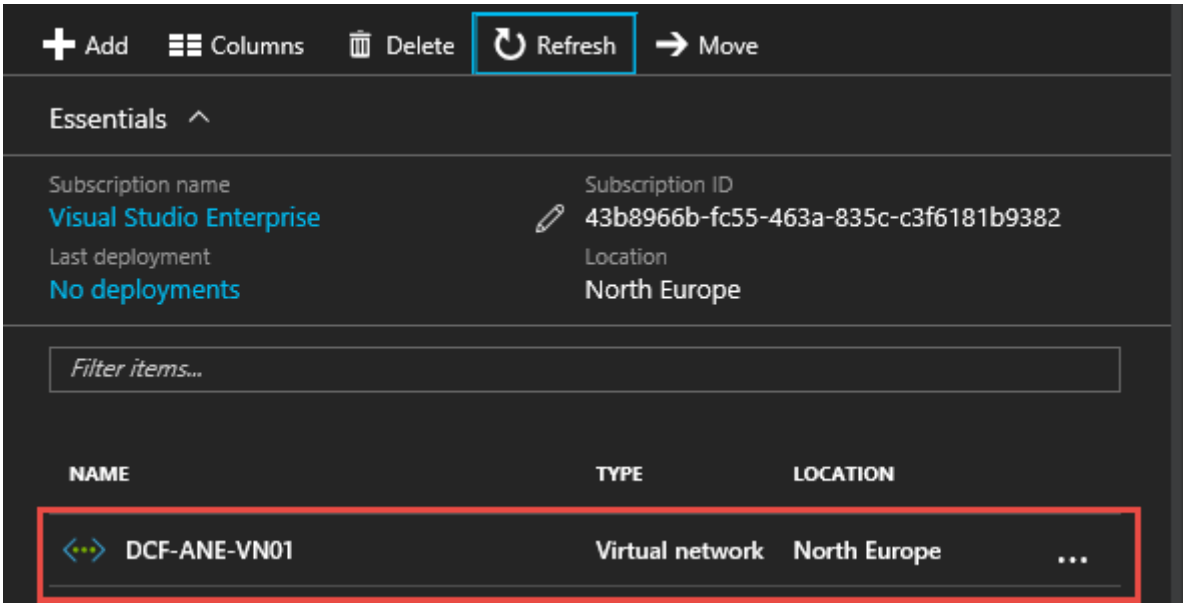

Instance 1
Instance 2
Instance 3
Traffic Distribution
Azure load balancer
Incoming Traffic
Internet
Application gateways
Traffic Manager profiles

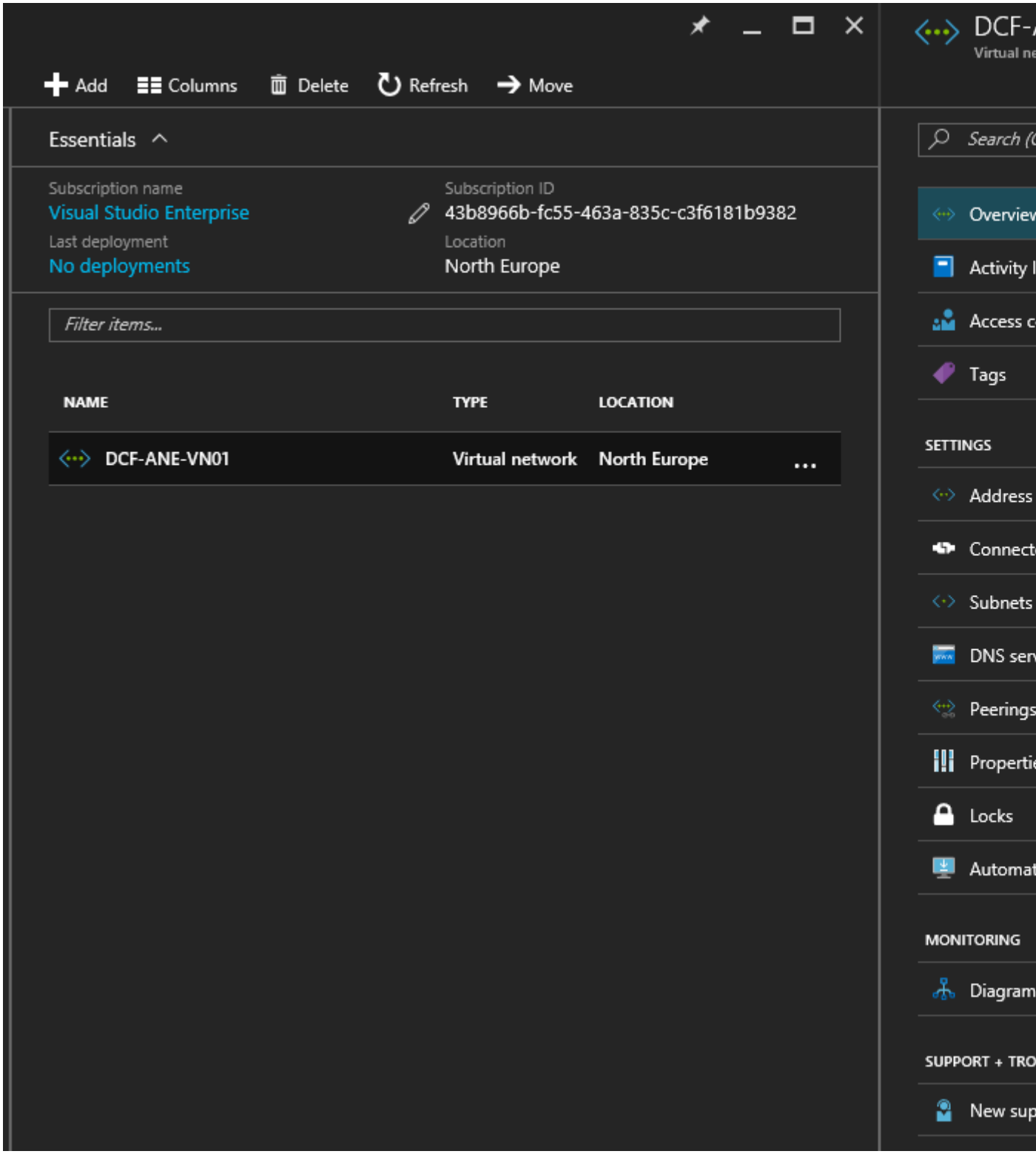

DCF-ANE-RG01
Resource group
Add
Columns

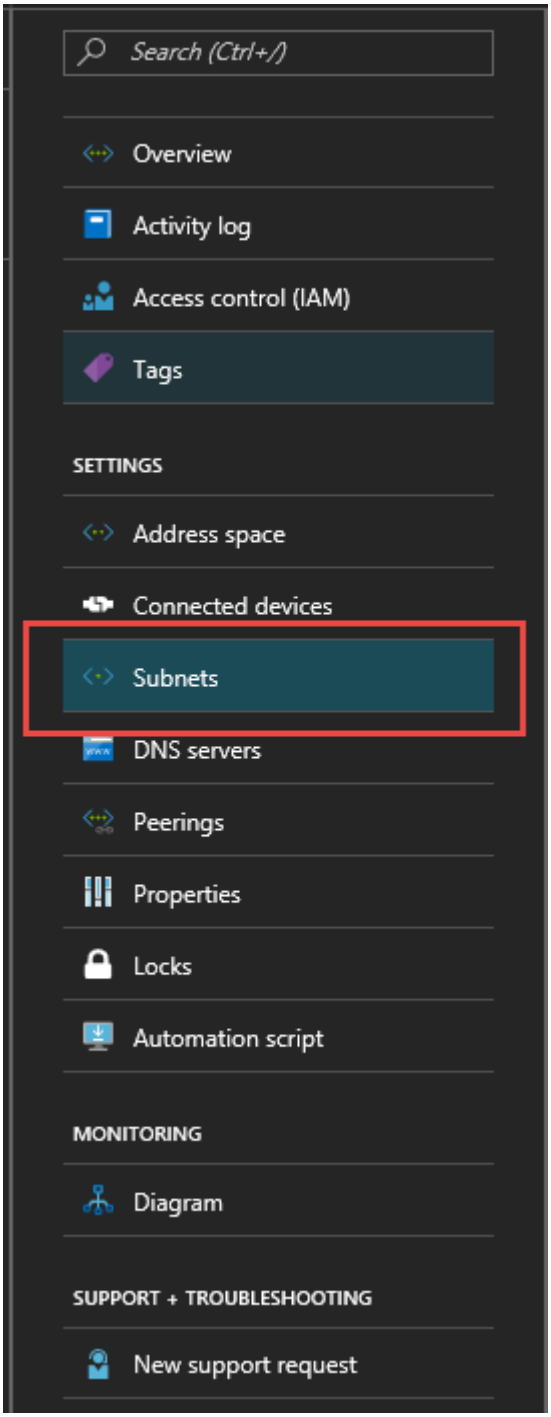

Everything
Filter
Virtual network
Results
NAME
PUBLISHER
Virtual network gateway
Microsoft
Virtual network
Microsoft
Network interface
Microsoft

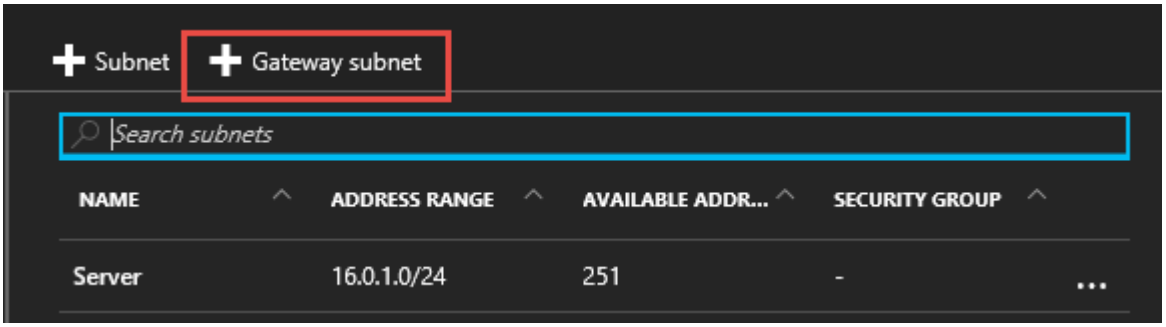

Select a deployment model
Resource Manager
Create

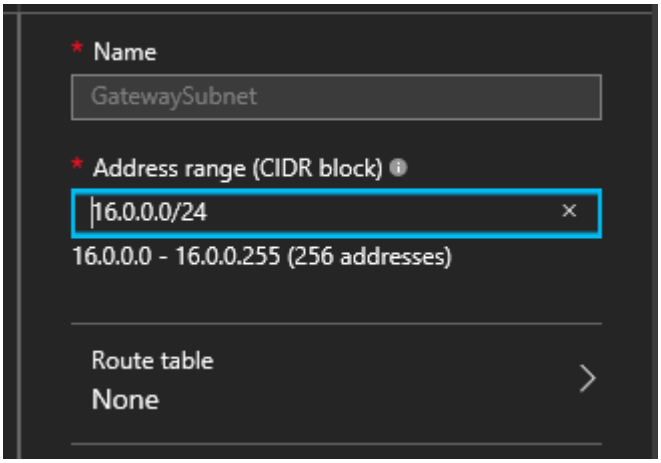

Create virtual network
* Name
DCF-ANE-VN01
* Address space
16.0.0.0/16
16.0.0.0 - 16.0.255.255 (65536 addresses)
* Subnet name
Server
* Subnet address range
16.0.1.0/24
16.0.1.0 - 16.0.1.255 (256 addresses)
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
DCF-ANE-RG01
* Location
North Europe
Pin to dashboard
Create
Automation options

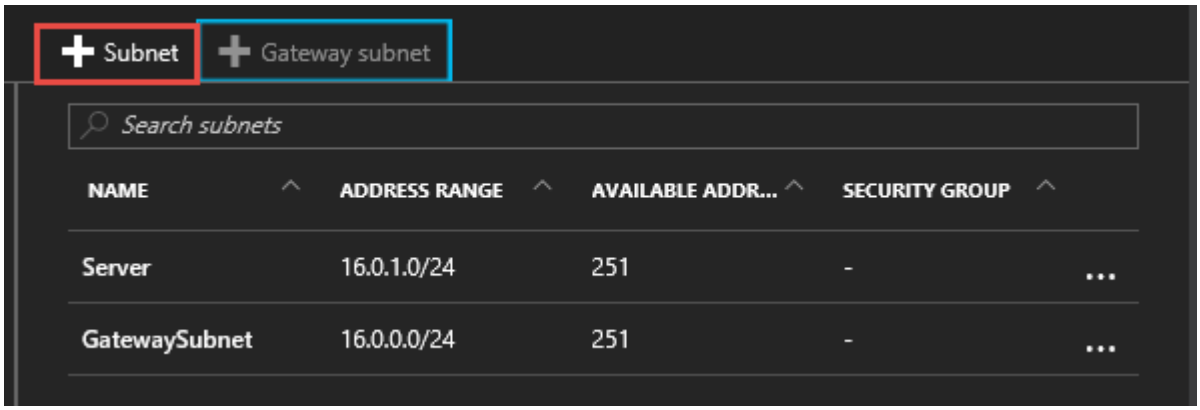

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Last deployment
No deployments
Location
North Europe
Filter items...
NAME
TYPE
LOCATION
DCF-ANE-VN01
Virtual network
North Europe

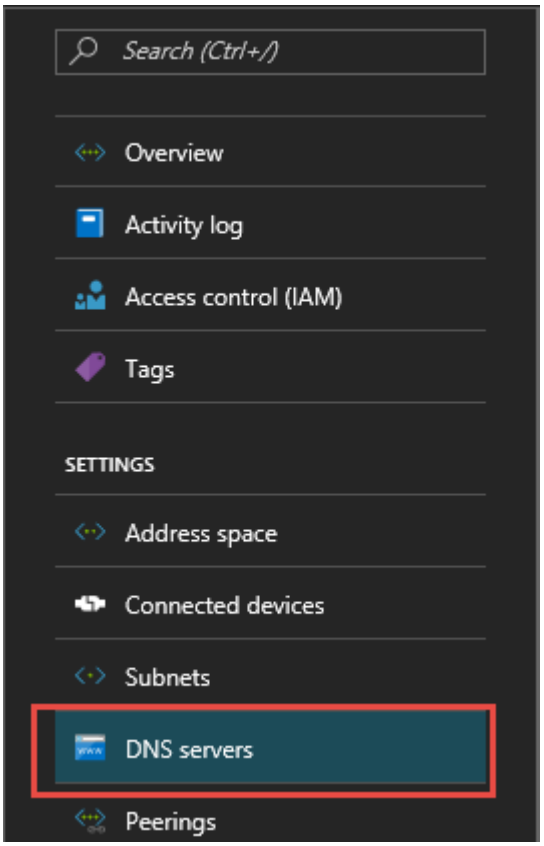

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Last deployment
No deployments
Location
North Europe
Filter items...
NAME
TYPE
LOCATION
DCF-ANE-VN01
Virtual network
North Europe
Overview
Activity
Access c
Tags
SETTINGS
Address
Connect
Subnets
DNS ser
Peerings
Properti
Locks
Automat
MONITORING
Diagram
SUPPORT + TRO
New sup

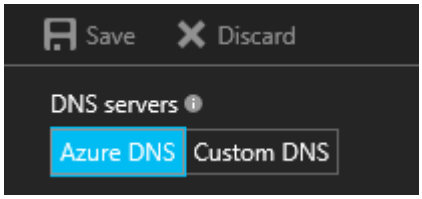

Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Address space
Connected devices
Subnets
DNS servers
Peerings
Properties
Locks
Automation script
MONITORING
Diagram
SUPPORT + TROUBLESHOOTING
New support request

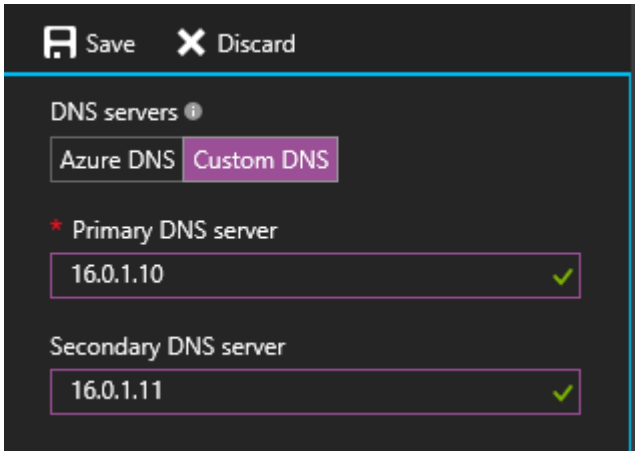

Subnet
Gateway subnet
Search subnets
NAME
ADDRESS RANGE
AVAILABLE ADDR...
SECURITY GROUP
Server
16.0.1.0/24
251
-

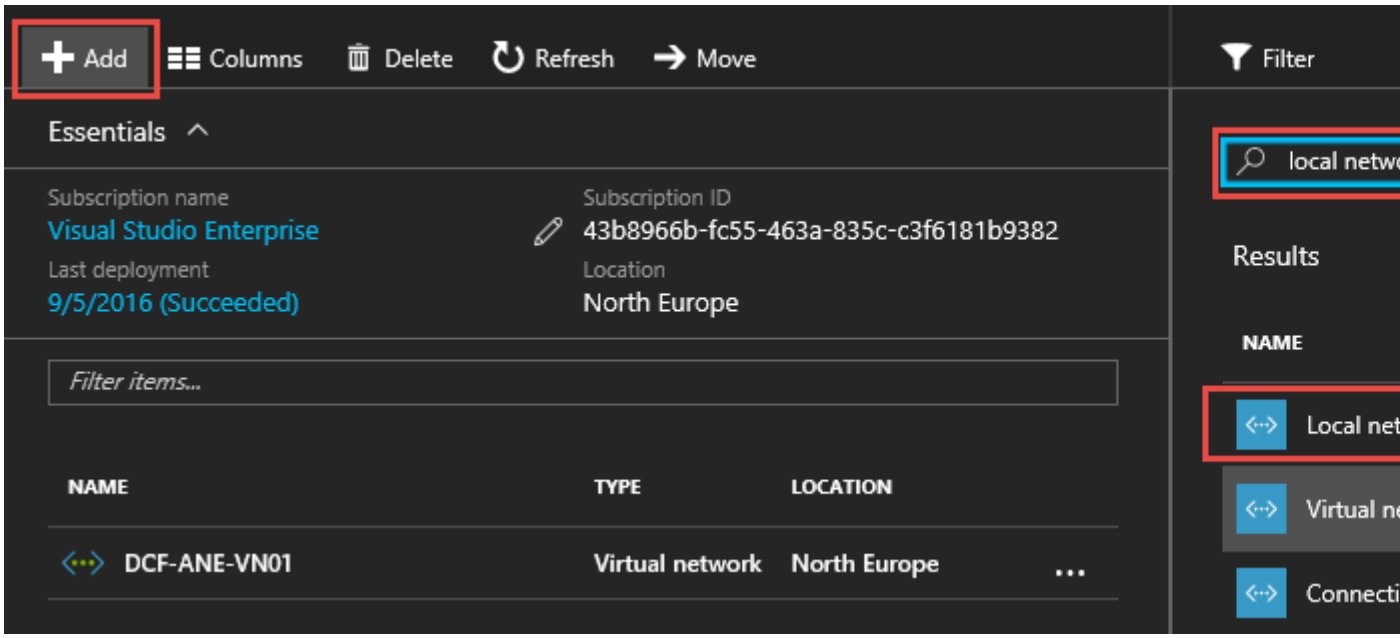

* Name
GatewaySubnet
* Address range (CIDR block)
16.0.0.0/24
16.0.0.0 - 16.0.0.255 (256 addresses)
Route table
None

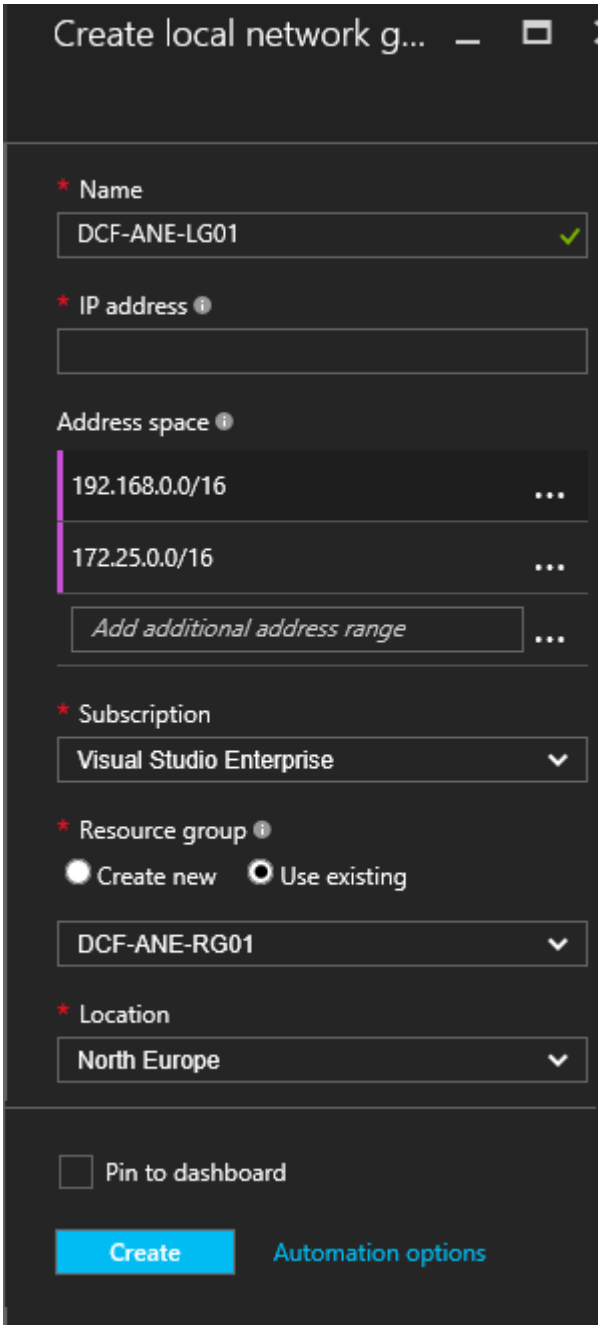

Subnet
Gateway subnet
Search subnets
NAME
ADDRESS RANGE
AVAILABLE ADDR...
SECURITY GROUP
Server
16.0.1.0/24
251
-
GatewaySubnet
16.0.0.0/24
251
-

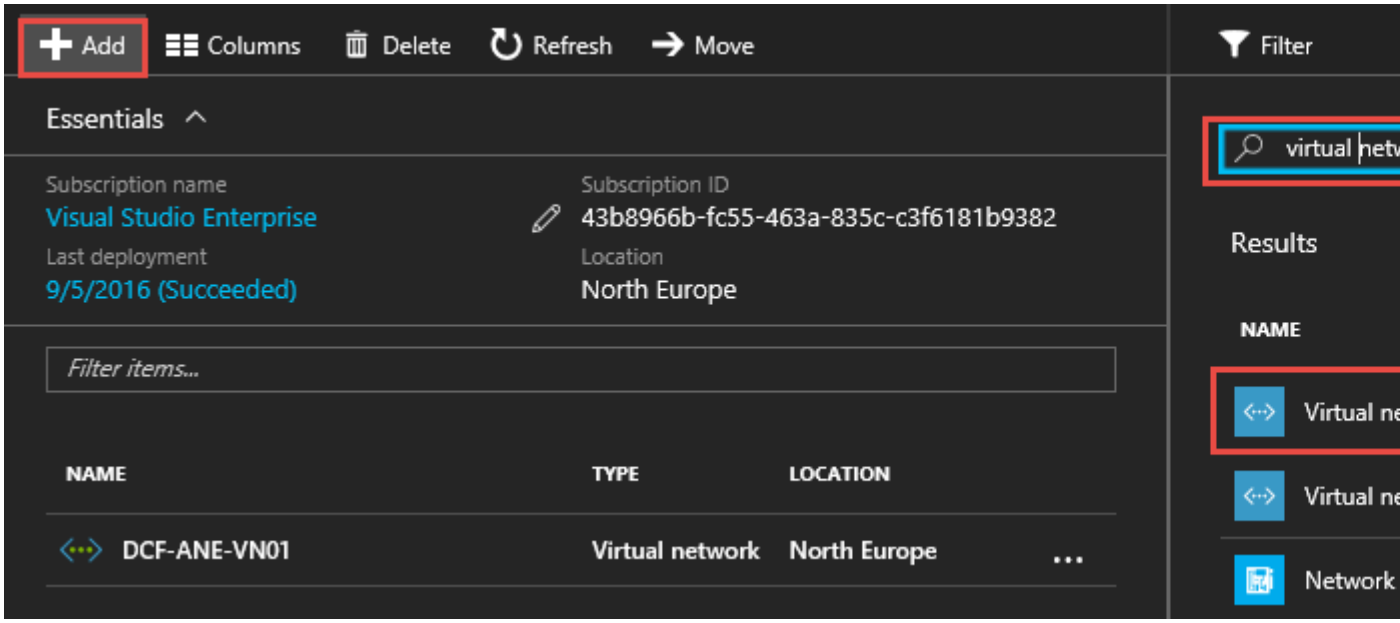

Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Address space
Connected devices
Subnets
DNS servers
Peerings

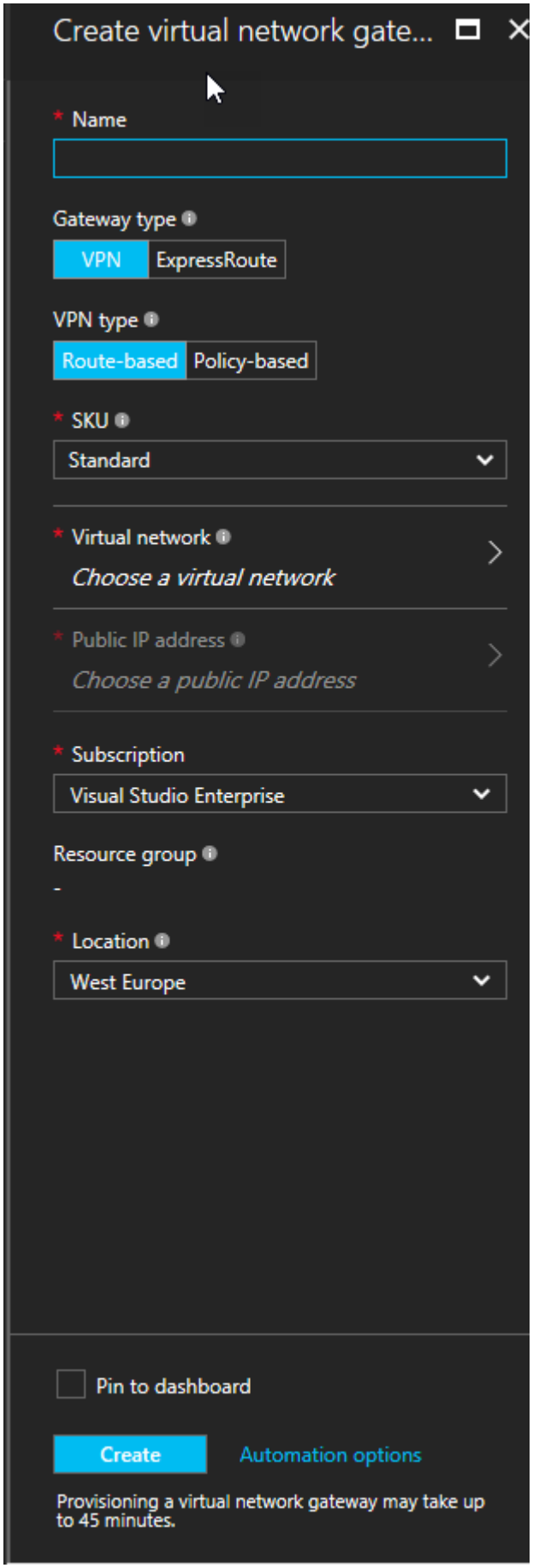

Save
Discard
DNS servers
Azure DNS
Custom DNS

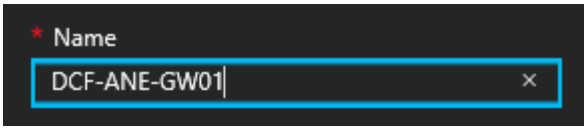

Save
Discard
DNS servers
Azure DNS
Custom DNS
* Primary DNS server
16.0.1.10
Secondary DNS server
16.0.1.11

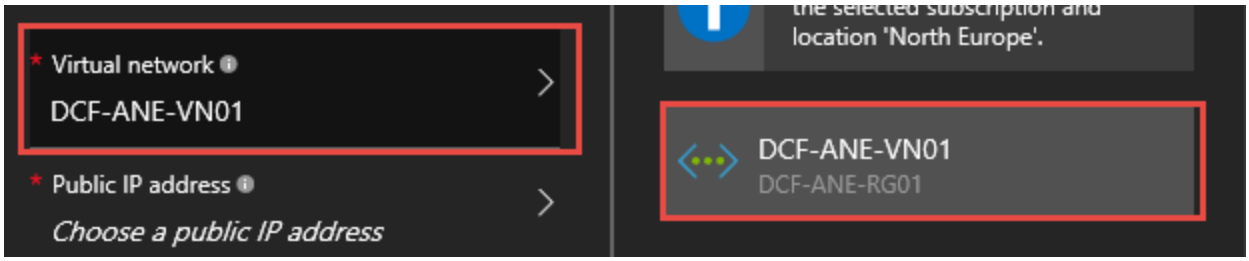

Add
Columns
Delete
Refresh
Move
Filter
Essentials
Subscription name
Visual Studio Enterprise
Last deployment
9/5/2016 (Succeeded)
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Location
North Europe
Filter items...
NAME
TYPE
LOCATION
DCF-ANE-VN01
Virtual network
North Europe
Results
NAME
Local net
Virtual ne
Connecti

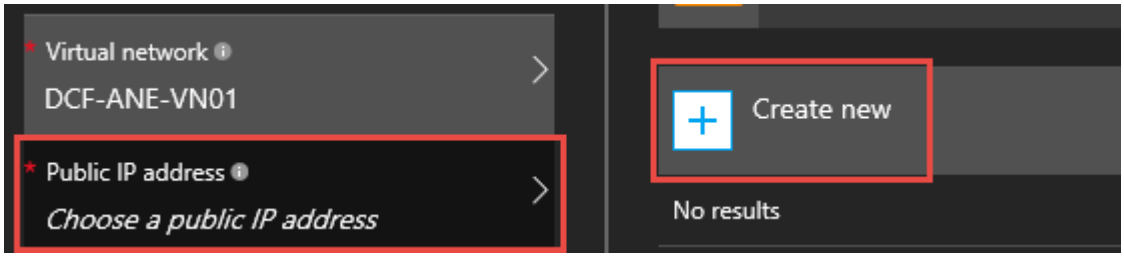

Create local network g...
* Name
DCF-ANE-LG01
* IP address
Address space
192.168.0.0/16
172.25.0.0/16
Add additional address range
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
DCF-ANE-RG01
* Location
North Europe
Pin to dashboard
Create
Automation options

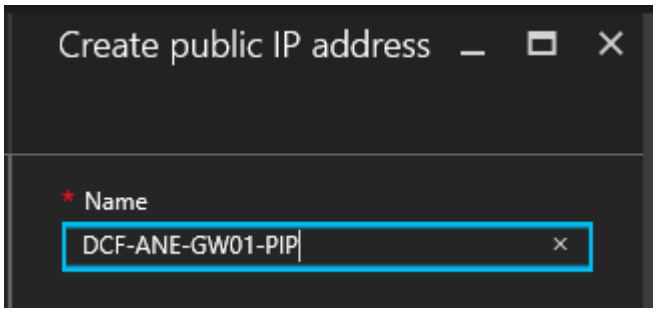

Add
Columns
Delete
Refresh
Move
Filter
Essentials
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Last deployment
9/5/2016 (Succeeded)
Location
North Europe
Filter items...
NAME
TYPE
LOCATION
DCF-ANE-VN01
Virtual network
North Europe
virtual netw
Results
NAME
Virtual ne
Virtual ne
Network

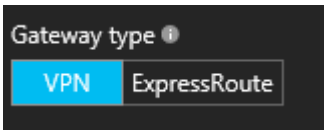

Create virtual network gate...
* Name
Gateway type
VPN
ExpressRoute
VPN type
Route-based
Policy-based
* SKU
Standard
* Virtual network
Choose a virtual network
* Public IP address
Choose a public IP address
* Subscription
Visual Studio Enterprise
Resource group
-
* Location
West Europe
Pin to dashboard
Create
Automation options
Provisioning a virtual network gateway may take up to 45 minutes.

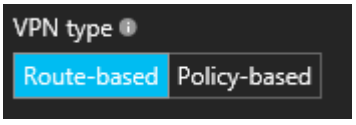

* Name
DCF-ANE-GW01

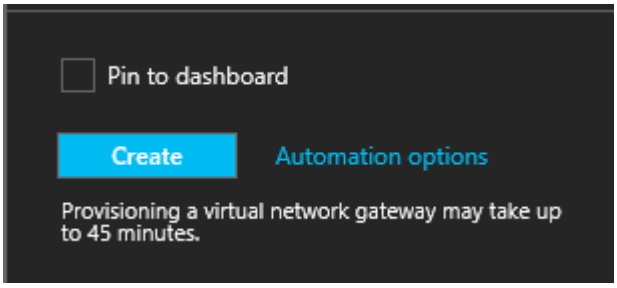

* Virtual network
DCF-ANE-VN01
* Public IP address
Choose a public IP address
location 'North Europe'.
DCF-ANE-VN01
DCF-ANE-RG01

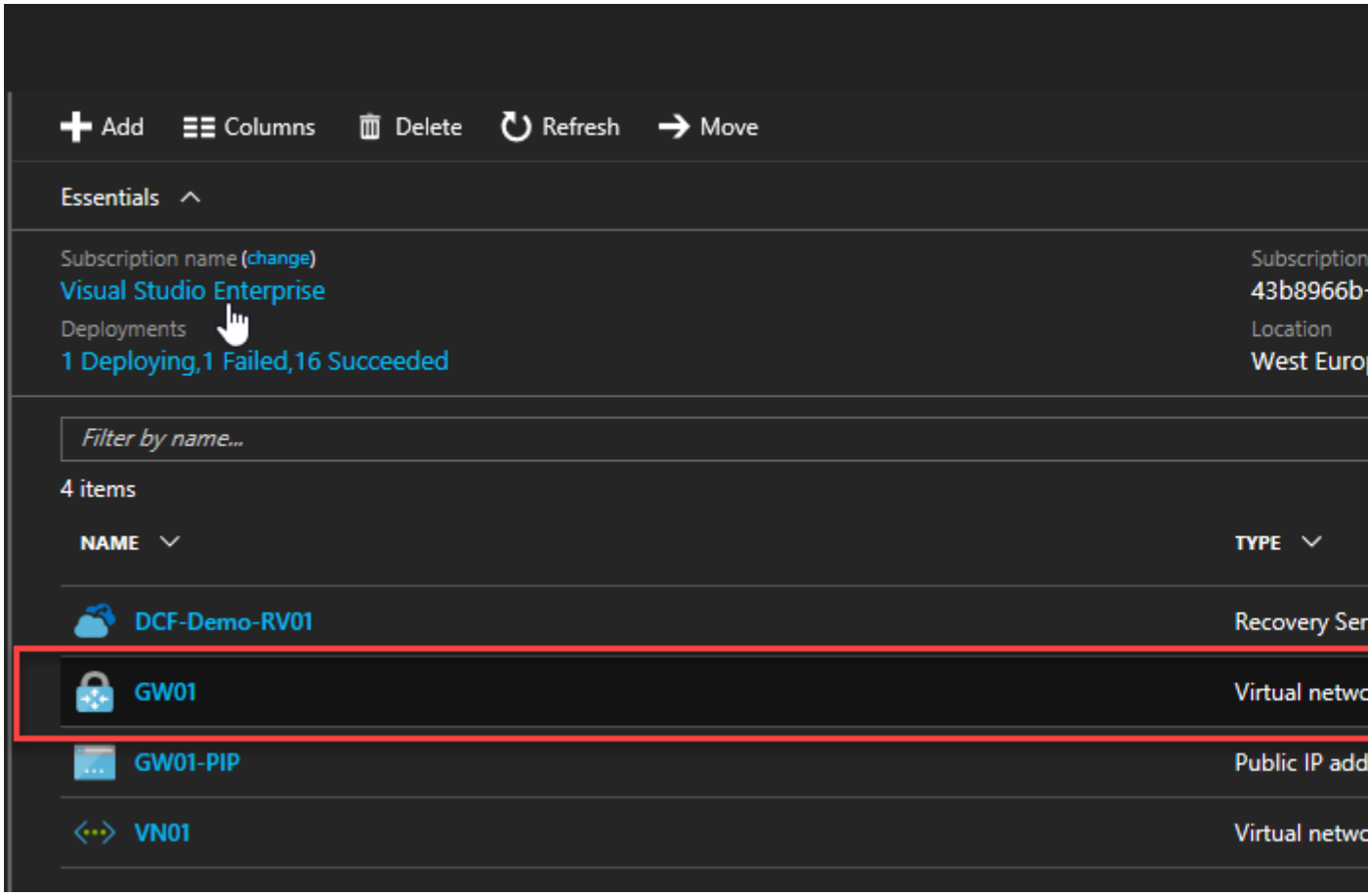

* Virtual network
DCF-ANE-VN01
* Public IP address
Choose a public IP address
Create new
No results

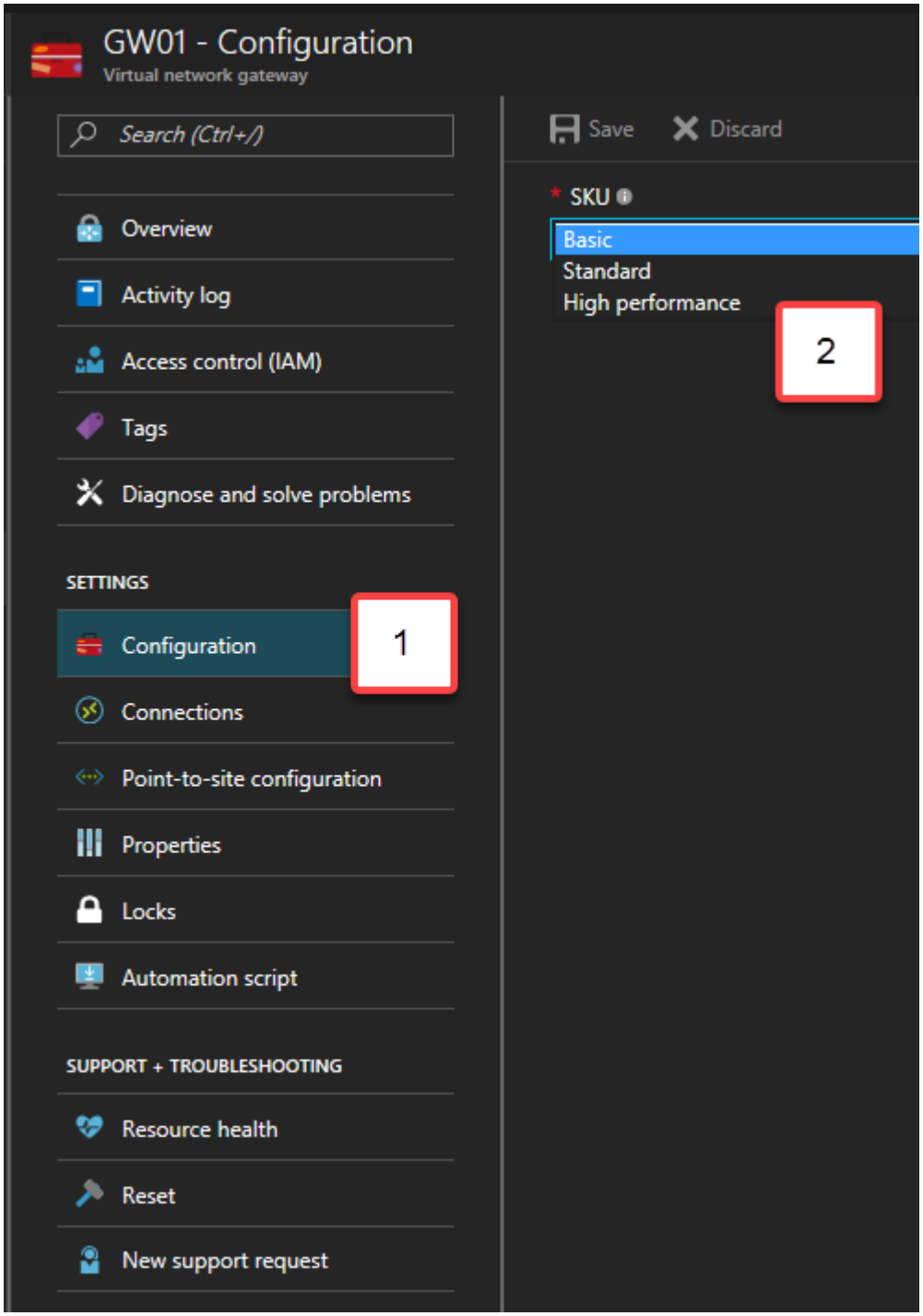

Create public IP address
* Name
DCF-ANE-GW01-PIP

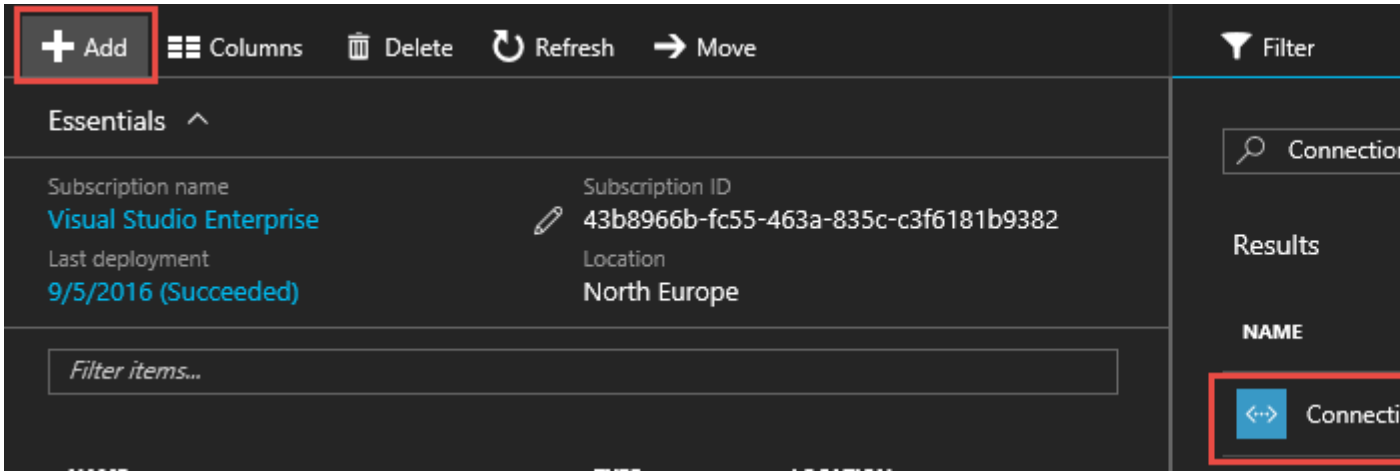

Gateway type
VPN
ExpressRoute

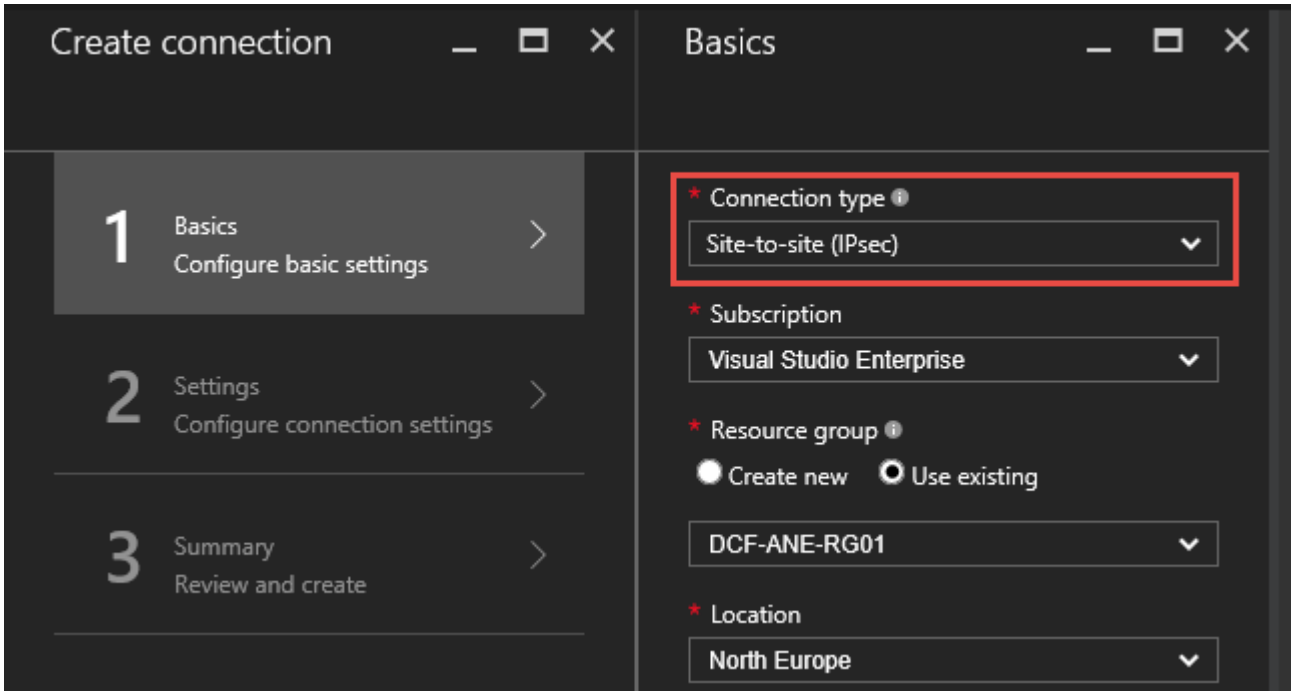

VPN type
Route-based
Policy-based

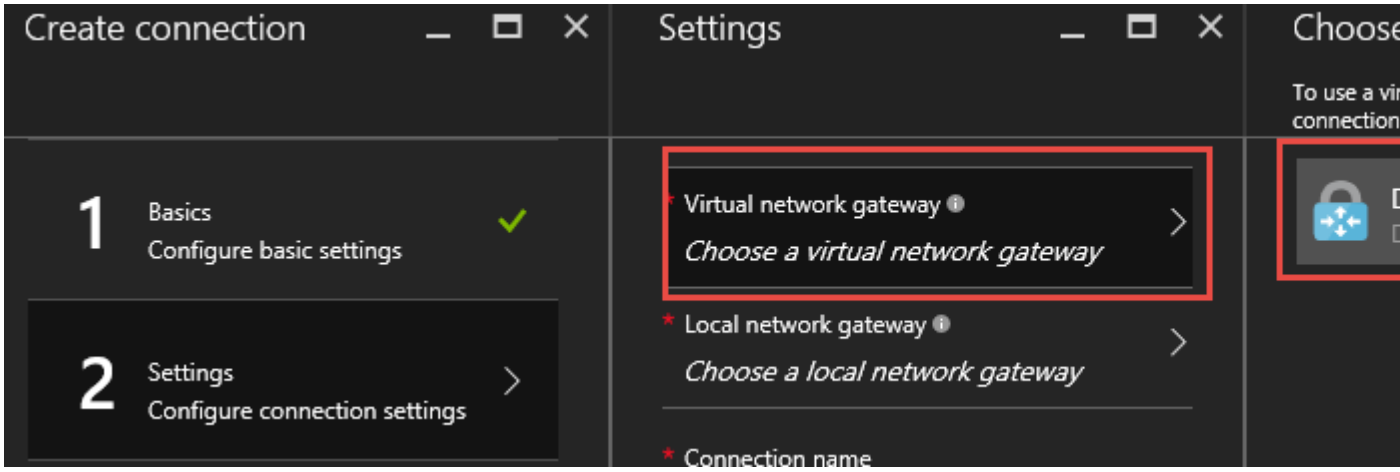

Pin to dashboard
Create
Automation options
Provisioning a virtual network gateway may take up to 45 minutes.

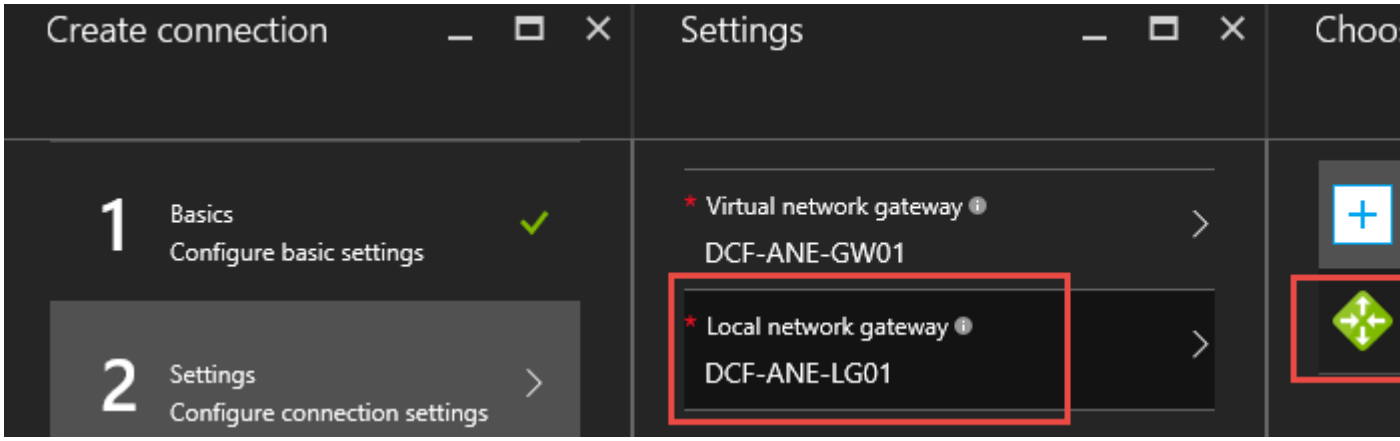

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name (change)
Visual Studio Enterprise
Deployments
1 Deploying,1 Failed,16 Succeeded
Subscription
43b8966b
Location
West Euro
Filter by name...
4 items
NAME
TYPE
DCF-Demo-RV01
Recovery Ser
GW01
Virtual netwo
GW01-PIP
Public IP add
VN01
Virtual netwo

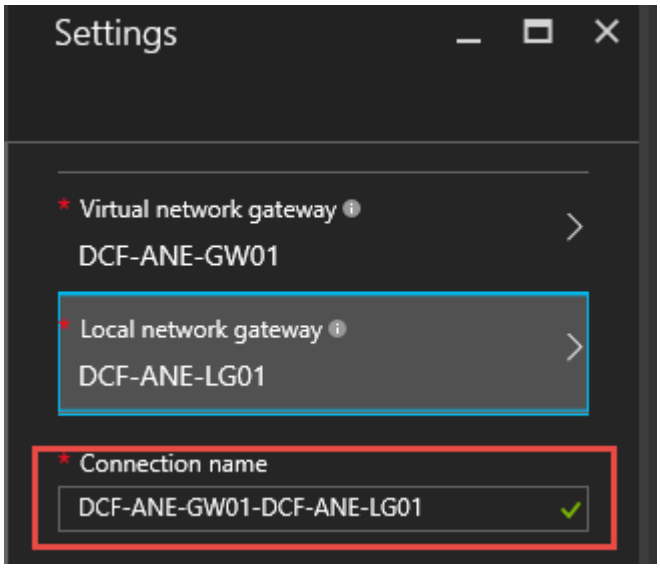

GW01 - Configuration
Virtual network gateway
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Configuration
1
Connections
Point-to-site configuration
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
Resource health
Reset
New support request
Save
Discard
* SKU
Basic
Standard
High performance
2

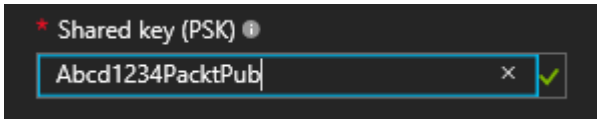

Add
Columns
Delete
Refresh
Move
Filter
Essentials
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Last deployment
9/5/2016 (Succeeded)
Location
North Europe
Filter items...
Results
NAME

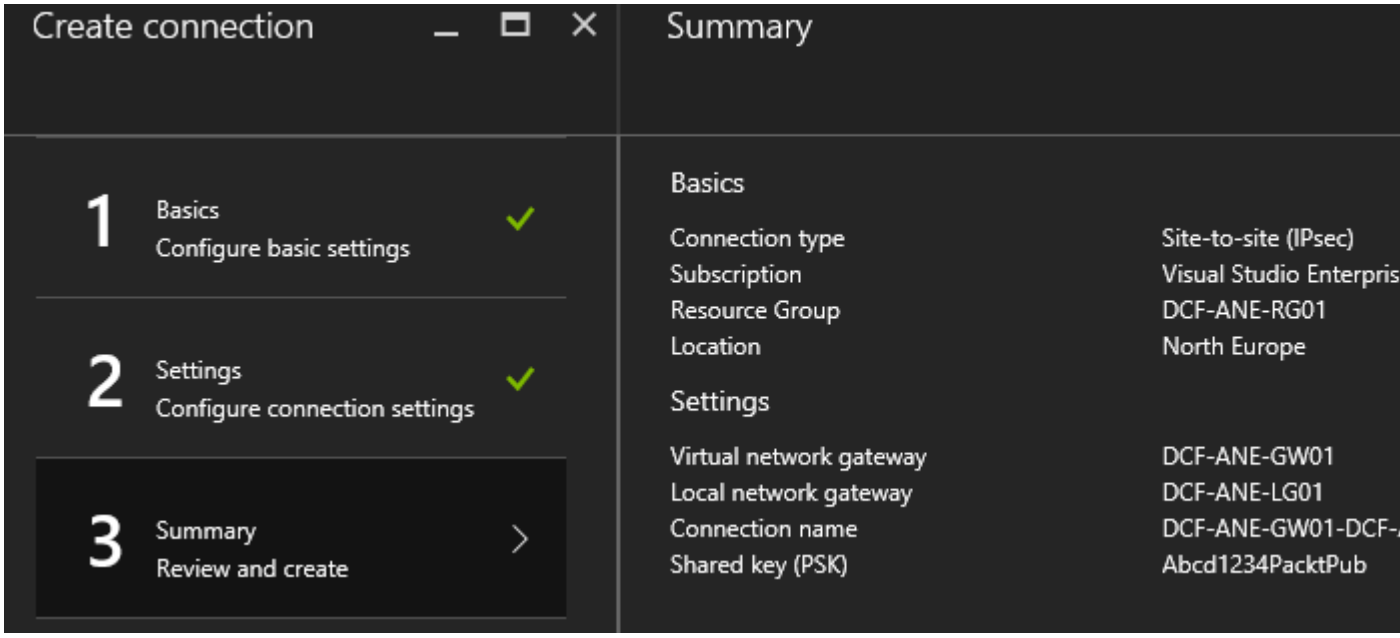

Create connection
Basics
1
Basics
Configure basic settings
2
Settings
Configure connection settings
3
Summary
Review and create
* Connection type
Site-to-site (IPsec)
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
DCF-ANE-RG01
* Location
North Europe

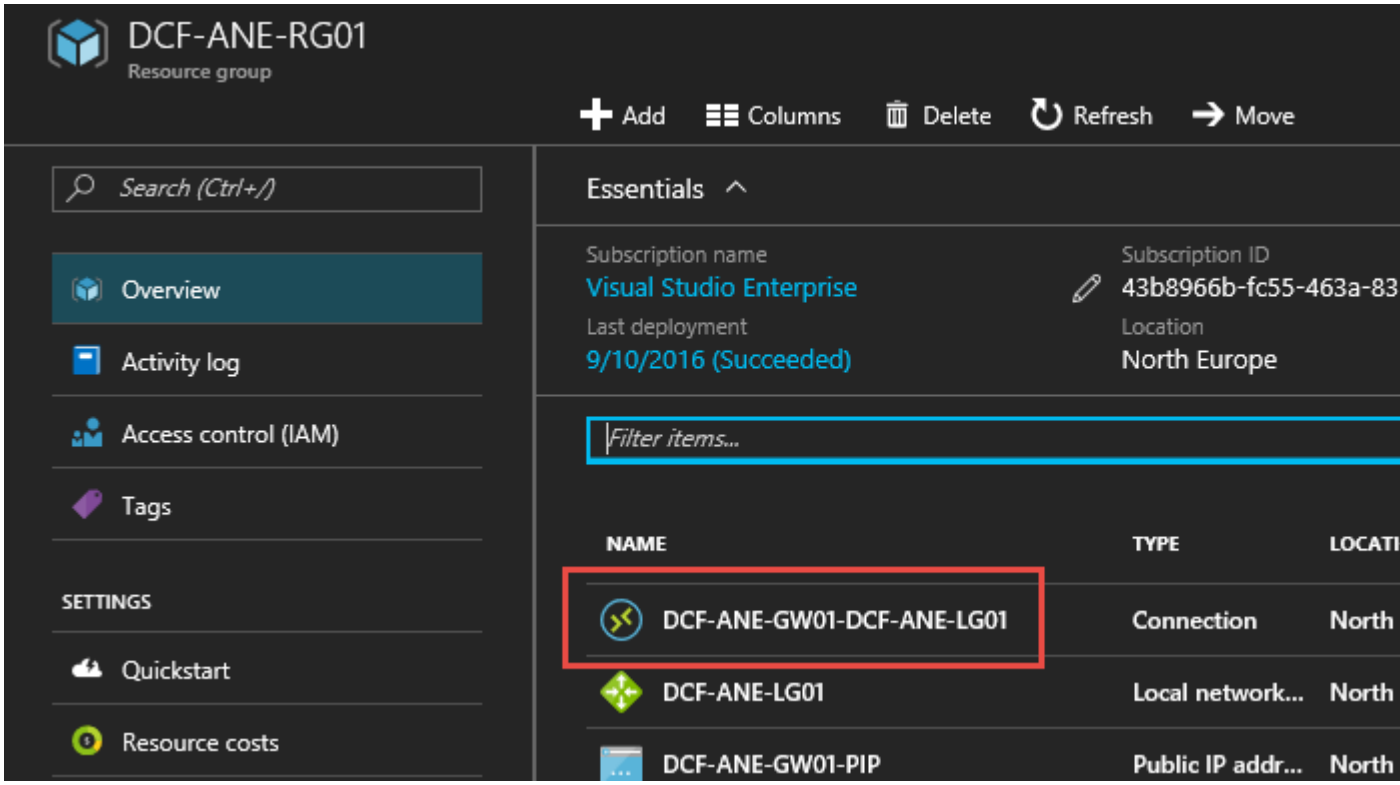

Create connection
Settings
1
Basics
Configure basic settings
2
Settings
Configure connection settings
* Virtual network gateway
Choose a virtual network gateway
* Local network gateway
Choose a local network gateway
* Connection name

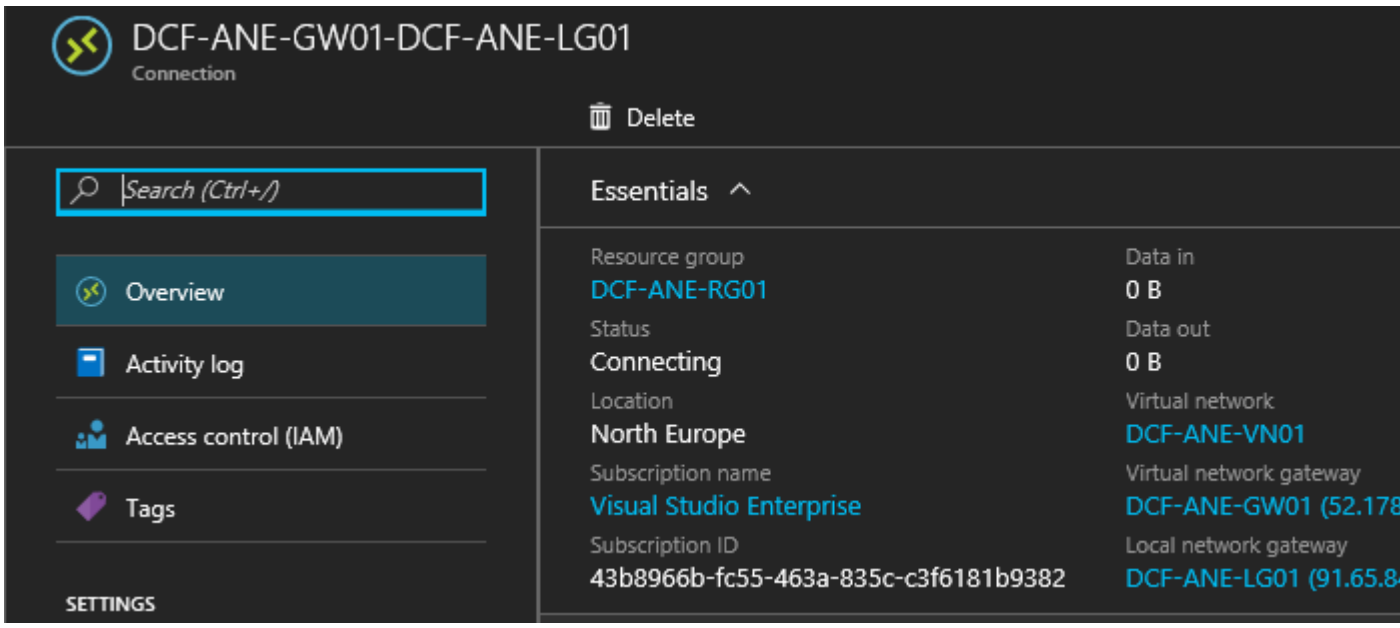

Create connection
1
Basics
Configure basic settings
2
Settings
Configure connection settings
Settings
* Virtual network gateway
DCF-ANE-GW01
* Local network gateway
DCF-ANE-LG01
Choo

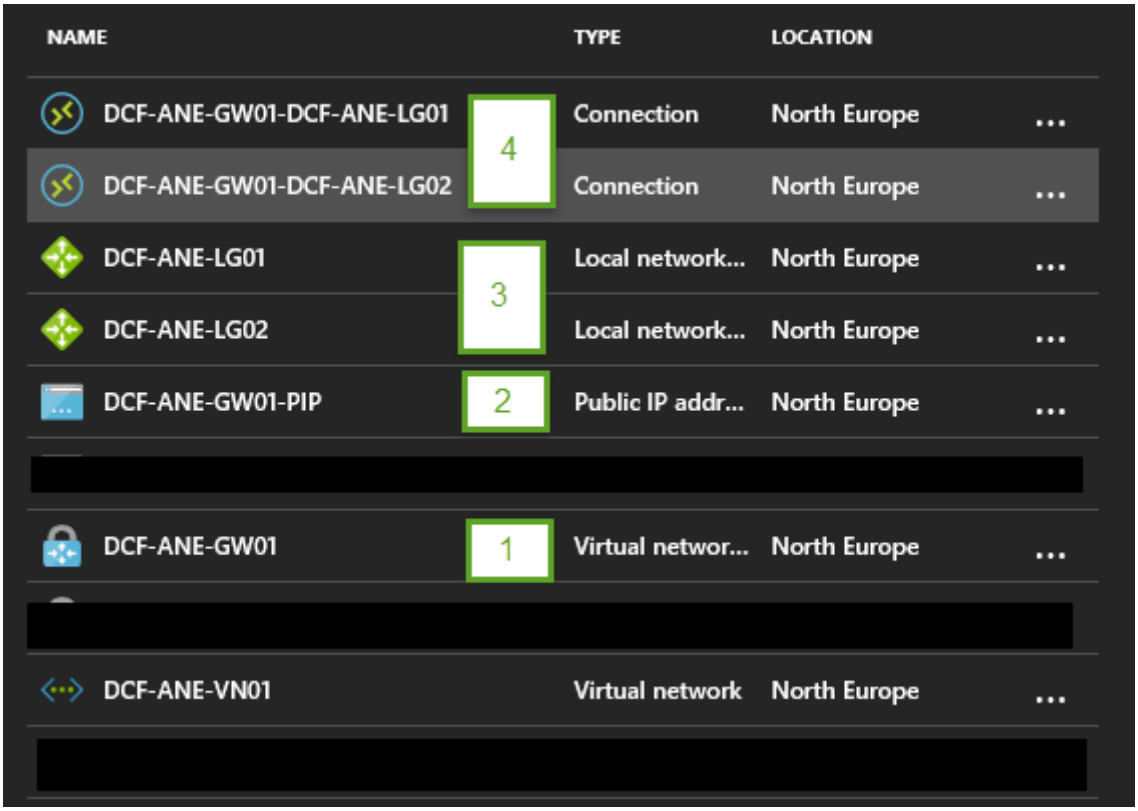

Settings
* Virtual network gateway
DCF-ANE-GW01
* Local network gateway
DCF-ANE-LG01
* Connection name
DCF-ANE-GW01-DCF-ANE-LG01

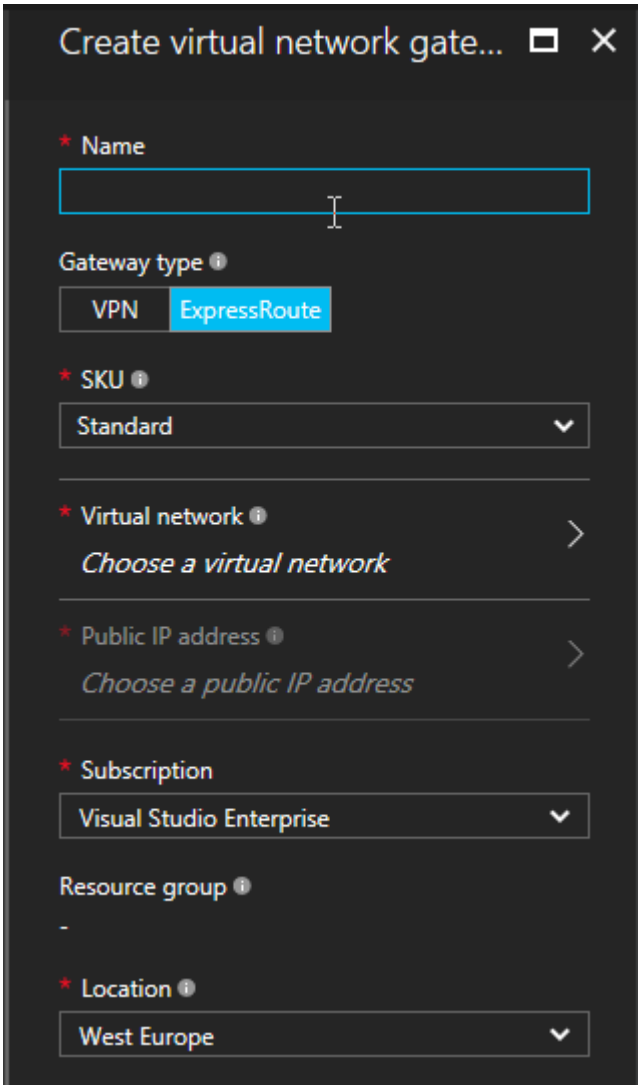

* Shared key (PSK)
Abcd1234PacktPub

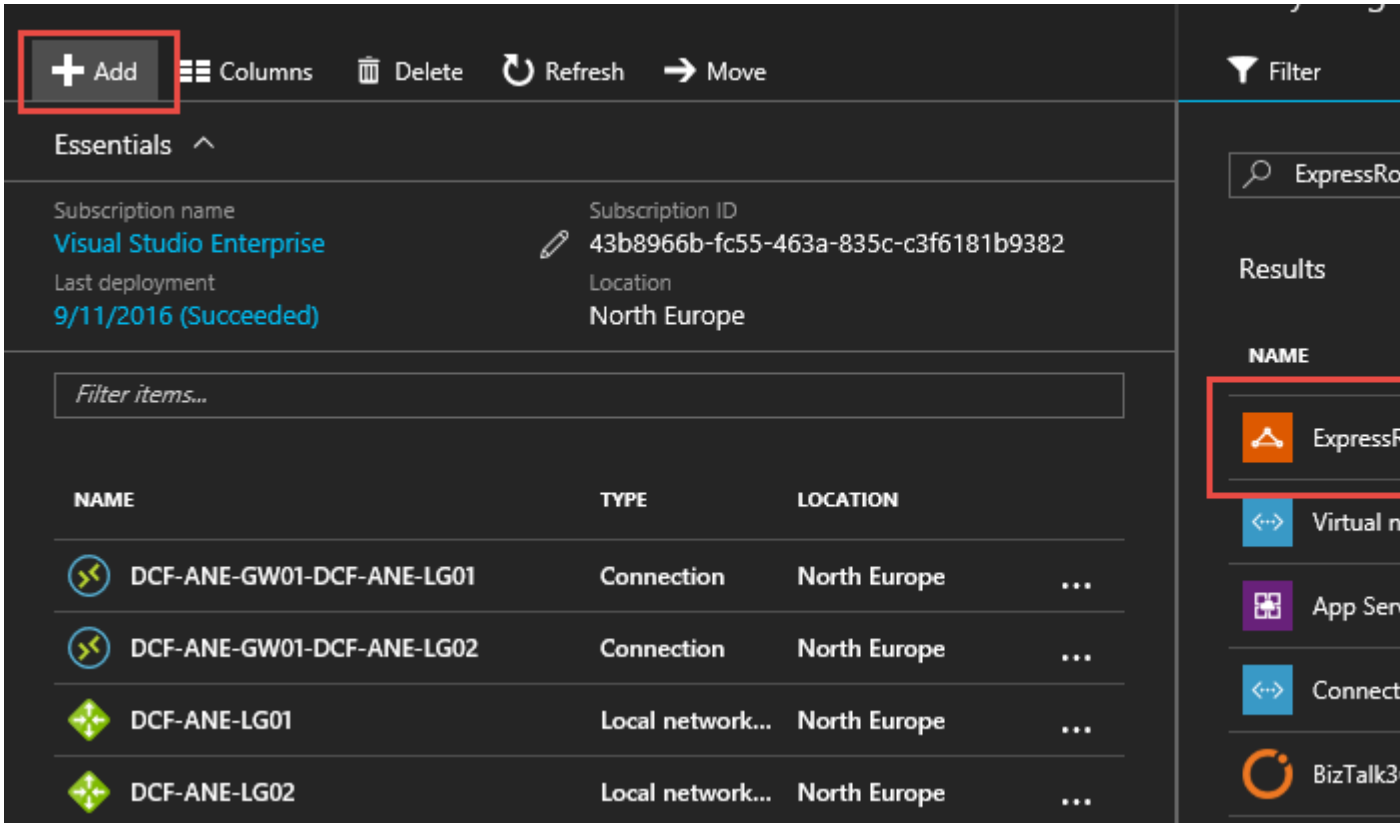

Create connection
1
Basics
Configure basic settings
2
Settings
Configure connection settings
3
Summary
Review and create
Summary
Basics
Connection type
Site-to-site (IPsec)
Subscription
Visual Studio Enterpris
Resource Group
DCF-ANE-RG01
Location
North Europe
Settings
Virtual network gateway
DCF-ANE-GW01
Local network gateway
DCF-ANE-LG01
Connection name
DCF-ANE-GW01-DCF-
Shared key (PSK)
Abcd1234PacktPub

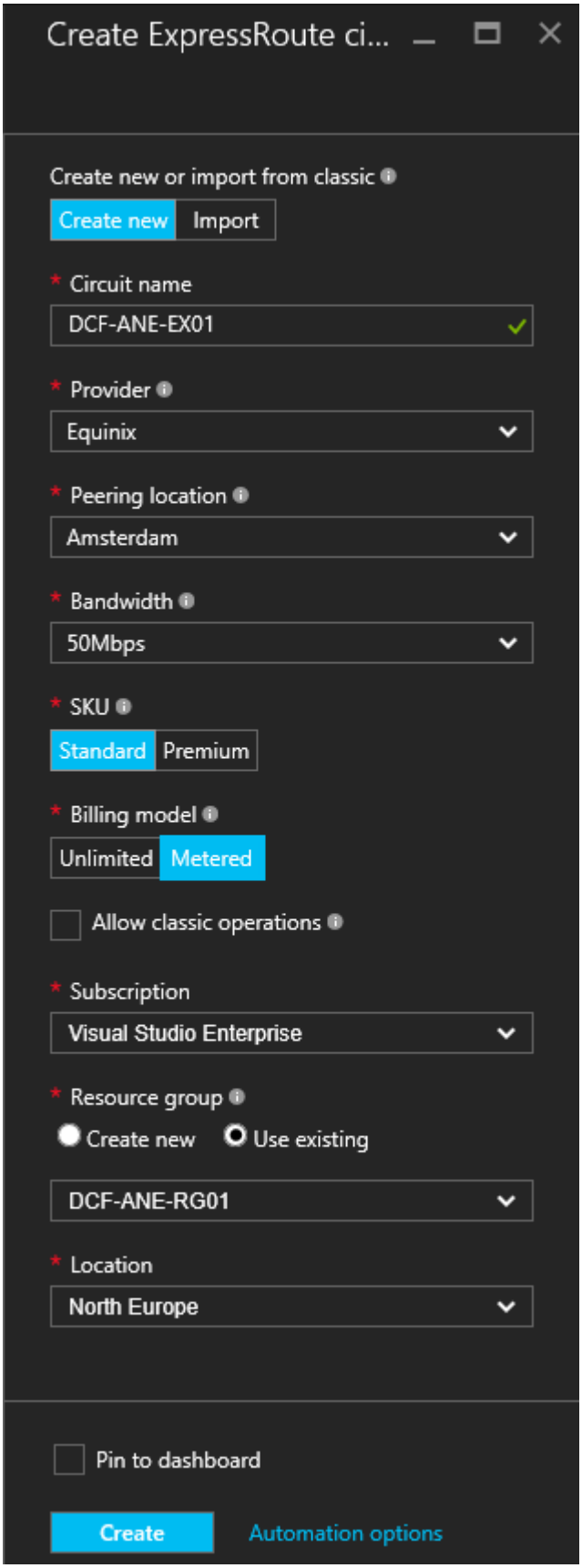

DCF-ANE-RG01
Resource group
Add
Columns
Delete
Refresh
Move
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Resource costs
Essentials
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-83
Last deployment
9/10/2016 (Succeeded)
Location
North Europe
Filter items...
NAME
TYPE
LOCATI
DCF-ANE-GW01-DCF-ANE-LG01
Connection
North
DCF-ANE-LG01
Local network...
North
DCF-ANE-GW01-PIP
Public IP addr...
North

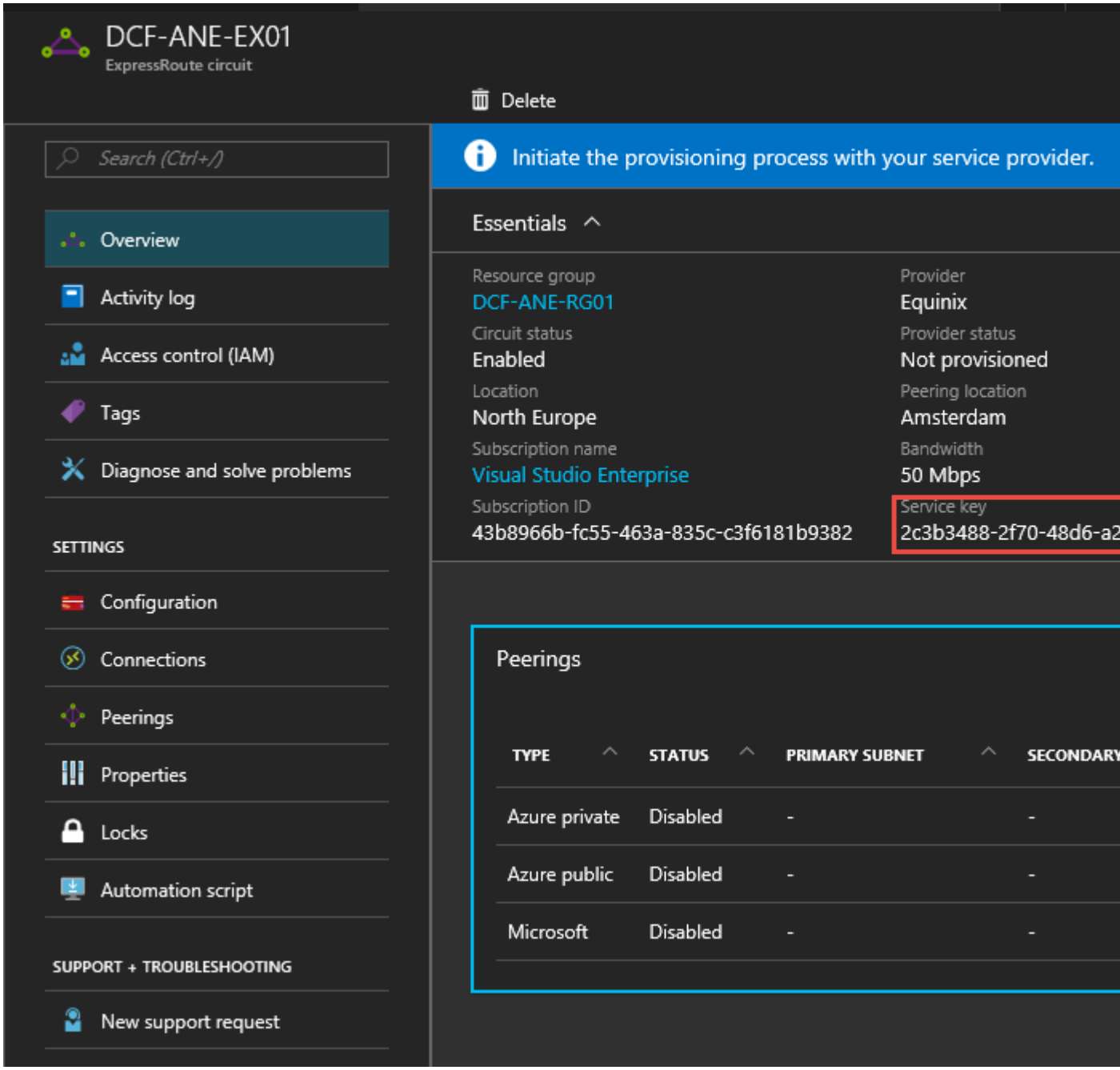

DCF-ANE-GW01-DCF-ANE-LG01
Connection
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Essentials
Resource group
DCF-ANE-RG01
Data in
0 B
Status
Connecting
Data out
0 B
Location
North Europe
Virtual network
DCF-ANE-VN01
Subscription name
Visual Studio Enterprise
Virtual network gateway
DCF-ANE-GW01 (52.178
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Local network gateway
DCF-ANE-LG01 (91.65.8

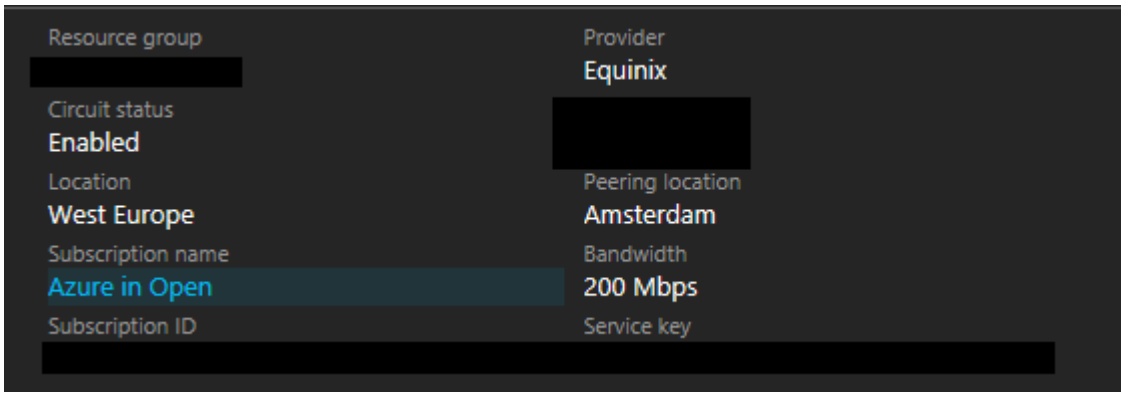

NAME
TYPE
LOCATION
DCF-ANE-GW01-DCF-ANE-LG01
Connection
North Europe
4
DCF-ANE-GW01-DCF-ANE-LG02
Connection
North Europe
DCF-ANE-LG01
Local network...
North Europe
3
DCF-ANE-LG02
Local network...
North Europe
DCF-ANE-GW01-PIP
Public IP addr...
North Europe
2
DCF-ANE-GW01
Virtual networ...
North Europe
1
DCF-ANE-VN01
Virtual network
North Europe

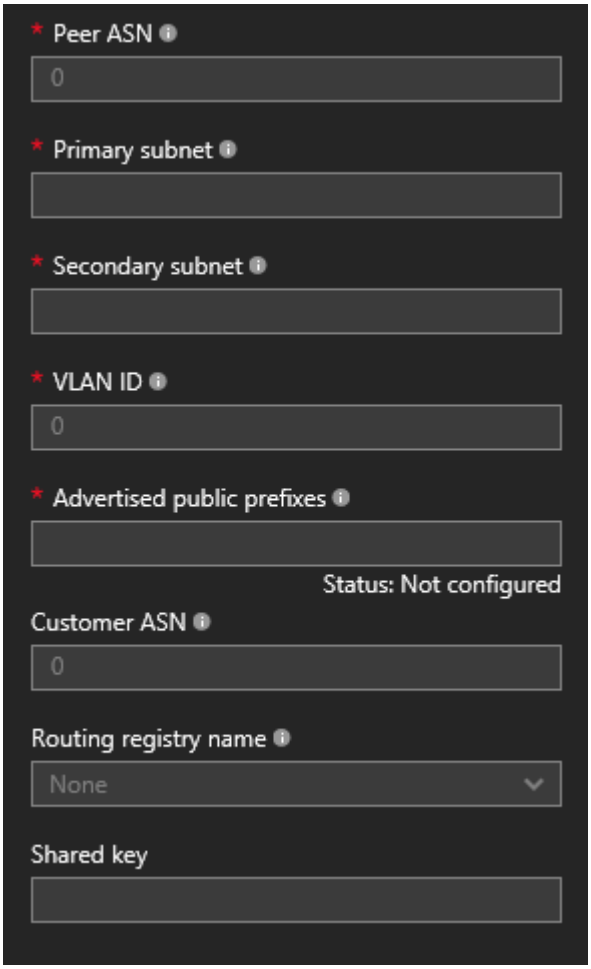

Create virtual network gate...
* Name
Gateway type
VPN
ExpressRoute
* SKU
Standard
* Virtual network
Choose a virtual network
* Public IP address
Choose a public IP address
* Subscription
Visual Studio Enterprise
Resource group
-
* Location
West Europe

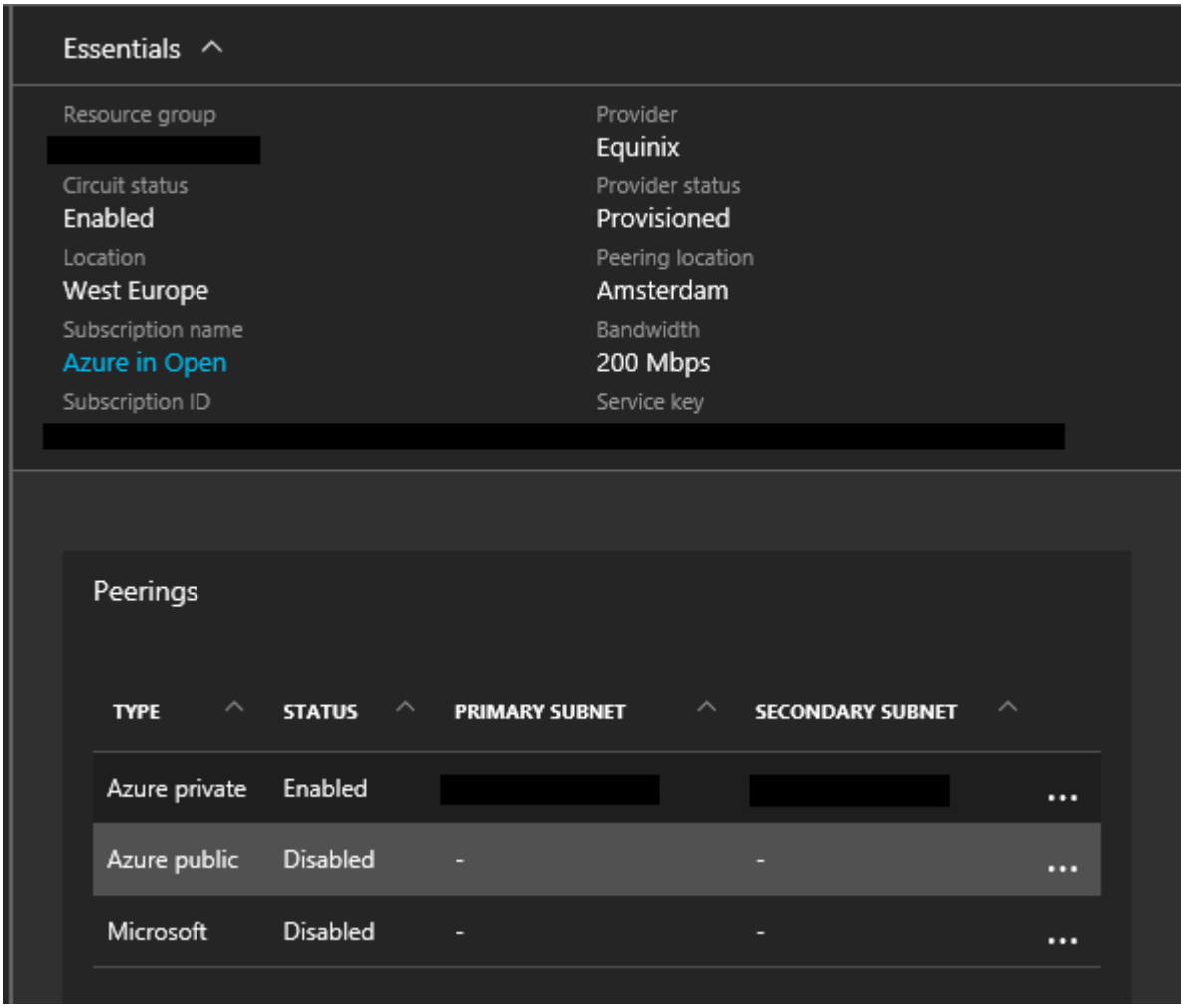

Add
Columns
Delete
Refresh
Move
Filter
Essentials
Subscription name
Visual Studio Enterprise
Last deployment
9/11/2016 (Succeeded)
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Location
North Europe
Filter items...
NAME
TYPE
LOCATION
DCF-ANE-GW01-DCF-ANE-LG01
Connection
North Europe
DCF-ANE-GW01-DCF-ANE-LG02
Connection
North Europe
DCF-ANE-LG01
Local network...
North Europe
DCF-ANE-LG02
Local network...
North Europe
Results
NAME

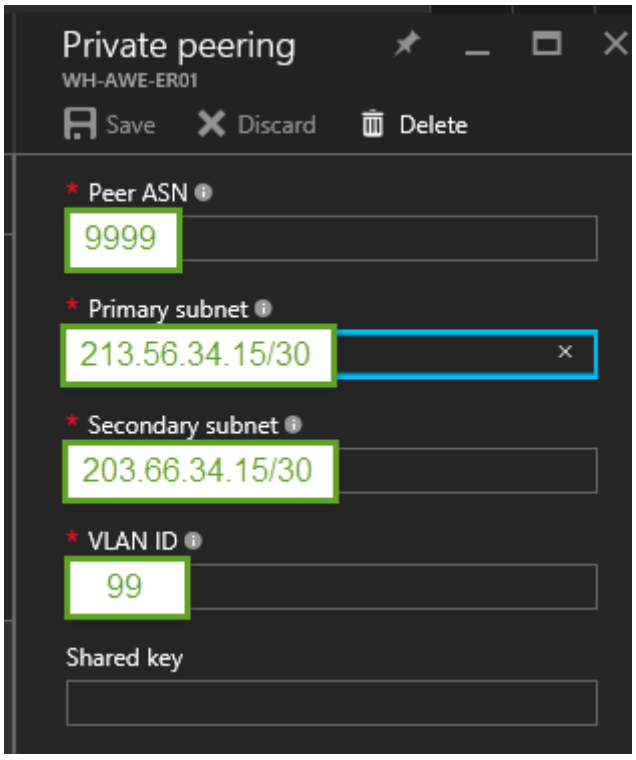

Create ExpressRoute ci...
Create new or import from classic
Create new
Import
* Circuit name
DCF-ANE-EX01
* Provider
Equinix
* Peering location
Amsterdam
* Bandwidth
50Mbps
* SKU
Standard
Premium
* Billing model
Unlimited
Metered
Allow classic operations
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
DCF-ANE-RG01
* Location
North Europe
Pin to dashboard
Create
Automation options

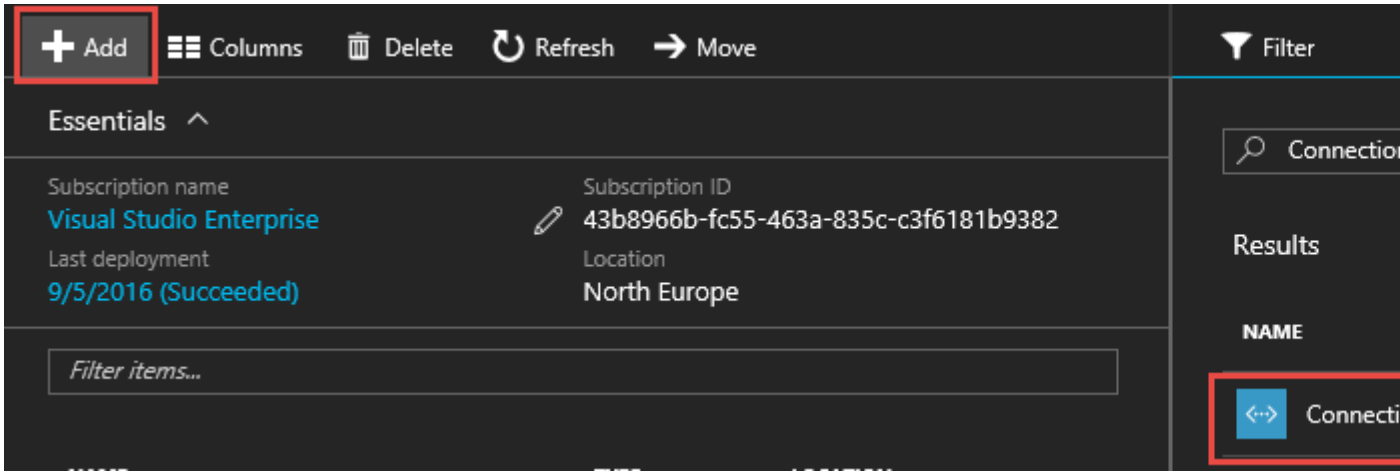

DCF-ANE-EX01
ExpressRoute circuit
Delete
Search (Ctrl+/)
Initiate the provisioning process with your service provider.
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Configuration
Connections
Peerings
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
New support request
Essentials
Resource group
DCF-ANE-RG01
Circuit status
Enabled
Location
North Europe
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Provider
Equinix
Provider status
Not provisioned
Peering location
Amsterdam
Bandwidth
50 Mbps
Service key
2c3b3488-2f70-48d6-a2
Peerings
TYPE
STATUS
PRIMARY SUBNET
SECONDARY
Azure private
Disabled
-
-
Azure public
Disabled
-
-
Microsoft
Disabled
-
-

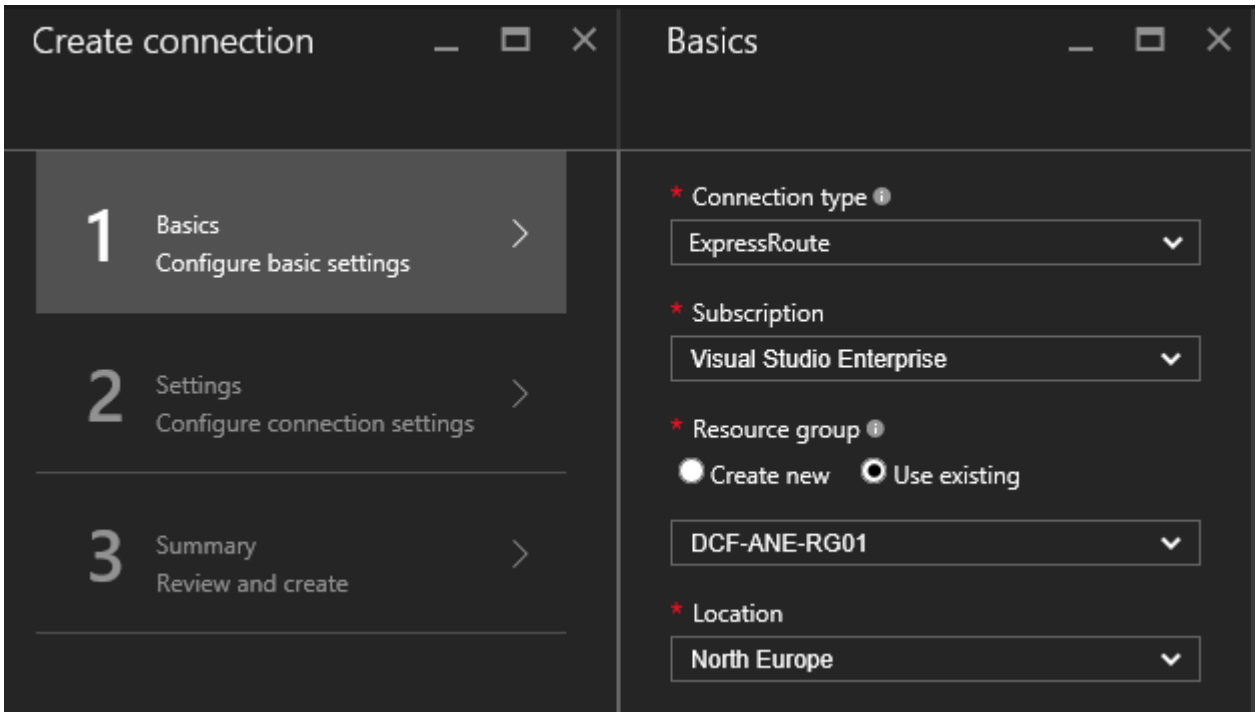

Resource group
[redacted]
Circuit status
Enabled
Location
West Europe
Subscription name
Azure in Open
Subscription ID
[redacted]
Provider
Equinix
[redacted]
Peering location
Amsterdam
Bandwidth
200 Mbps
Service key
[redacted]

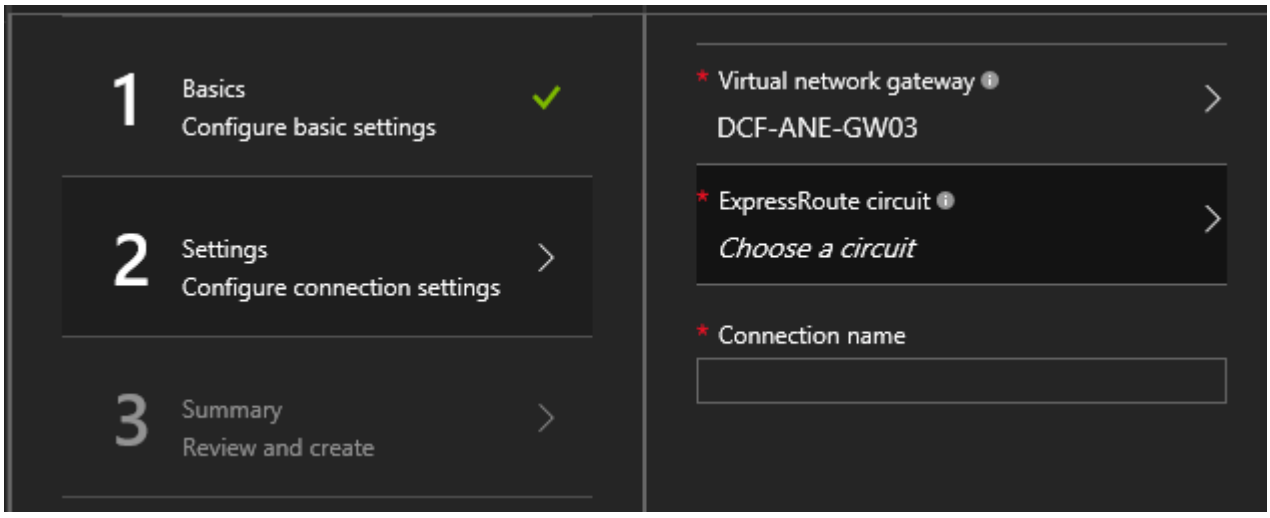

* Peer ASN
0
* Primary subnet
* Secondary subnet
* VLAN ID
0
* Advertised public prefixes
Status: Not configured
Customer ASN
0
Routing registry name
None
Shared key

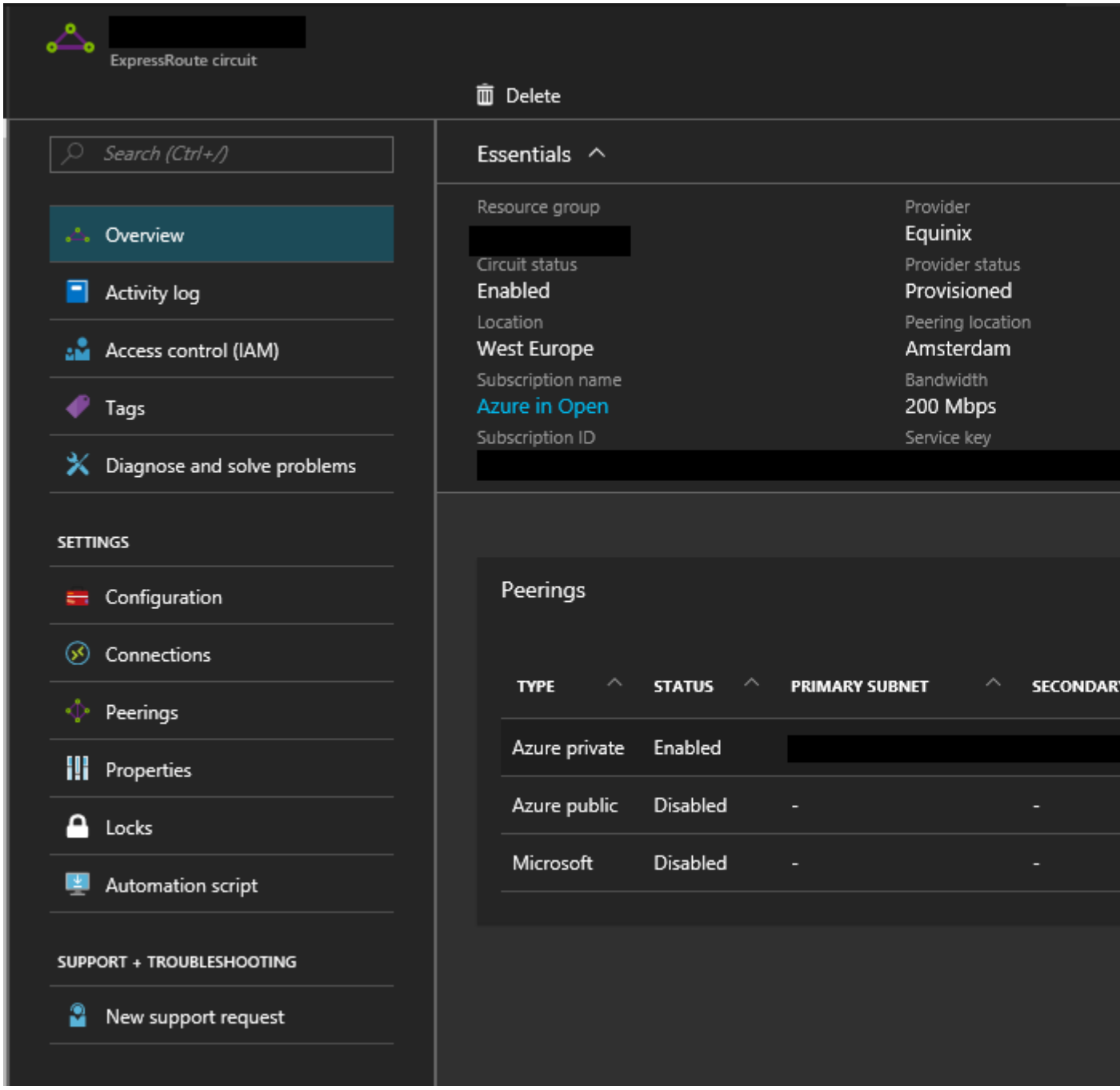

Essentials
Resource group
[redacted]
Provider
Equinix
Circuit status
Enabled
Provider status
Provisioned
Location
West Europe
Peering location
Amsterdam
Subscription name
Azure in Open
Bandwidth
200 Mbps
Subscription ID
[redacted]
Service key
Peerings
TYPE
STATUS
PRIMARY SUBNET
SECONDARY SUBNET
Azure private
Enabled
[redacted]
[redacted]
Azure public
Disabled
-
-
Microsoft
Disabled
-
-

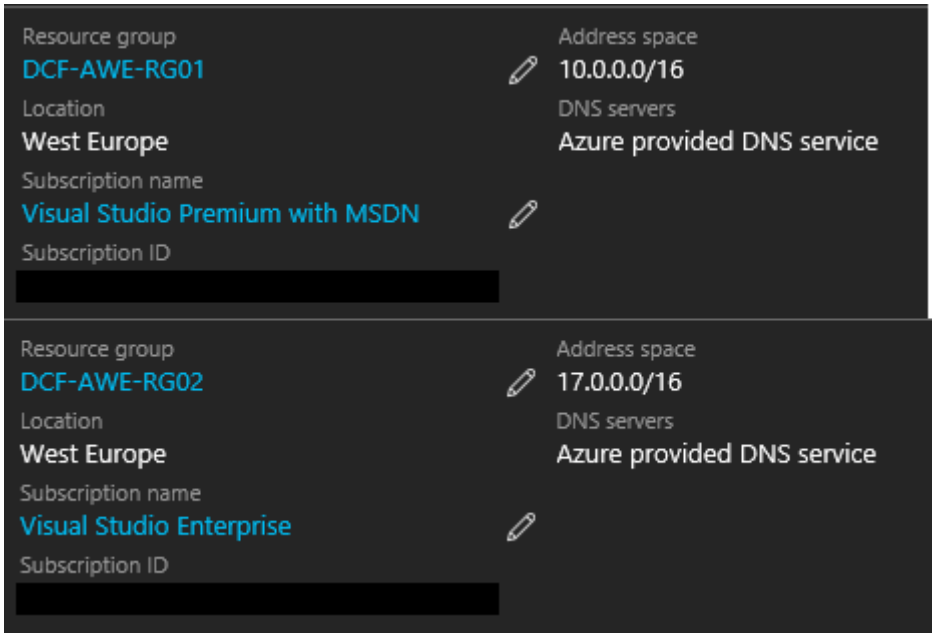

Private peering
WH-AWE-ER01
Save
Discard
Delete
* Peer ASN
9999
* Primary subnet
213.56.34.15/30
* Secondary subnet
203.66.34.15/30
* VLAN ID
99
Shared key

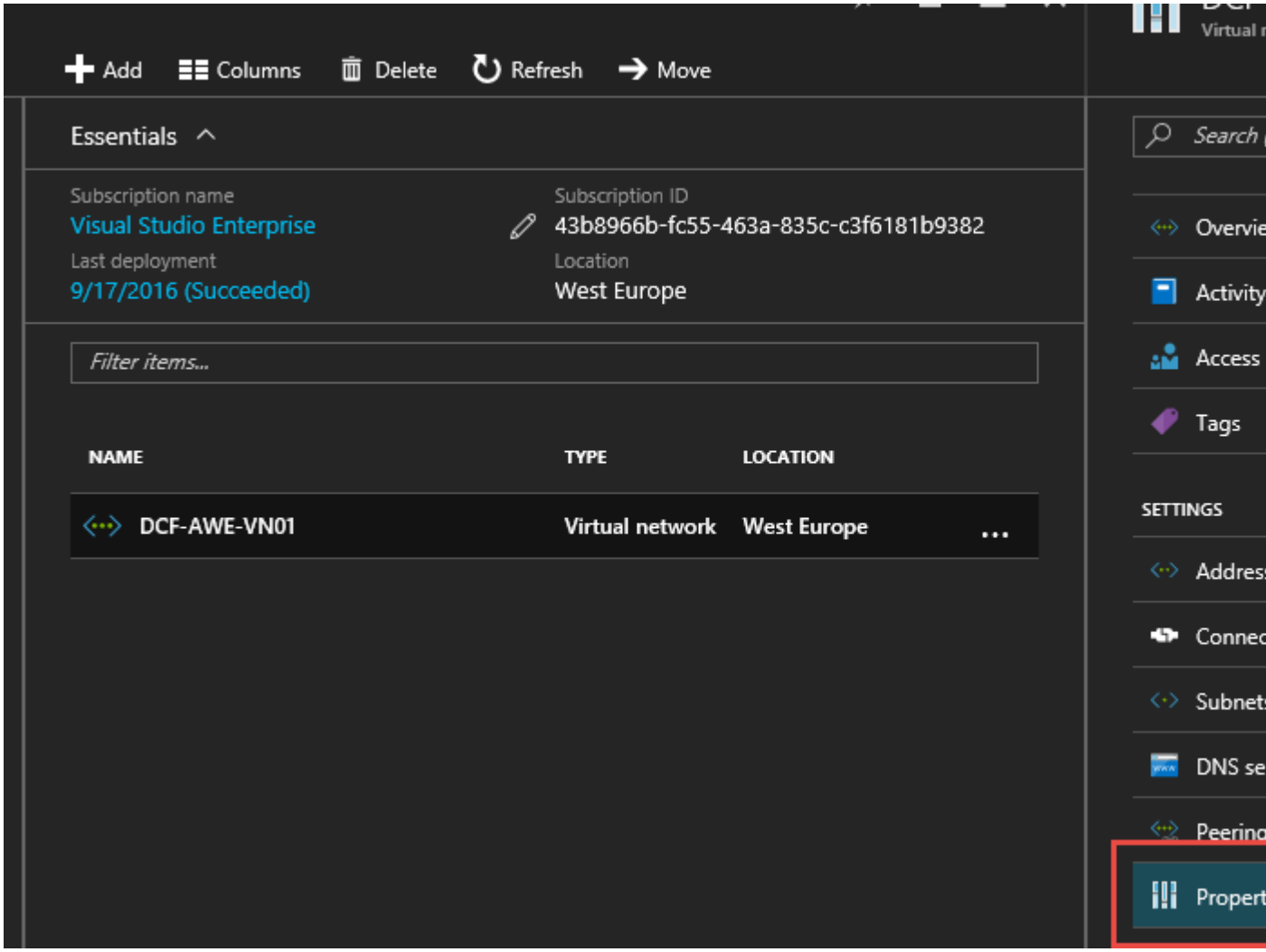

Add
Columns
Delete
Refresh
Move
Filter
Essentials
Subscription name
Visual Studio Enterprise
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Last deployment
9/5/2016 (Succeeded)
Location
North Europe
Filter items...
Connectio
Results
NAME
Connecti

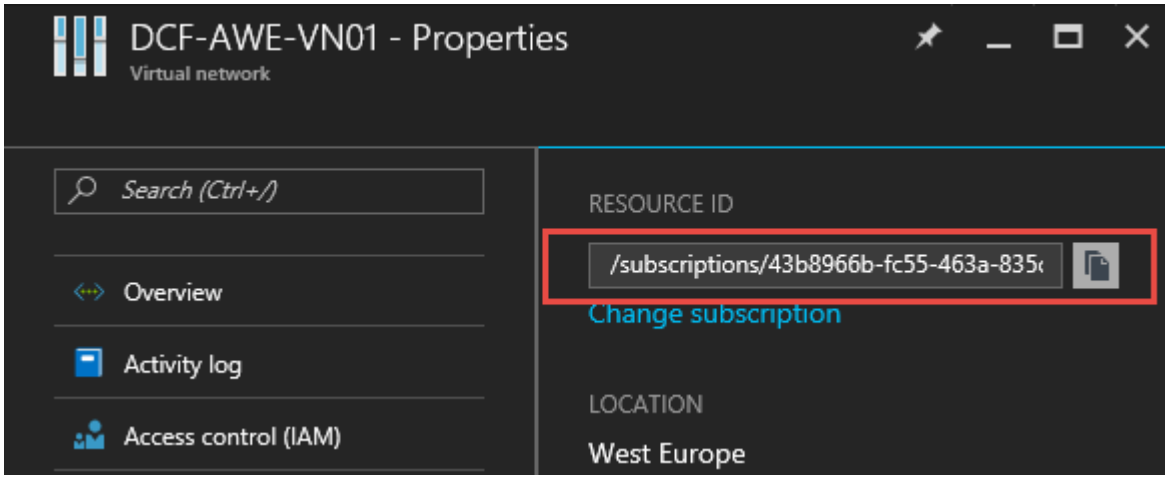

Create connection
Basics
1
Basics
Configure basic settings
2
Settings
Configure connection settings
3
Summary
Review and create
* Connection type
ExpressRoute
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
DCF-ANE-RG01
* Location
North Europe

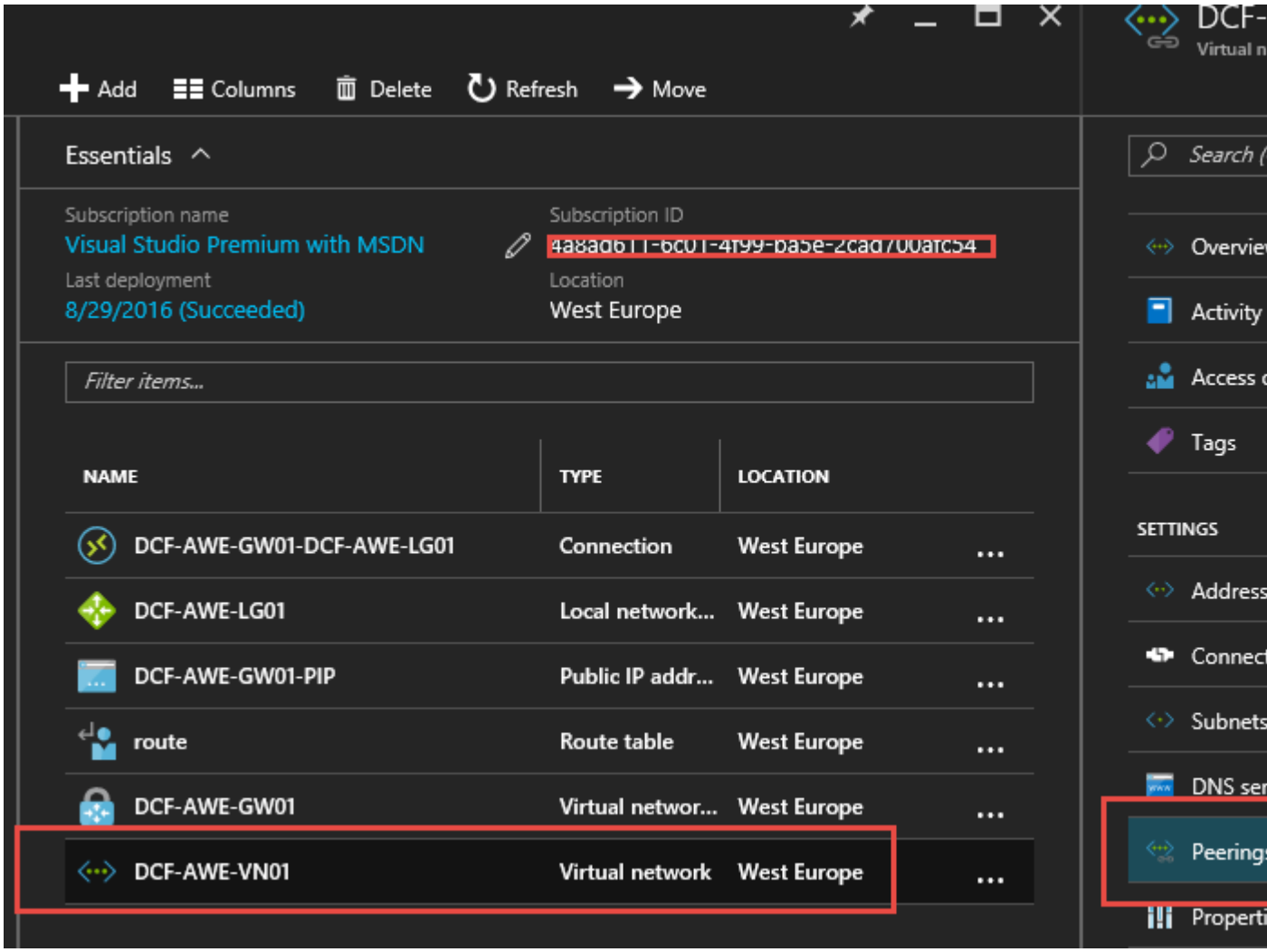

1
Basics
Configure basic settings
2
Settings
Configure connection settings
3
Summary
Review and create
* Virtual network gateway
DCF-ANE-GW03
* ExpressRoute circuit
Choose a circuit
* Connection name

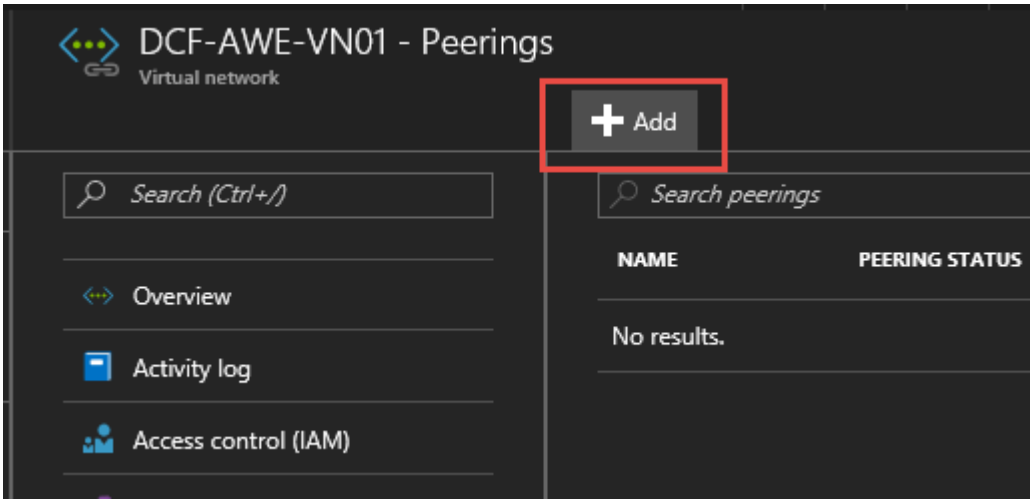

[redacted]
ExpressRoute circuit
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Configuration
Connections
Peerings
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
New support request
Essentials
Resource group
[redacted]
Circuit status
Enabled
Location
West Europe
Subscription name
Azure in Open
Subscription ID
[redacted]
Provider
Equinix
Provider status
Provisioned
Peering location
Amsterdam
Bandwidth
200 Mbps
Service key
Peerings
TYPE
STATUS
PRIMARY SUBNET
SECONDAR
Azure private
Enabled
[redacted]
Azure public
Disabled
-
-
Microsoft
Disabled
-
-

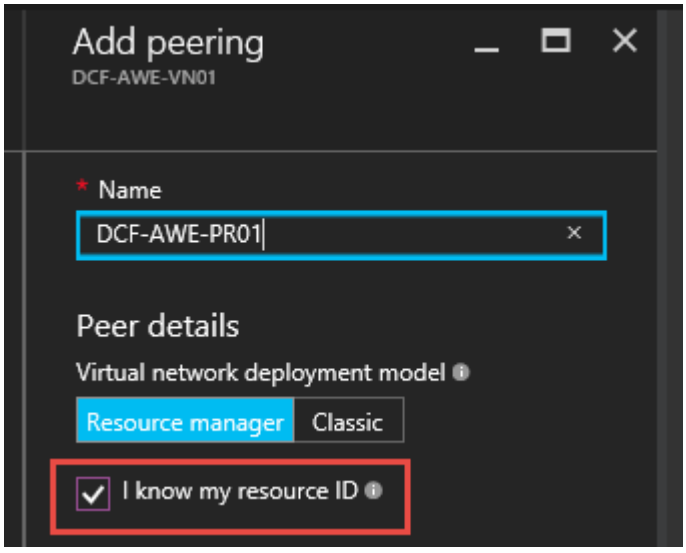

Resource group
DCF-AWE-RG01
Location
West Europe
Subscription name
Visual Studio Premium with MSDN
Subscription ID
[redacted]
Address space
10.0.0.0/16
DNS servers
Azure provided DNS service
Resource group
DCF-AWE-RG02
Location
West Europe
Subscription name
Visual Studio Enterprise
Subscription ID
[redacted]
Address space
17.0.0.0/16
DNS servers
Azure provided DNS service

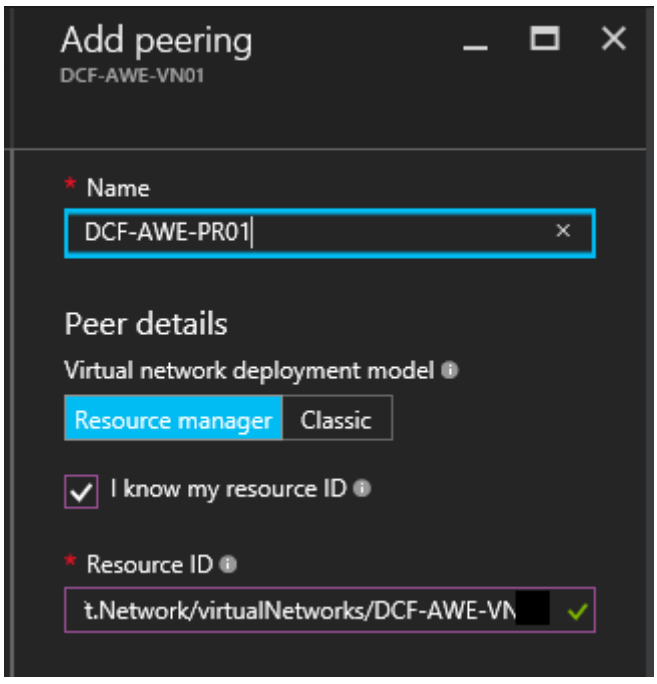

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name
Visual Studio Enterprise
Last deployment
9/17/2016 (Succeeded)
Subscription ID
43b8966b-fc55-463a-835c-c3f6181b9382
Location
West Europe
Filter items...
NAME
TYPE
LOCATION
DCF-AWE-VN01
Virtual network
West Europe
Search
Overvie
Activity
Access
Tags
SETTINGS
Addres
Connec
Subnets
DNS se
Peering
Propert

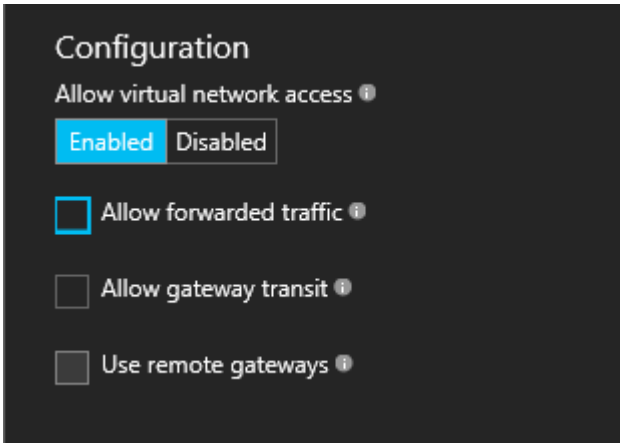

DCF-AWE-VN01 - Properties
Virtual network
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
RESOURCE ID
/subscriptions/43b8966b-fc55-463a-835
Change subscription
LOCATION
West Europe

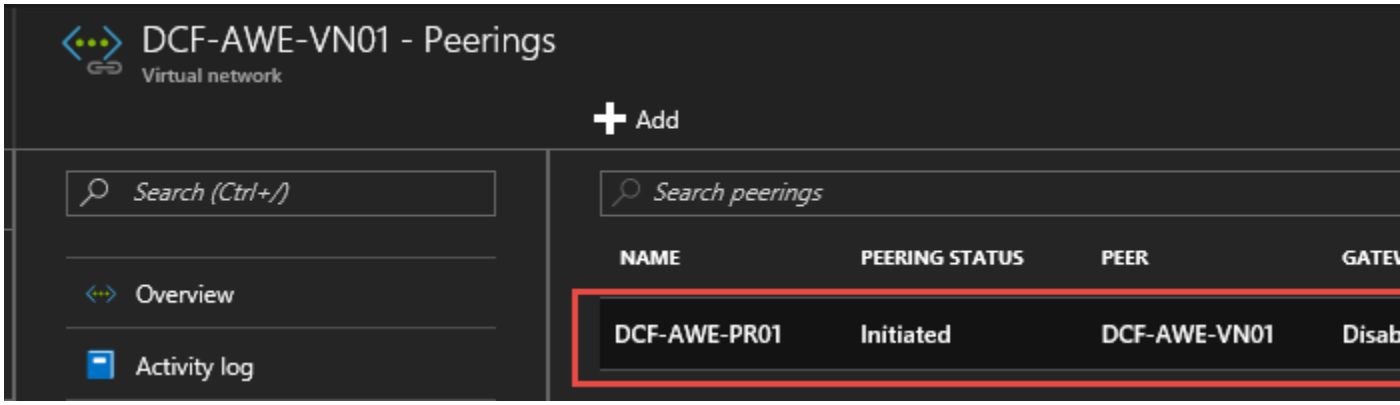

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name
Visual Studio Premium with MSDN
Last deployment
8/29/2016 (Succeeded)
Subscription ID
Location
West Europe
Filter items...
NAME
TYPE
LOCATION
DCF-AWE-GW01-DCF-AWE-LG01
Connection
West Europe
DCF-AWE-LG01
Local network...
West Europe
DCF-AWE-GW01-PIP
Public IP addr...
West Europe
route
Route table
West Europe
DCF-AWE-GW01
Virtual networ...
West Europe
DCF-AWE-VN01
Virtual network
West Europe
Tags
SETTINGS
Address
Subnets
Peerings

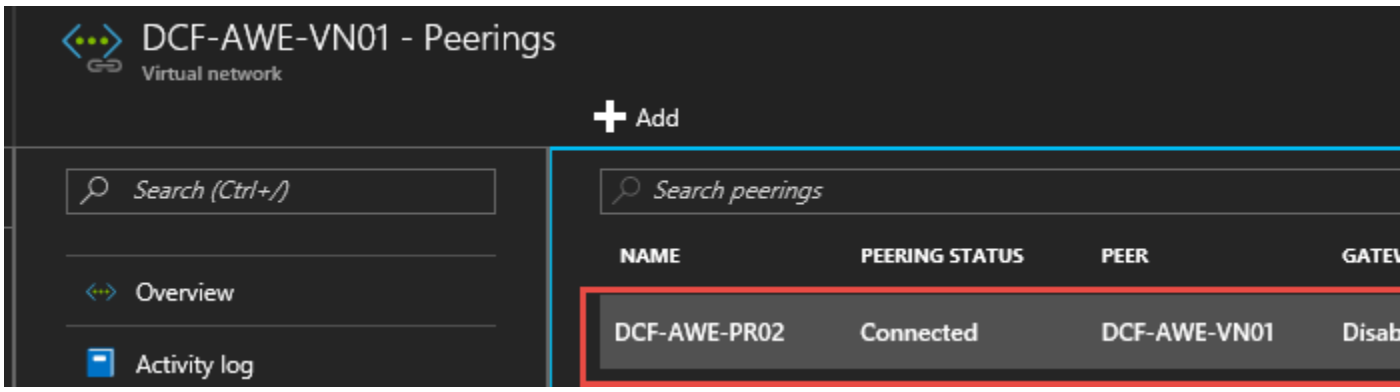

DCF-AWE-VN01 - Peerings
Virtual network
Add
Search (Ctrl+/)
Search peerings
NAME
PEERING STATUS
Overview
Activity log
Access control (IAM)
No results.

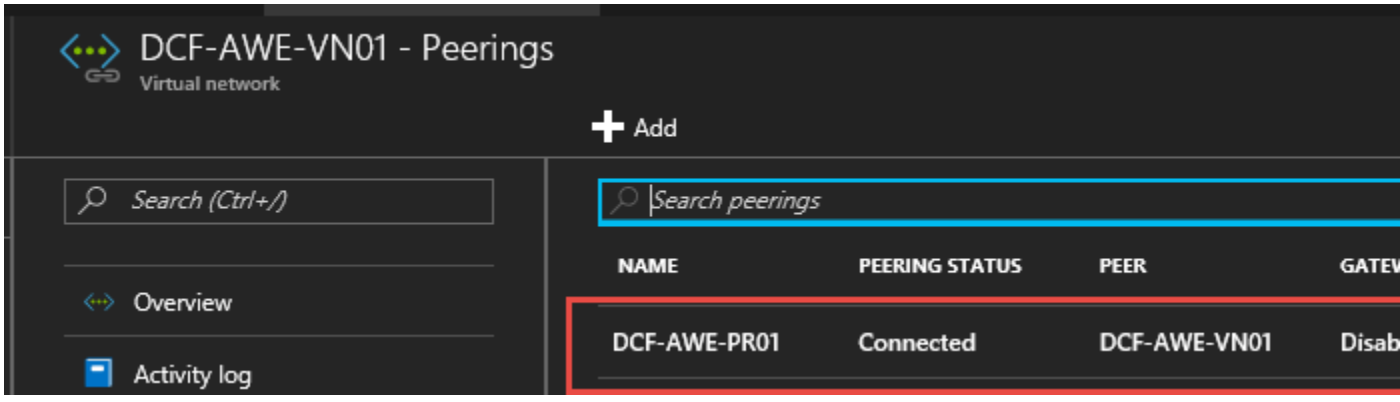

Add peering
DCF-AWE-VN01
* Name
DCF-AWE-PR01
Peer details
Virtual network deployment model
Resource manager
Classic
I know my resource ID

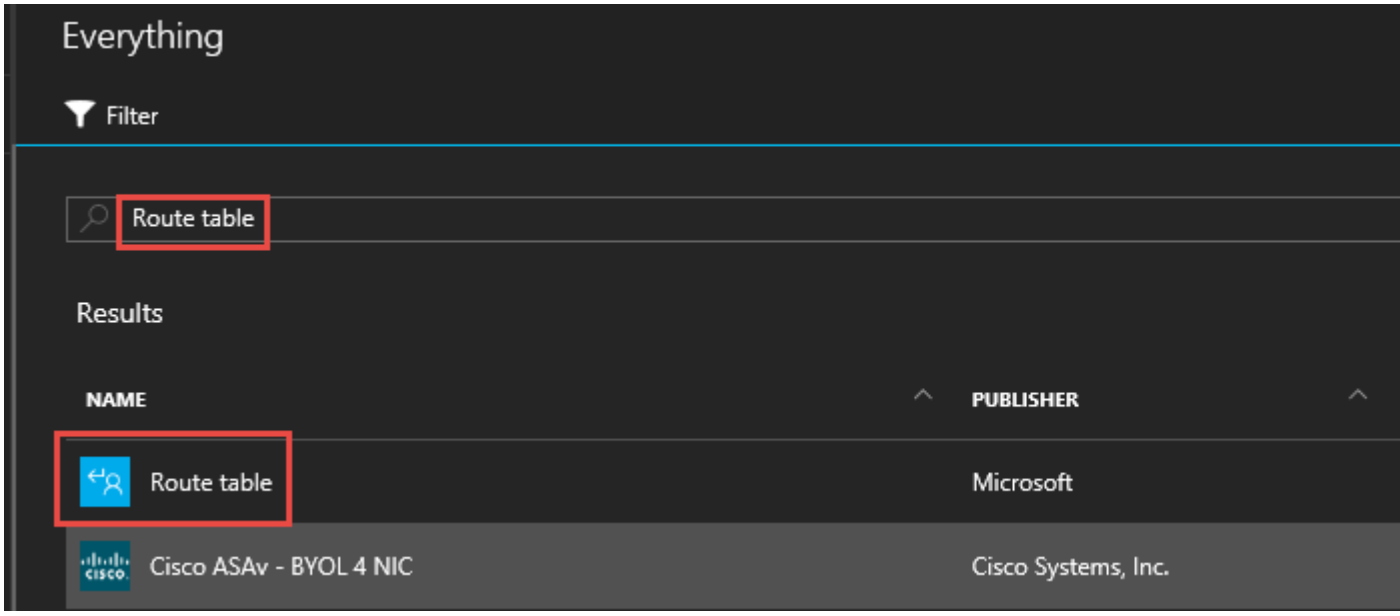

Add peering
DCF-AWE-VN01
* Name
DCF-AWE-PR01
Peer details
Virtual network deployment model
Resource manager
Classic
I know my resource ID
* Resource ID
t.Network/virtualNetworks/DCF-AWE-VN

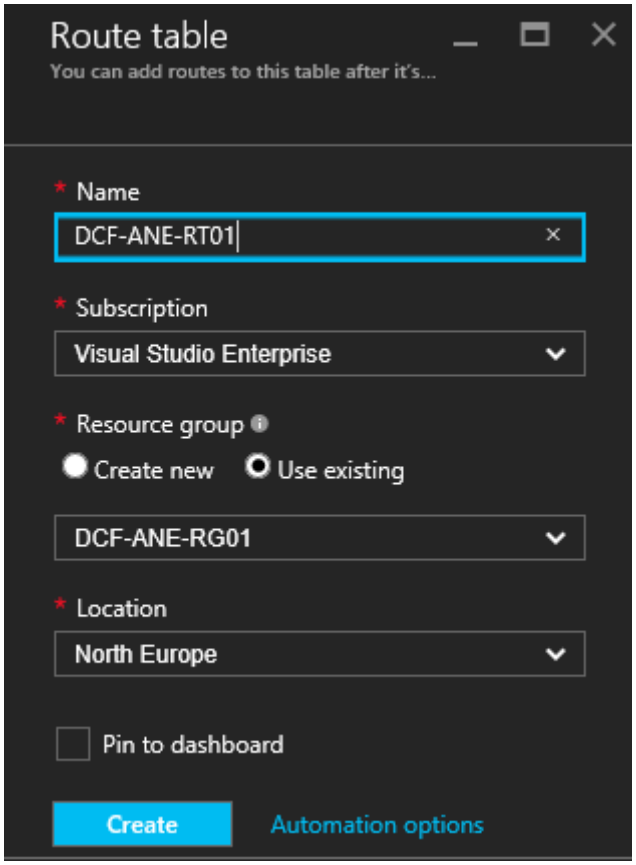

Configuration
Allow virtual network access
Enabled
Disabled
Allow forwarded traffic
Allow gateway transit
Use remote gateways

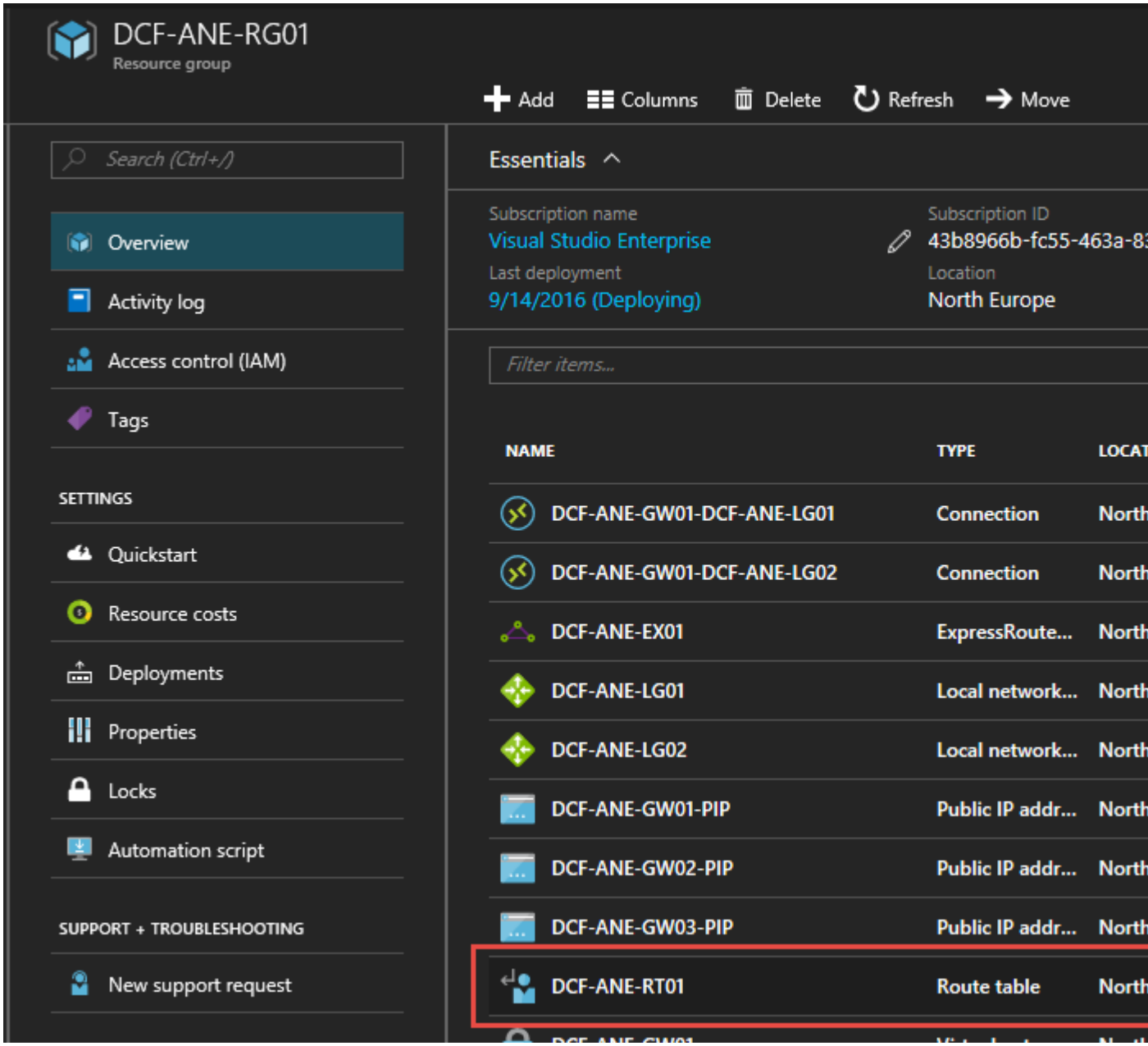

DCF-AWE-VN01 - Peerings
Virtual network
Add
Search (Ctrl+/)
Search peerings
Overview
Activity log
NAME
PEERING STATUS
PEER
GATEV
DCF-AWE-PR01
Initiated
DCF-AWE-VN01
Disab

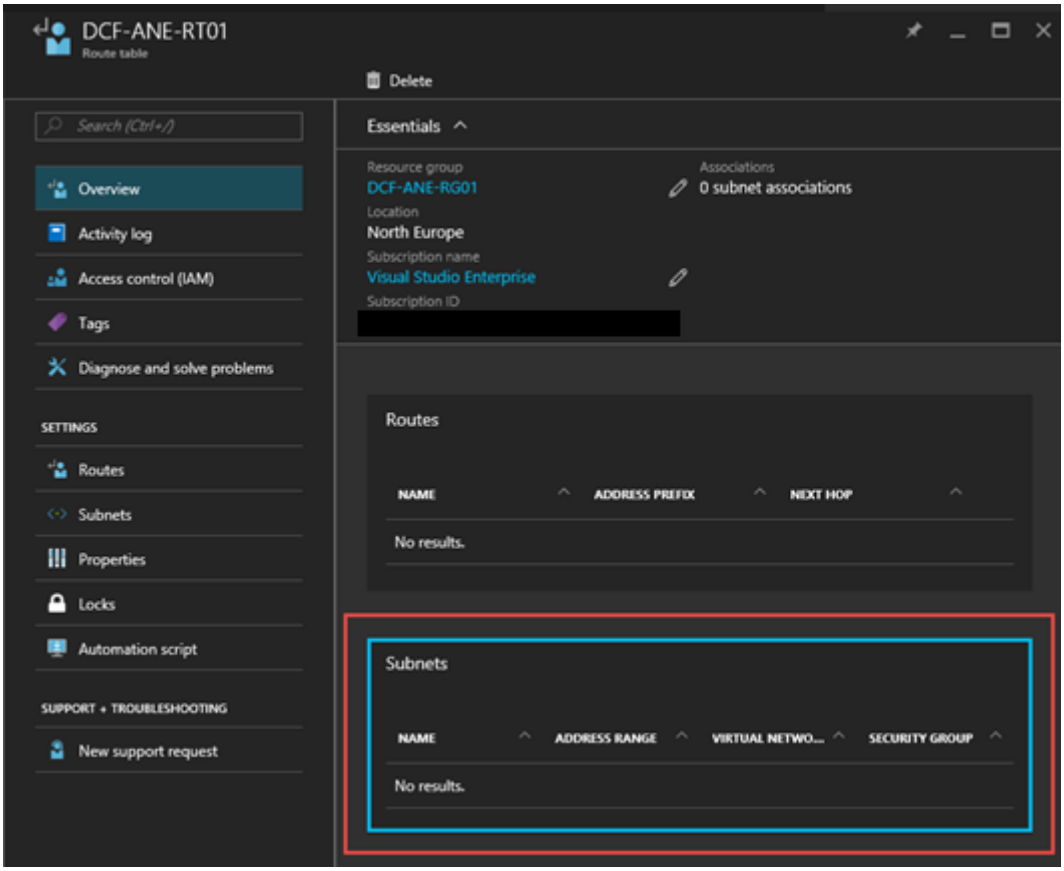

DCF-AWE-VN01 - Peerings
Virtual network
Add
Search (Ctrl+/)
Search peerings
Overview
Activity log
NAME
PEERING STATUS
PEER
GATEV
DCF-AWE-PR02
Connected
DCF-AWE-VN01
Disab

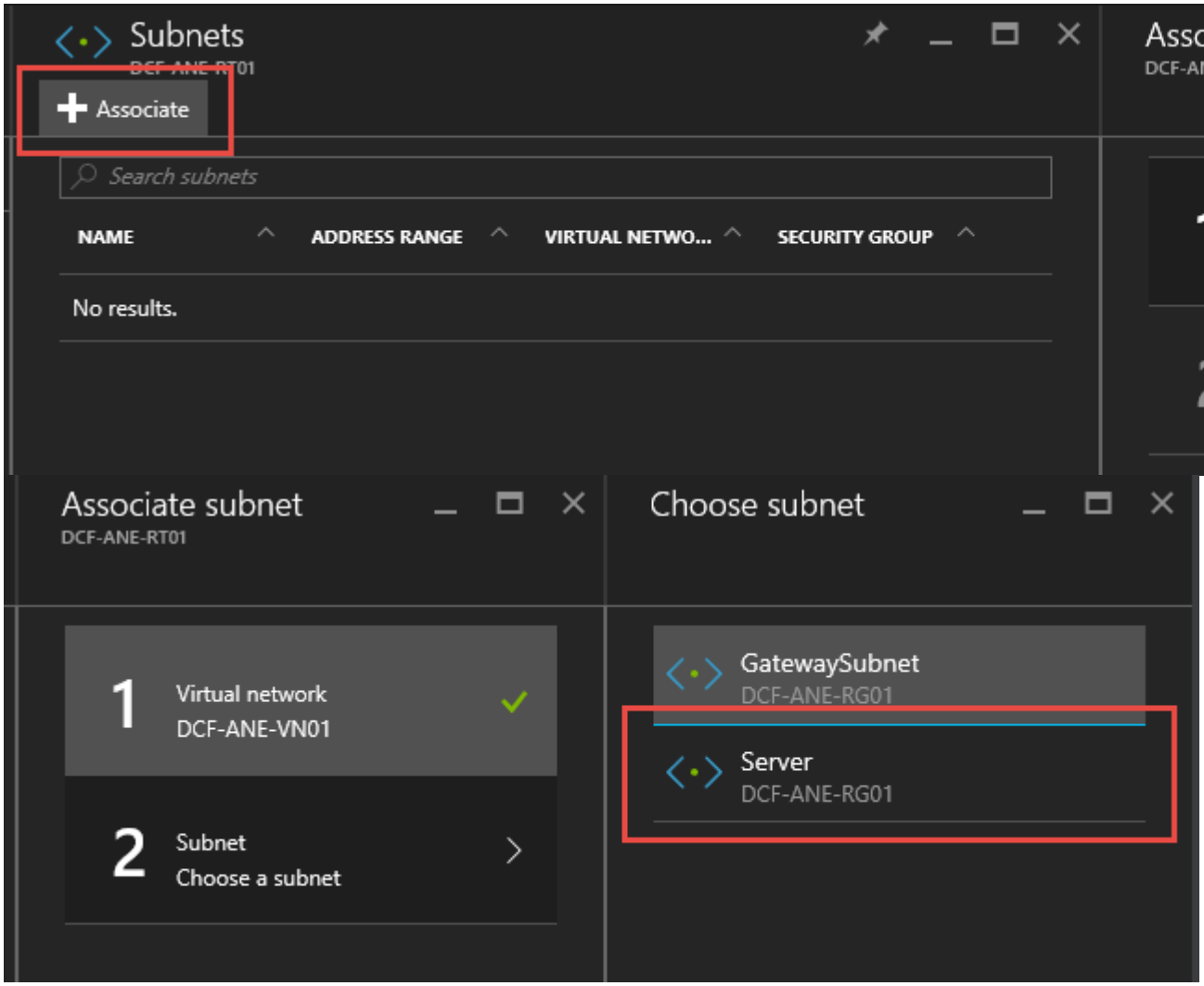

DCF-AWE-VN01 - Peerings
Virtual network
Add
Search (Ctrl+/)
Search peerings
Overview
Activity log
NAME
PEERING STATUS
PEER
GATEV
DCF-AWE-PR01
Connected
DCF-AWE-VN01
Disab

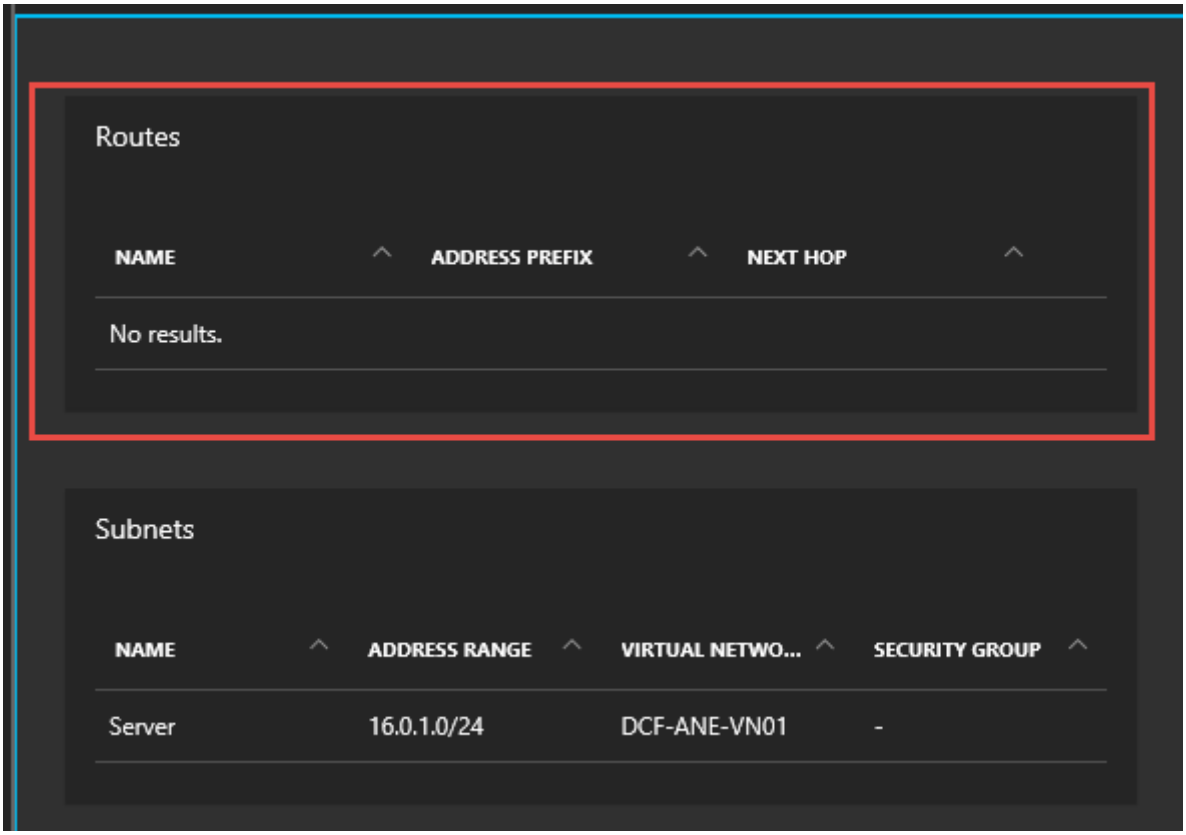

Everything
Filter
Route table
Results
NAME
PUBLISHER
Route table
Microsoft
Cisco ASAv - BYOL 4 NIC
Cisco Systems, Inc.

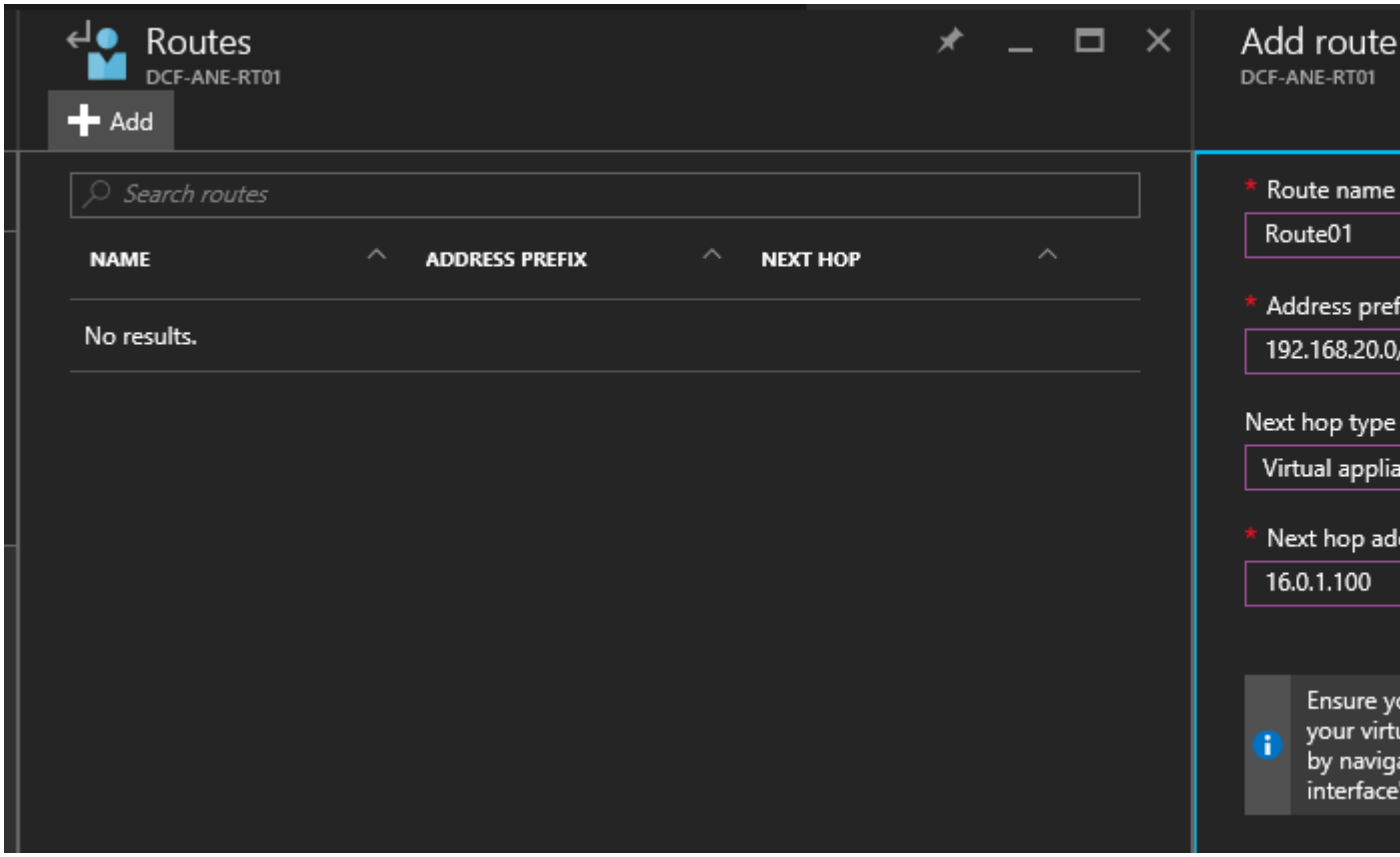

Route table
You can add routes to this table after it's...
* Name
DCF-ANE-RT01
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
DCF-ANE-RG01
* Location
North Europe
Pin to dashboard
Create
Automation options

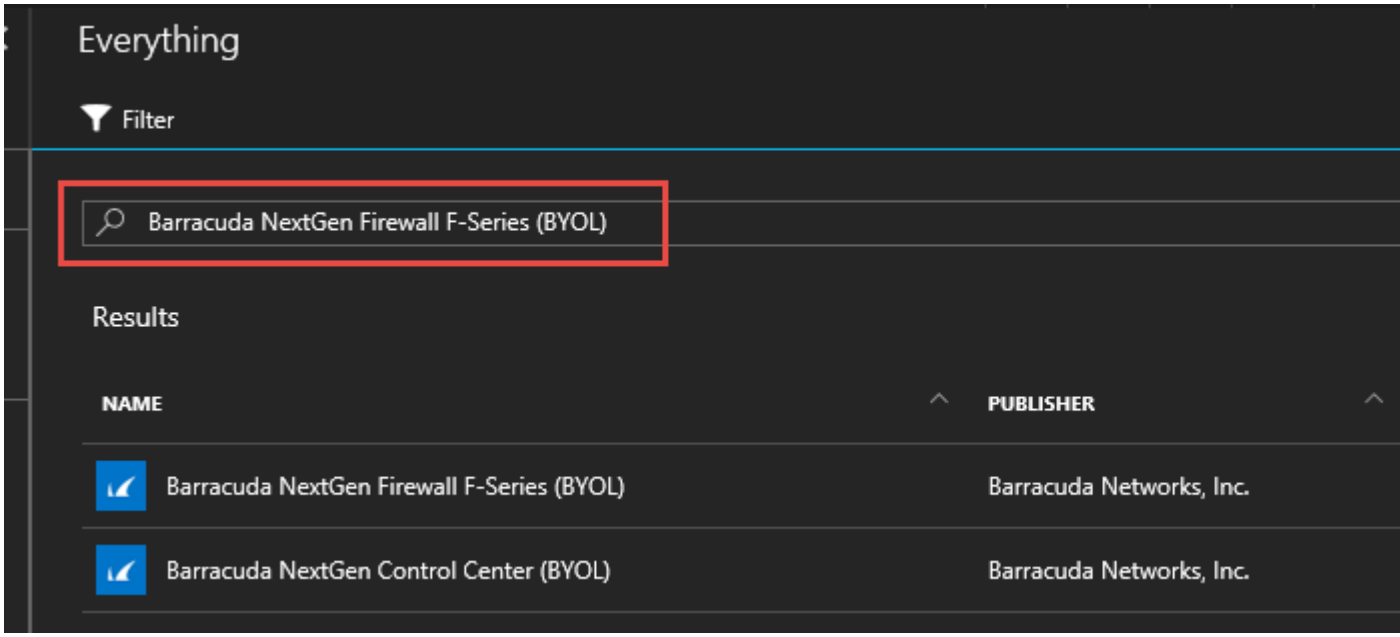

DCF-ANE-RG01
Resource group
Add
Columns
Delete
Refresh
Move
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Resource costs
Deployments
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
New support request
Essentials
Subscription name
Visual Studio Enterprise
Last deployment
9/14/2016 (Deploying)
Subscription ID
43b8966b-fc55-463a-83
Location
North Europe
Filter items...
NAME
TYPE
LOCAT
DCF-ANE-GW01-DCF-ANE-LG01
Connection
North
DCF-ANE-GW01-DCF-ANE-LG02
Connection
North
DCF-ANE-EX01
ExpressRoute...
North
DCF-ANE-LG01
Local network...
North
DCF-ANE-LG02
Local network...
North
DCF-ANE-GW01-PIP
Public IP addr...
North
DCF-ANE-GW02-PIP
Public IP addr...
North
DCF-ANE-GW03-PIP
Public IP addr...
North
DCF-ANE-RT01
Route table
North

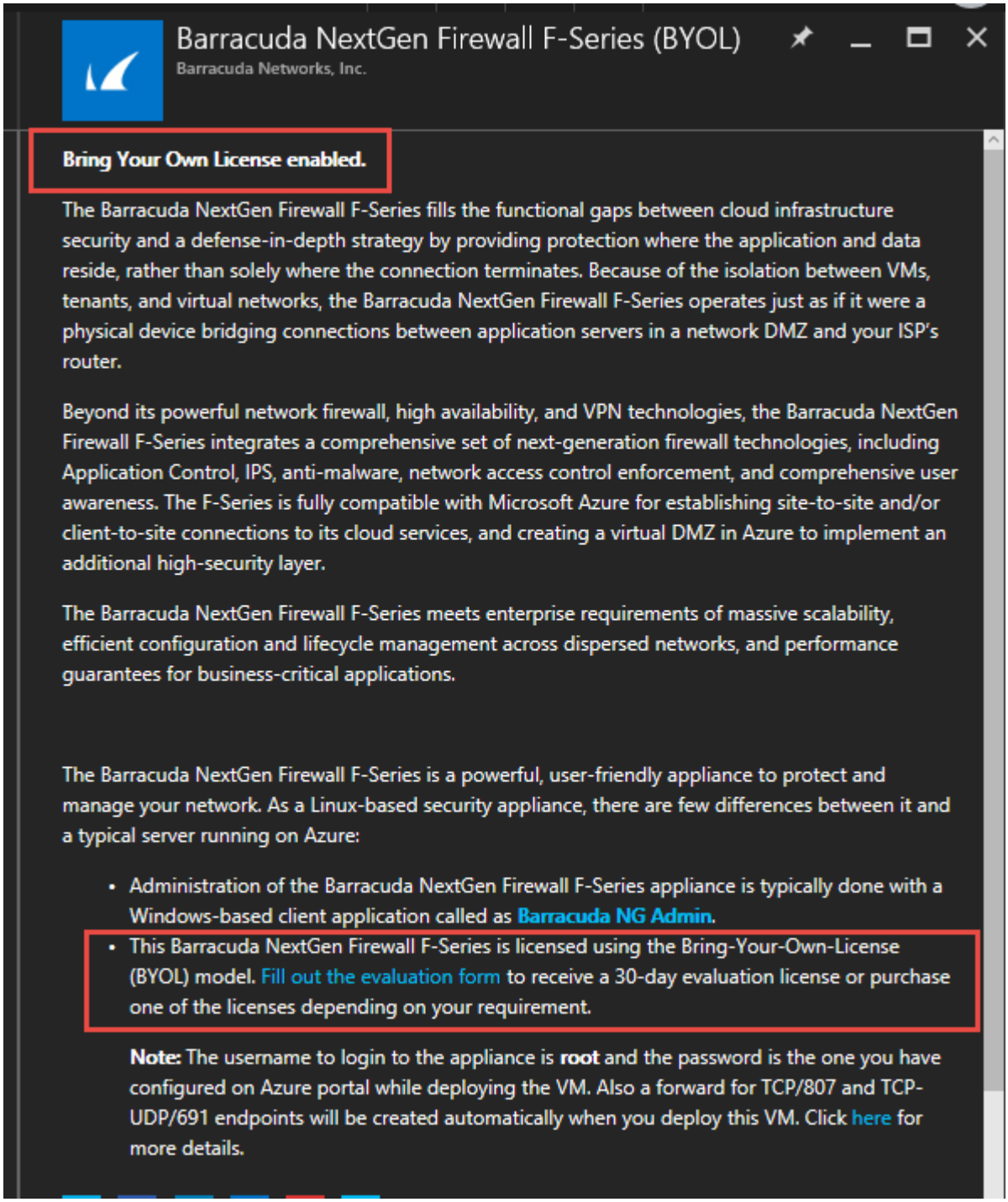

DCF-ANE-RT01
Route table
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Routes
Subnets
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
New support request
Essentials
Resource group
DCF-ANE-RG01
Location
North Europe
Subscription name
Visual Studio Enterprise
Subscription ID
Associations
0 subnet associations
Routes
NAME
ADDRESS PREFIX
NEXT HOP
No results.
Subnets
NAME
ADDRESS RANGE
VIRTUAL NETWO...
SECURITY GROUP
No results.

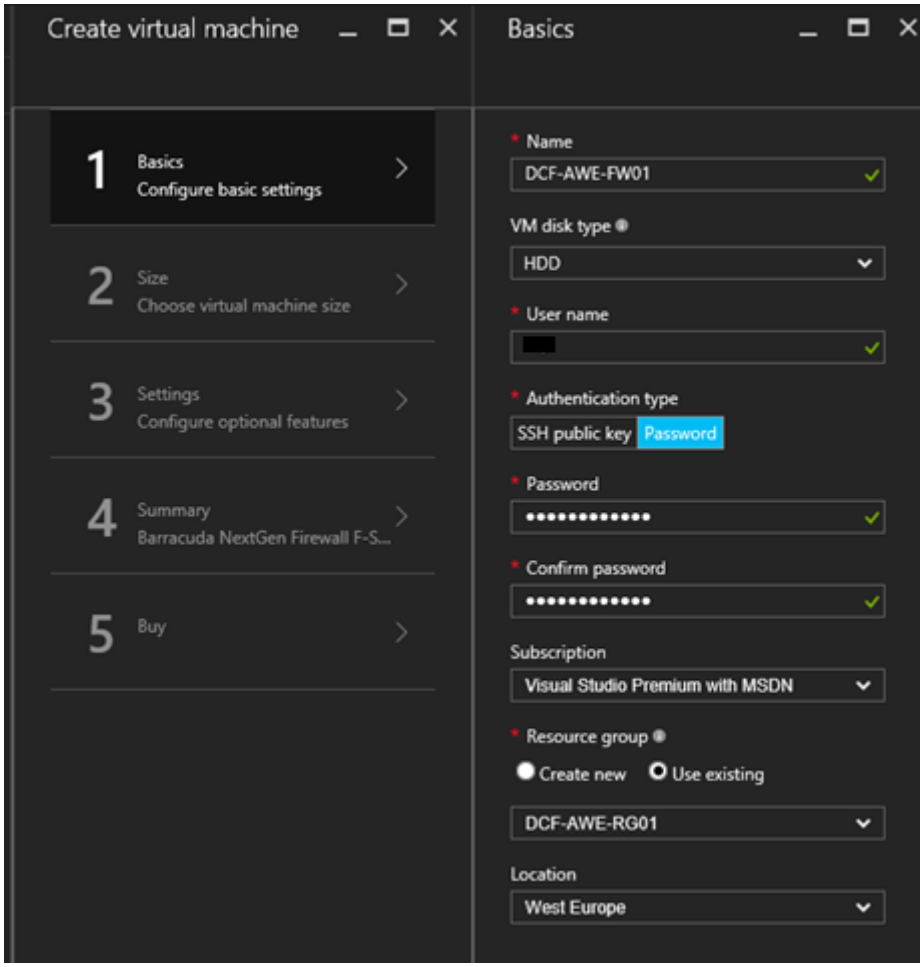

Subnets
DCF-ANE-RT01
Associate
Search subnets
NAME
ADDRESS RANGE
VIRTUAL NETWO...
SECURITY GROUP
No results.
Associate s
DCF-ANE-RT01
1
2
Associate subnet
DCF-ANE-RT01
1
Virtual network
DCF-ANE-VN01
2
Subnet
Choose a subnet
Choose subnet
GatewaySubnet
DCF-ANE-RG01
Server
DCF-ANE-RG01

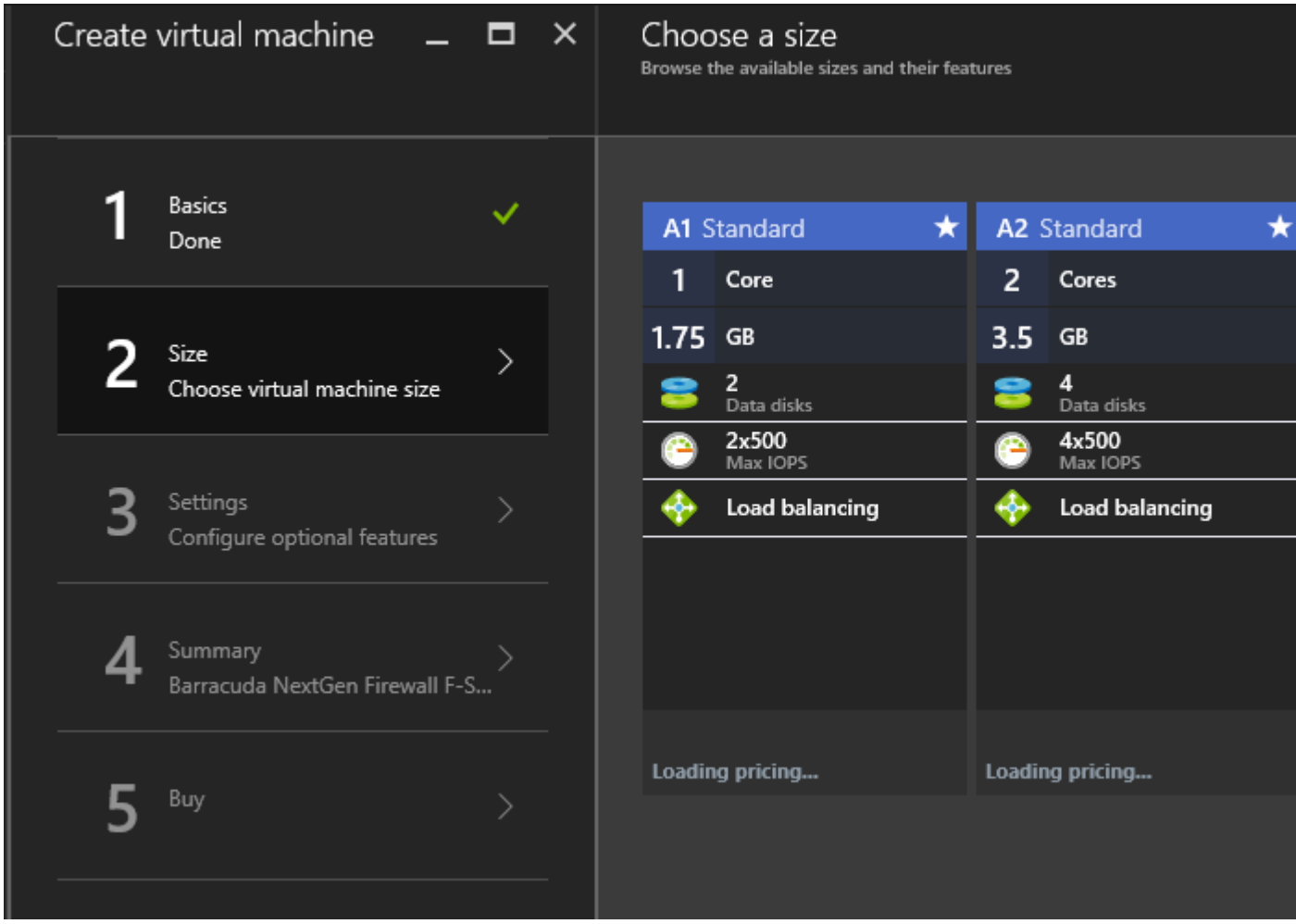

Routes
NAME
ADDRESS PREFIX
NEXT HOP
No results.
Subnets
NAME
ADDRESS RANGE
VIRTUAL NETWO...
SECURITY GROUP
Server
16.0.1.0/24
DCF-ANE-VN01
-

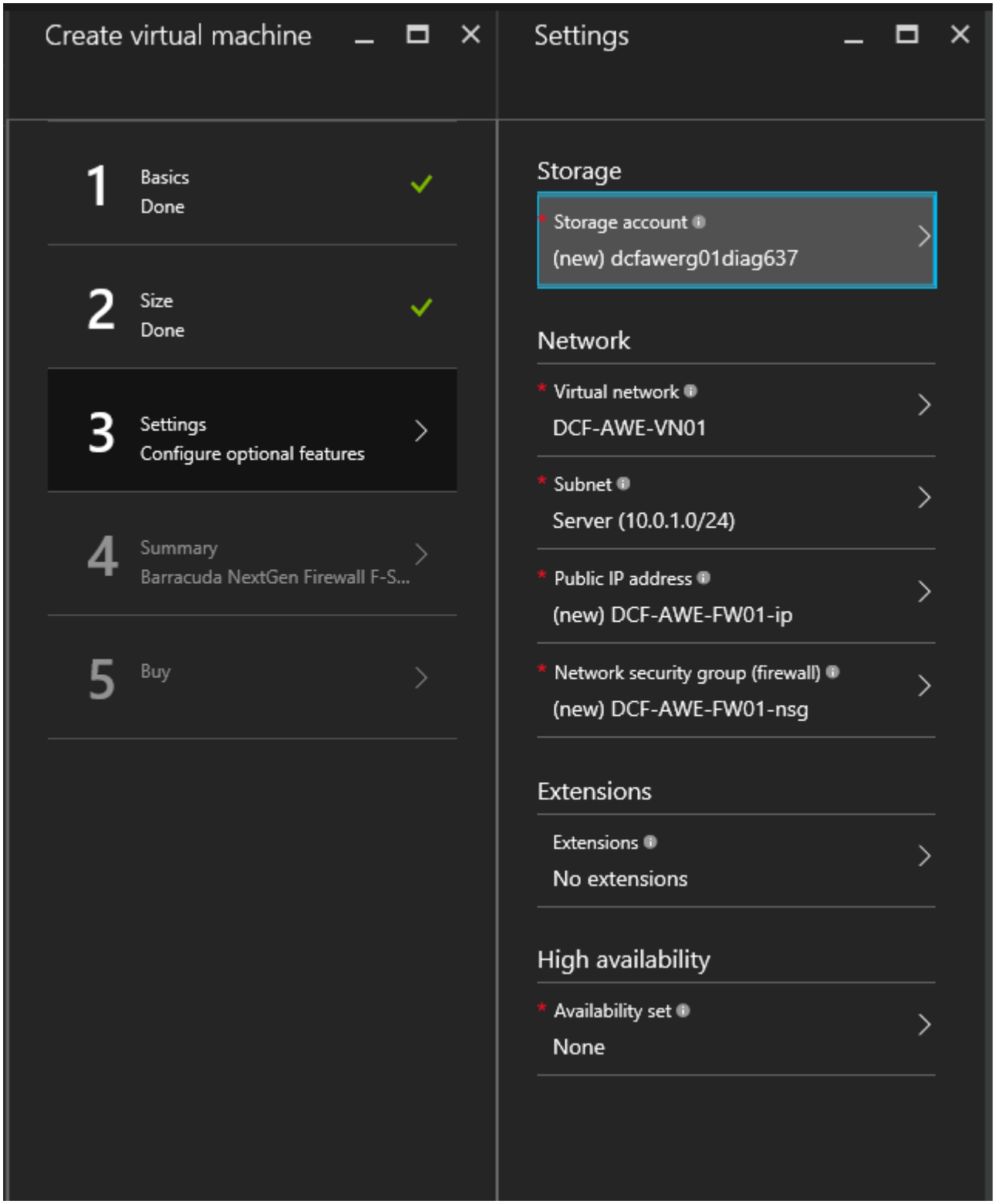

Routes
DCF-ANE-RT01
Add
Search routes
NAME
ADDRESS PREFIX
NEXT HOP
No results.
Add route
DCF-ANE-RT01
Route name
Route01
Address pref
192.168.20.0/
Next hop type
Virtual appli
Next hop ad
16.0.1.100
Ensure yo
your virtu
by naviga
interface

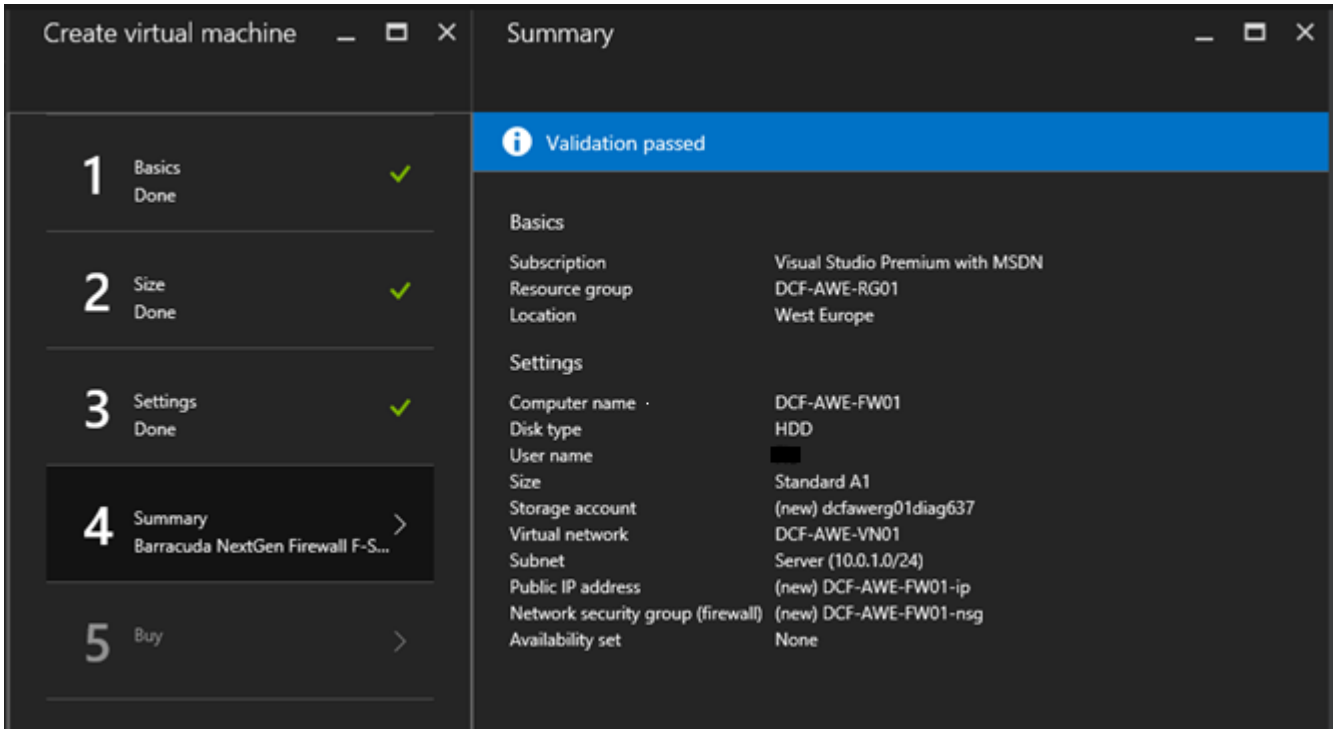

Everything
Filter
Barracuda NextGen Firewall F-Series (BYOL)
Results
NAME
PUBLISHER
Barracuda NextGen Firewall F-Series (BYOL)
Barracuda Networks, Inc.
Barracuda NextGen Control Center (BYOL)
Barracuda Networks, Inc.

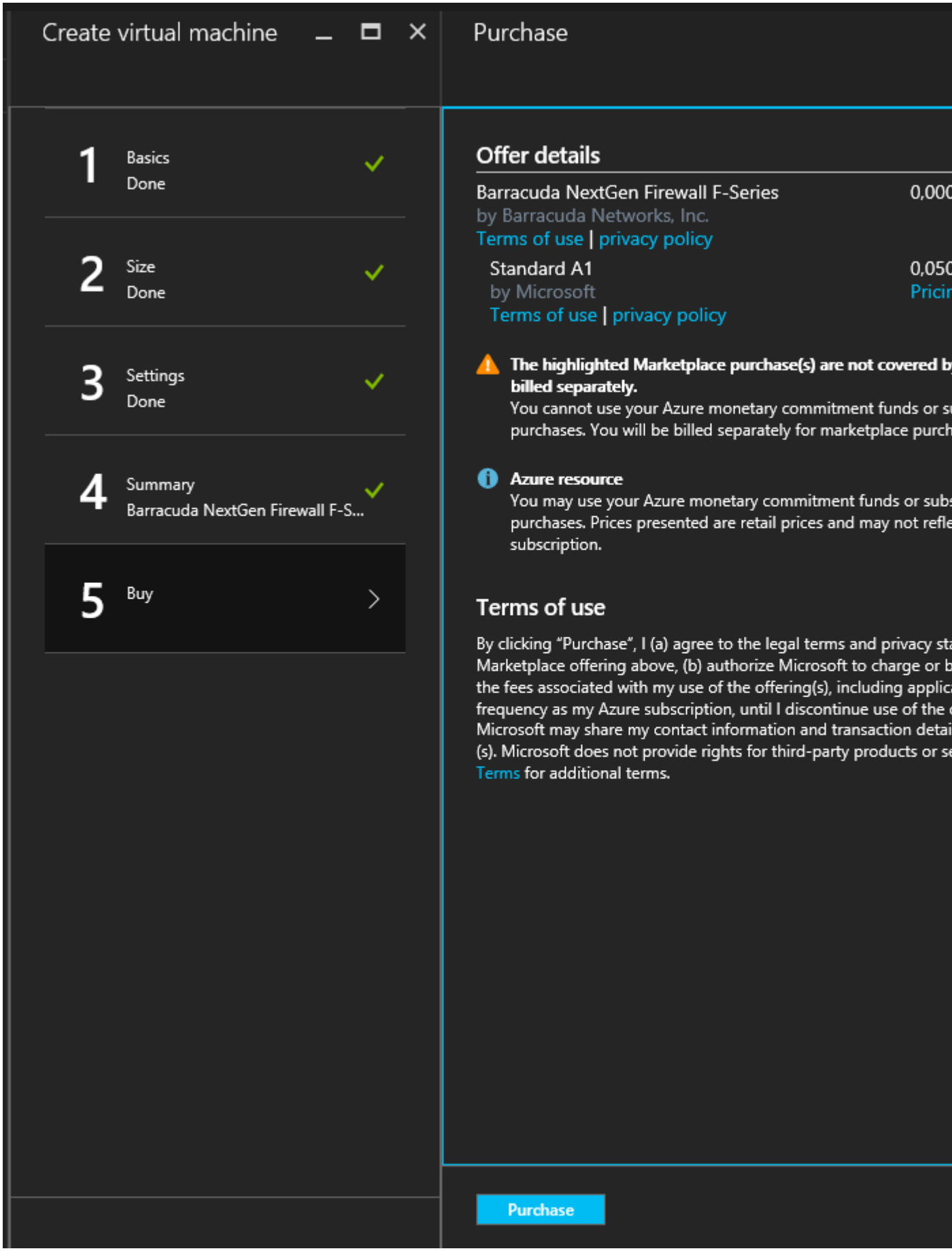

Barracuda NextGen Firewall F-Series (BYOL)
Barracuda Networks, Inc.
Bring Your Own License enabled.
The Barracuda NextGen Firewall F-Series fills the functional gaps between cloud infrastructure security and a defense-in-depth strategy by providing protection where the application and data reside, rather than solely where the connection terminates. Because of the isolation between VMs, tenants, and virtual networks, the Barracuda NextGen Firewall F-Series operates just as if it were a physical device bridging connections between application servers in a network DMZ and your ISP's router.
Beyond its powerful network firewall, high availability, and VPN technologies, the Barracuda NextGen Firewall F-Series integrates a comprehensive set of next-generation firewall technologies, including Application Control, IPS, anti-malware, network access control enforcement, and comprehensive user awareness. The F-Series is fully compatible with Microsoft Azure for establishing site-to-site and/or client-to-site connections to its cloud services, and creating a virtual DMZ in Azure to implement an additional high-security layer.
The Barracuda NextGen Firewall F-Series meets enterprise requirements of massive scalability, efficient configuration and lifecycle management across dispersed networks, and performance guarantees for business-critical applications.
The Barracuda NextGen Firewall F-Series is a powerful, user-friendly appliance to protect and manage your network. As a Linux-based security appliance, there are few differences between it and a typical server running on Azure:
• Administration of the Barracuda NextGen Firewall F-Series appliance is typically done with a Windows-based client application called as Barracuda NG Admin.
• This Barracuda NextGen Firewall F-Series is licensed using the Bring-Your-Own-License (BYOL) model. Fill out the evaluation form to receive a 30-day evaluation license or purchase one of the licenses depending on your requirement.
Note: The username to login to the appliance is root and the password is the one you have configured on Azure portal while deploying the VM. Also a forward for TCP/807 and TCP-UDP/691 endpoints will be created automatically when you deploy this VM. Click here for more details.

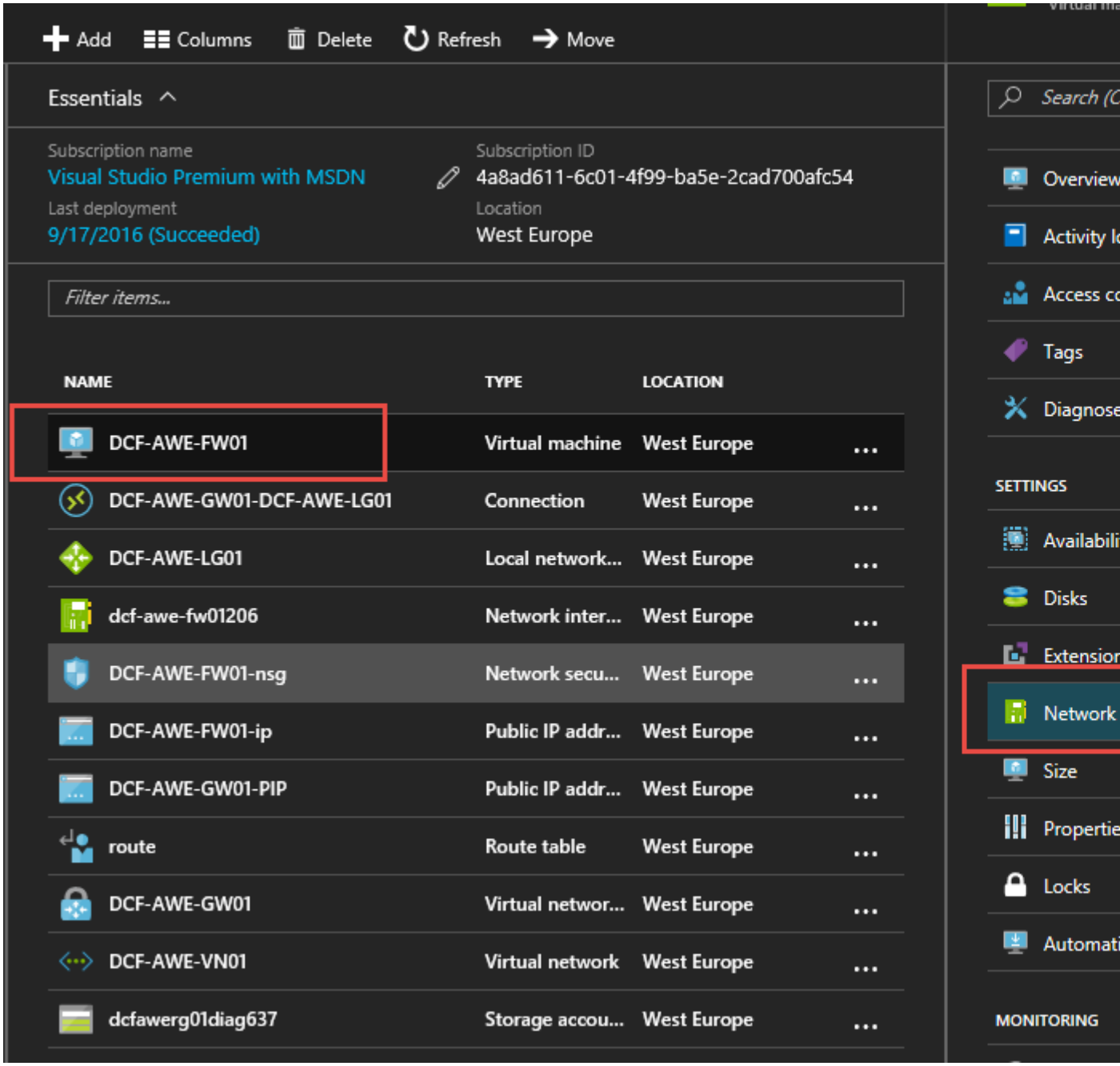

Create virtual machine
1
Basics
Configure basic settings
2
Size
Choose virtual machine size
3
Settings
Configure optional features
4
Summary
Barracuda NextGen Firewall F-S...
5
Buy
Basics
* Name
DCF-AWE-FW01
VM disk type
HDD
* User name
* Authentication type
SSH public key
Password
* Password
* Confirm password
Subscription
Visual Studio Premium with MSDN
* Resource group
Create new
Use existing
DCF-AWE-RG01
Location
West Europe

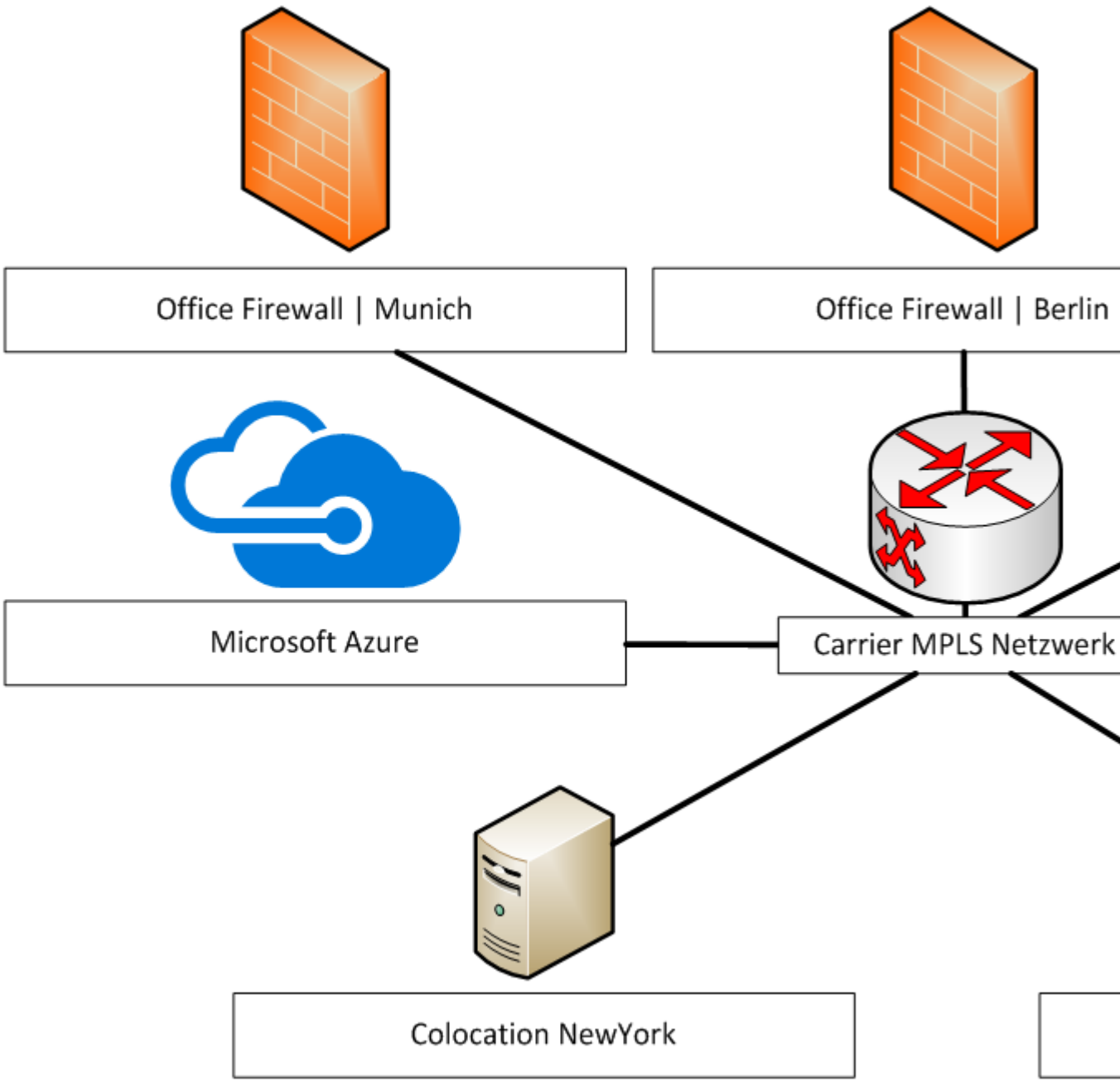

Create virtual machine
1
Basics
Done
2
Size
Choose virtual machine size
3
Settings
Configure optional features
4
Summary
Barracuda NextGen Firewall F-S...
5
Buy
Choose a size
Browse the available sizes and their features
A1 Standard
1
Core
1.75
GB
2
Data disks
2x500
Max IOPS
Load balancing
Loading pricing...
A2 Standard
2
Cores
3.5
GB
4
Data disks
4x500
Max IOPS
Load balancing
Loading pricing...

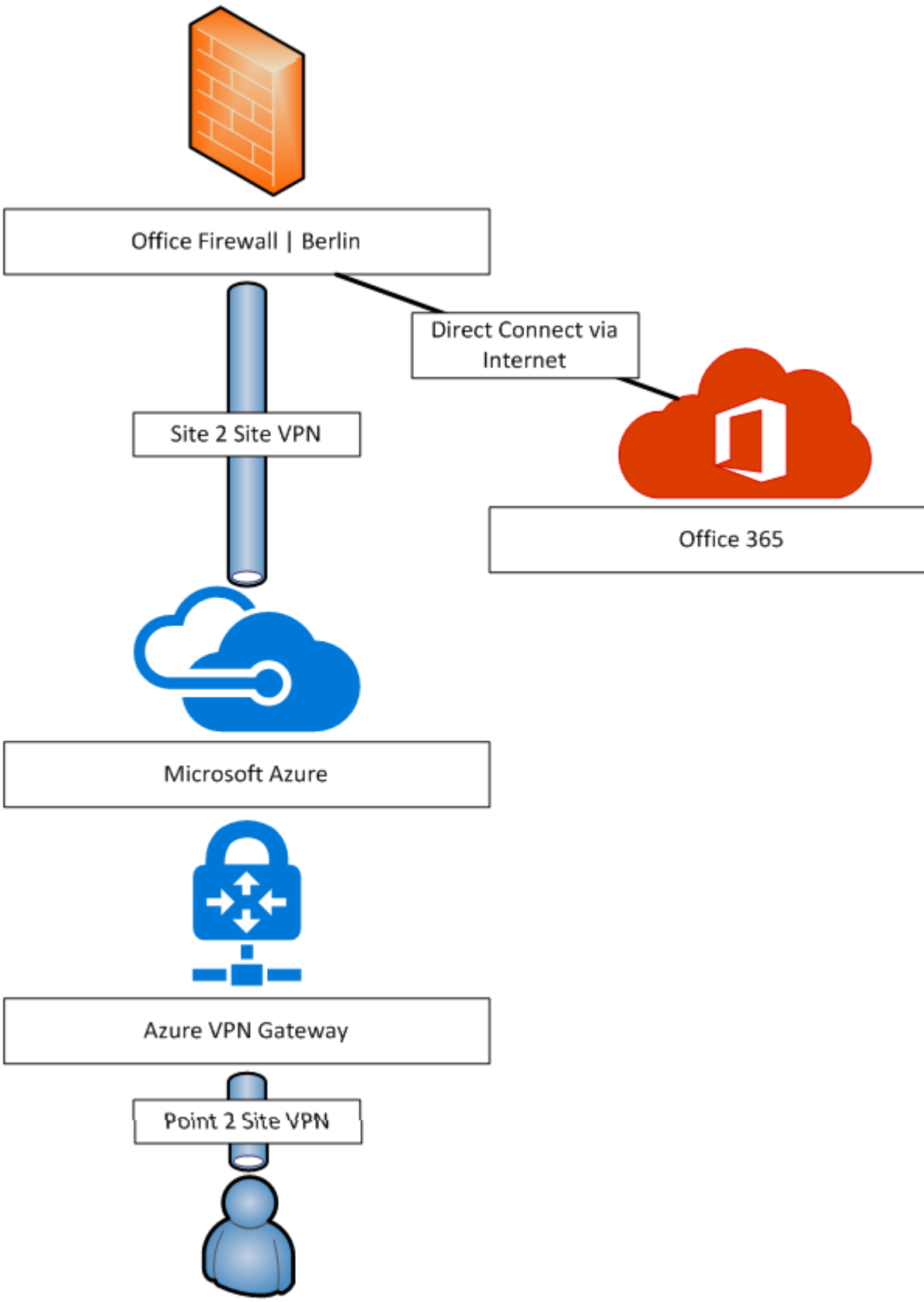

Create virtual machine
1
Basics
Done
2
Size
Done
3
Settings
Configure optional features
4
Summary
Barracuda NextGen Firewall F-S...
5
Buy
Settings
Storage
* Storage account
(new) dcfawerg01diag637
Network
* Virtual network
DCF-AWE-VN01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) DCF-AWE-FW01-ip
* Network security group (firewall)
(new) DCF-AWE-FW01-nsg
Extensions
Extensions
No extensions
High availability
* Availability set
None

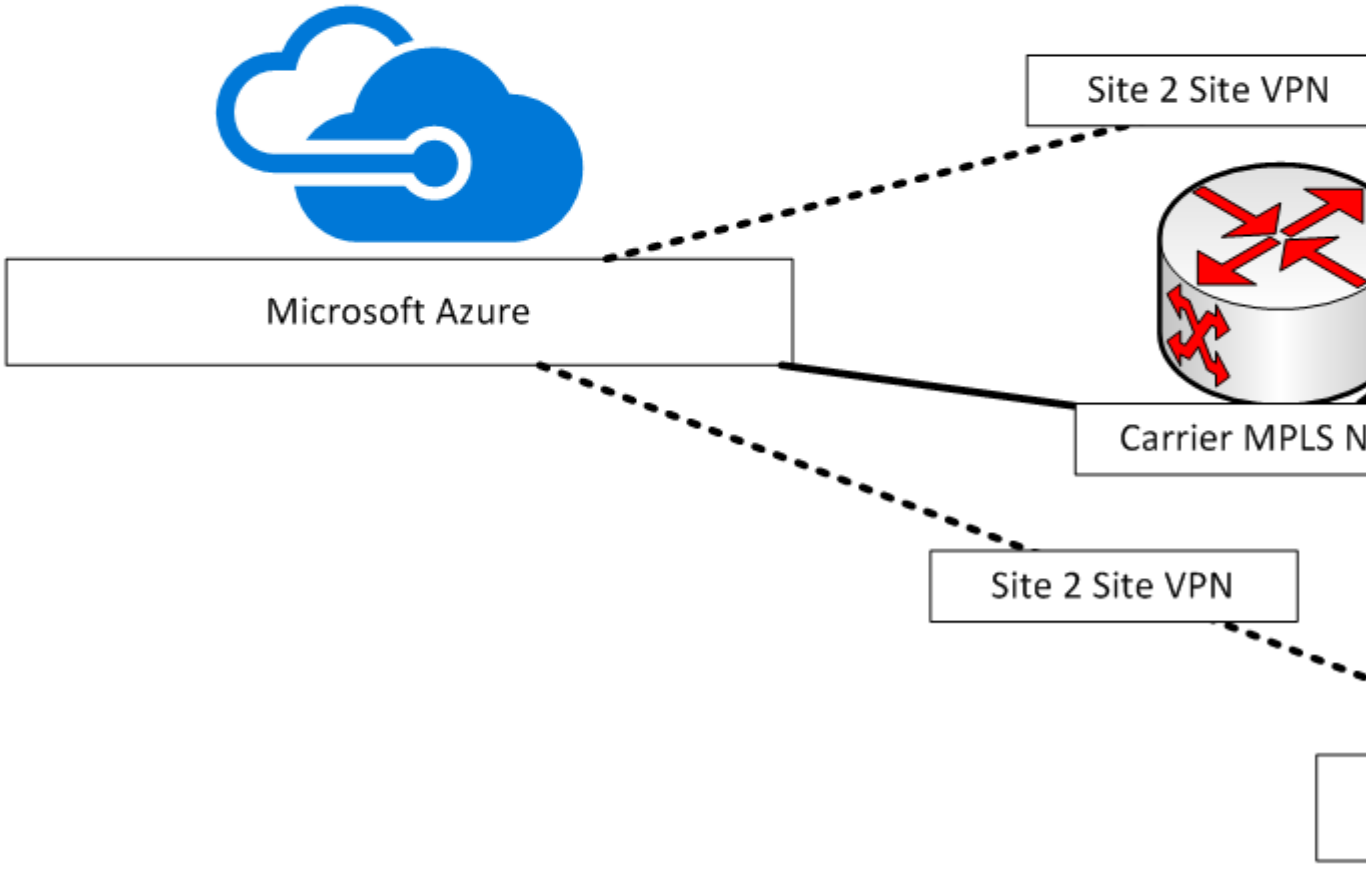

Create virtual machine
1 Basics
Done
2 Size
Done
3 Settings
Done
4 Summary
Barracuda NextGen Firewall F-S...
5 Buy
Summary
Validation passed
Basics
Subscription Visual Studio Premium with MSDN
Resource group DCF-AWE-RG01
Location West Europe
Settings
Computer name DCF-AWE-FW01
Disk type HDD
User name
Size Standard A1
Storage account (new) dcfawerg01diag637
Virtual network DCF-AWE-VN01
Subnet Server (10.0.1.0/24)
Public IP address (new) DCF-AWE-FW01-ip
Network security group (firewall) (new) DCF-AWE-FW01-nsg
Availability set None


Create virtual machine
1 Basics
Done
2 Size
Done
3 Settings
Done
4 Summary
Barracuda NextGen Firewall F-S...
5 Buy
Purchase
Offer details
Barracuda NextGen Firewall F-Series
by Barracuda Networks, Inc.
Terms of use | privacy policy
Standard A1
by Microsoft
Terms of use | privacy policy
The highlighted Marketplace purchase(s) are not covered b
billed separately.
You cannot use your Azure monetary commitment funds or s
purchases. You will be billed separately for marketplace purch
Azure resource
You may use your Azure monetary commitment funds or subs
purchases. Prices presented are retail prices and may not refle
subscription.
Terms of use
By clicking "Purchase", I (a) agree to the legal terms and privacy sta
Marketplace offering above, (b) authorize Microsoft to charge or b
the fees associated with my use of the offering(s), including applic
frequency as my Azure subscription, until I discontinue use of the
Microsoft may share my contact information and transaction detai
(s). Microsoft does not provide rights for third-party products or se
Terms for additional terms.
Purchase

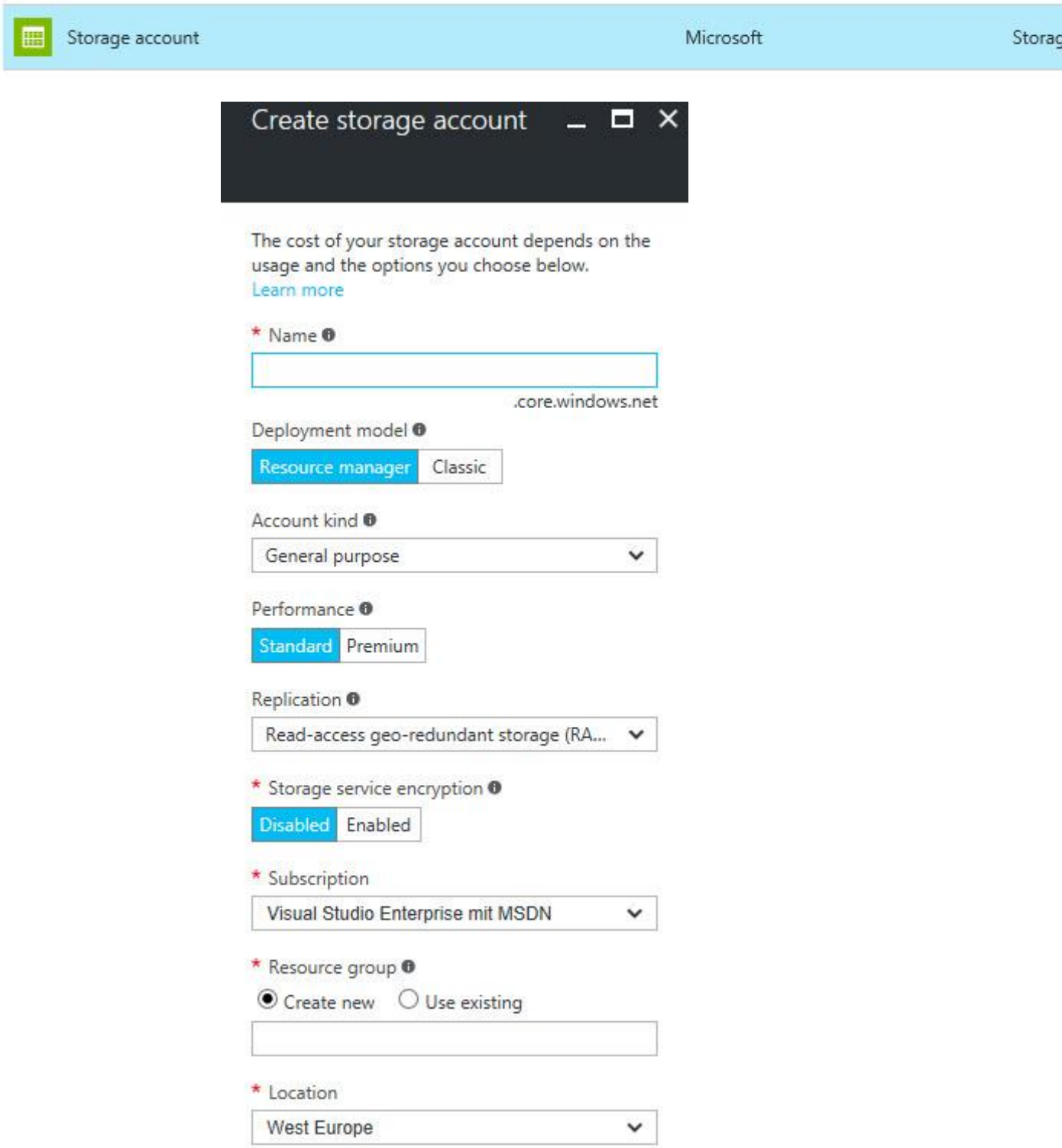

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name
Visual Studio Premium with MSDN
Subscription ID
4a8ad611-6c01-4f99-ba5e-2cad700afc54
Last deployment
9/17/2016 (Succeeded)
Location
West Europe
Filter items...
NAME
TYPE
LOCATION
DCF-AWE-FW01
Virtual machine
West Europe
DCF-AWE-GW01-DCF-AWE-LG01
Connection
West Europe
DCF-AWE-LG01
Local network...
West Europe
dcf-awe-fw01206
Network inter...
West Europe
DCF-AWE-FW01-nsg
Network secu...
West Europe
DCF-AWE-FW01-ip
Public IP addr...
West Europe
DCF-AWE-GW01-PIP
Public IP addr...
West Europe
route
Route table
West Europe
DCF-AWE-GW01
Virtual networ...
West Europe
DCF-AWE-VN01
Virtual network
West Europe
dcfawerg01diag637
Storage accou...
West Europe
Overview
Activity l
Access c
Tags
Diagnose
SETTINGS
Availabili
Disks
Extensior
Network
Size
Propertie
Locks
Automati
MONITORING

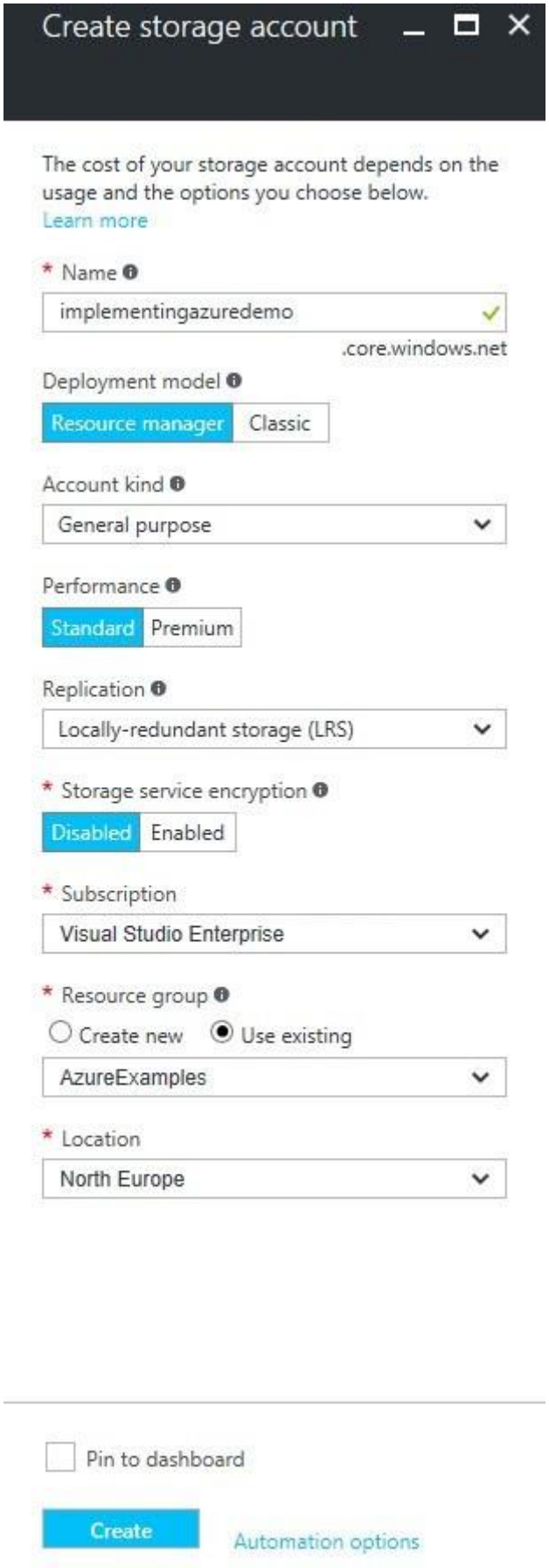

Office Firewall | Munich
Office Firewall | Berlin
Microsoft Azure
Carrier MPLS Netzwerk
Colocation NewYork

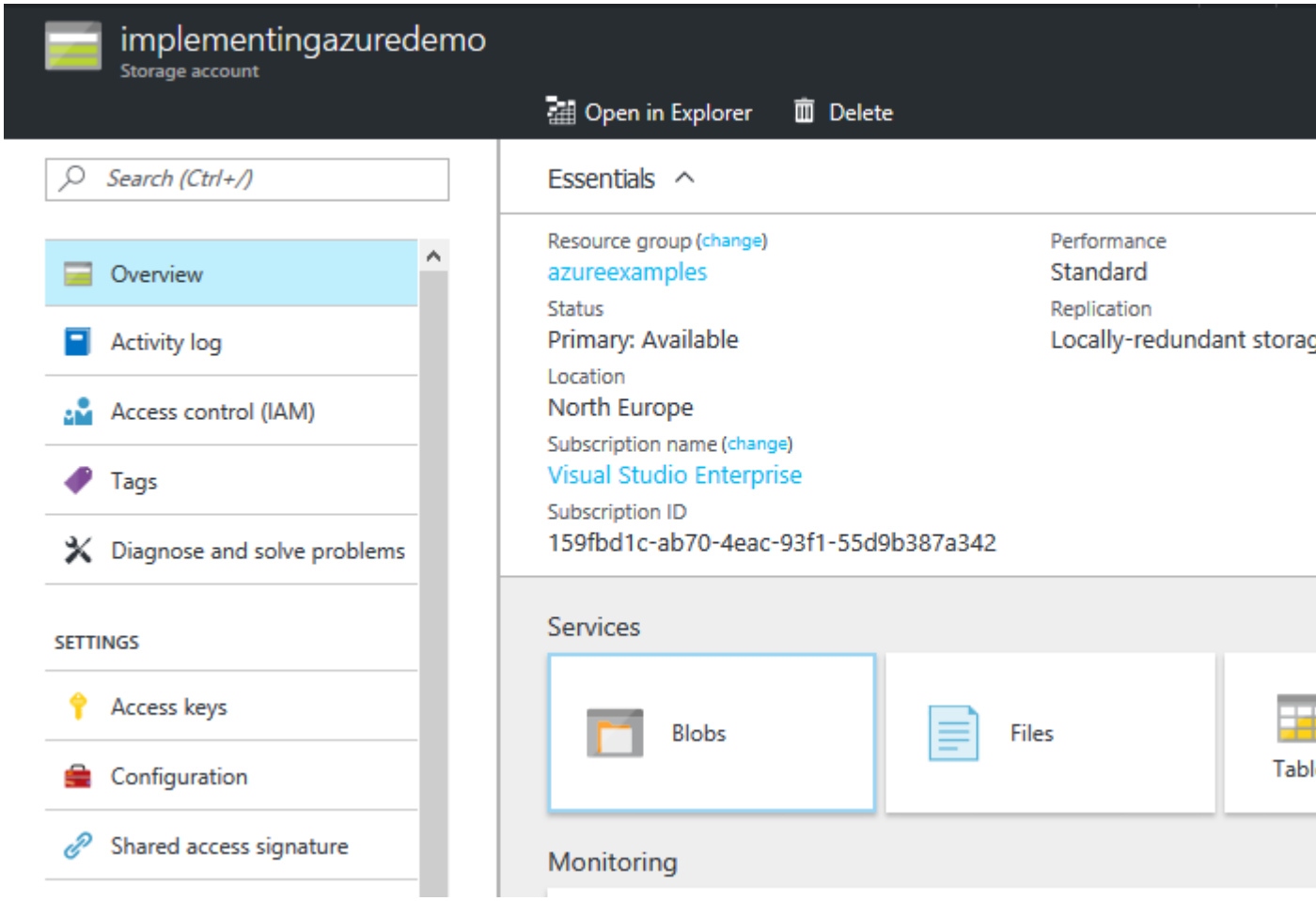

Office Firewall | Berlin
Direct Connect via Internet
Site 2 Site VPN
Office 365
Microsoft Azure
Azure VPN Gateway
Point 2 Site VPN

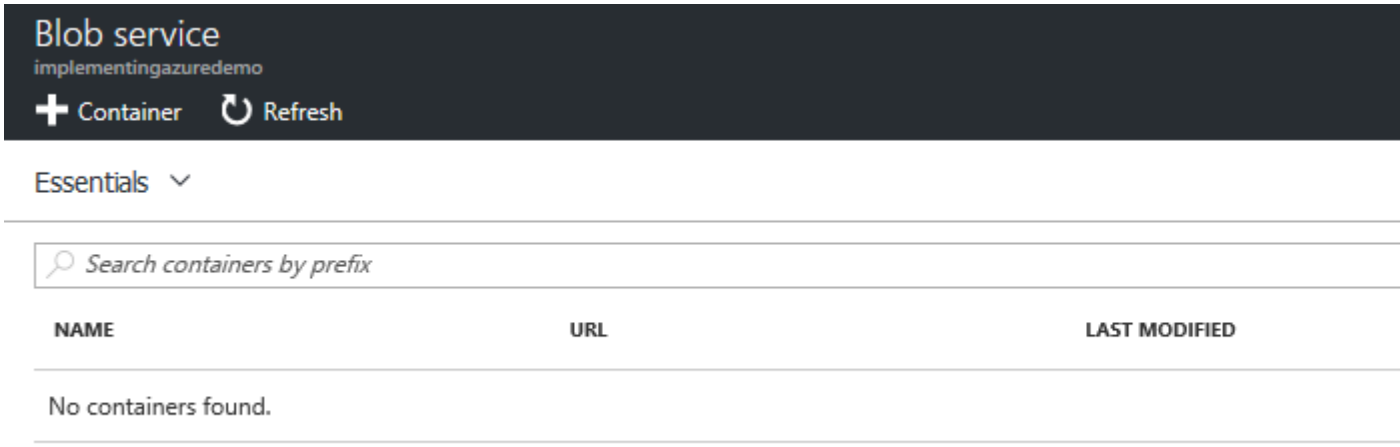

Site 2 Site VPN
Microsoft Azure
Carrier MPLS N
Site 2 Site VPN

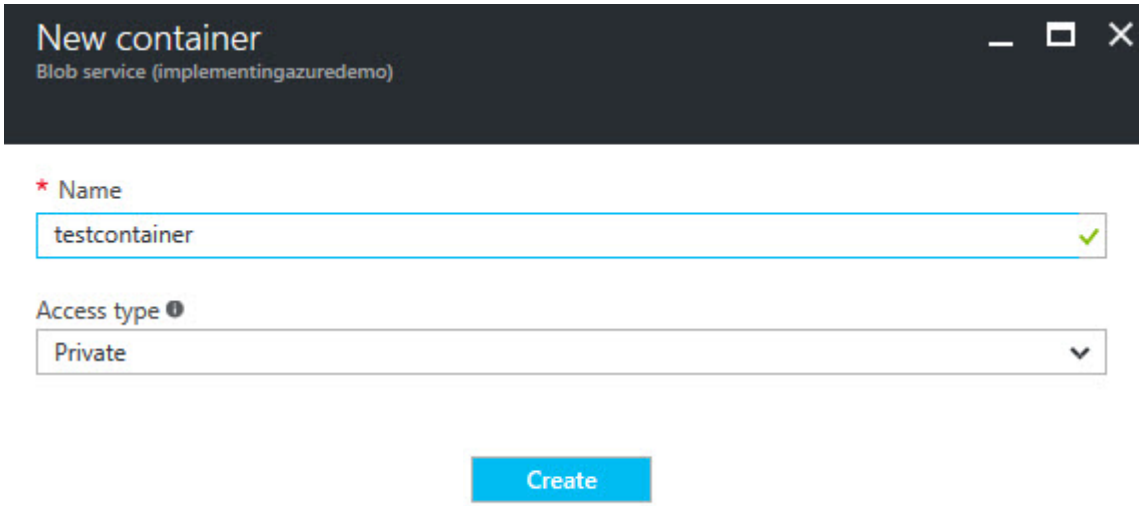
Chapter 5: Implementing and Securing Azure Storage Accounts

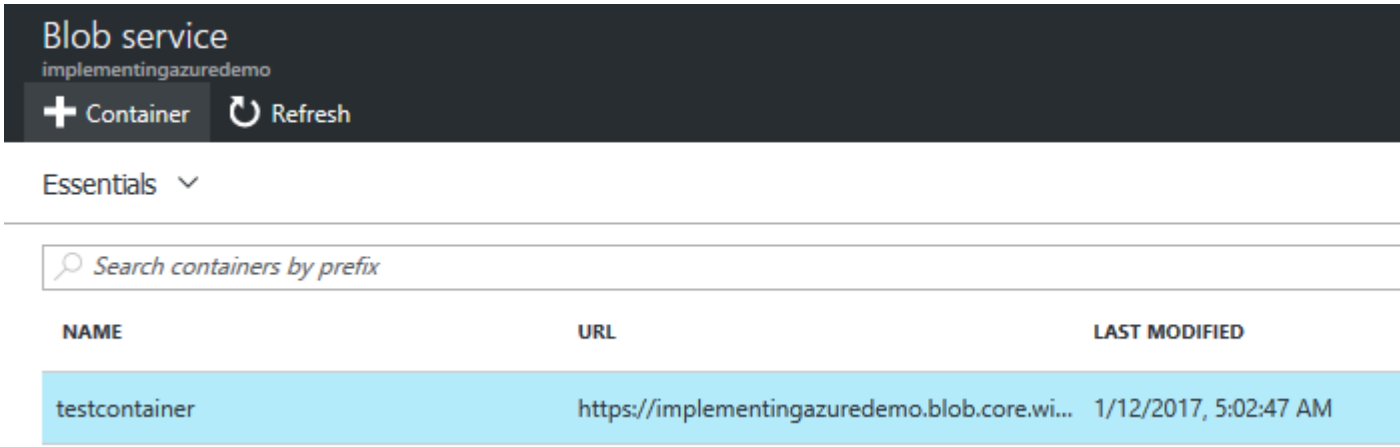


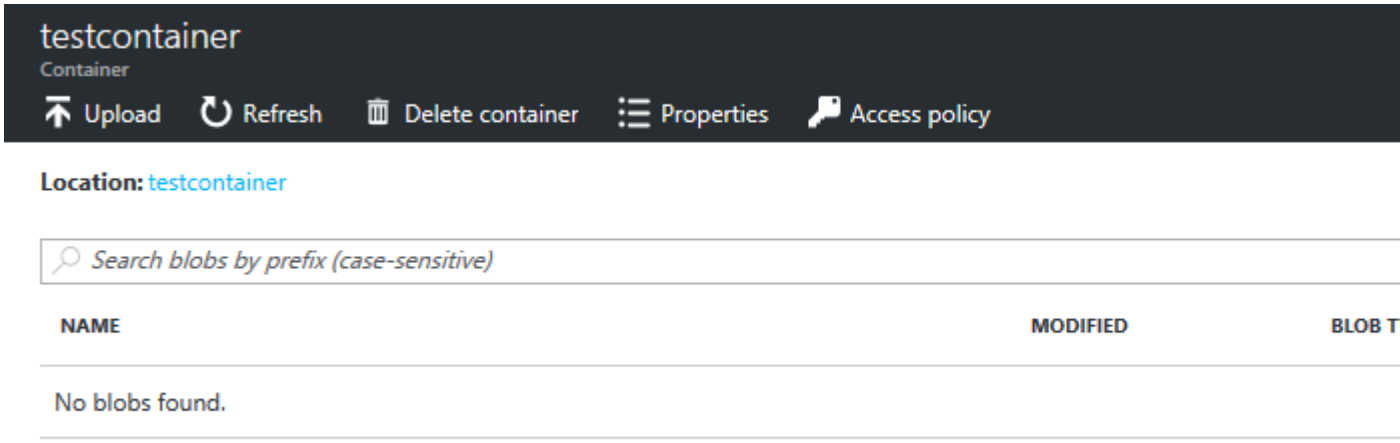

Create storage account
The cost of your storage account depends on the usage and the options you choose below.
Learn more
* Name
implementingazuredemo
.core.windows.net
Deployment model
Resource manager
Classic
Account kind
General purpose
Performance
Standard
Premium
Replication
Locally-redundant storage (LRS)
* Storage service encryption
Disabled
Enabled
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
AzureExamples
* Location
North Europe
Pin to dashboard
Create
Automation options


implementingazuredemo
Storage account
Open in Explorer
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Essentials
Resource group (change)
azureexamples
Status
Primary: Available
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
159fbd1c-ab70-4eac-93f1-55d9b387a342
Performance
Standard
Replication
Locally-redundant storag
Services
Blobs
Files
Monitoring


Blob service
implementingazuredemo
Container
Refresh
Essentials
Search containers by prefix
NAME
URL
LAST MODIFIED
No containers found.


New container
Blob service (implementingazuredemo)
* Name
testcontainer
Access type
Private
Create


Blob service
implementingazuredemo
Container
Refresh
Essentials
Search containers by prefix
NAME
URL
LAST MODIFIED
testcontainer
https://implementingazuredemo.blob.core.wi...
1/12/2017, 5:02:47 AM


testcontainer
Container
Upload
Refresh
Delete container
Properties
Access policy
Location: testcontainer
Search blobs by prefix (case-sensitive)
NAME
MODIFIED
BLOB T
No blobs found.

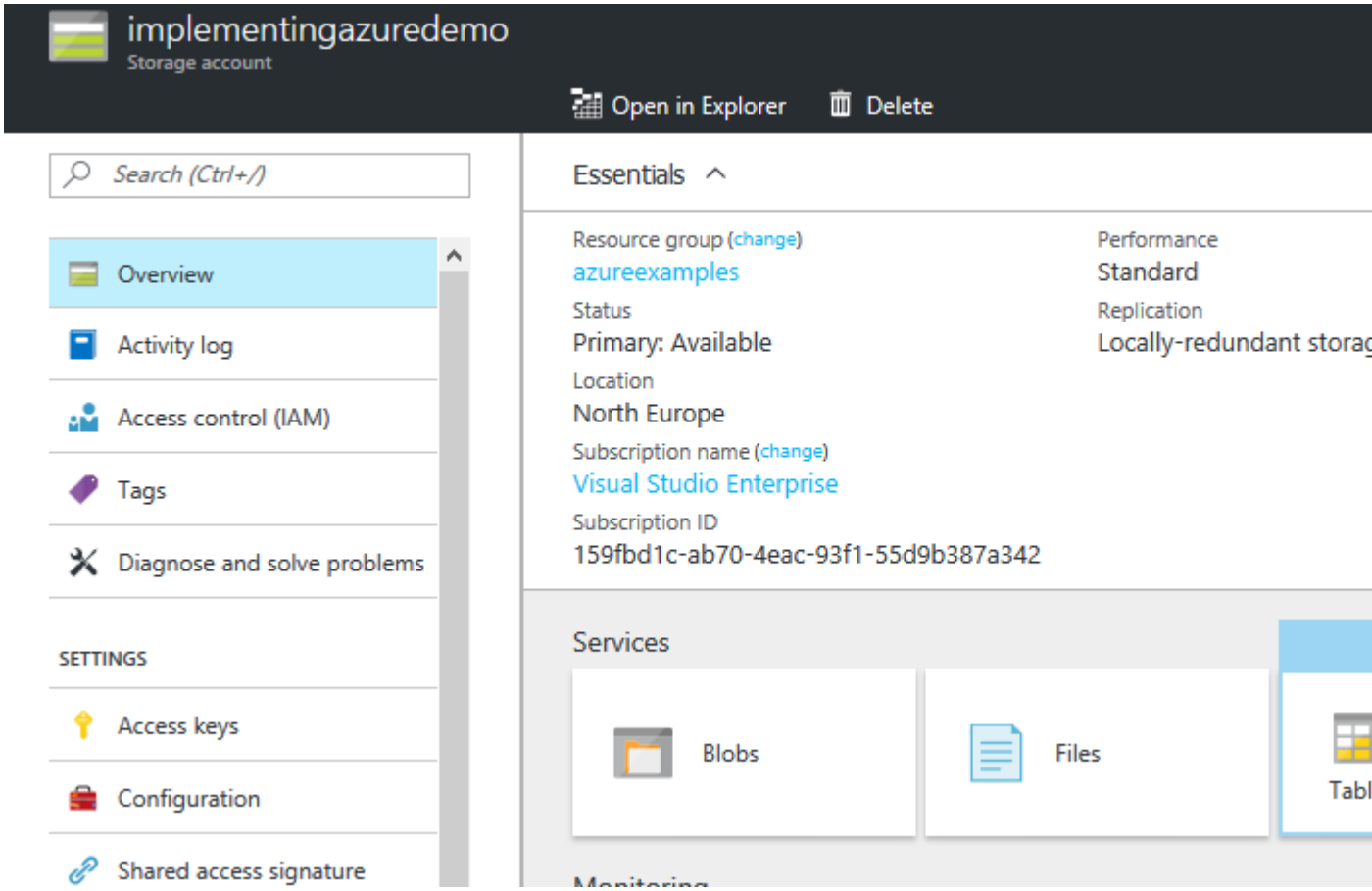

implementingazuredemo
Storage account
Open in Explorer
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Essentials
Resource group (change)
azureexamples
Status
Primary: Available
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
159fbd1c-ab70-4eac-93f1-55d9b387a342
Performance
Standard
Replication
Locally-redundant storag
Services
Blobs
Files
Tabl

Table service
implementingazuredemo
Refresh
Essentials
Search tables by prefix
TABLE
URL
No tables found.

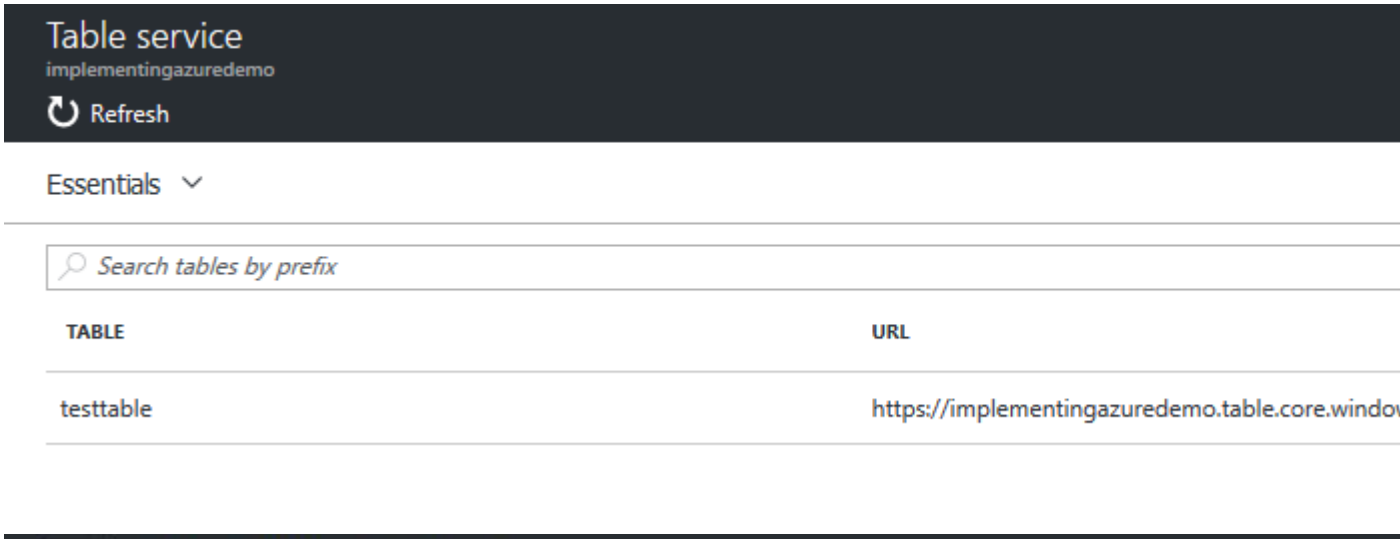
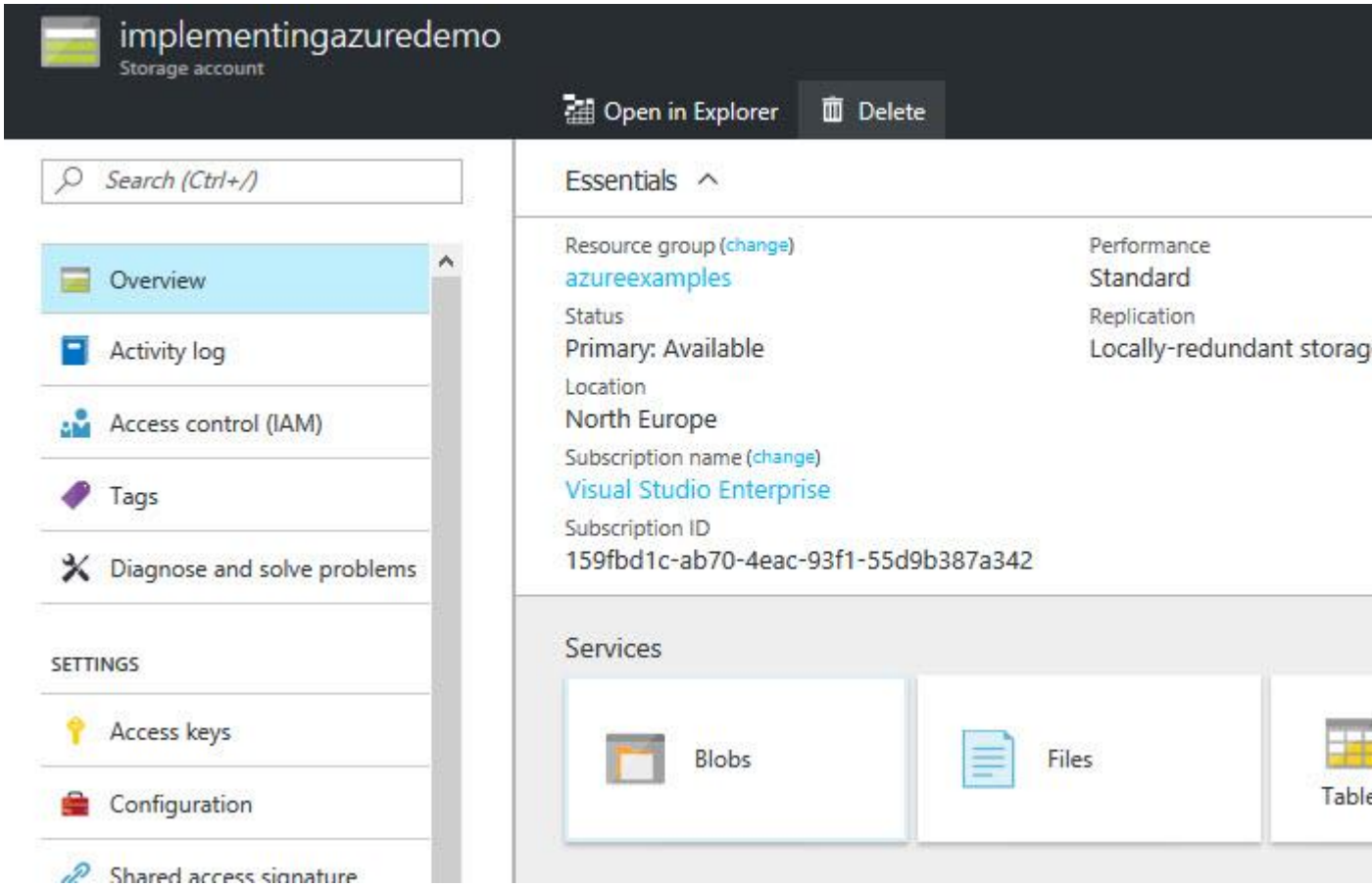


Table service
implementingazuredemo
Refresh
Essentials
Search tables by prefix
TABLE
URL
testtable
https://implementingazuredemo.table.core.windo


implementingazuredemo
Storage account
Open in Explorer
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Essentials
Resource group (change)
azureexamples
Status
Primary: Available
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
159fbd1c-ab70-4eac-93f1-55d9b387a342
Performance
Standard
Replication
Locally-redundant storag
Services
Blobs
Files
Table

Queue service
implementingazuredemo
Refresh

Essentials

Search queues by prefix (case-sensitive)

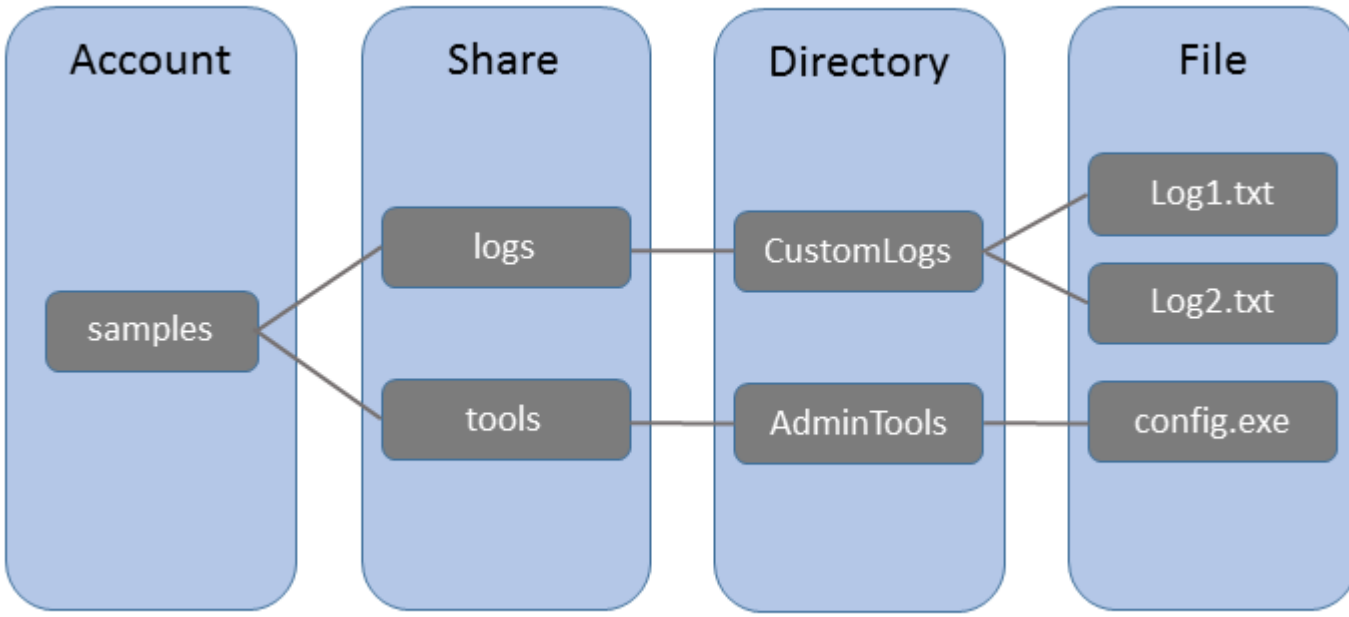
QUEUE	URL
No queues found.	

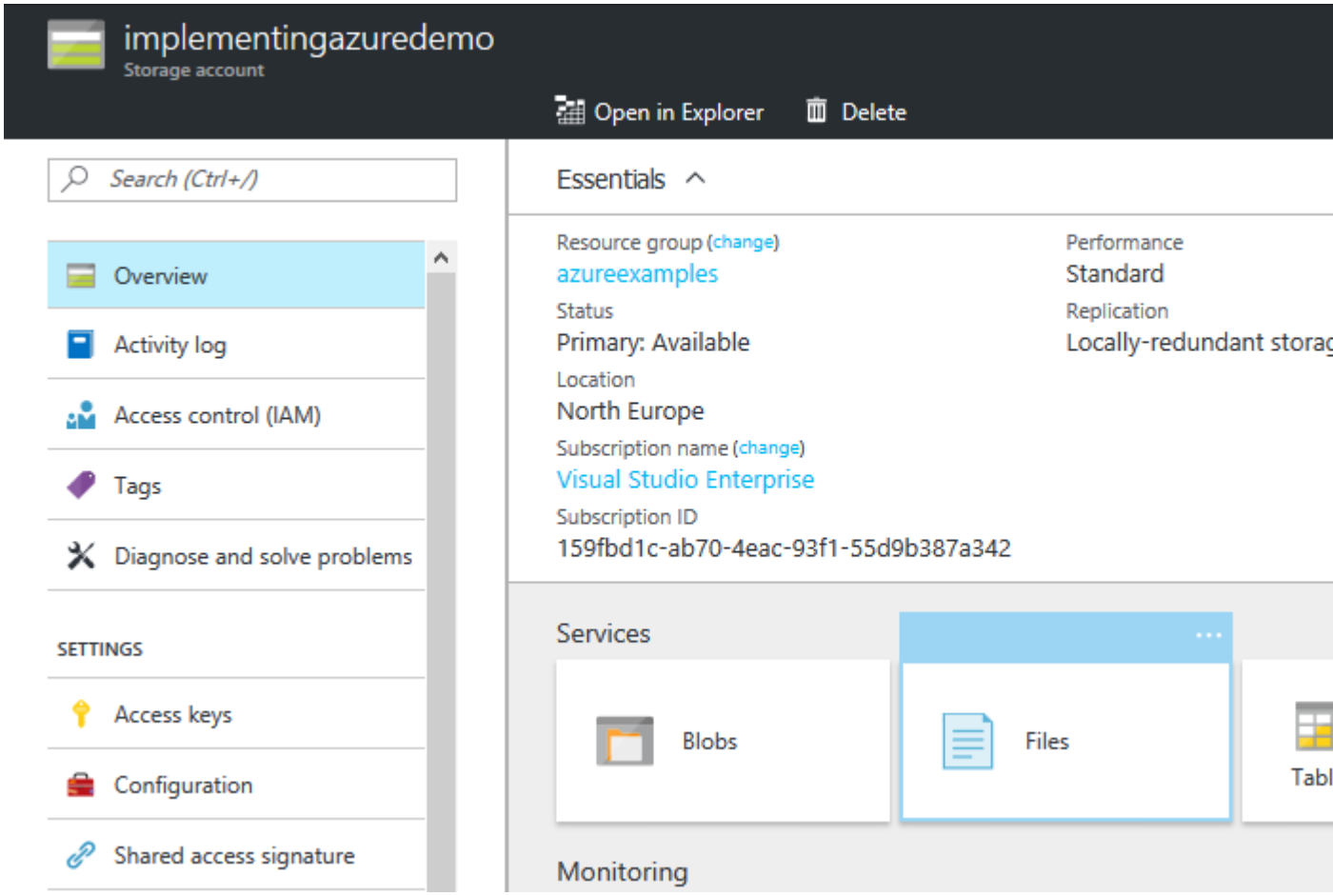
Queue service
implementingazuredemo
Refresh

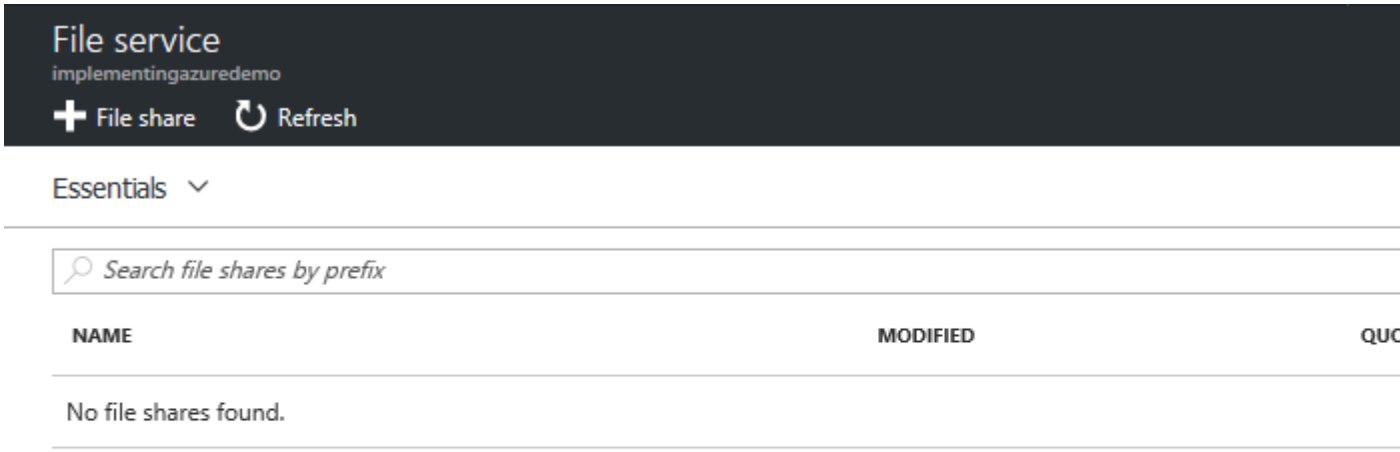
Essentials

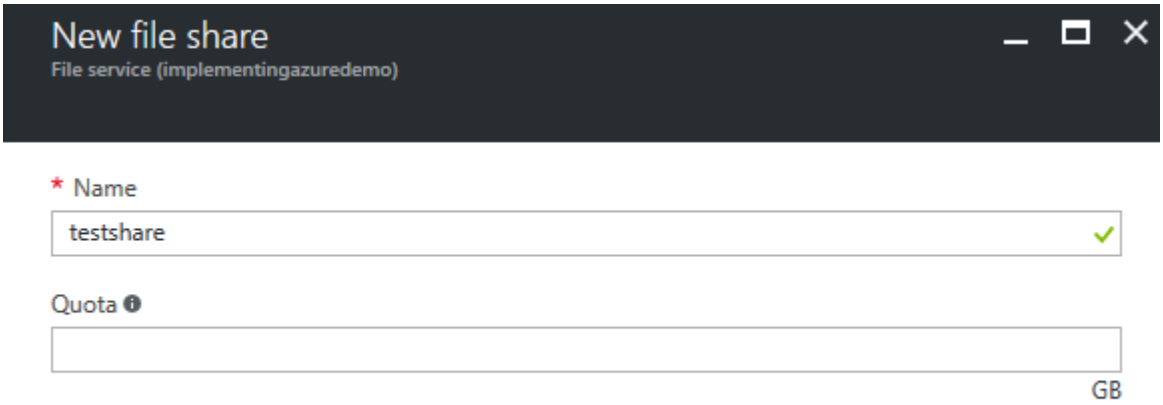
Search queues by prefix (case-sensitive)

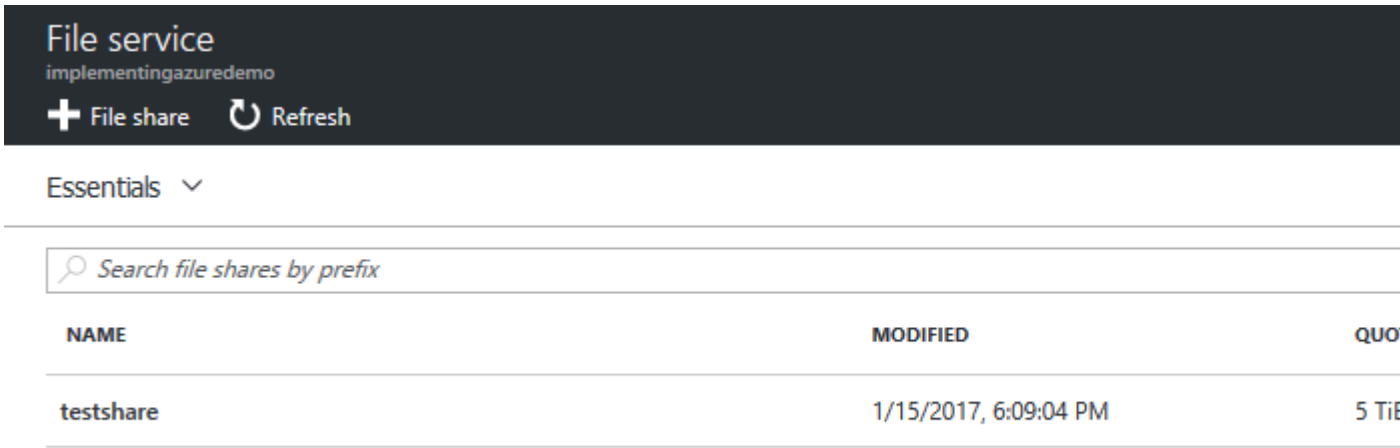
QUEUE	URL
testqueue	https://implementingazuredemo.queue.core.wind

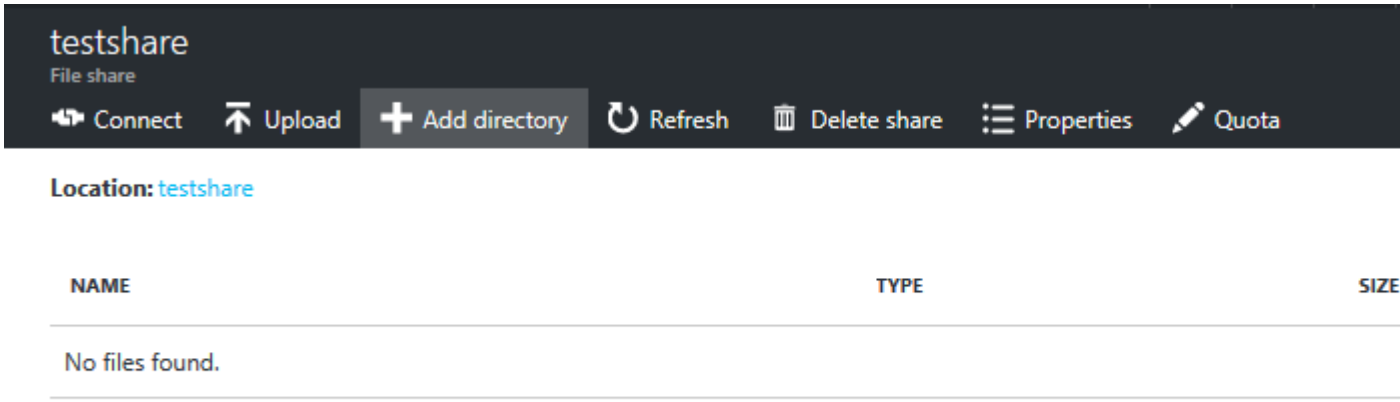


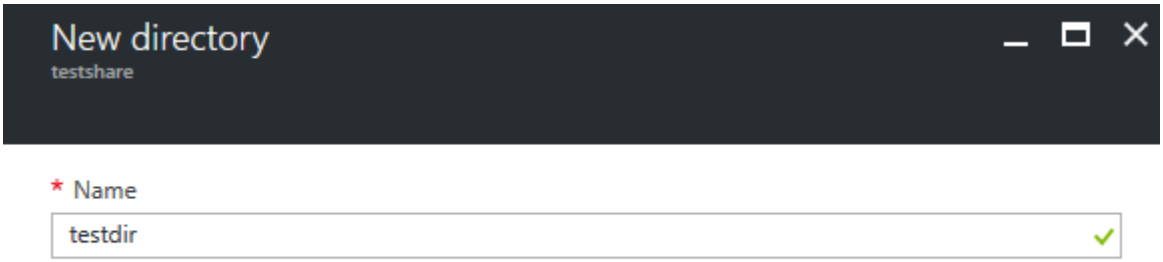

implementingazuredemo
Storage account
Open in Explorer
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Essentials
Resource group (change)
azureexamples
Status
Primary: Available
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
159fbd1c-ab70-4eac-93f1-55d9b387a342
Performance
Standard
Replication
Locally-redundant storag
Services
Blobs
Files
Tabl
Monitoring

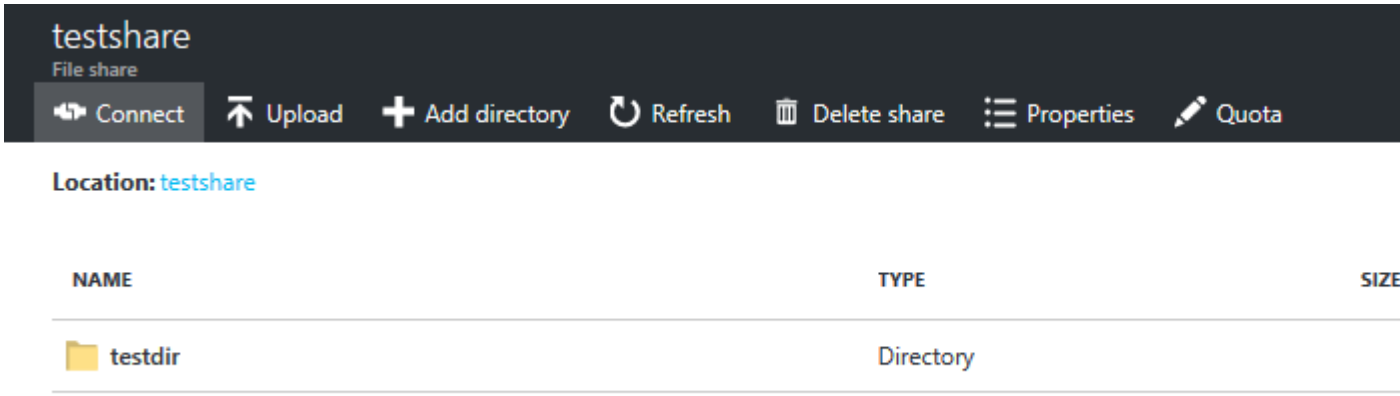

File service
implementingazuredemo
File share
Refresh
Essentials
Search file shares by prefix
NAME
MODIFIED
QUC
No file shares found.

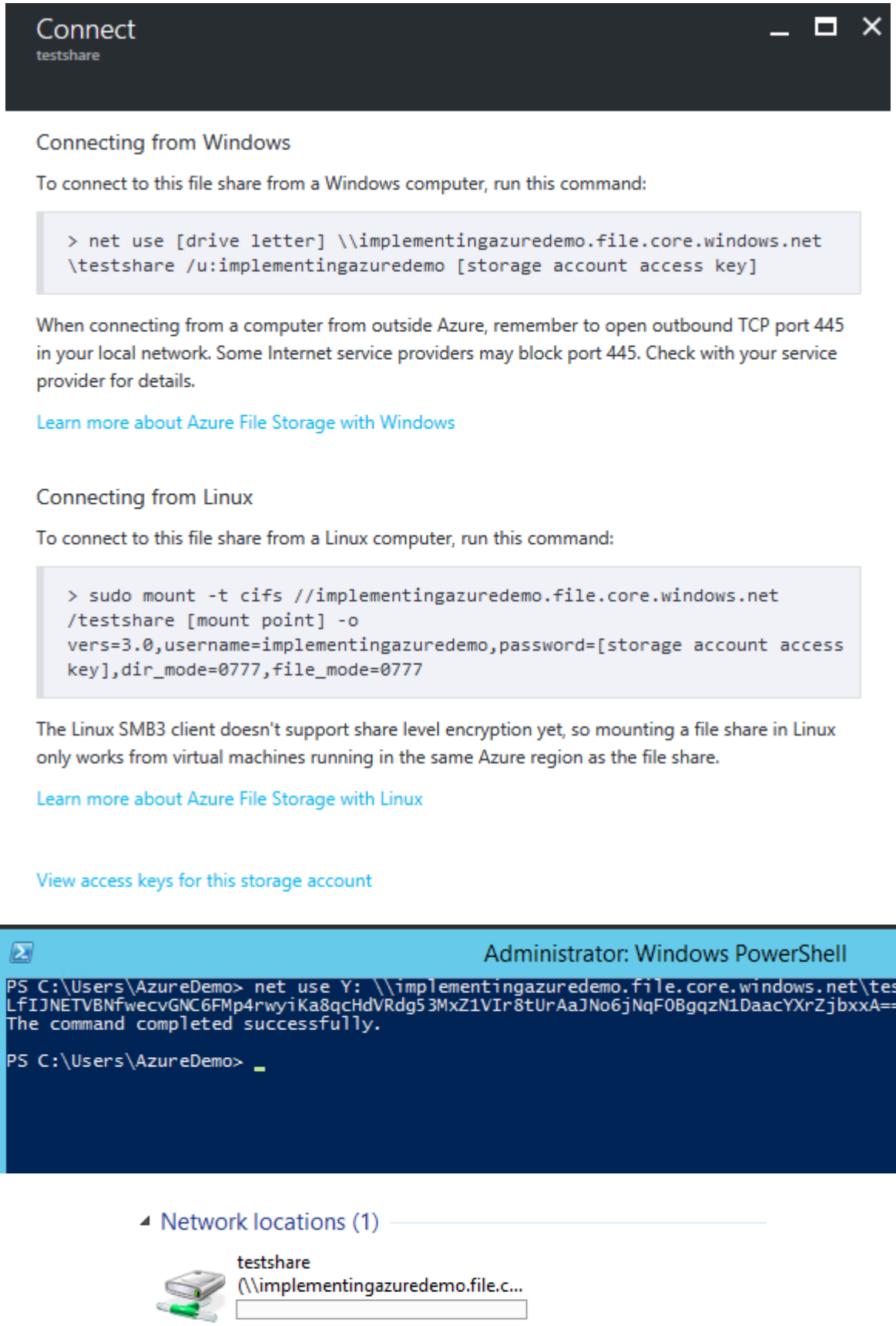

New file share
File service (implementingazuredemo)
* Name
testshare
Quota
GB

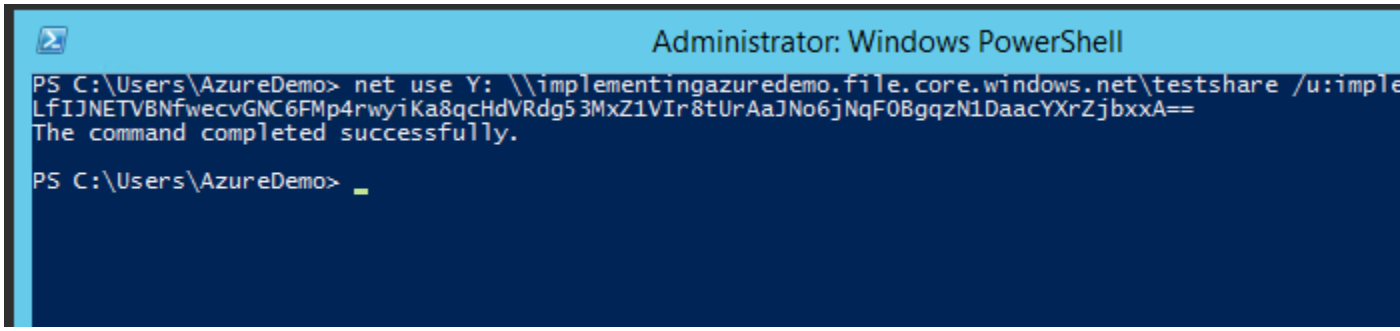

File service
implementingazuredemo
File share
Refresh
Essentials
Search file shares by prefix
NAME
MODIFIED
QUO
testshare
1/15/2017, 6:09:04 PM
5 TiB


testshare
File share
Connect
Upload
Add directory
Refresh
Delete share
Properties
Quota
Location: testshare
NAME
TYPE
SIZE
No files found.

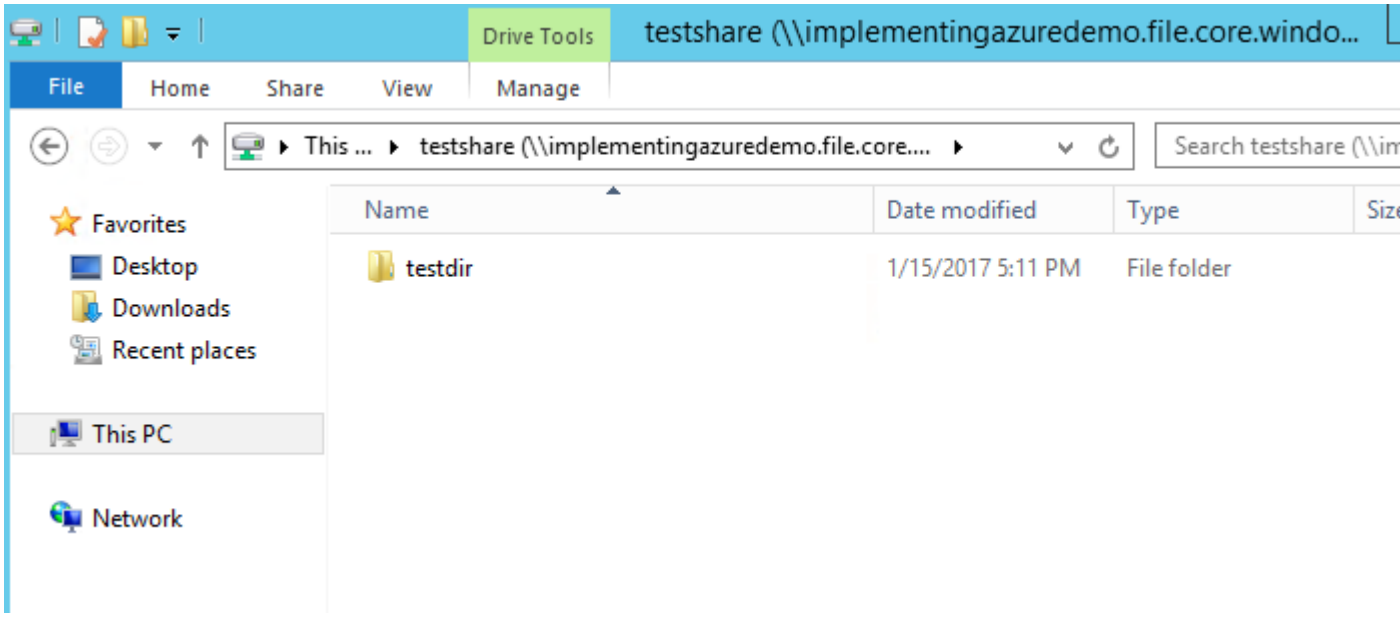

New directory
testshare
* Name
testdir

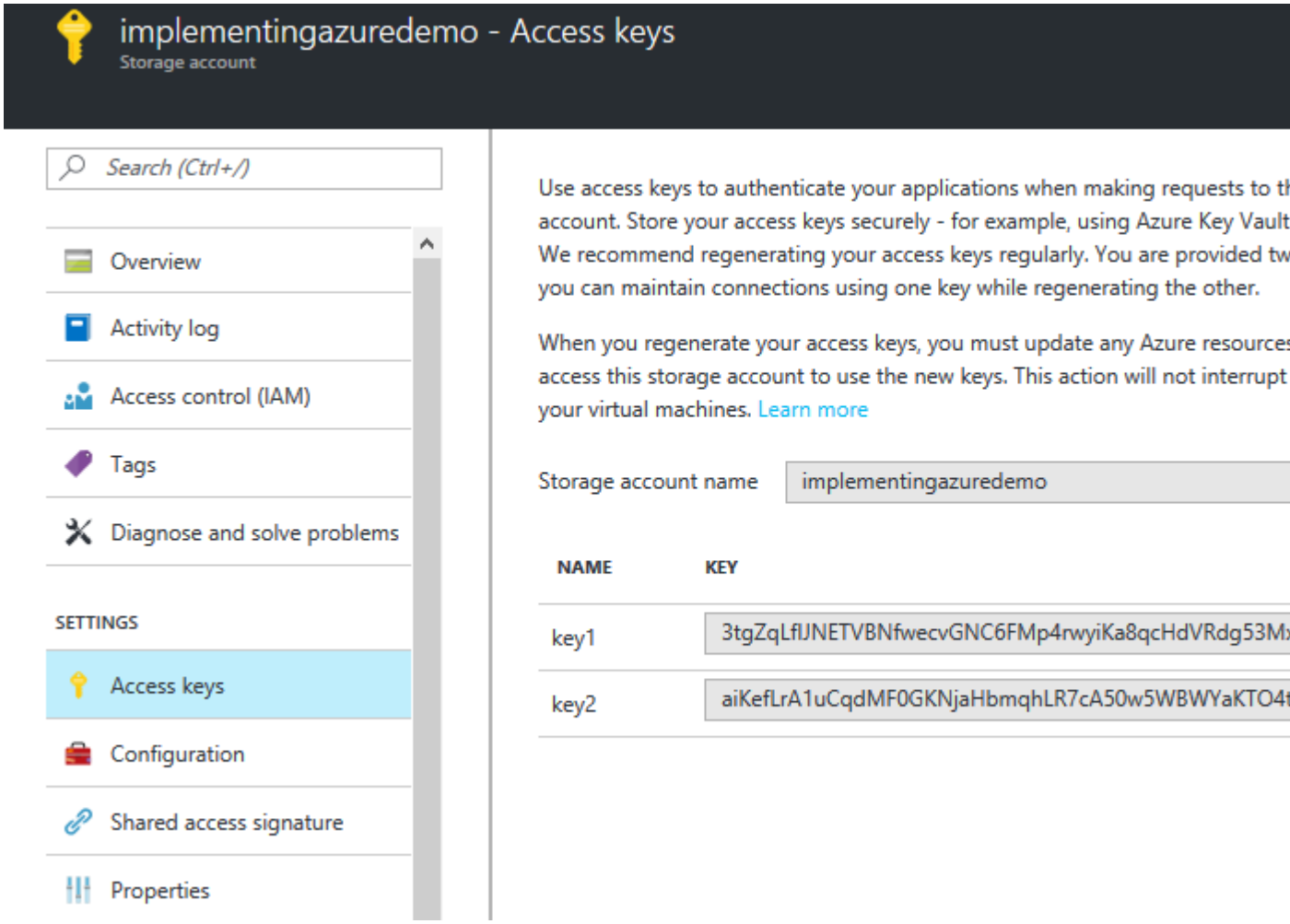

testshare
File share
Connect
Upload
Add directory
Refresh
Delete share
Properties
Quota
Location: testshare
NAME
TYPE
SIZE
testdir
Directory

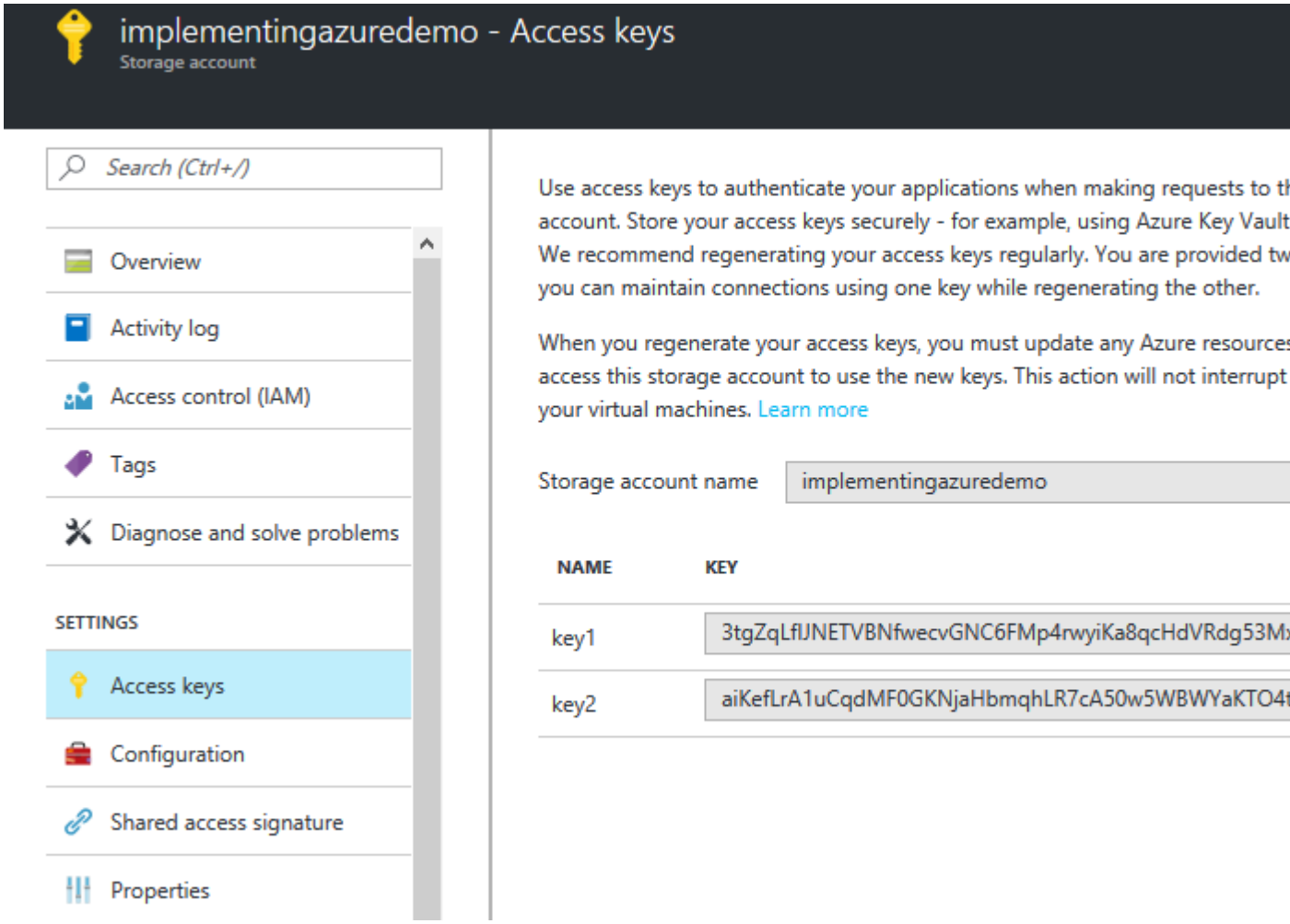

Connect
testshare
Connecting from Windows
To connect to this file share from a Windows computer, run this command:
> net use [drive letter] \\implementingazuredemo.file.core.windows.net
\testshare /u:implementingazuredemo [storage account access key]
When connecting from a computer from outside Azure, remember to open outbound TCP port 445 in your local network. Some Internet service providers may block port 445. Check with your service provider for details.
Learn more about Azure File Storage with Windows
Connecting from Linux
To connect to this file share from a Linux computer, run this command:
> sudo mount -t cifs //implementingazuredemo.file.core.windows.net
/testshare [mount point] -o
vers=3.0,username=implementingazuredemo,password=[storage account access
key],dir_mode=0777,file_mode=0777
The Linux SMB3 client doesn't support share level encryption yet, so mounting a file share in Linux only works from virtual machines running in the same Azure region as the file share.
Learn more about Azure File Storage with Linux
View access keys for this storage account


Administrator: Windows PowerShell
PS C:\Users\AzureDemo> net use Y: \\implementingazuredemo.file.core.windows.net\testshare /u:imple
LfIJNETVBNfwecvGNC6FMp4rwyiKa8qcHdVRdg53MxZ1VIr8tUrAaJNo6jNqFOBgqzN1DaacYXrZjbxxA==
The command completed successfully.
PS C:\Users\AzureDemo>

Network locations (1)
testshare
(\\implementingazuredemo.file.c...


Drive Tools
testshare (\\implementingazuredemo.file.core.windo...
File
Home
Share
View
Manage
This ...
testshare (\\implementingazuredemo.file.core....
Search testshare (\\im
Favorites
Desktop
Downloads
Recent places
This PC
Network
Name
Date modified
Type
Size
testdir
1/15/2017 5:11 PM
File folder


implementingazuredemo - Access keys
Storage account
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Properties
Use access keys to authenticate your applications when making requests to th
account. Store your access keys securely - for example, using Azure Key Vault
We recommend regenerating your access keys regularly. You are provided tw
you can maintain connections using one key while regenerating the other.
When you regenerate your access keys, you must update any Azure resources
access this storage account to use the new keys. This action will not interrupt
your virtual machines. Learn more
Storage account name
implementingazuredemo
NAME
KEY
key1
key2


implementingazuredemo - Access keys
Storage account
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Properties
Use access keys to authenticate your applications when making requests to th
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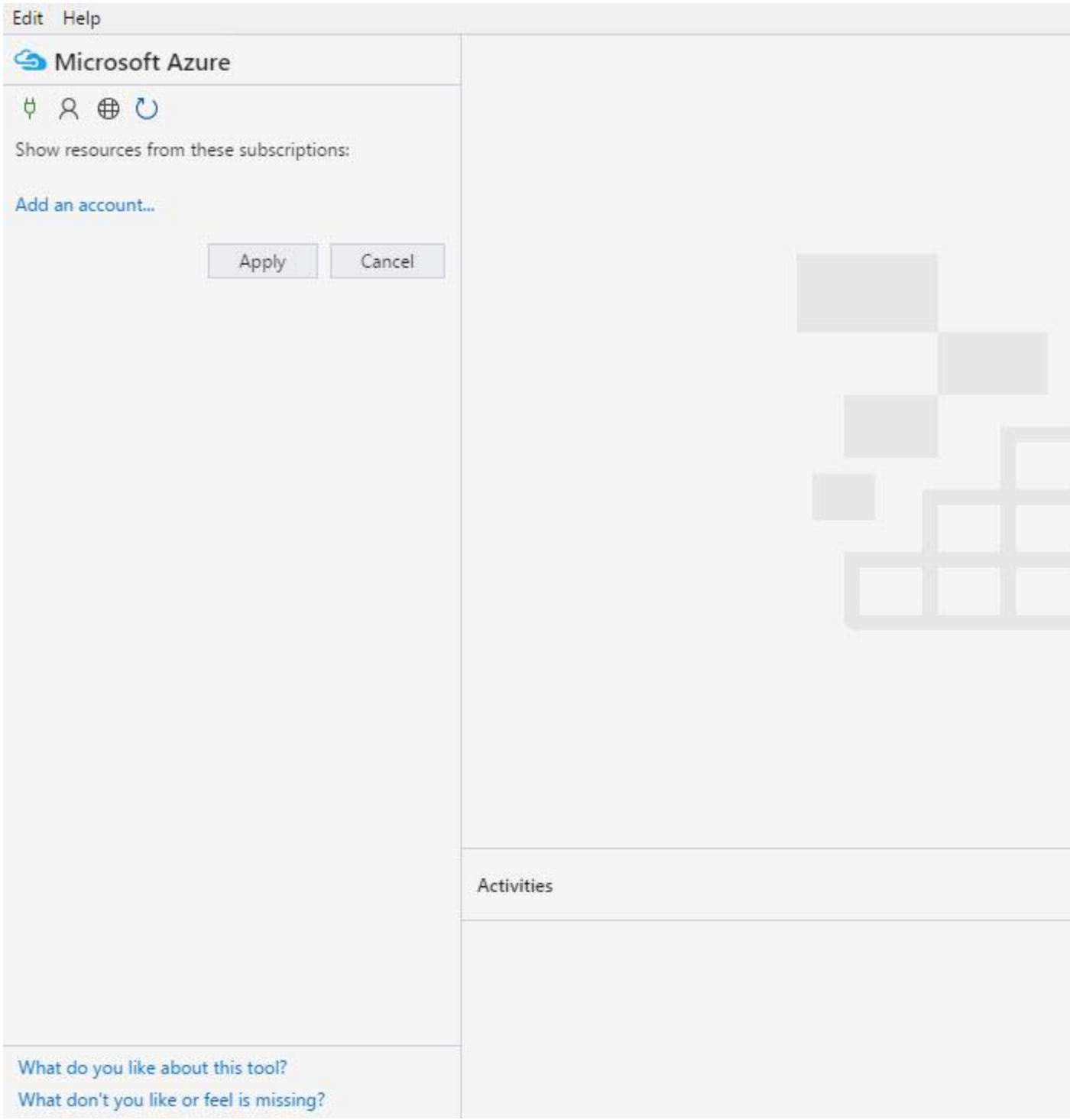
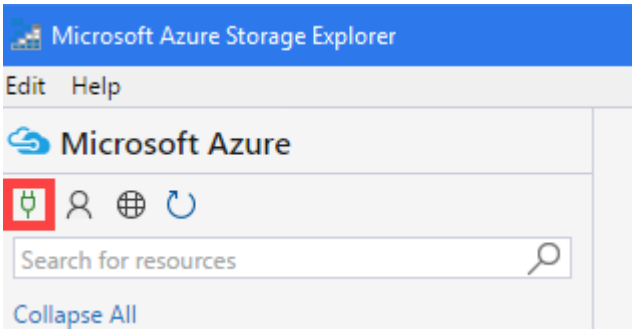
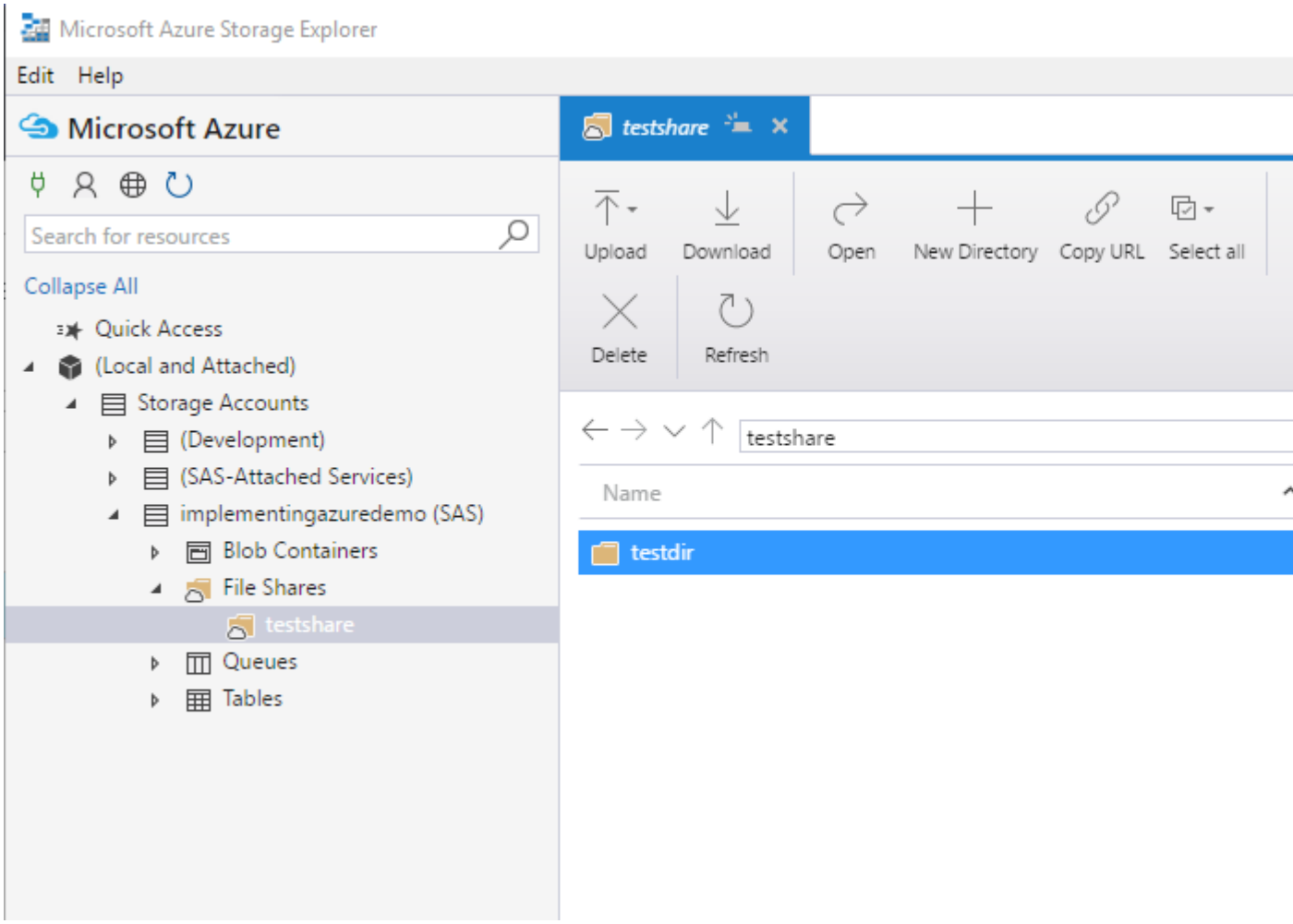
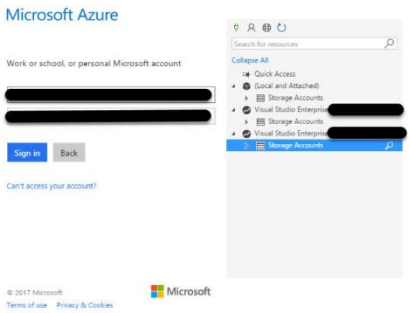
We recommend regenerating your access keys regularly. You are provided tw
you can maintain connections using one key while regenerating the other.
When you regenerate your access keys, you must update any Azure resources
access this storage account to use the new keys. This action will not interrupt
your virtual machines. Learn more
Storage account name
implementingazuredemo
NAME
KEY
key1
3tgZqLflJNETVBNfwecvGNC6FMp4rwyiKa8qcHdVRdg53Mx
key2
aiKefLrA1uCqdMF0GKNjaHbmqhLR7cA50w5WBWYaKTO4t

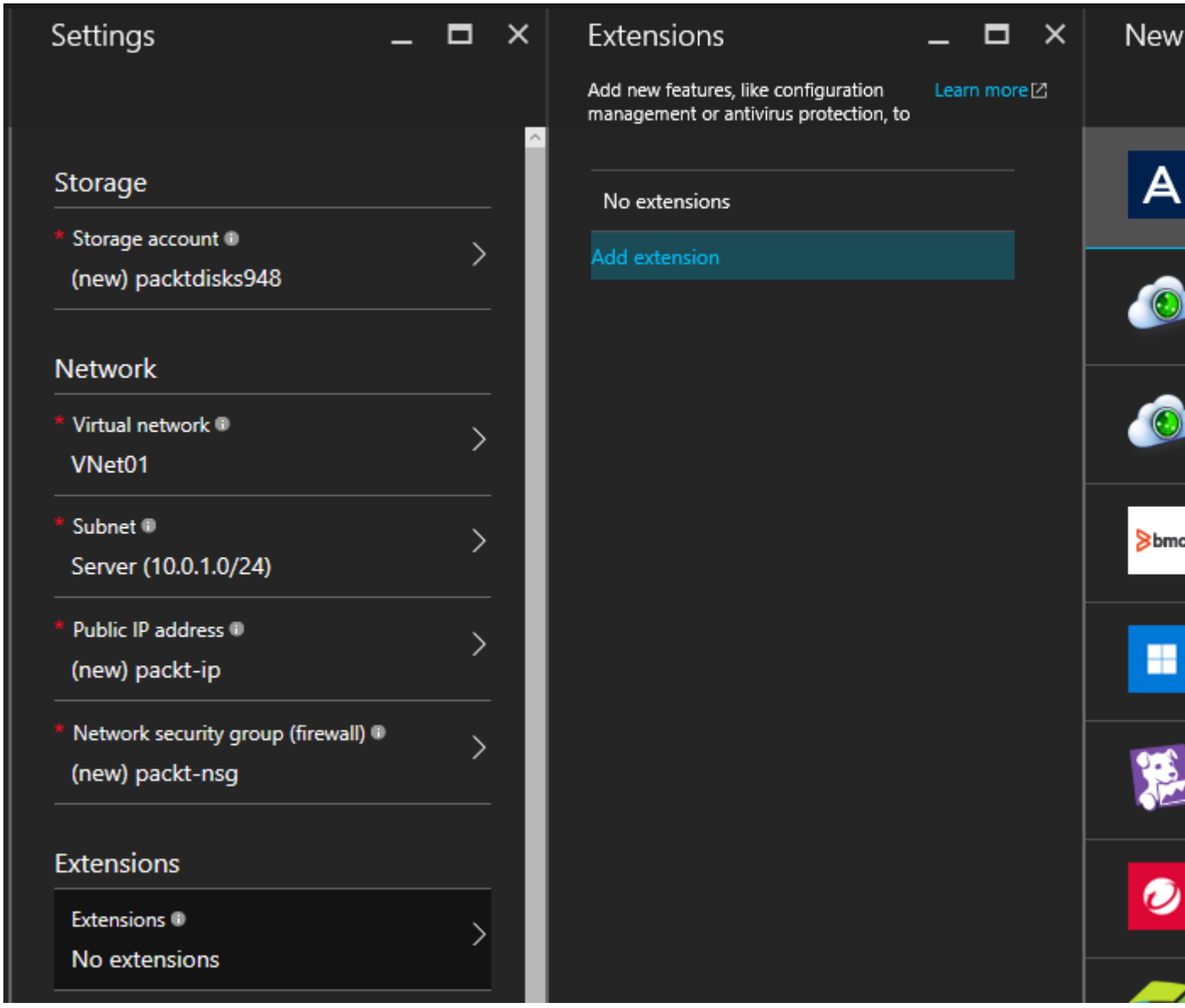

Edit Help
Microsoft Azure
Show resources from these subscriptions:
Add an account...
Apply
Cancel
Activities
What do you like about this tool?
What don't you like or feel is missing?

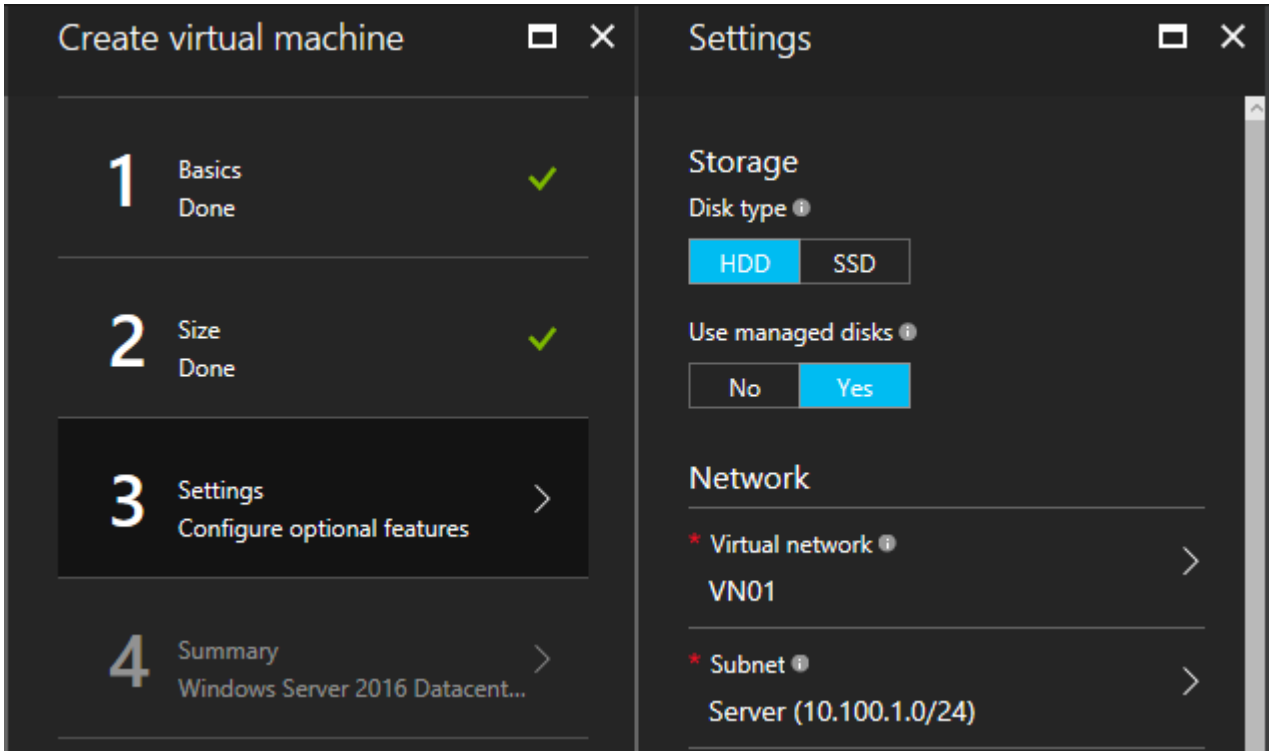

Microsoft Azure Storage Explorer
Edit Help
Microsoft Azure
Search for resources
Collapse All

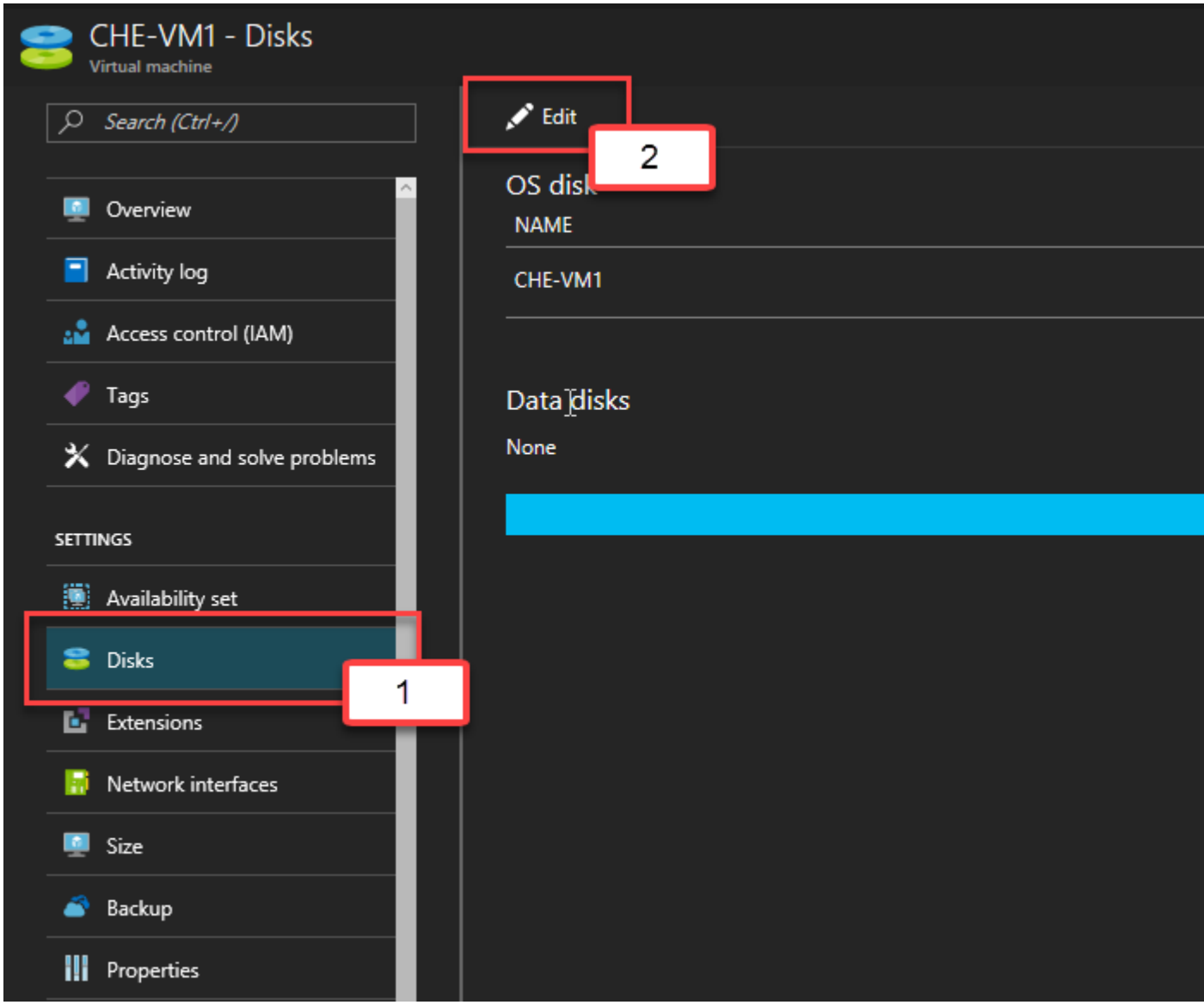

Microsoft Azure Storage Explorer
Edit Help
Microsoft Azure
Search for resources
Collapse All
Quick Access
(Local and Attached)
Storage Accounts
(Development)
(SAS-Attached Services)
implementingazuredemo (SAS)
Blob Containers
File Shares
testshare
Queues
Tables
testshare
Upload
Download
Open
New Directory
Copy URL
Select all
Delete
Refresh
testshare
Name
testdir

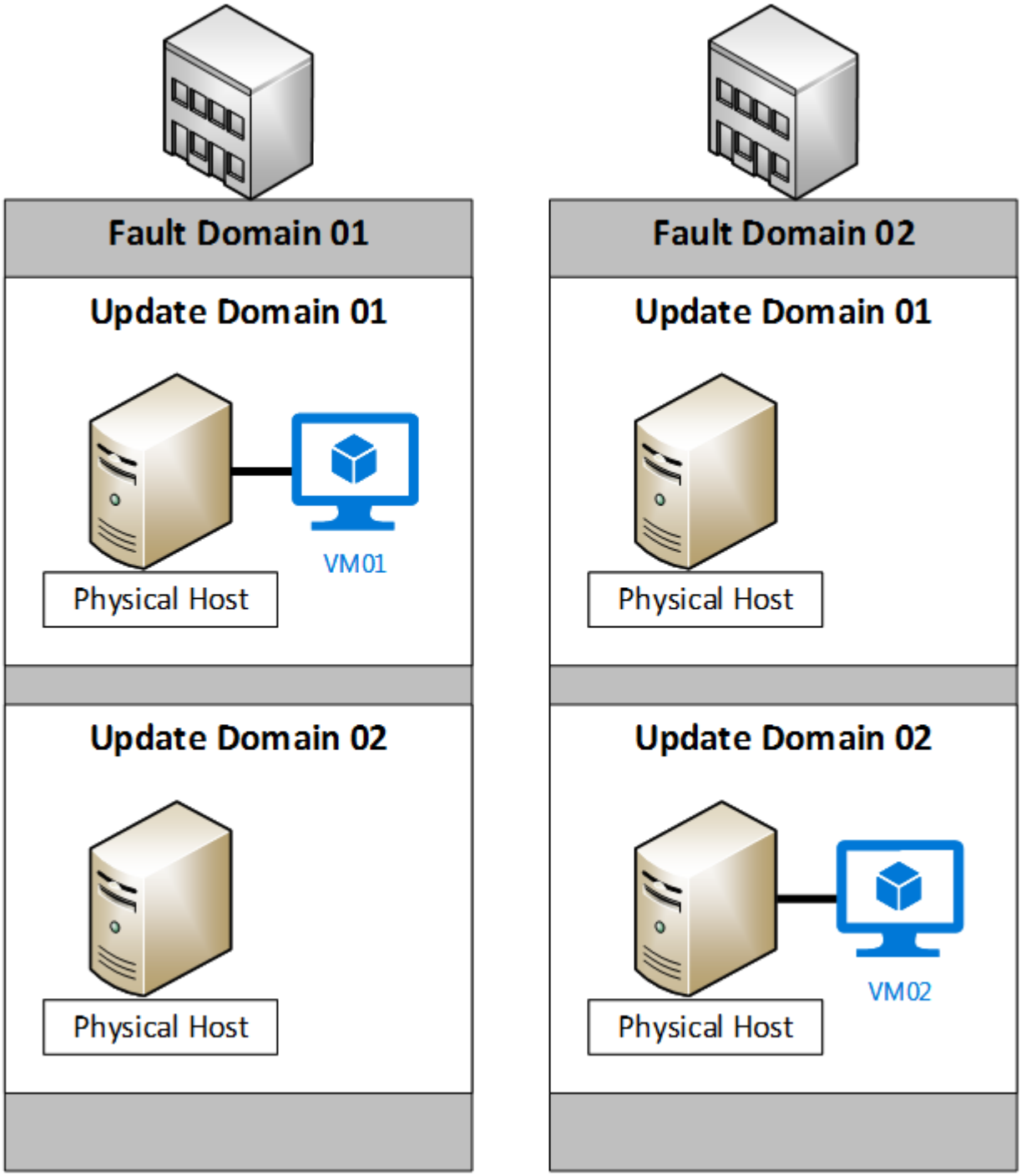

Microsoft Azure
Work or school, or personal Microsoft account
Sign in
Back
Can't access your account?
Microsoft

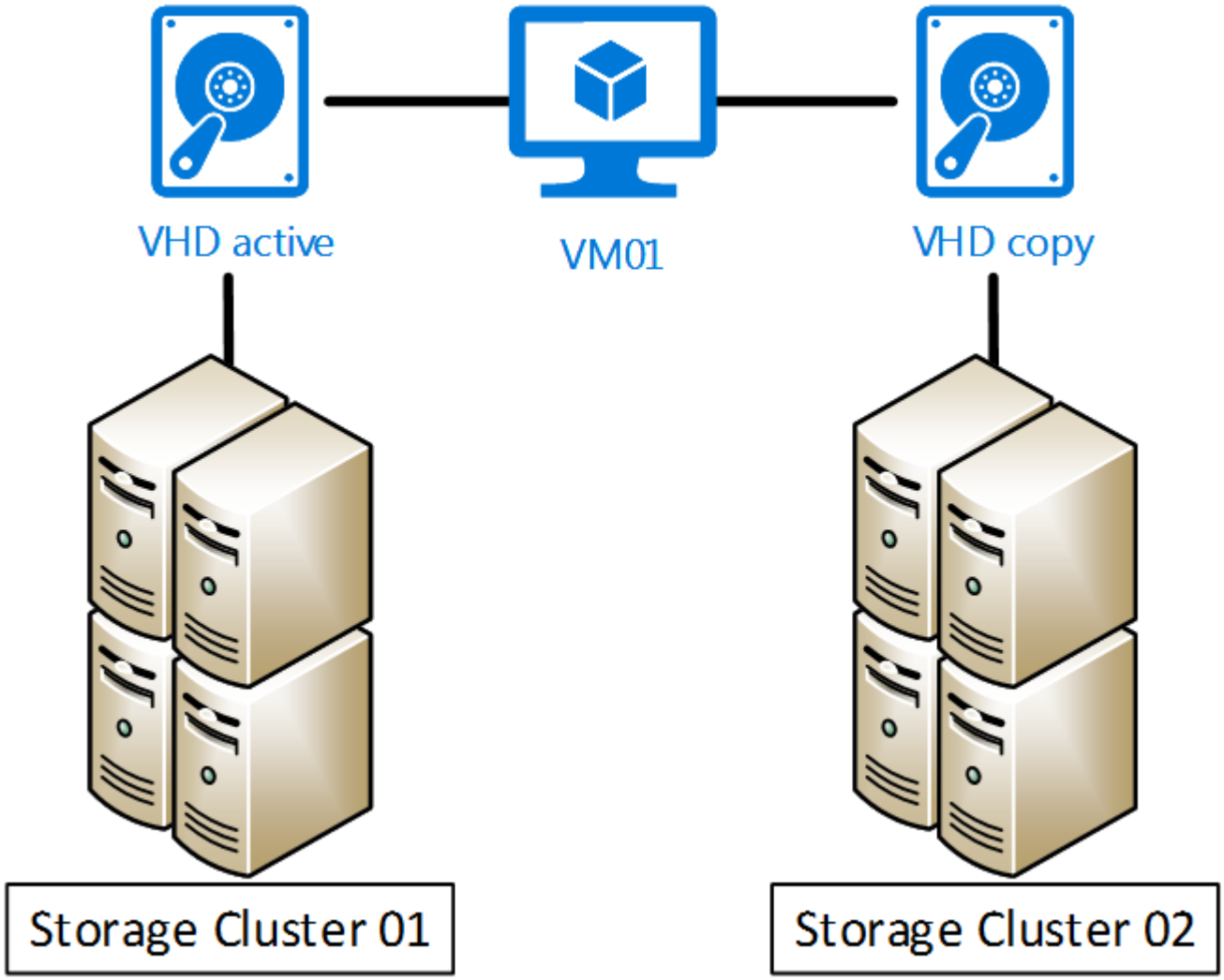
Chapter 6: Planning and Deploying Virtual Machines in Azure

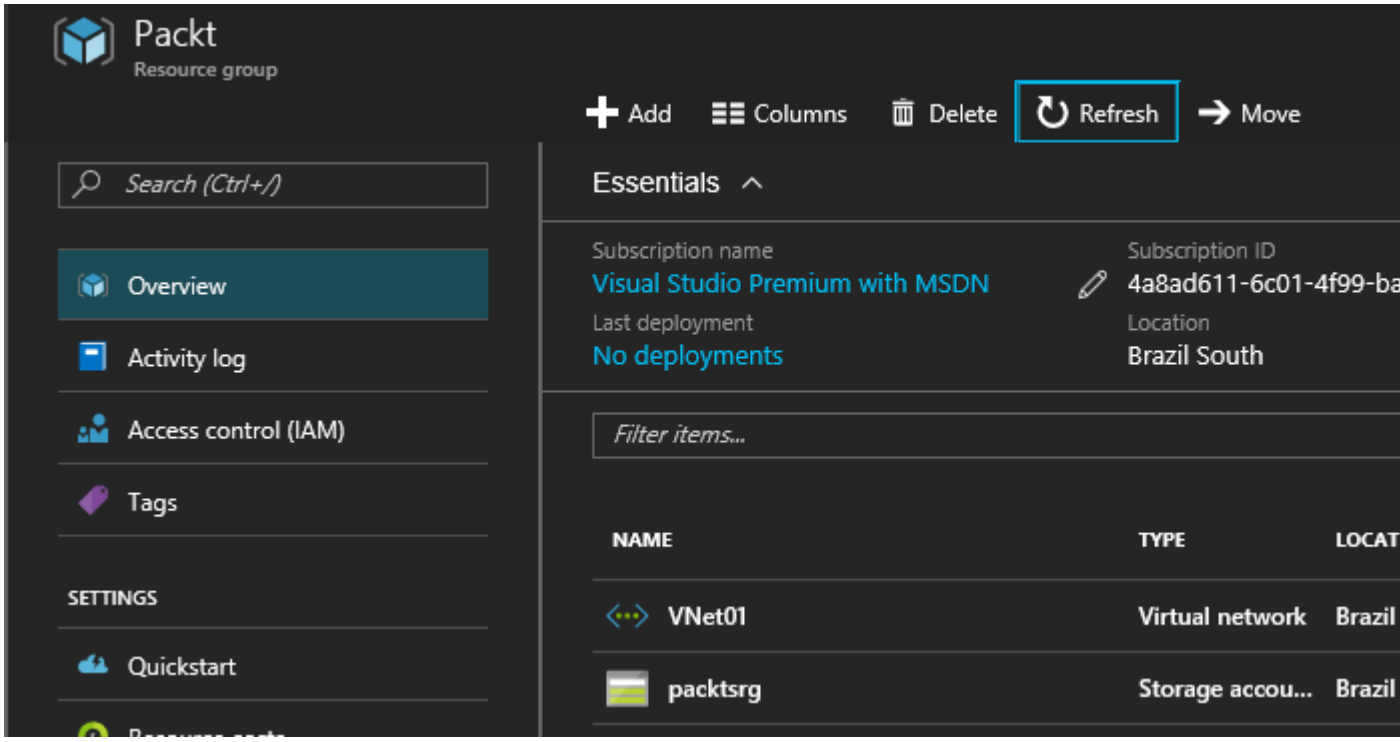


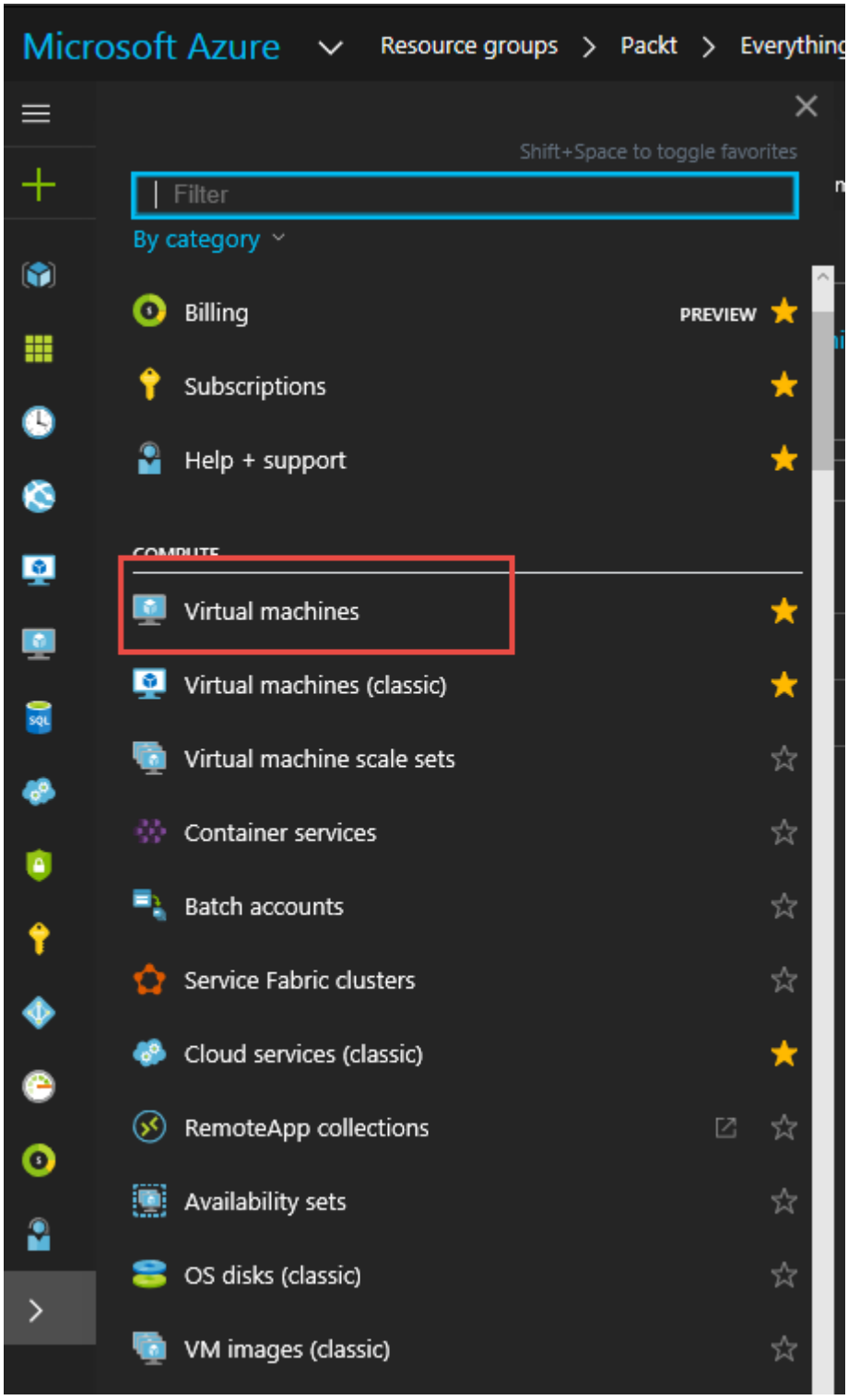

Create virtual machine
1
Basics
Done
2
Size
Done
3
Settings
Configure optional features
4
Summary
Windows Server 2016 Datacent...
Settings
Storage
Disk type
HDD
SSD
Use managed disks
No
Yes
Network
* Virtual network
VN01
* Subnet
Server (10.100.1.0/24)

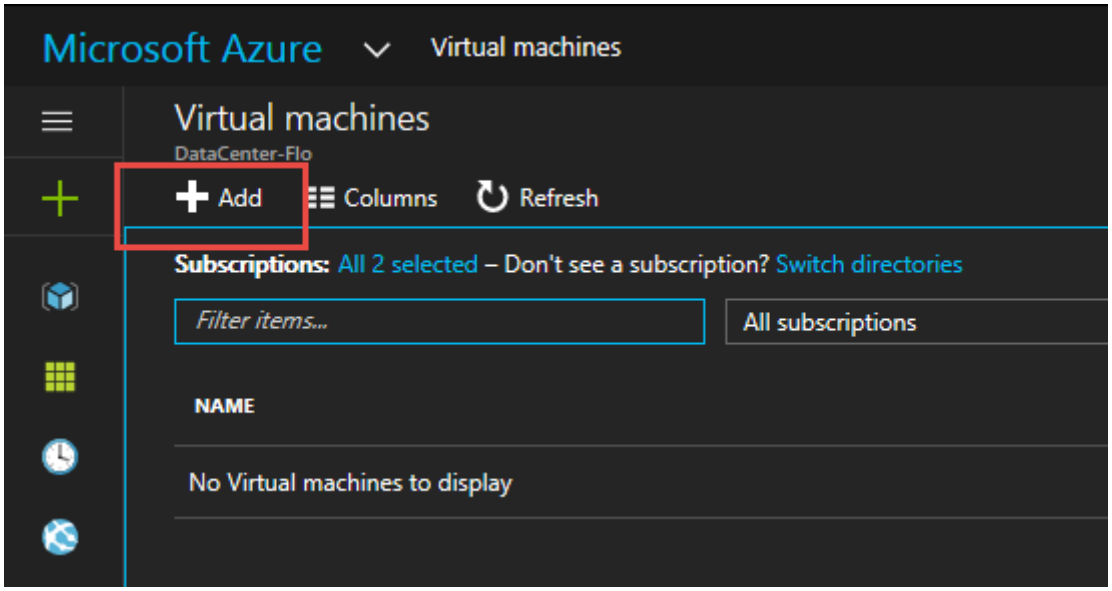

CHE-VM1 - Disks
Virtual machine
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Availability set
Disks
Extensions
Network interfaces
Size
Backup
Properties
Edit
2
NAME
CHE-VM1
Data disks
None
1

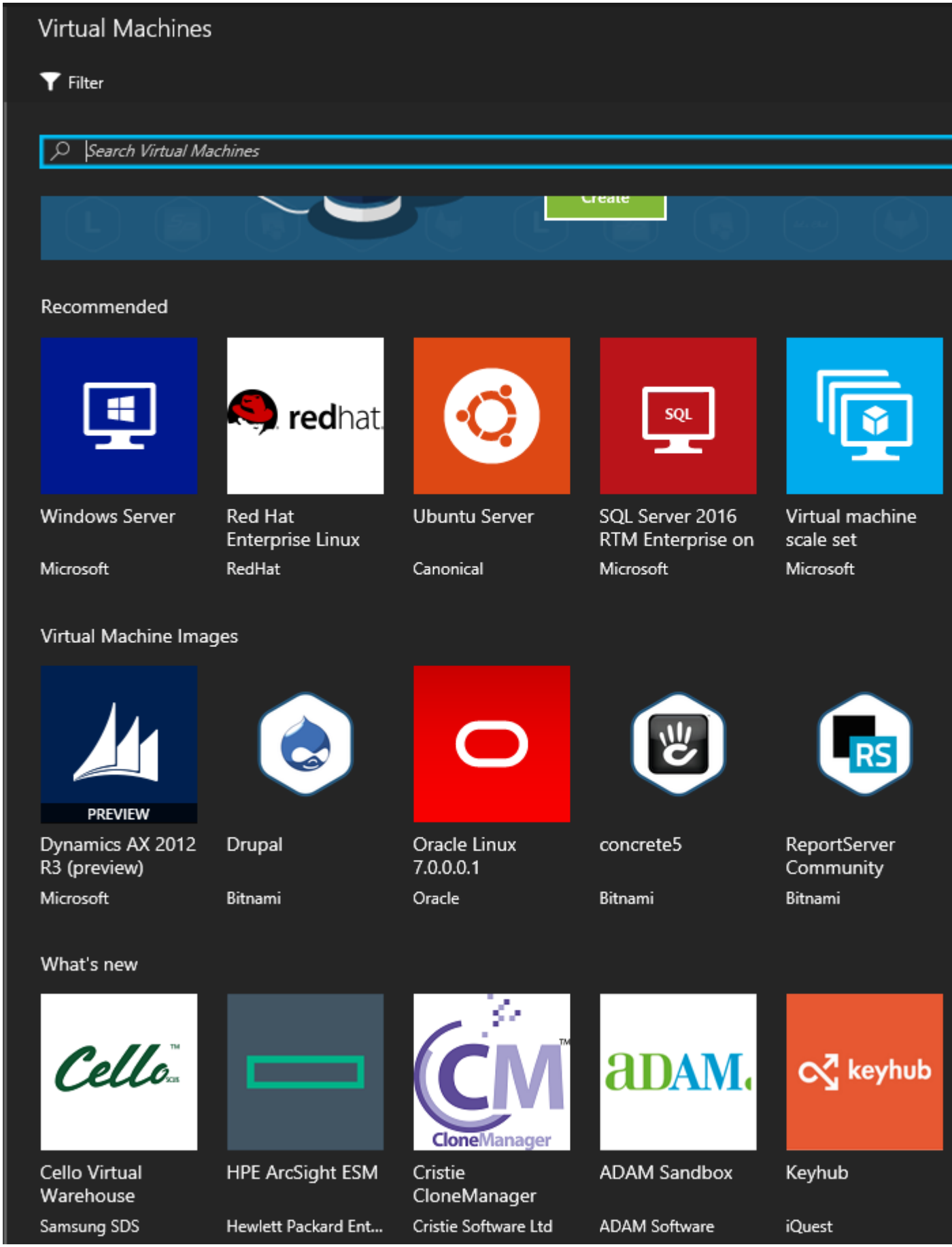

Fault Domain 01
Update Domain 01
VM01
Physical Host
Update Domain 02
Physical Host
Fault Domain 02
Update Domain 01
Physical Host
Update Domain 02
VM02
Physical Host

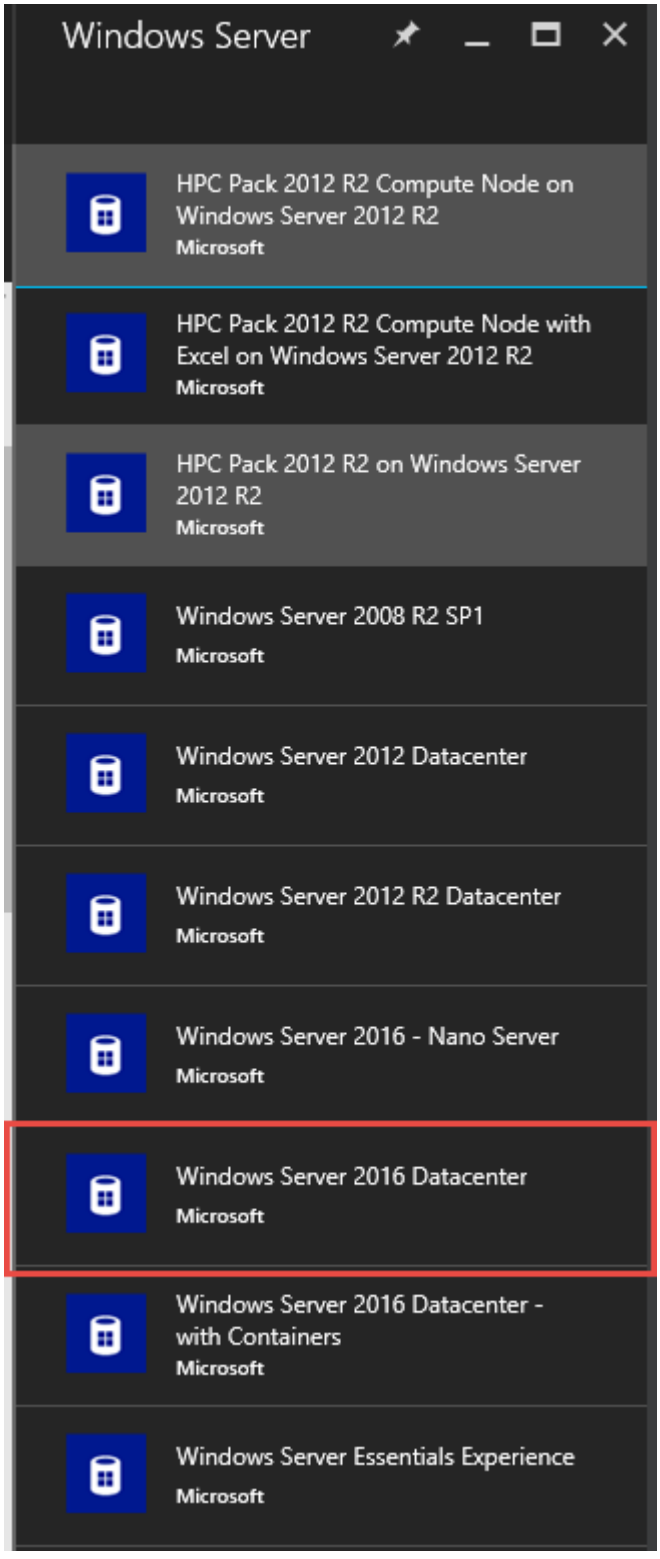

VHD active
VM01
VHD copy
Storage Cluster 01
Storage Cluster 02

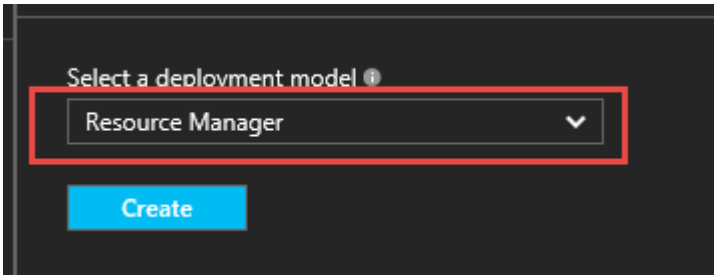

Packt
Resource group
Add
Columns
Delete
Refresh
Move
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Essentials
Subscription name
Visual Studio Premium with MSDN
Subscription ID
4a8ad611-6c01-4f99-ba
Last deployment
No deployments
Location
Brazil South
Filter items...
NAME
TYPE
LOCAT
VNet01
Virtual network
Brazil
packtsrg
Storage accou...
Brazil

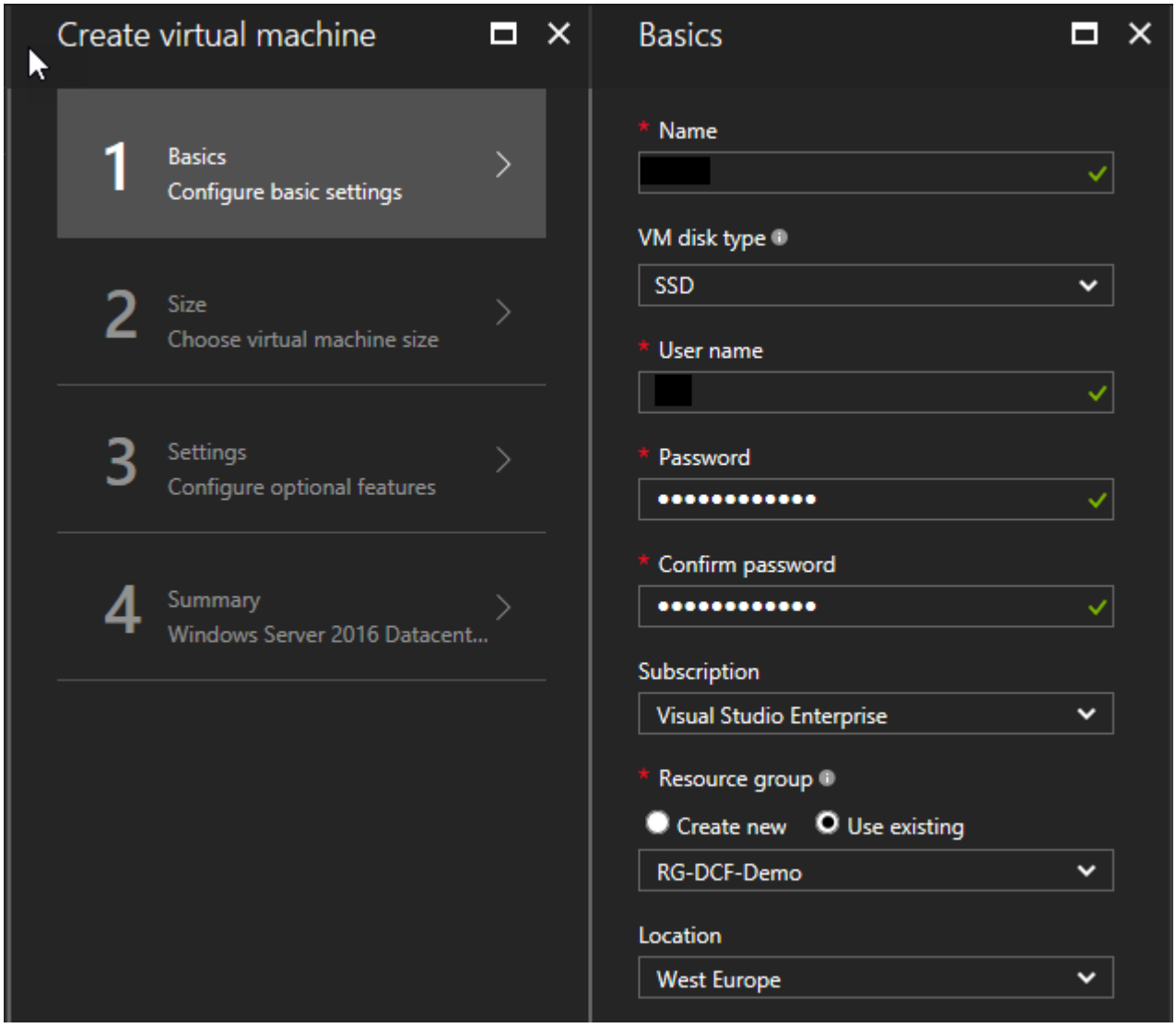

Microsoft Azure
Resource groups
Packt
Everything
Shift+Space to toggle favorites
Filter
By category
Billing
PREVIEW
Subscriptions
Help + support
COMPUTE
Virtual machines
Virtual machines (classic)
Virtual machine scale sets
Container services
Batch accounts
Service Fabric clusters
Cloud services (classic)
RemoteApp collections
Availability sets
OS disks (classic)
VM images (classic)

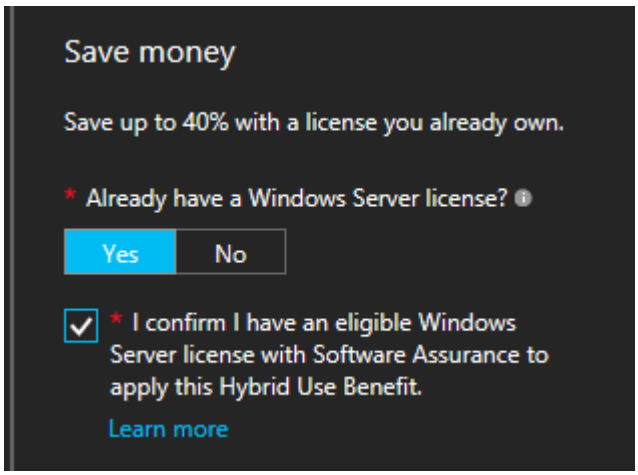

Microsoft Azure
Virtual machines
Virtual machines
DataCenter-Flo
Add
Columns
Refresh
Subscriptions: All 2 selected – Don't see a subscription? Switch directories
Filter items...
All subscriptions
NAME
No Virtual machines to display

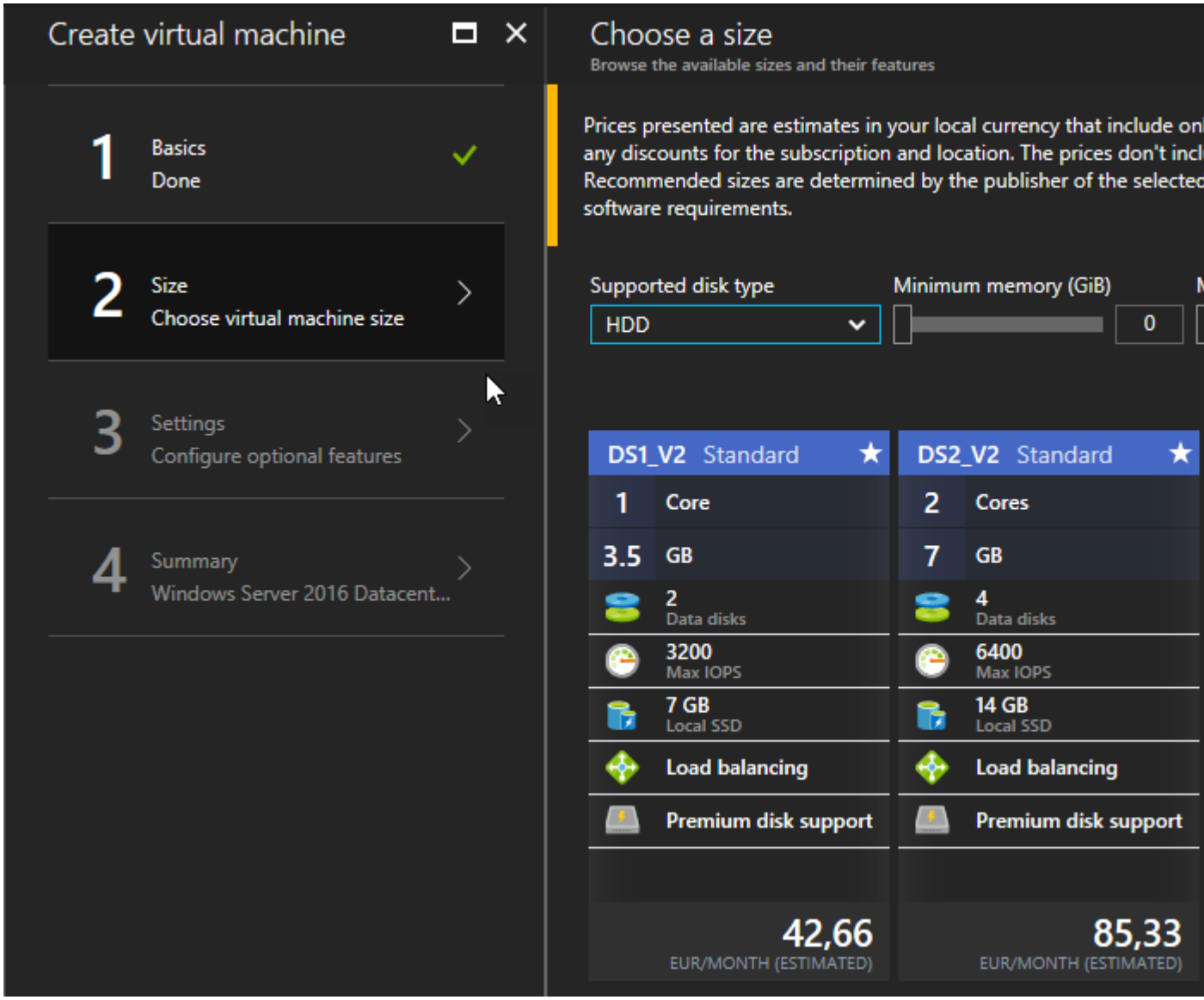

Virtual Machines
Filter
Search Virtual Machines
Recommended
Windows Server
Microsoft
Red Hat Enterprise Linux
RedHat
Ubuntu Server
Canonical
SQL Server 2016 RTM Enterprise on
Microsoft
Virtual machine scale set
Microsoft
Virtual Machine Images
PREVIEW
Dynamics AX 2012 R3 (preview)
Microsoft
Drupal
Bitnami
Oracle Linux 7.0.0.0.1
Oracle
concrete5
Bitnami
ReportServer Community
Bitnami
What's new
Cello Virtual Warehouse
Samsung SDS
HPE ArcSight ESM
Hewlett Packard Ent...
Cristie CloneManager
Cristie Software Ltd
ADAM Sandbox
ADAM Software
Keyhub
iQuest

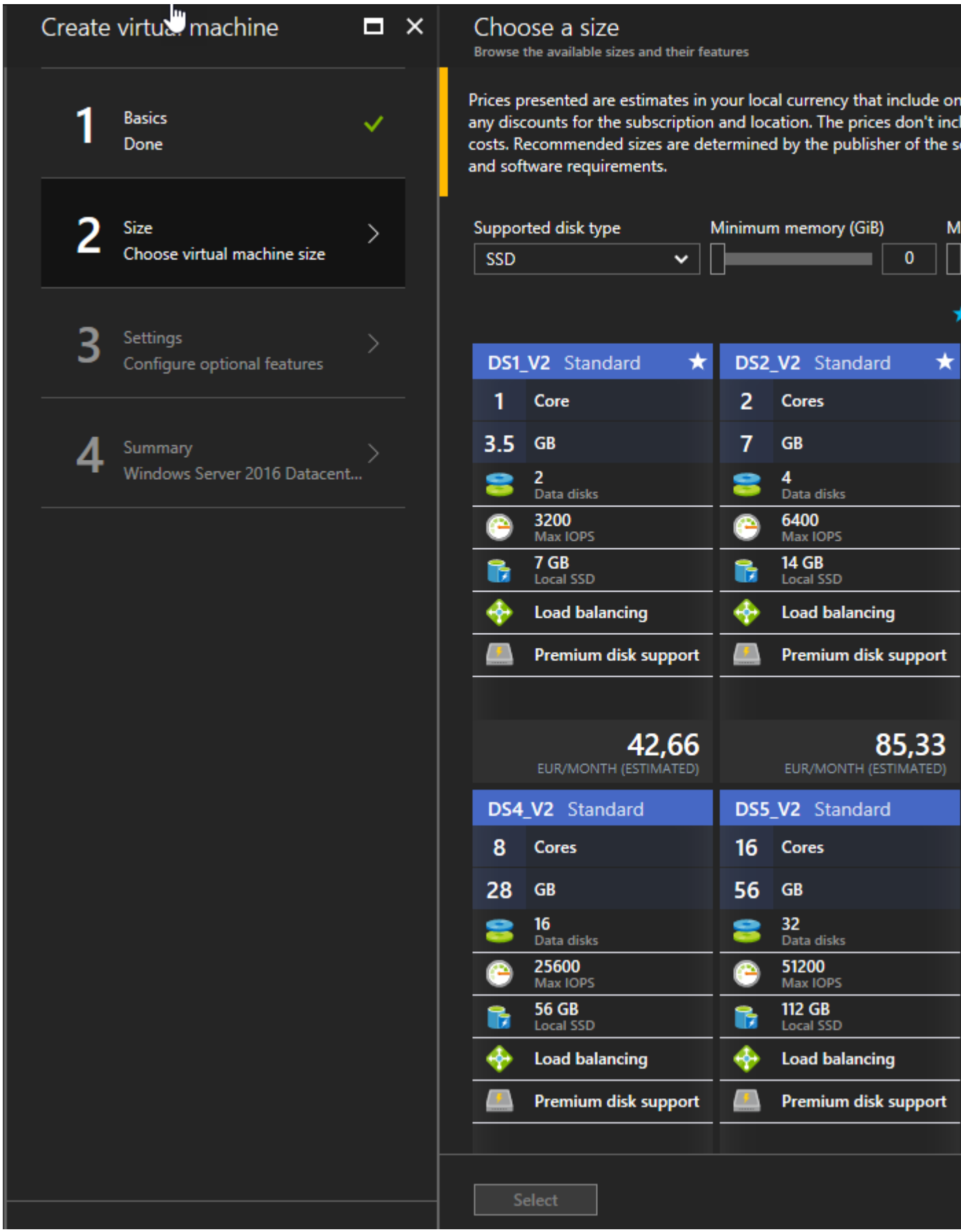

Windows Server
HPC Pack 2012 R2 Compute Node on Windows Server 2012 R2
Microsoft
HPC Pack 2012 R2 Compute Node with Excel on Windows Server 2012 R2
Microsoft
HPC Pack 2012 R2 on Windows Server 2012 R2
Microsoft
Windows Server 2008 R2 SP1
Microsoft
Windows Server 2012 Datacenter
Microsoft
Windows Server 2012 R2 Datacenter
Microsoft
Windows Server 2016 - Nano Server
Microsoft
Windows Server 2016 Datacenter
Microsoft
Windows Server 2016 Datacenter - with Containers
Microsoft
Windows Server Essentials Experience
Microsoft

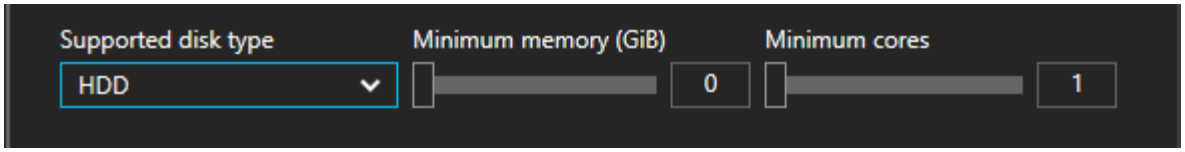

Select a deployment model
Resource Manager
Create

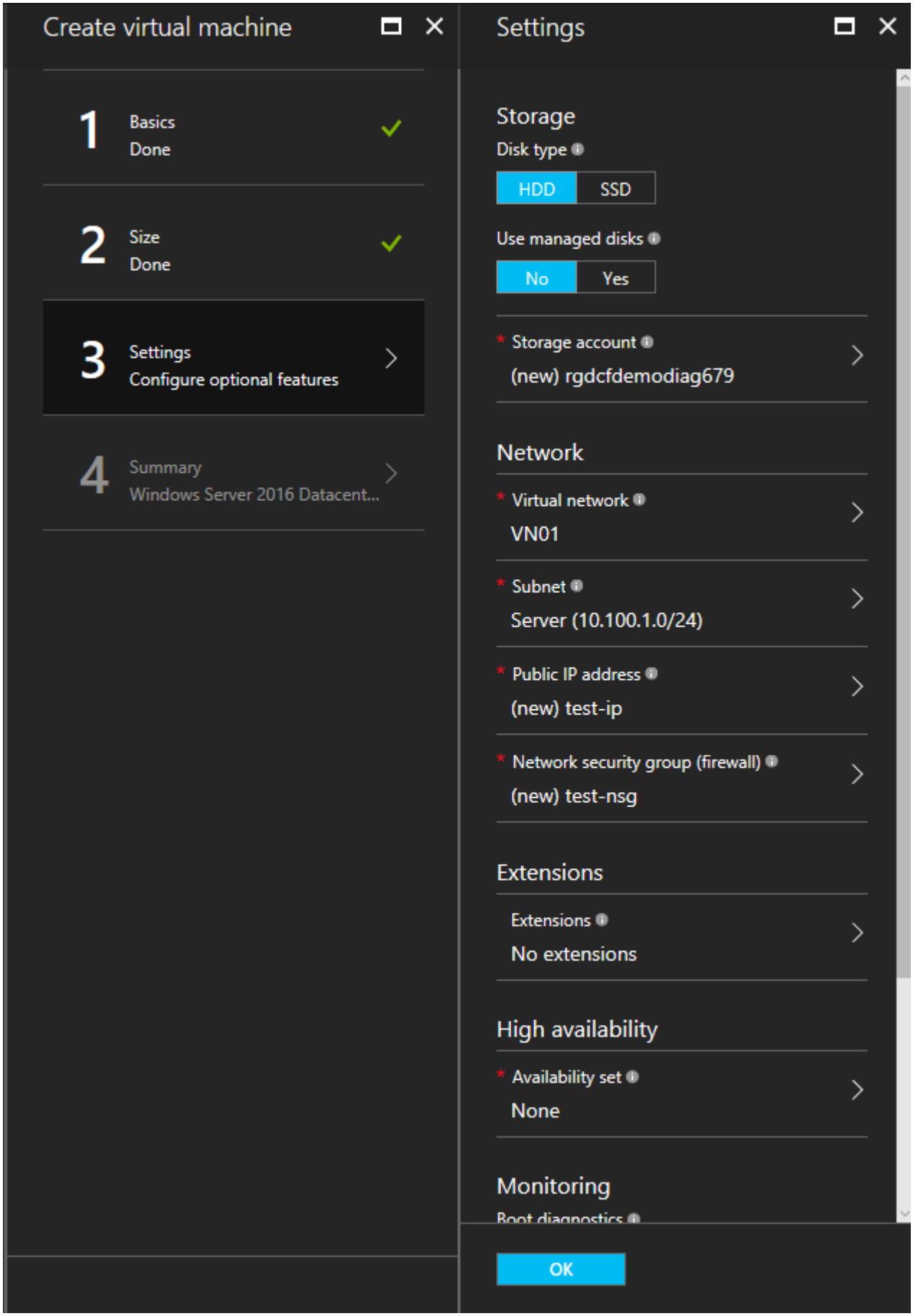

Create virtual machine
1
Basics
Configure basic settings
2
Size
Choose virtual machine size
3
Settings
Configure optional features
4
Summary
Windows Server 2016 Datacent...
Basics
* Name
VM disk type
SSD
* User name
* Password
* Confirm password
Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
RG-DCF-Demo
Location
West Europe

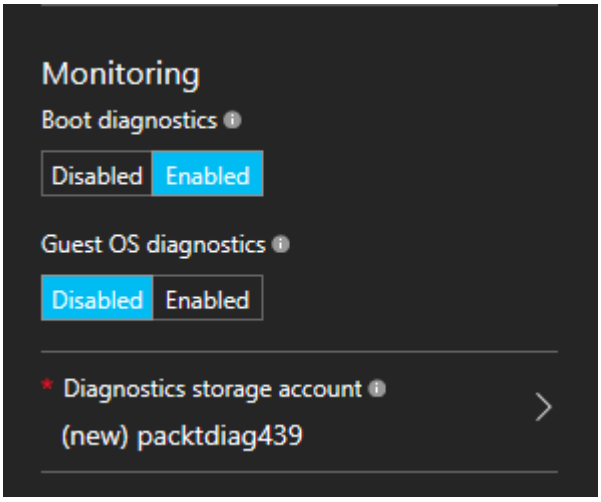

Save money
Save up to 40% with a license you already own.
* Already have a Windows Server license?
Yes
No
* I confirm I have an eligible Windows Server license with Software Assurance to apply this Hybrid Use Benefit.
Learn more

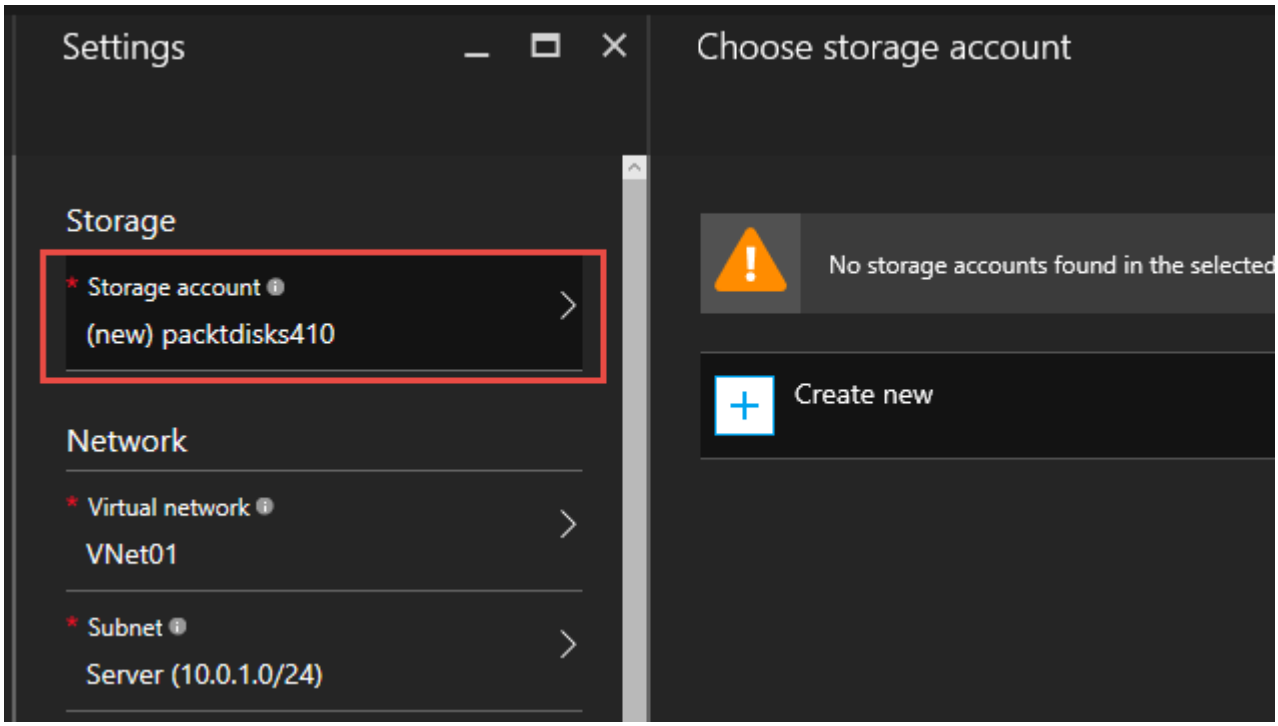

Create virtual machine
1
Basics
Done
2
Size
Choose virtual machine size
3
Settings
Configure optional features
4
Summary
Windows Server 2016 Datacent...
Choose a size
Browse the available sizes and their features
Prices presented are estimates in your local currency that include on
any discounts for the subscription and location. The prices don't incl
Recommended sizes are determined by the publisher of the selected
software requirements.
Supported disk type
HDD
Minimum memory (GiB)
0
DS1_V2 Standard
1 Core
3.5 GB
2 Data disks
3200 Max IOPS
7 GB Local SSD
Load balancing
Premium disk support
42,66
EUR/MONTH (ESTIMATED)
DS2_V2 Standard
2 Cores
7 GB
4 Data disks
6400 Max IOPS
14 GB Local SSD
Load balancing
Premium disk support
85,33
EUR/MONTH (ESTIMATED)

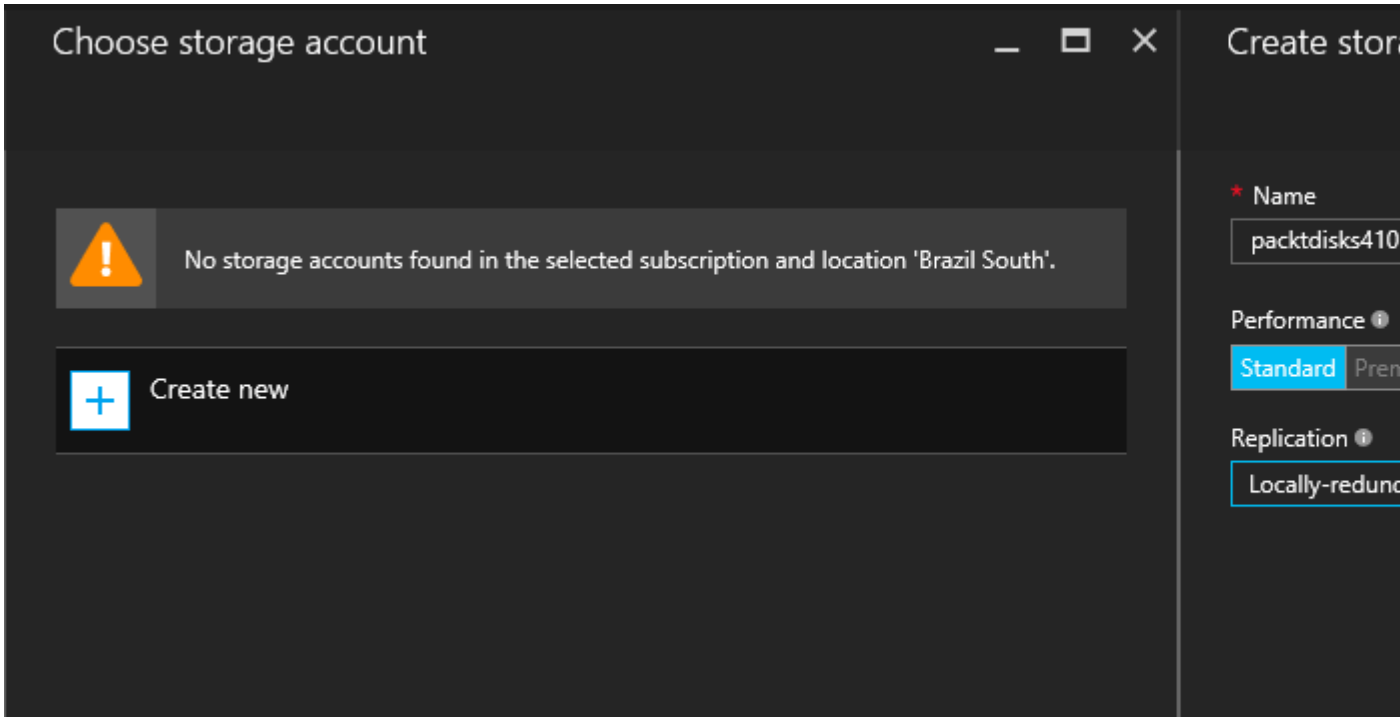

Create virtual machine
1
Basics
Done
2
Size
Choose virtual machine size
3
Settings
Configure optional features
4
Summary
Windows Server 2016 Datacent...
Choose a size
Browse the available sizes and their features
Prices presented are estimates in your local currency that include on
any discounts for the subscription and location. The prices don't incl
costs. Recommended sizes are determined by the publisher of the s
and software requirements.
Supported disk type
SSD
Minimum memory (GiB)
0
DS1_V2 Standard
1 Core
3.5 GB
2 Data disks
3200 Max IOPS
7 GB Local SSD
Load balancing
Premium disk support
42,66
EUR/MONTH (ESTIMATED)
DS2_V2 Standard
2 Cores
7 GB
4 Data disks
6400 Max IOPS
14 GB Local SSD
Load balancing
Premium disk support
85,33
EUR/MONTH (ESTIMATED)
DS4_V2 Standard
8 Cores
28 GB
16 Data disks
25600 Max IOPS
56 GB Local SSD
Load balancing
Premium disk support
DS5_V2 Standard
16 Cores
56 GB
32 Data disks
51200 Max IOPS
112 GB Local SSD
Load balancing
Premium disk support
Select

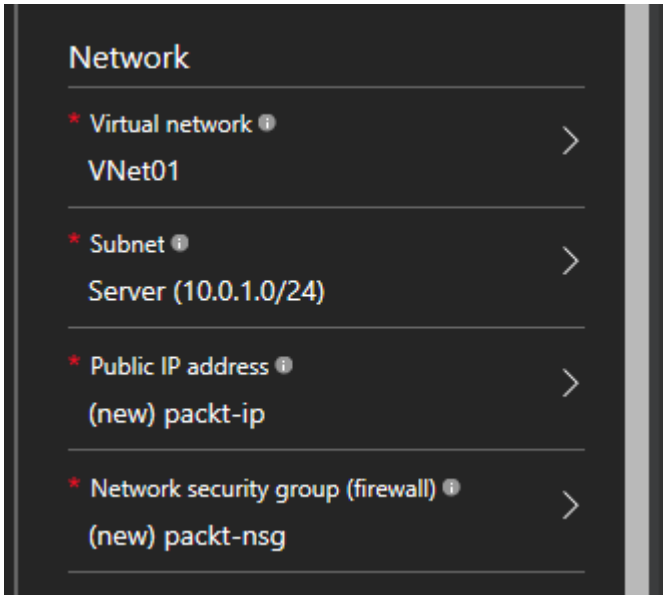

Supported disk type
HDD
Minimum memory (GiB)
0
Minimum cores
1

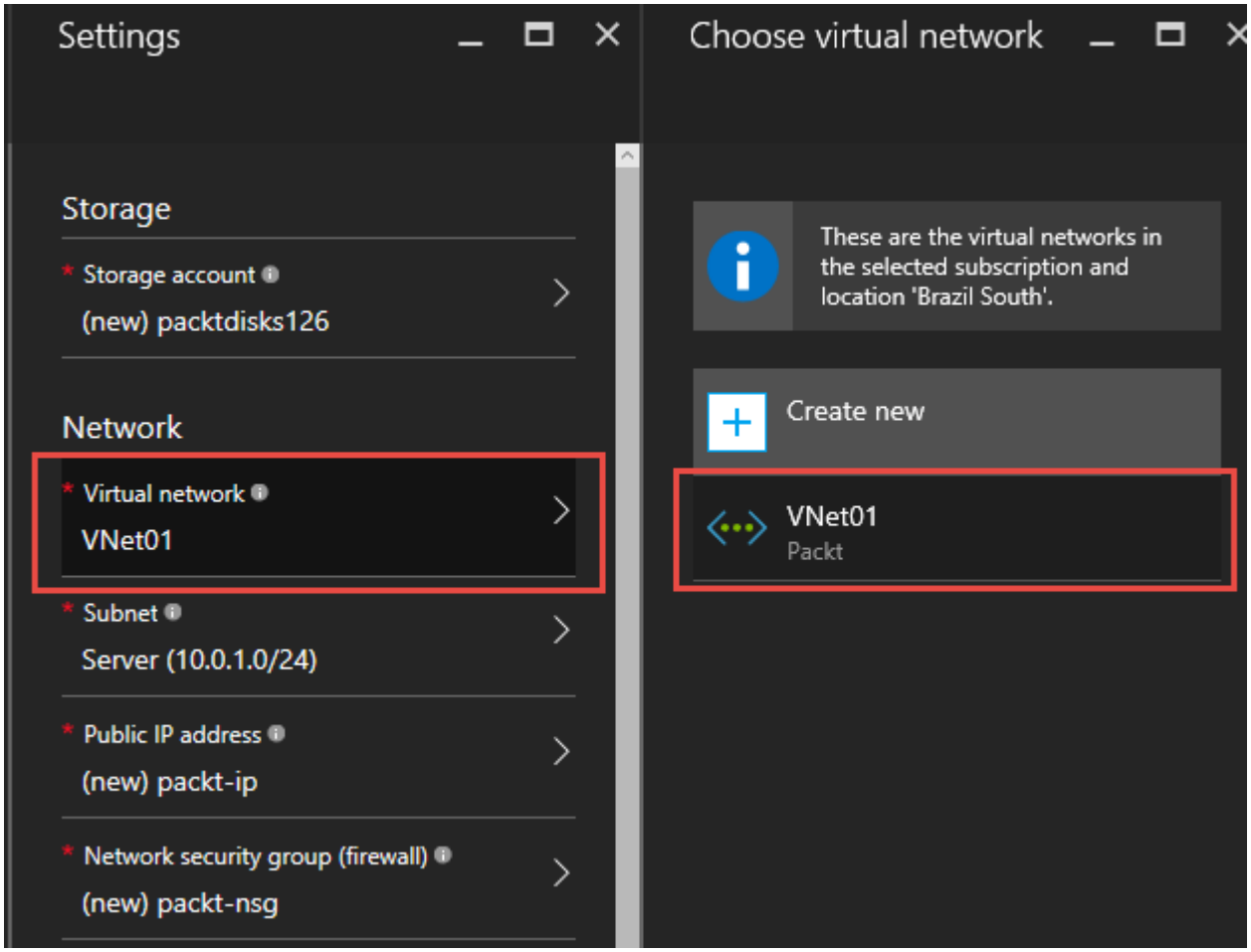

Create virtual machine
1
Basics
Done
2
Size
Done
3
Settings
Configure optional features
4
Summary
Windows Server 2016 Datacent...
Settings
Storage
Disk type
HDD
SSD
Use managed disks
No
Yes
* Storage account
(new) rgdcfdemodiag679
Network
* Virtual network
VN01
* Subnet
Server (10.100.1.0/24)
* Public IP address
(new) test-ip
* Network security group (firewall)
(new) test-nsg
Extensions
Extensions
No extensions
High availability
* Availability set
None
Monitoring
Boot diagnostics
OK

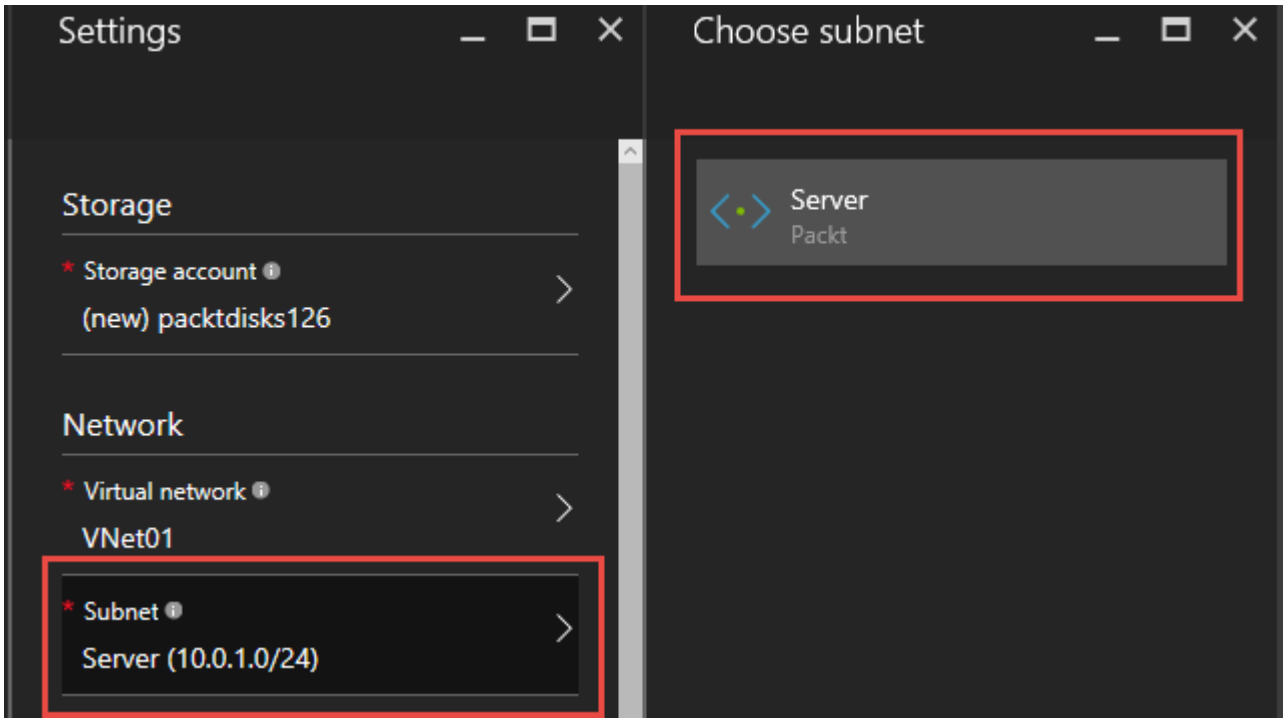

Monitoring
Boot diagnostics
Disabled
Enabled
Guest OS diagnostics
Disabled
Enabled
* Diagnostics storage account
(new) packtdiag439

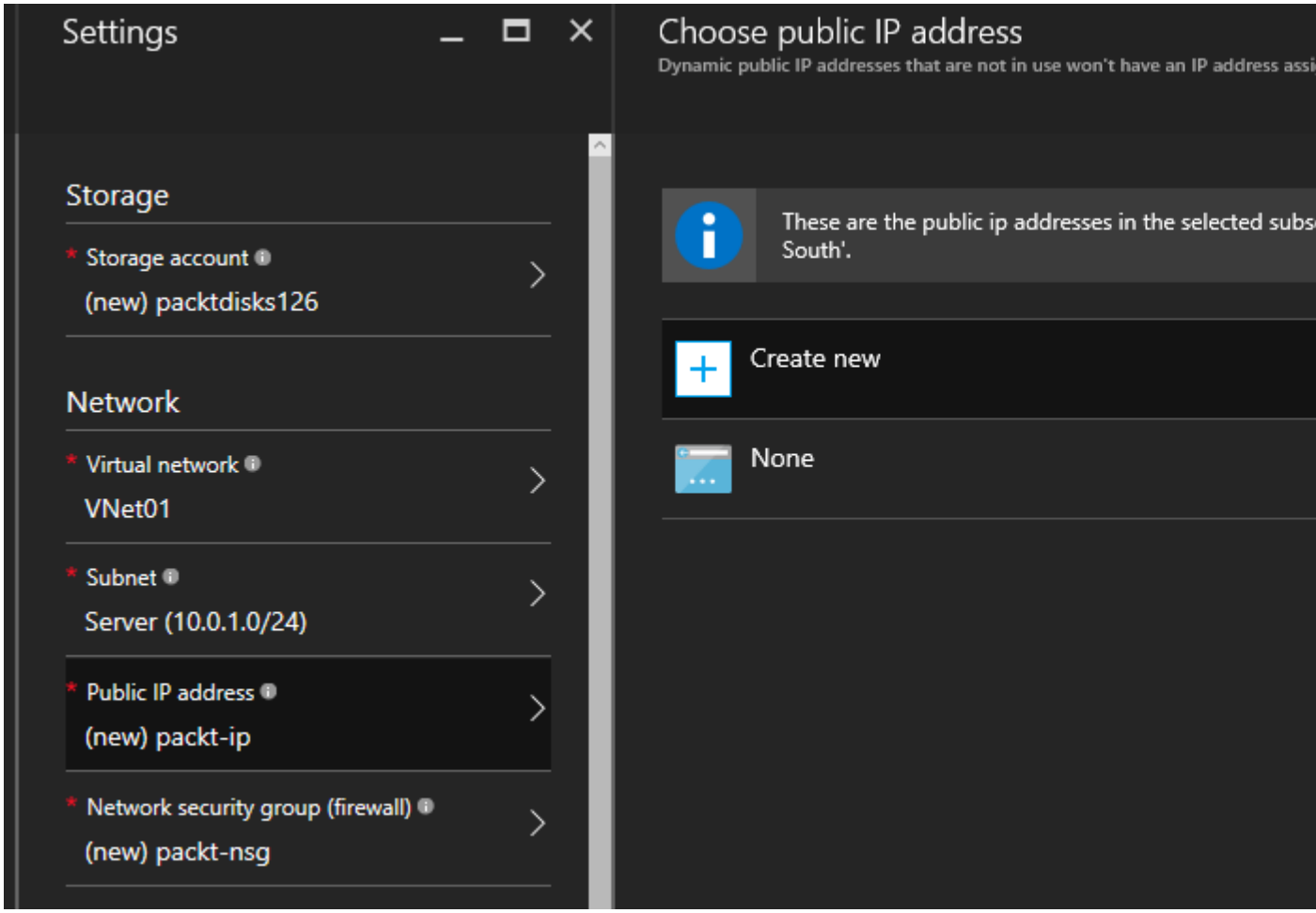

Settings
Storage
* Storage account
(new) packtdisks410
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
Choose storage account
No storage accounts found in the selected
Create new

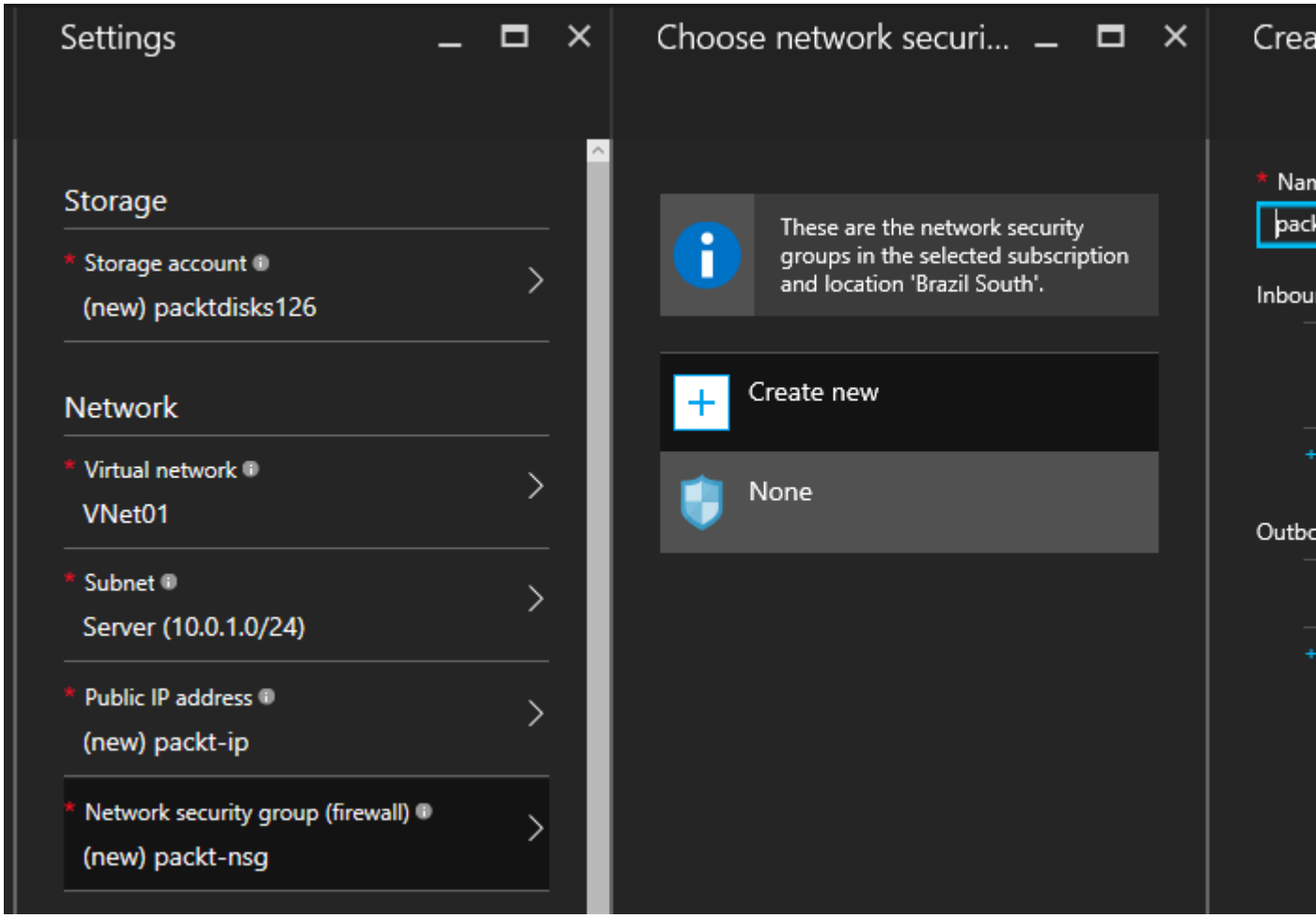

Choose storage account
No storage accounts found in the selected subscription and location 'Brazil South'.
Create new
Create stor
Name
packtdisks410
Performance
Standard
Replication
Locally-redun

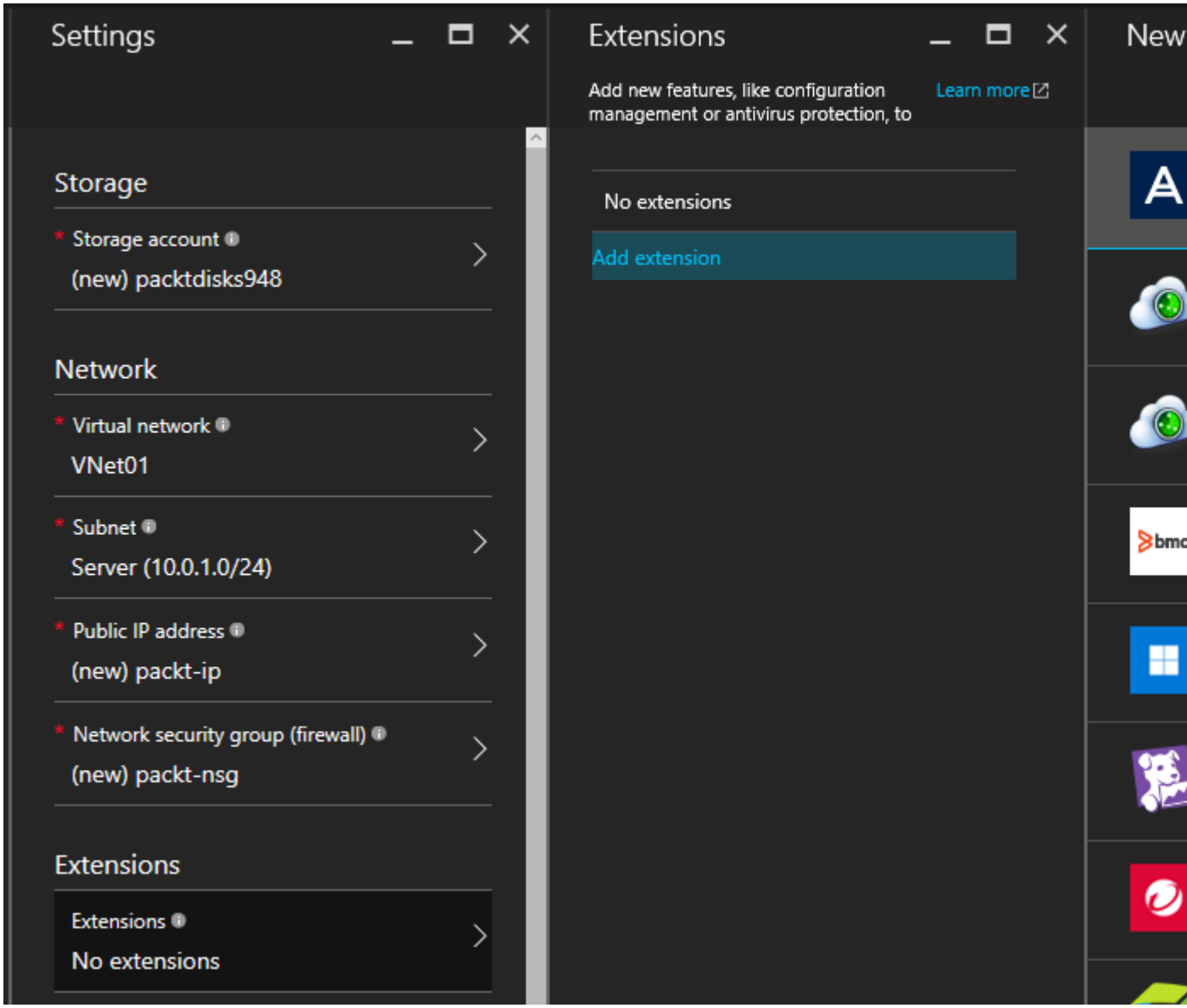

Network
Virtual network
VNet01
Subnet
Server (10.0.1.0/24)
Public IP address
(new) packt-ip
Network security group (firewall)
(new) packt-nsg

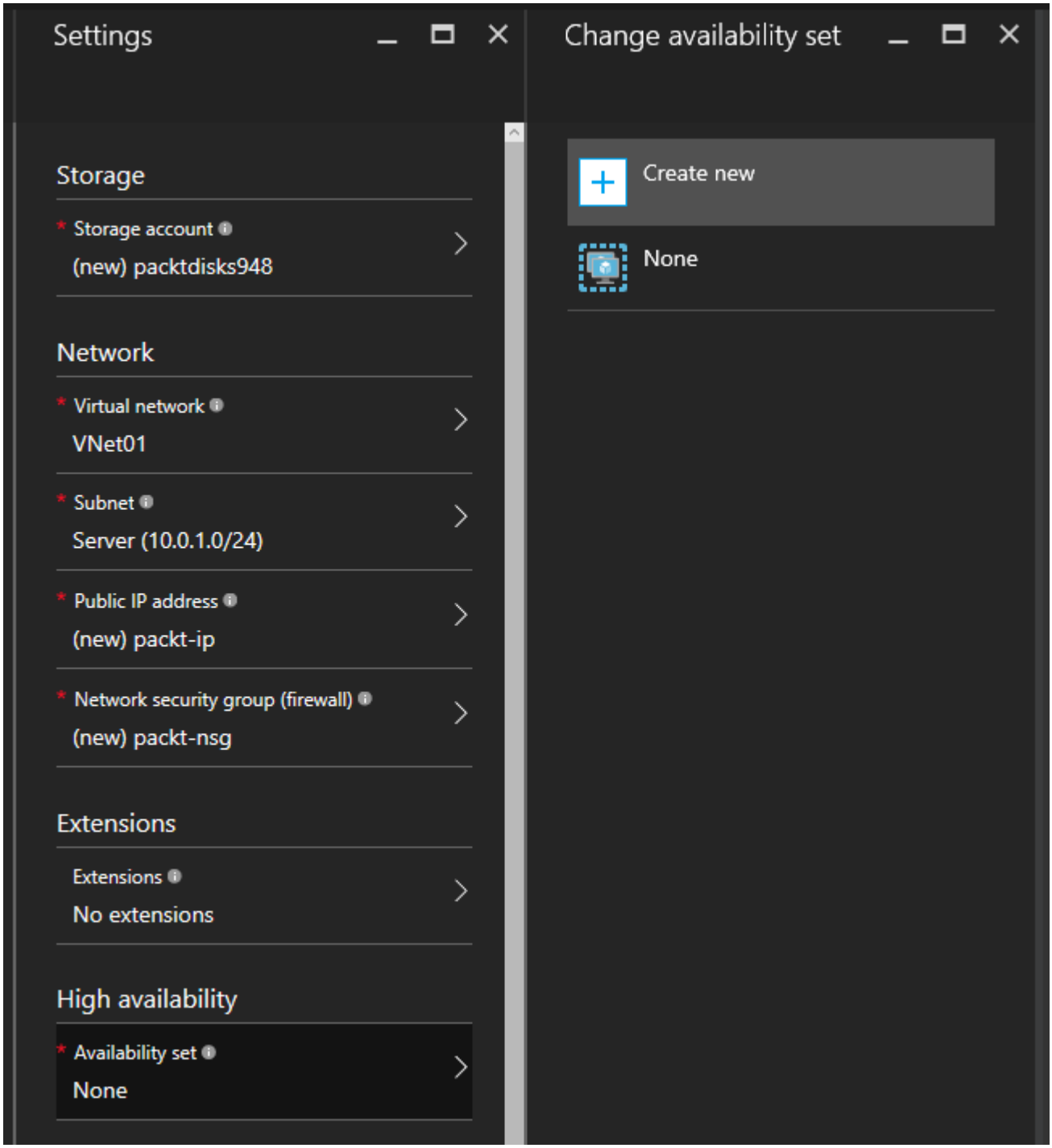

Settings
Storage
* Storage account
(new) packtdisks126
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) packt-ip
* Network security group (firewall)
(new) packt-nsg
Choose virtual network
These are the virtual networks in the selected subscription and location 'Brazil South'.
Create new
VNet01
Packt

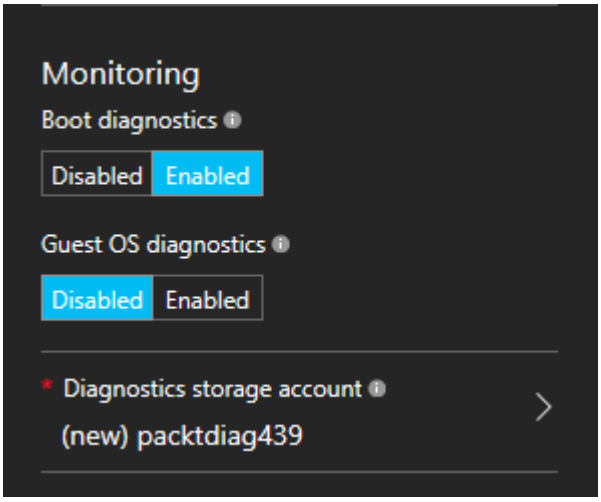

Settings
Storage
* Storage account
(new) packtdisks126
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
Choose subnet
Server
Packt

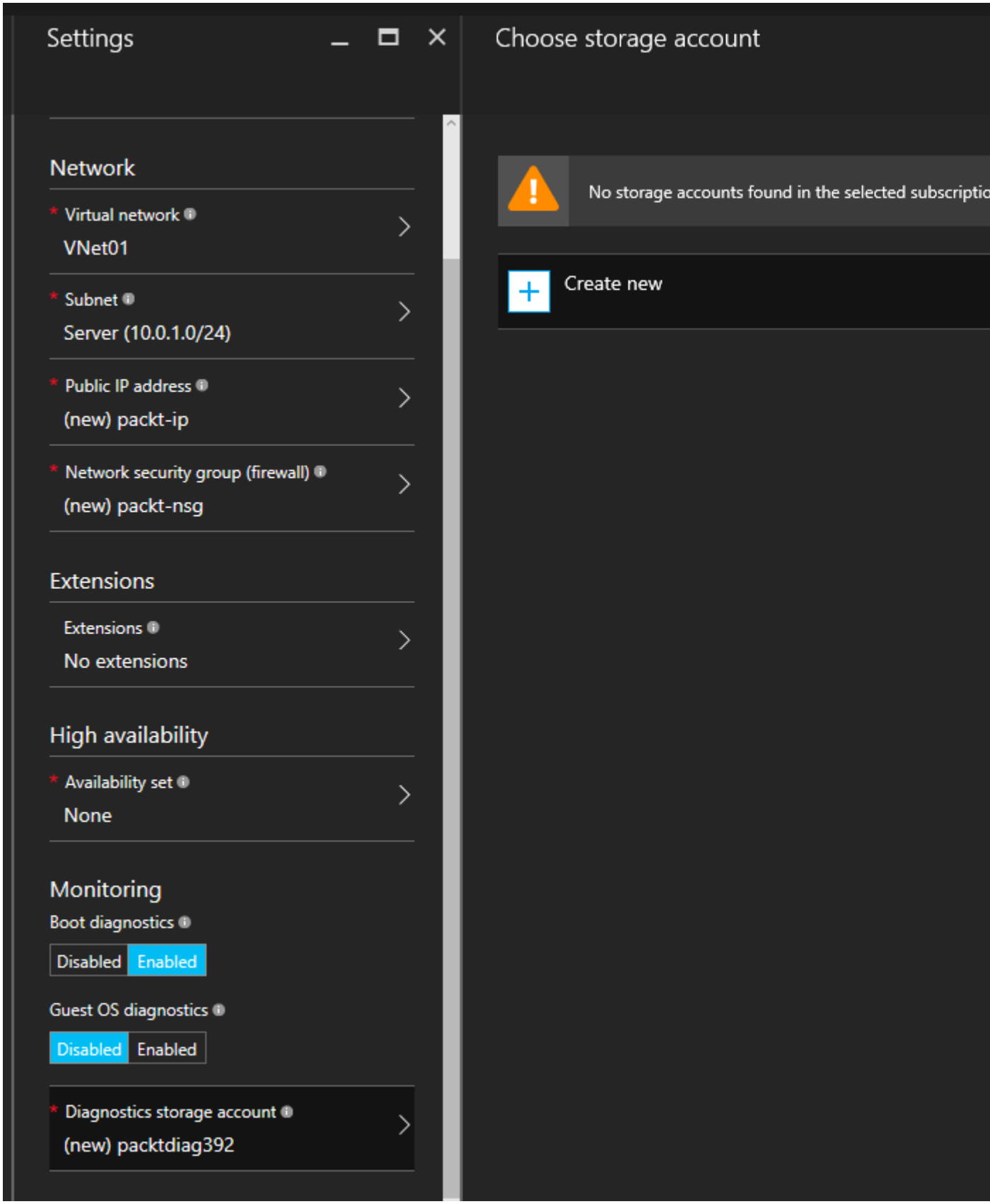

Settings
Storage
* Storage account
(new) packtdisks126
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) packt-ip
* Network security group (firewall)
(new) packt-nsg
Choose public IP address
Dynamic public IP addresses that are not in use won't have an IP address assi
These are the public ip addresses in the selected subs
South'.
Create new
None

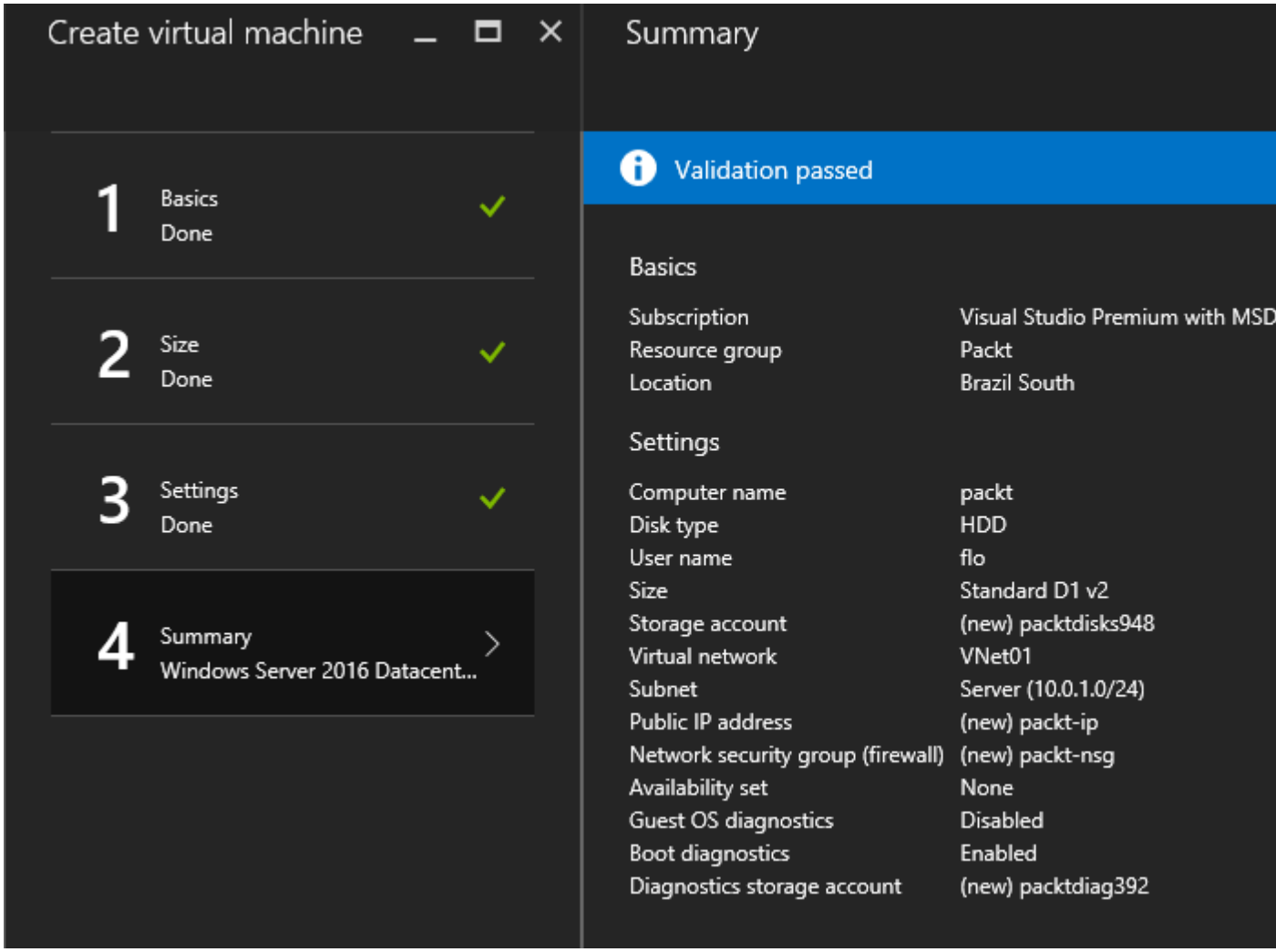

Settings
Storage
* Storage account
(new) packtdisks126
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) packt-ip
* Network security group (firewall)
(new) packt-nsg
Choose network securi...
These are the network security groups in the selected subscription and location 'Brazil South'.
Create new
None
Crea
* Nam
pack
Inbou
Outbo

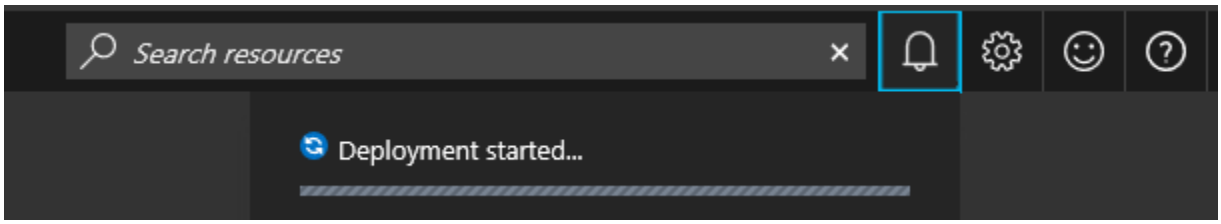

Settings
Storage
* Storage account
(new) packtdisks948
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) packt-ip
* Network security group (firewall)
(new) packt-nsg
Extensions
Extensions
No extensions
Extensions
Add new features, like configuration management or antivirus protection, to
Learn more
No extensions
Add extension
New

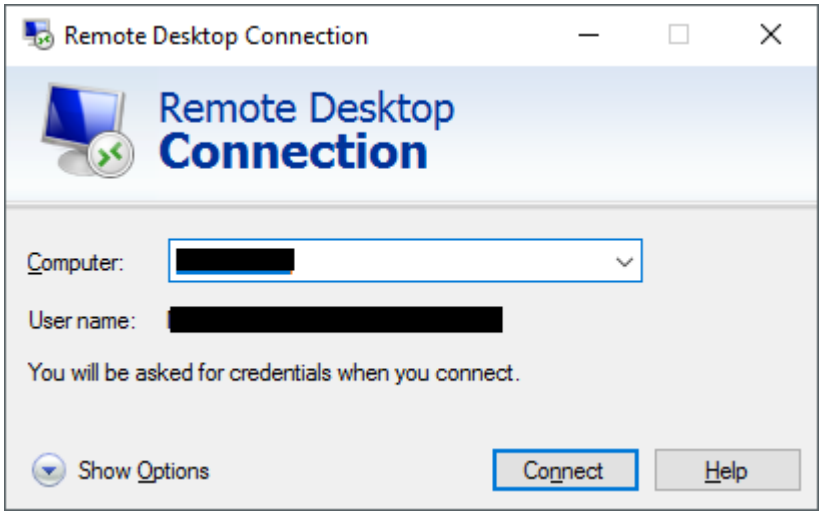

Settings
Storage
* Storage account
(new) packtdisks948
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) packt-ip
* Network security group (firewall)
(new) packt-nsg
Extensions
Extensions
No extensions
High availability
* Availability set
None
Change availability set
Create new
None

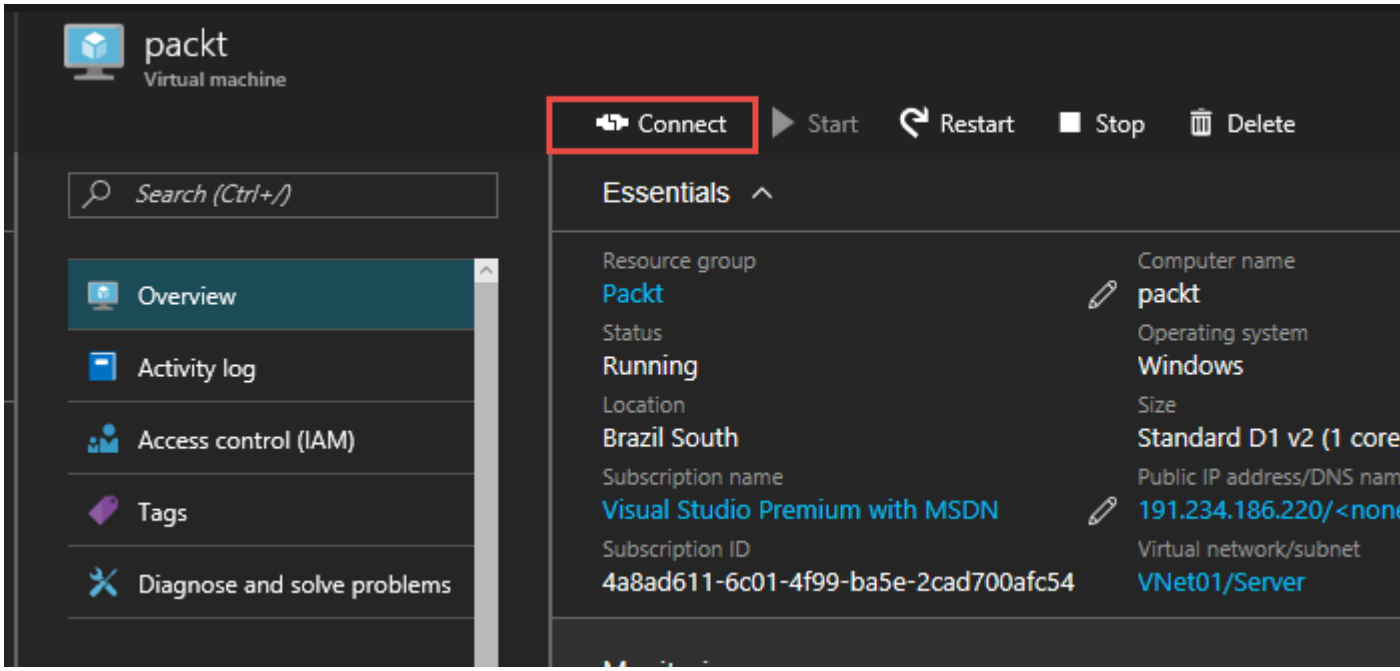

Monitoring
Boot diagnostics
Disabled
Enabled
Guest OS diagnostics
Disabled
Enabled
* Diagnostics storage account
(new) packtdiag439

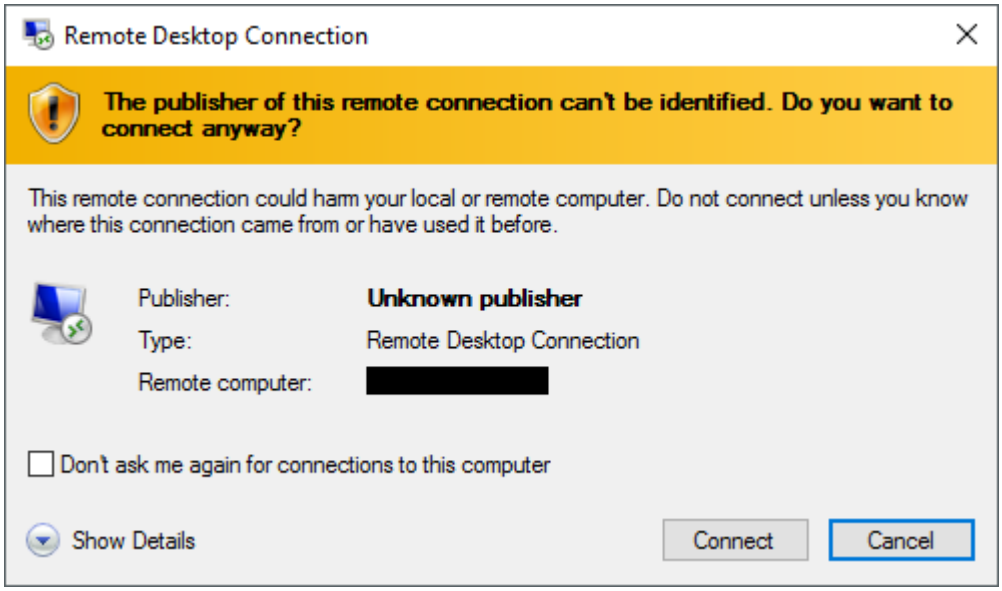

Settings
Network
* Virtual network
VNet01
* Subnet
Server (10.0.1.0/24)
* Public IP address
(new) packt-ip
* Network security group (firewall)
(new) packt-nsg
Extensions
Extensions
No extensions
High availability
* Availability set
None
Monitoring
Boot diagnostics
Disabled
Enabled
Guest OS diagnostics
Disabled
Enabled
* Diagnostics storage account
(new) packtdiag392
Choose storage account
No storage accounts found in the selected subscriptio
Create new

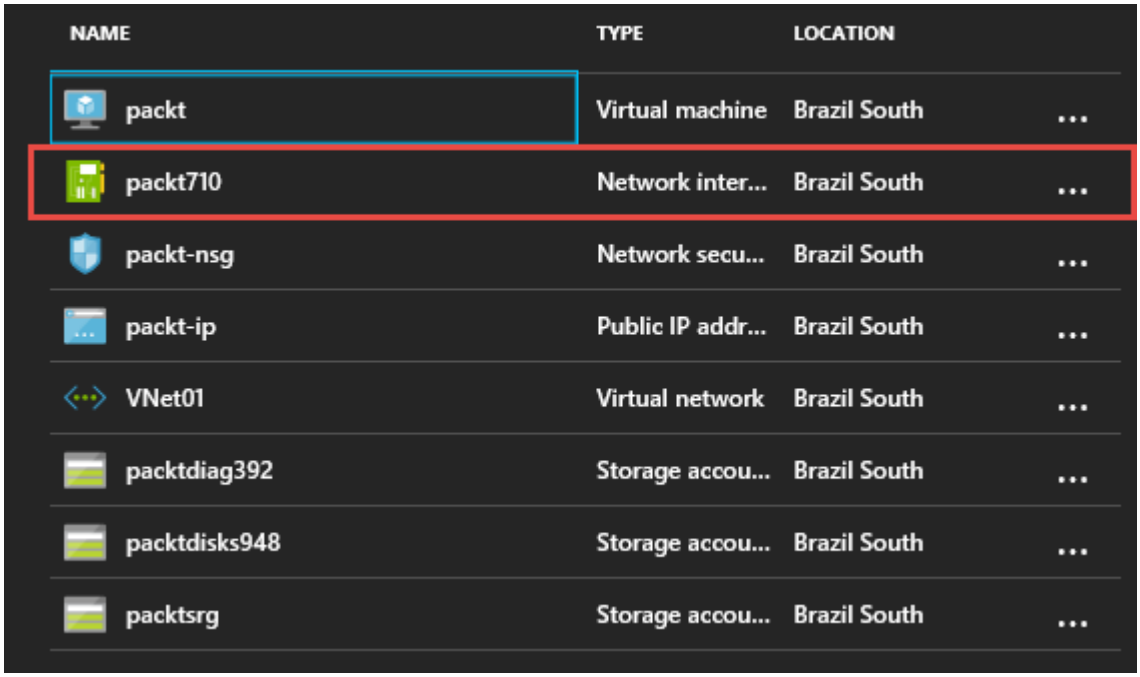

Create virtual machine
1 Basics
Done
2 Size
Done
3 Settings
Done
4 Summary
Windows Server 2016 Datacent...
Summary
Validation passed
Basics
Subscription Visual Studio Premium with MSD
Resource group Packt
Location Brazil South
Settings
Computer name packt
Disk type HDD
User name flo
Size Standard D1 v2
Storage account (new) packtdisks948
Virtual network VNet01
Subnet Server (10.0.1.0/24)
Public IP address (new) packt-ip
Network security group (firewall) (new) packt-nsg
Availability set None
Guest OS diagnostics Disabled
Boot diagnostics Enabled
Diagnostics storage account (new) packtdiag392

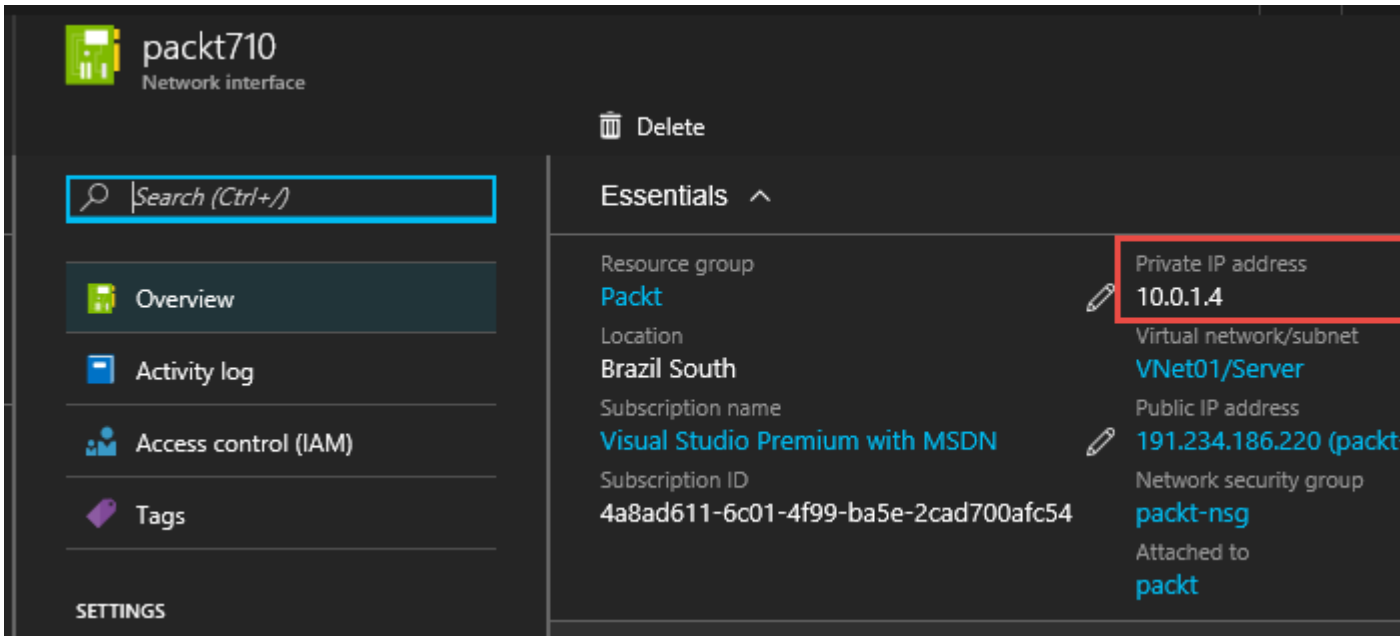

Search resources
Deployment started...

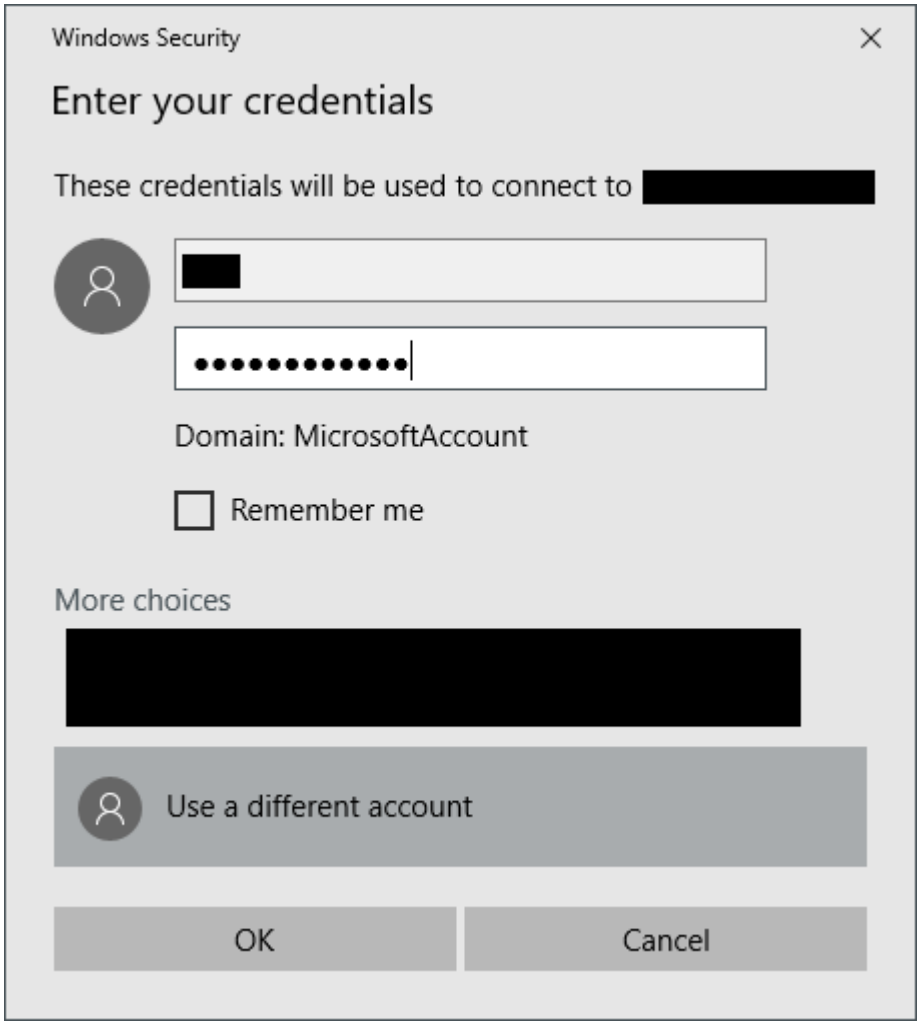

Remote Desktop Connection
Remote Desktop
Connection
Computer:
User name:
You will be asked for credentials when you connect.
Show Options
Connect
Help

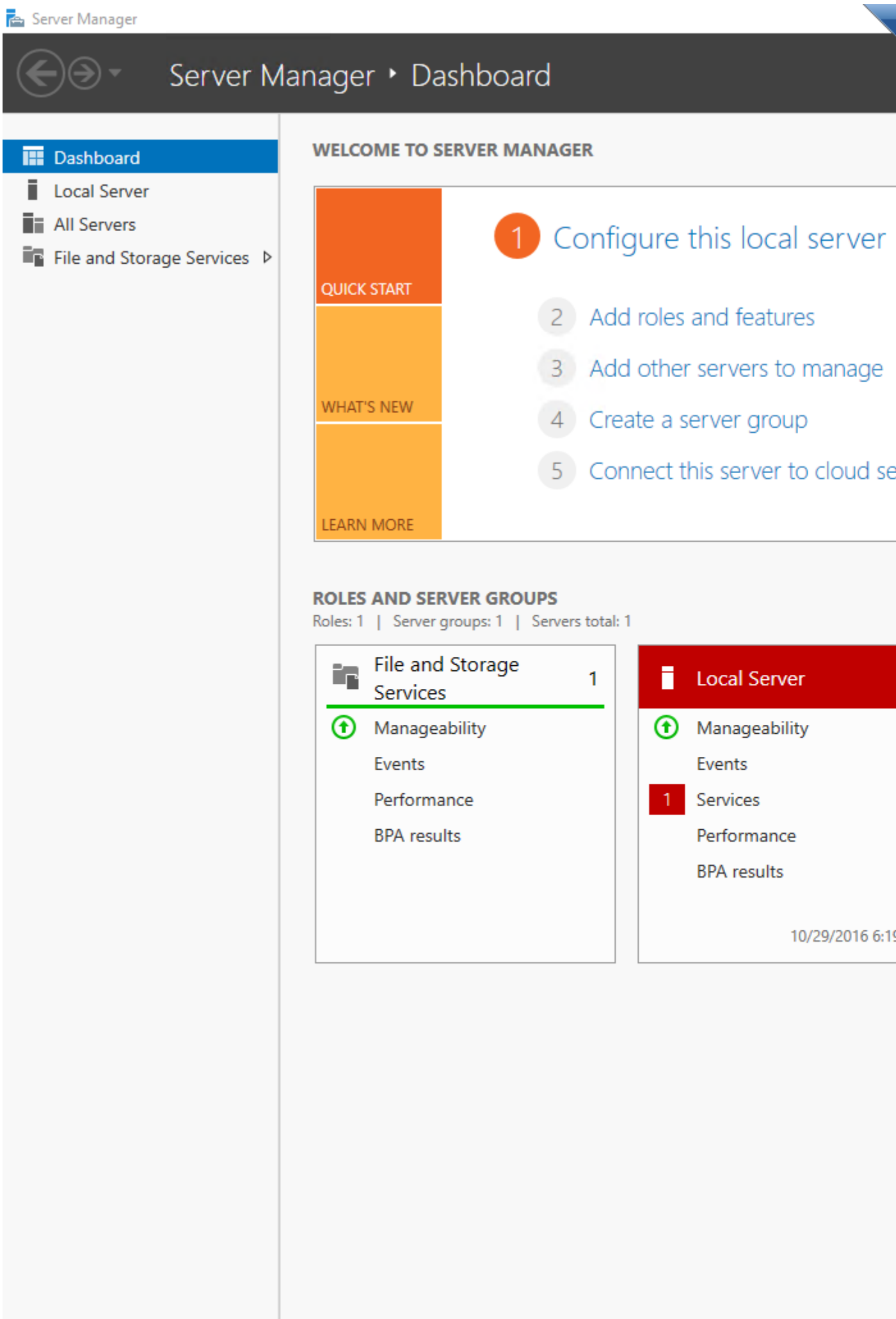

packt
Virtual machine
Connect
Start
Restart
Stop
Delete
Search (Ctrl+/)
Essentials
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource group
Packt
Status
Running
Location
Brazil South
Subscription name
Visual Studio Premium with MSDN
Subscription ID
4a8ad611-6c01-4f99-ba5e-2cad700afc54
Computer name
packt
Operating system
Windows
Size
Standard D1 v2 (1 core
Public IP address/DNS nam
191.234.186.220/<none
Virtual network/subnet
VNet01/Server

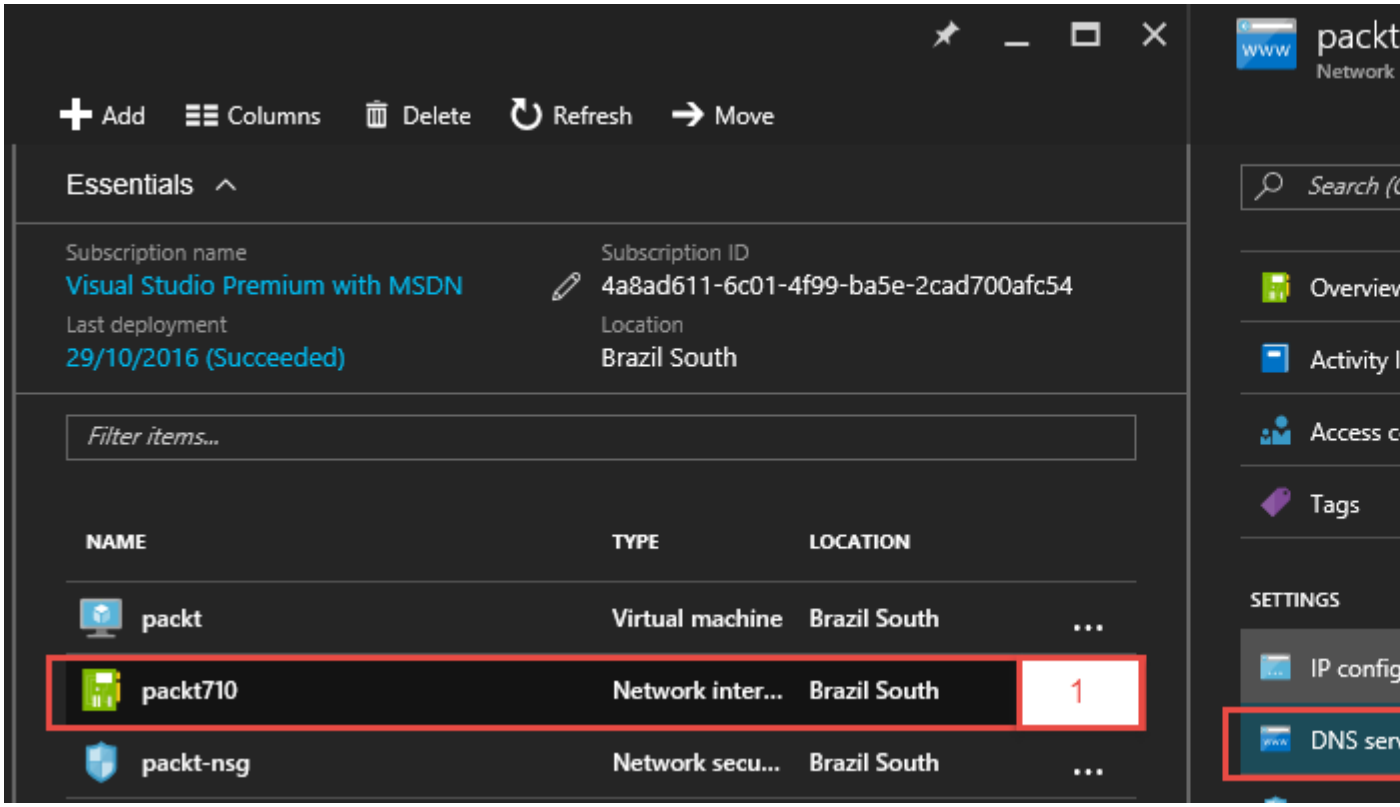

Remote Desktop Connection
The publisher of this remote connection can't be identified. Do you want to connect anyway?
This remote connection could harm your local or remote computer. Do not connect unless you know where this connection came from or have used it before.
Publisher:
Unknown publisher
Type:
Remote Desktop Connection
Remote computer:
[redacted]
Don't ask me again for connections to this computer
Show Details
Connect
Cancel

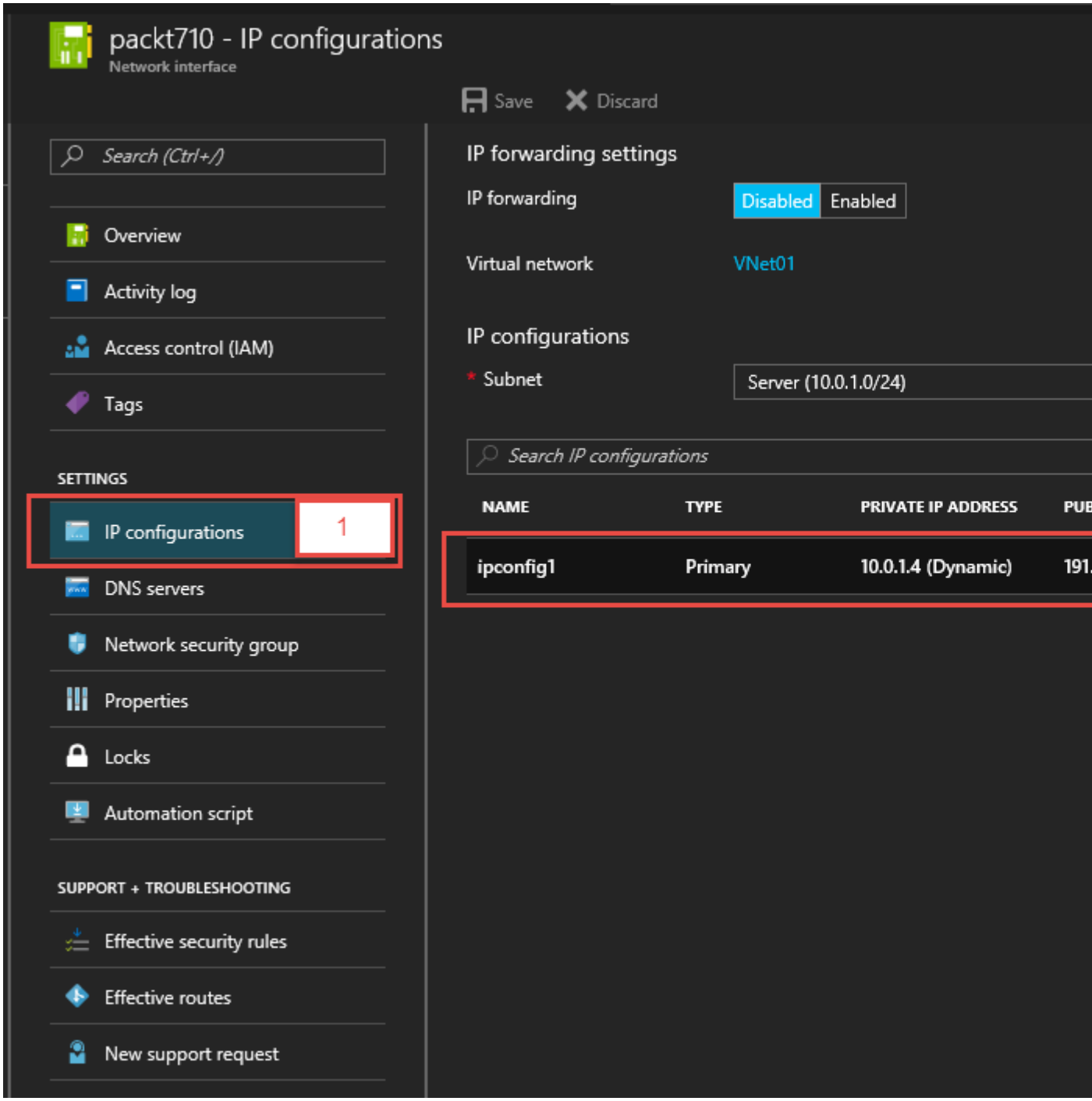

NAME
TYPE
LOCATION
packt
Virtual machine
Brazil South
packt710
Network inter...
Brazil South
packt-nsg
Network secu...
Brazil South
packt-ip
Public IP addr...
Brazil South
VNet01
Virtual network
Brazil South
packtdiag392
Storage accou...
Brazil South
packtdisks948
Storage accou...
Brazil South
packtsrg
Storage accou...
Brazil South

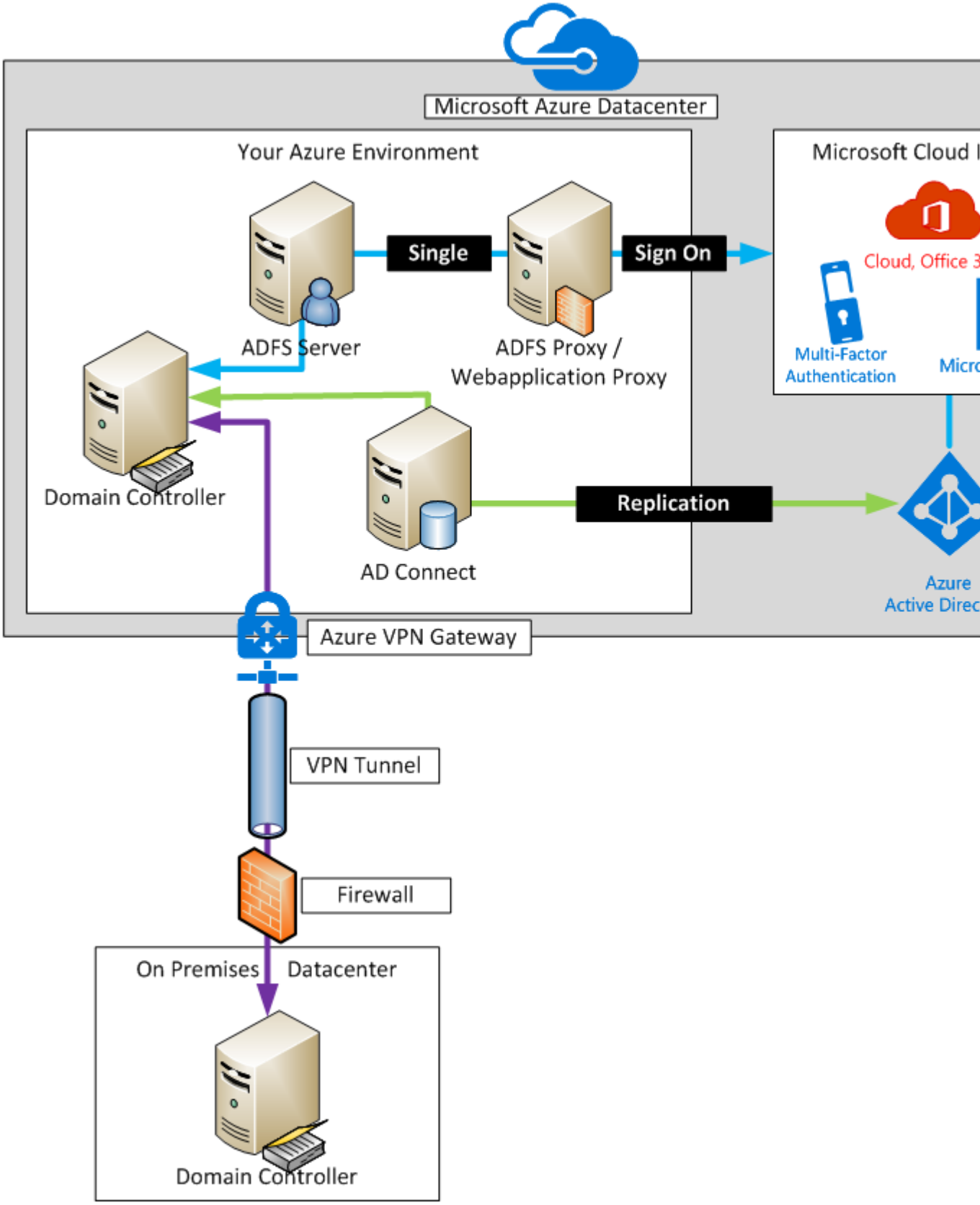

packt710
Network interface
Delete
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Essentials
Resource group
Packt
Location
Brazil South
Subscription name
Visual Studio Premium with MSDN
Subscription ID
4a8ad611-6c01-4f99-ba5e-2cad700afc54
Private IP address
10.0.1.4
Virtual network/subnet
VNet01/Server
Public IP address
191.234.186.220 (packt
Network security group
packt-nsg
Attached to
packt

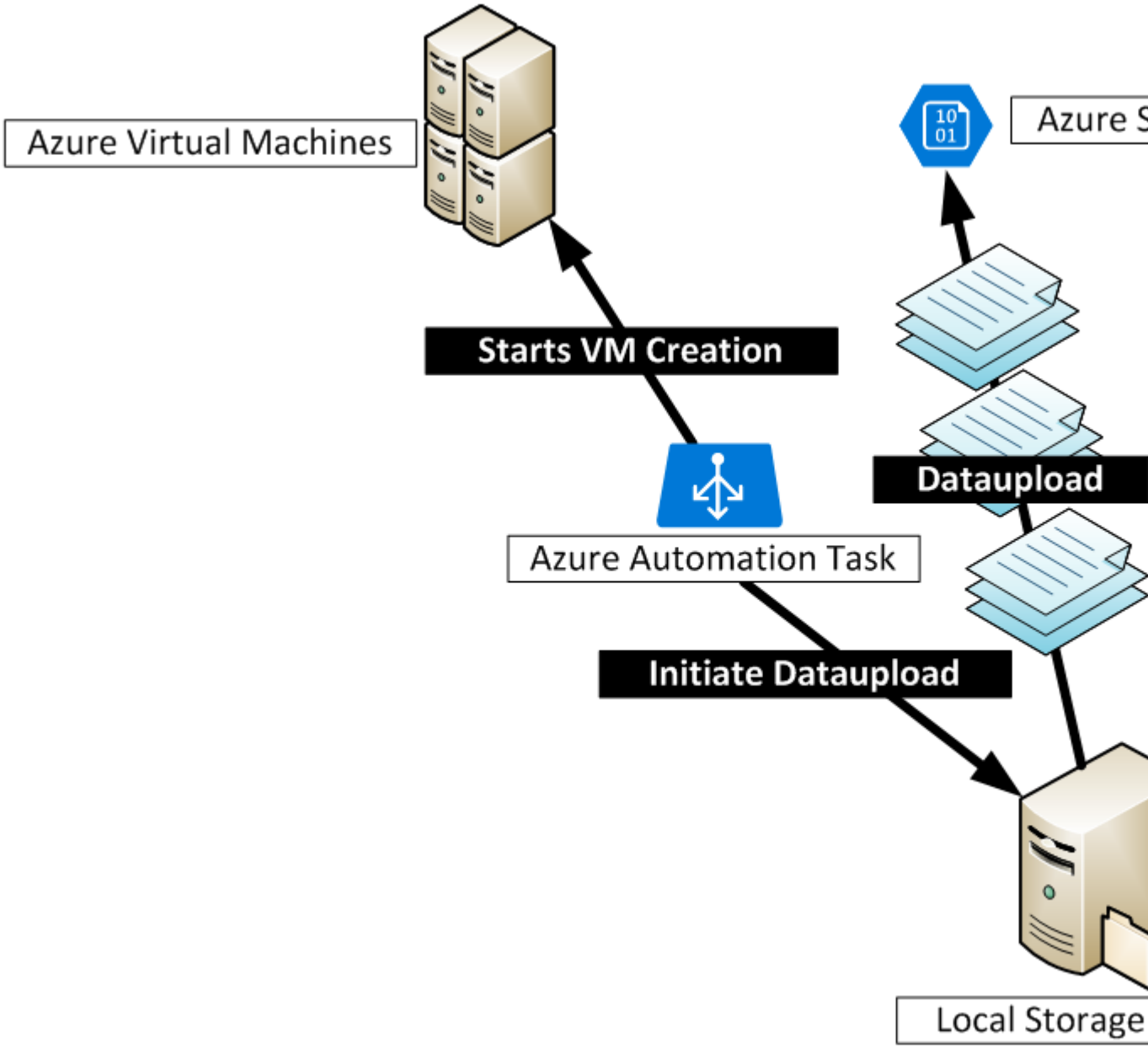

Windows Security
Enter your credentials
These credentials will be used to connect to
[redacted]
[redacted]
Domain: MicrosoftAccount
Remember me
More choices
[redacted]
Use a different account
OK
Cancel

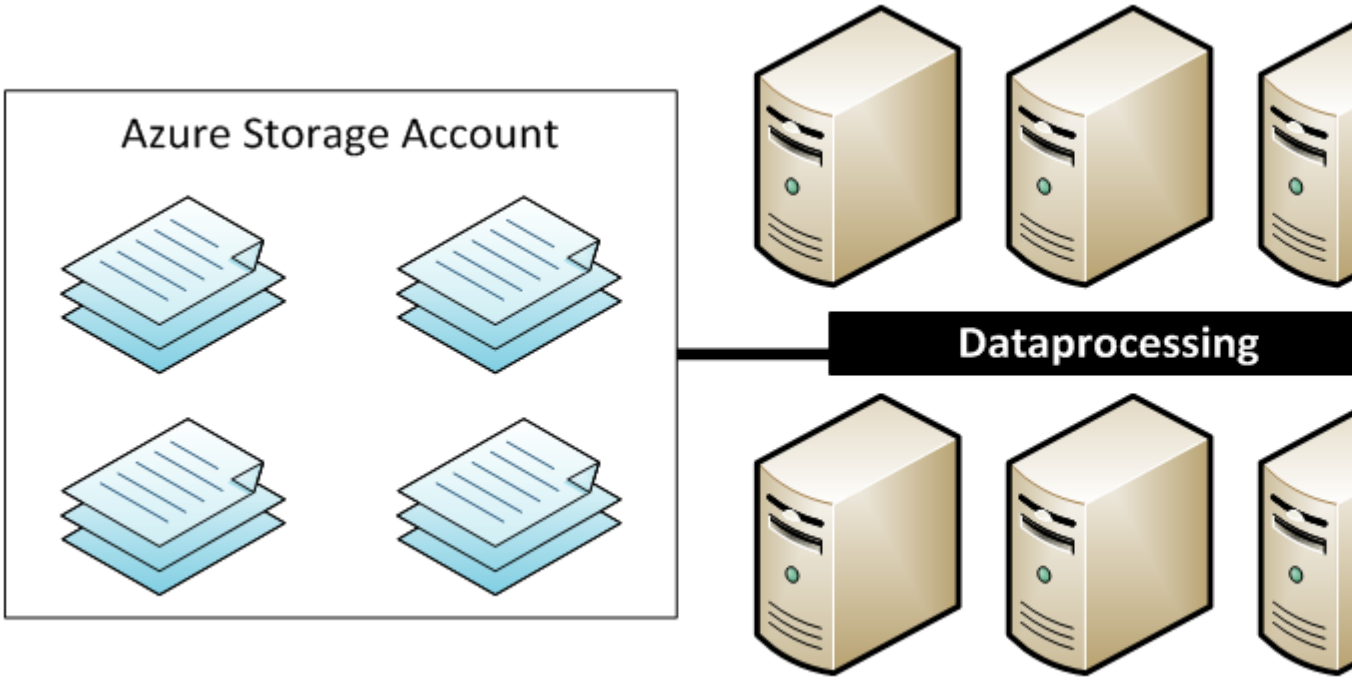

Server Manager
Server Manager ▸ Dashboard
Dashboard
Local Server
All Servers
File and Storage Services
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
5 Connect this server to cloud se
ROLES AND SERVER GROUPS
Roles: 1 | Server groups: 1 | Servers total: 1
File and Storage Services 1
Manageability
Events
Performance
BPA results
Local Server
Manageability
Events
1 Services
Performance
BPA results
10/29/2016 6:19

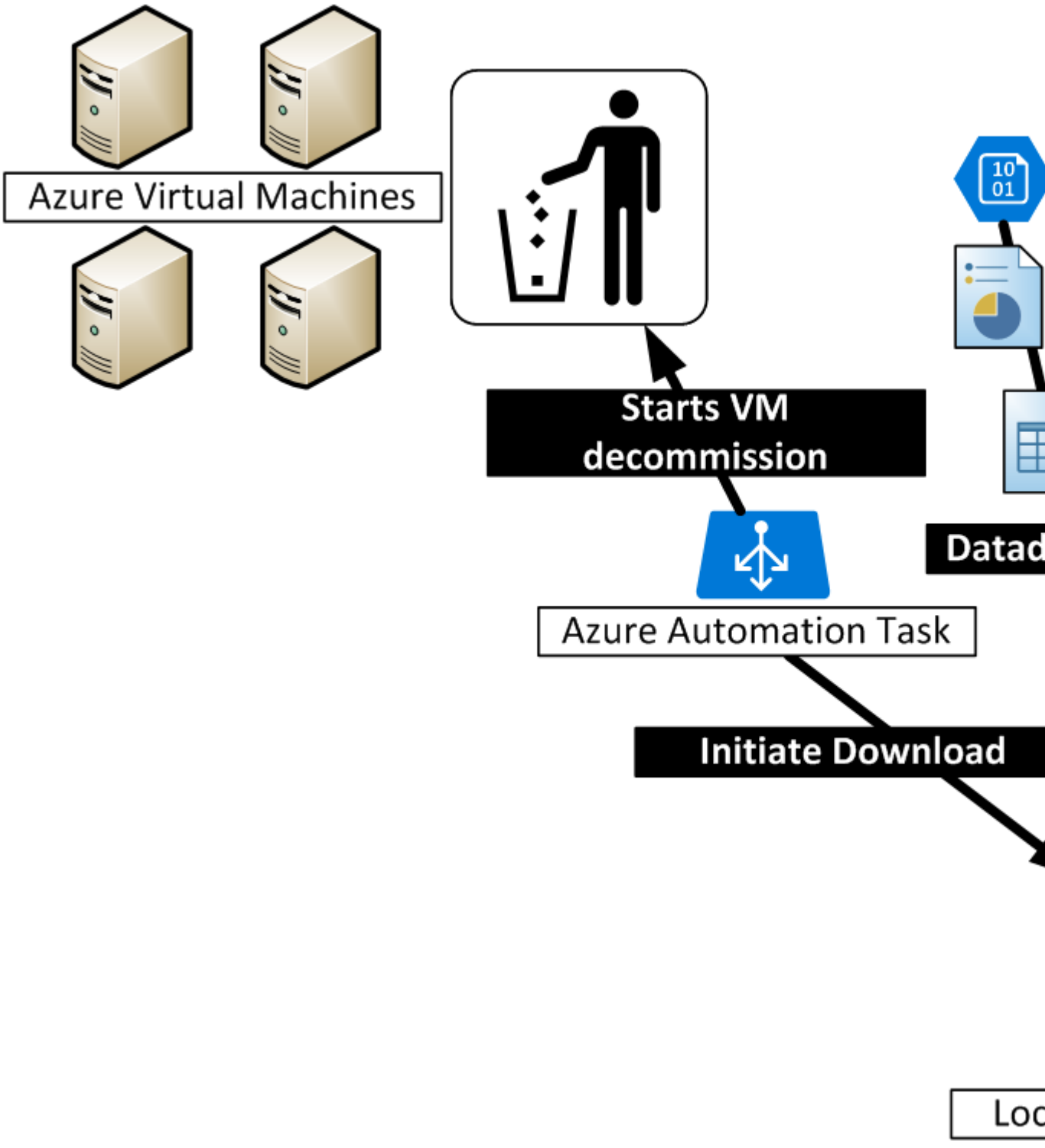

Add
Columns
Delete
Refresh
Move
Essentials
Subscription name
Visual Studio Premium with MSDN
Subscription ID
4a8ad611-6c01-4f99-ba5e-2cad700afc54
Last deployment
29/10/2016 (Succeeded)
Location
Brazil South
Filter items...
NAME
TYPE
LOCATION
packt
Virtual machine
Brazil South
packt710
Network inter...
Brazil South
1
packt-nsg
Network secu...
Brazil South
packt
Network
Search (
Overview
Activity
Access c
Tags
SETTINGS
IP config
DNS ser

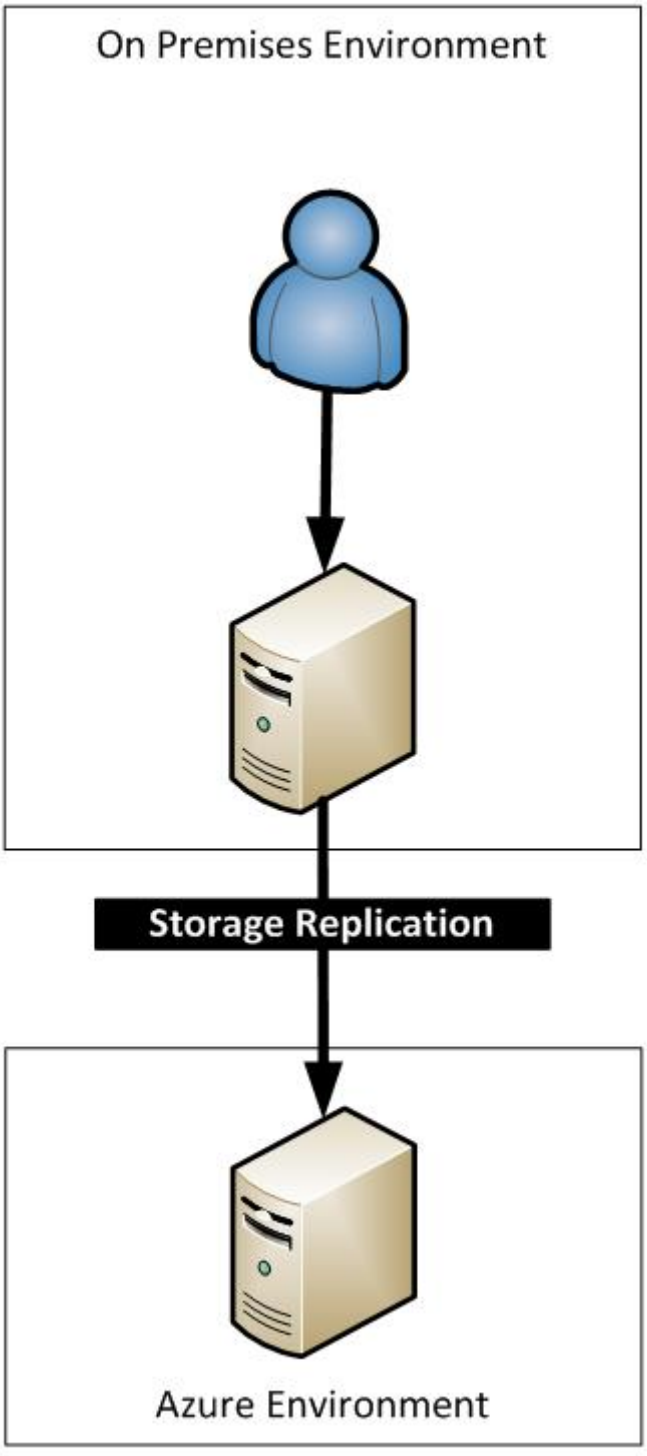

packt710 - IP configurations
Network interface
Save
Discard
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
IP configurations
1
DNS servers
Network security group
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
Effective security rules
Effective routes
New support request
IP forwarding settings
IP forwarding
Disabled
Enabled
Virtual network
VNet01
IP configurations
* Subnet
Server (10.0.1.0/24)
Search IP configurations
NAME
TYPE
PRIVATE IP ADDRESS
ipconfig1
Primary
10.0.1.4 (Dynamic)

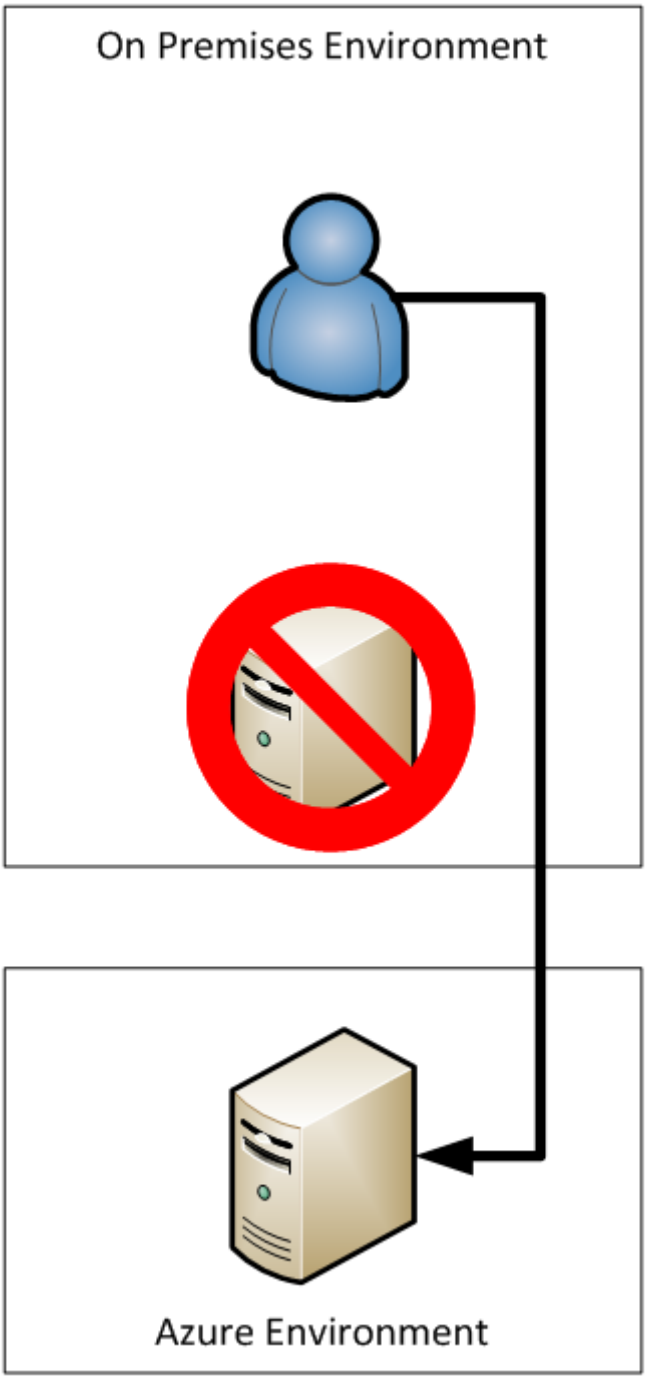

Microsoft Azure Datacenter
Your Azure Environment
Microsoft Cloud
Single
Sign On
Cloud, Office 3
ADFS Server
ADFS Proxy /
Webapplication Proxy
Multi-Factor
Authentication
Micro
Domain Controller
AD Connect
Replication
Azure
Active Direc
Azure VPN Gateway
VPN Tunnel
Firewall
On Premises
Datacenter
Domain Controller


Azure Virtual Machines
Starts VM Creation
Azure Automation Task
Initiate Dataupload
Dataupload
Local Storage

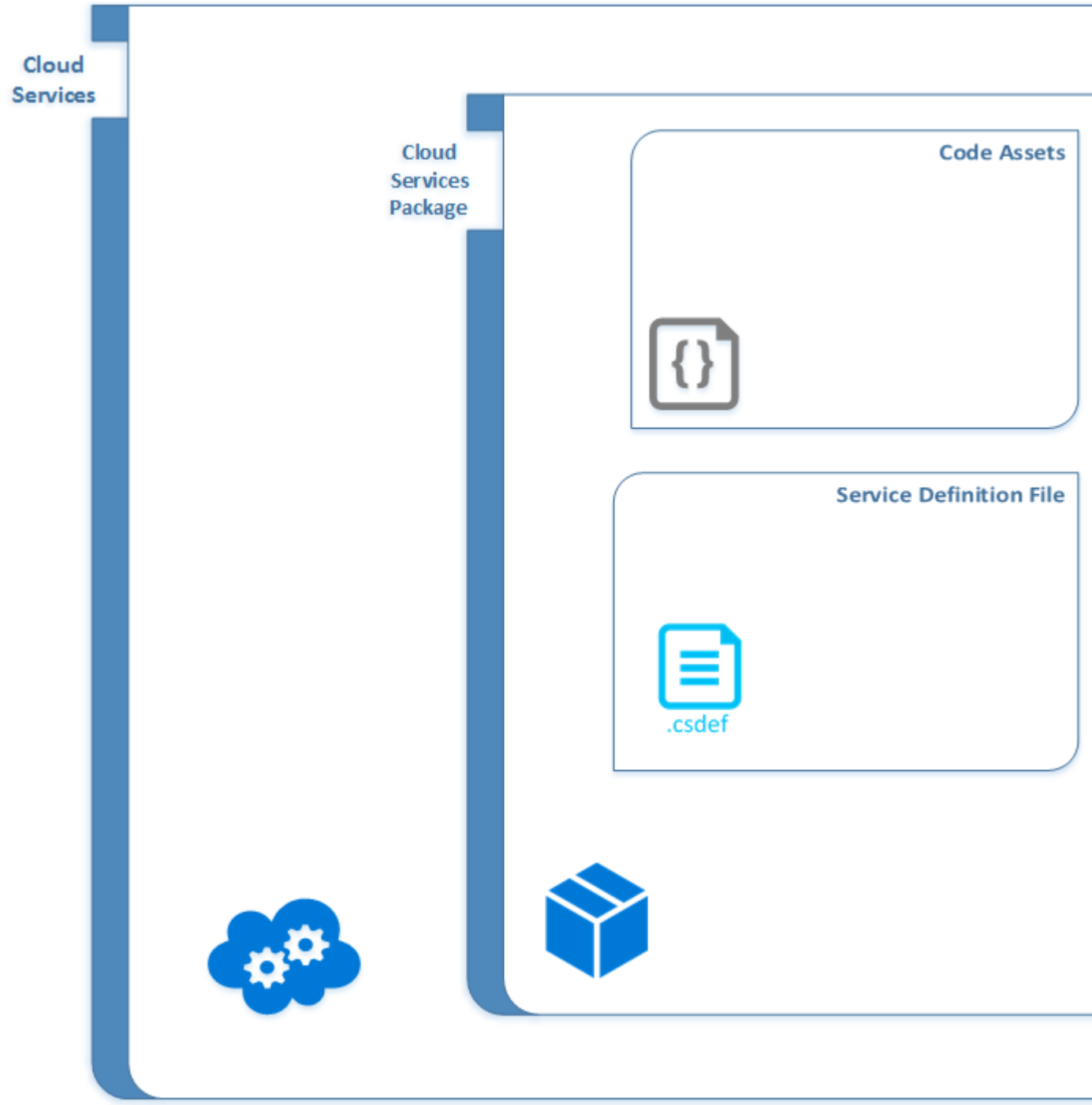

Azure Storage Account
Dataprocessing

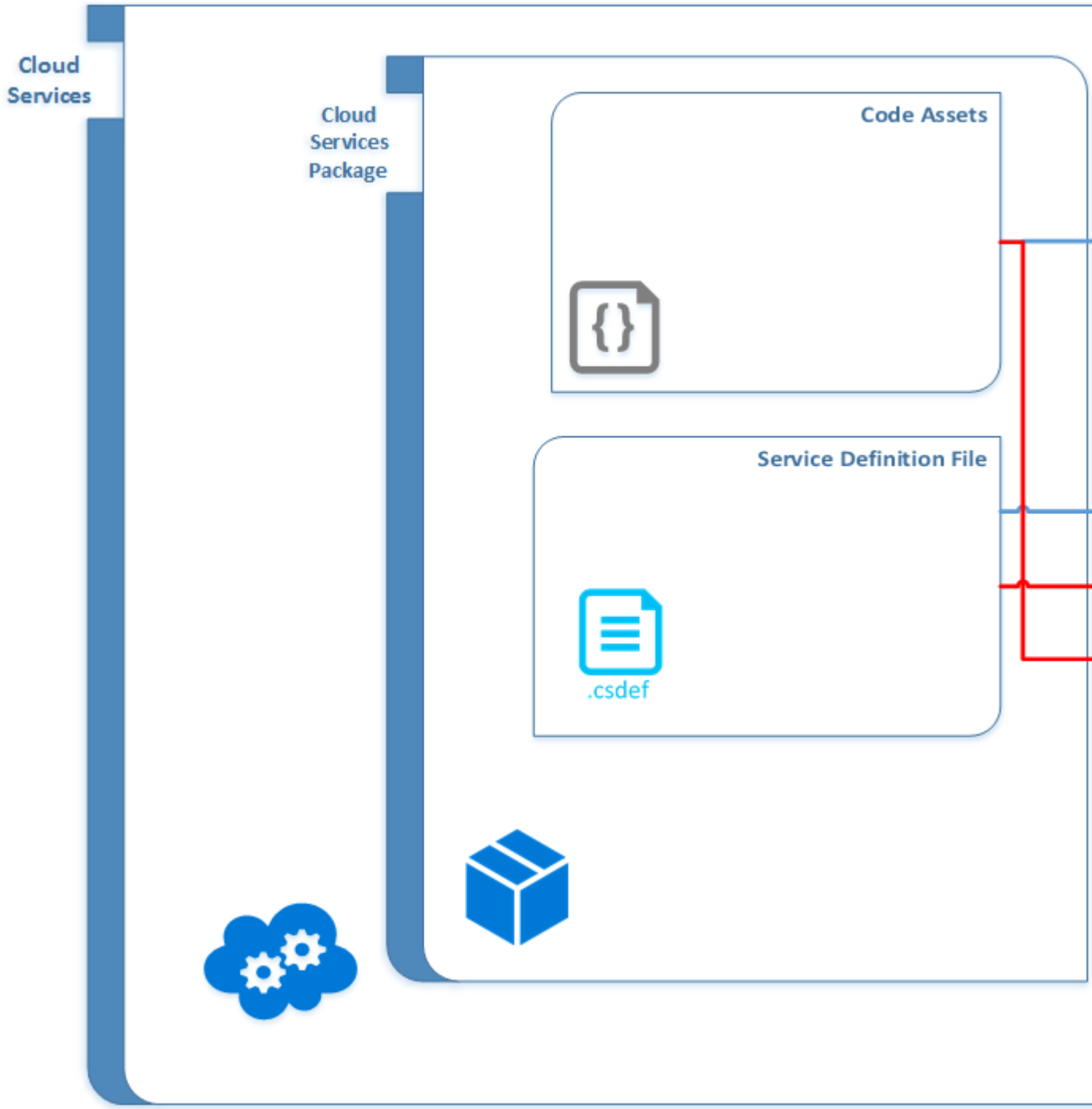

Azure Virtual Machines
Starts VM decommission
Azure Automation Task
Initiate Download
Datad
Loc

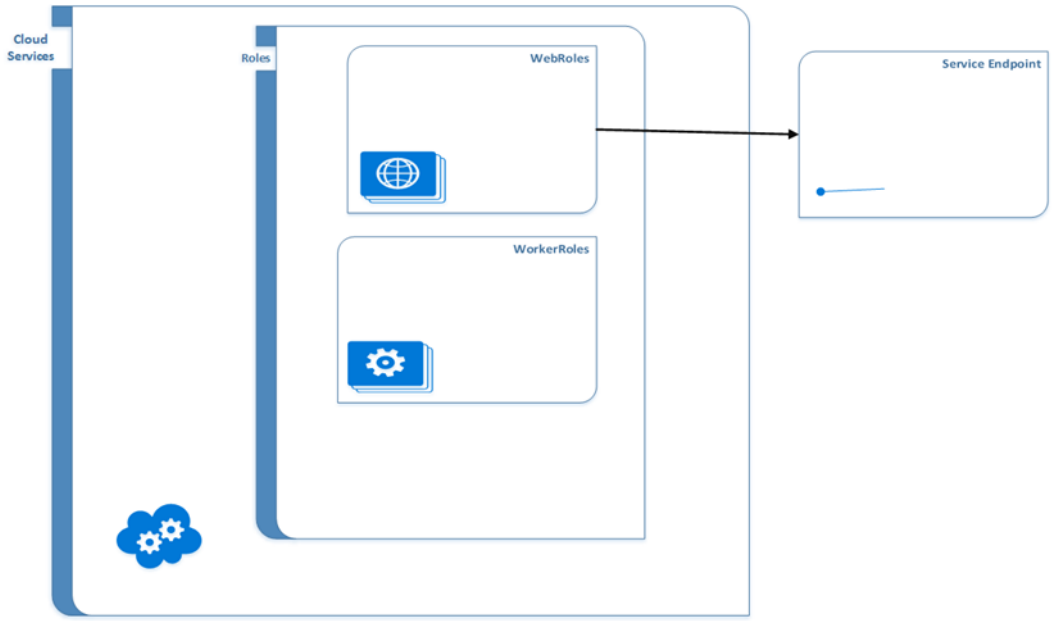

On Premises Environment
Storage Replication
Azure Environment


On Premises Environment
Azure Environment

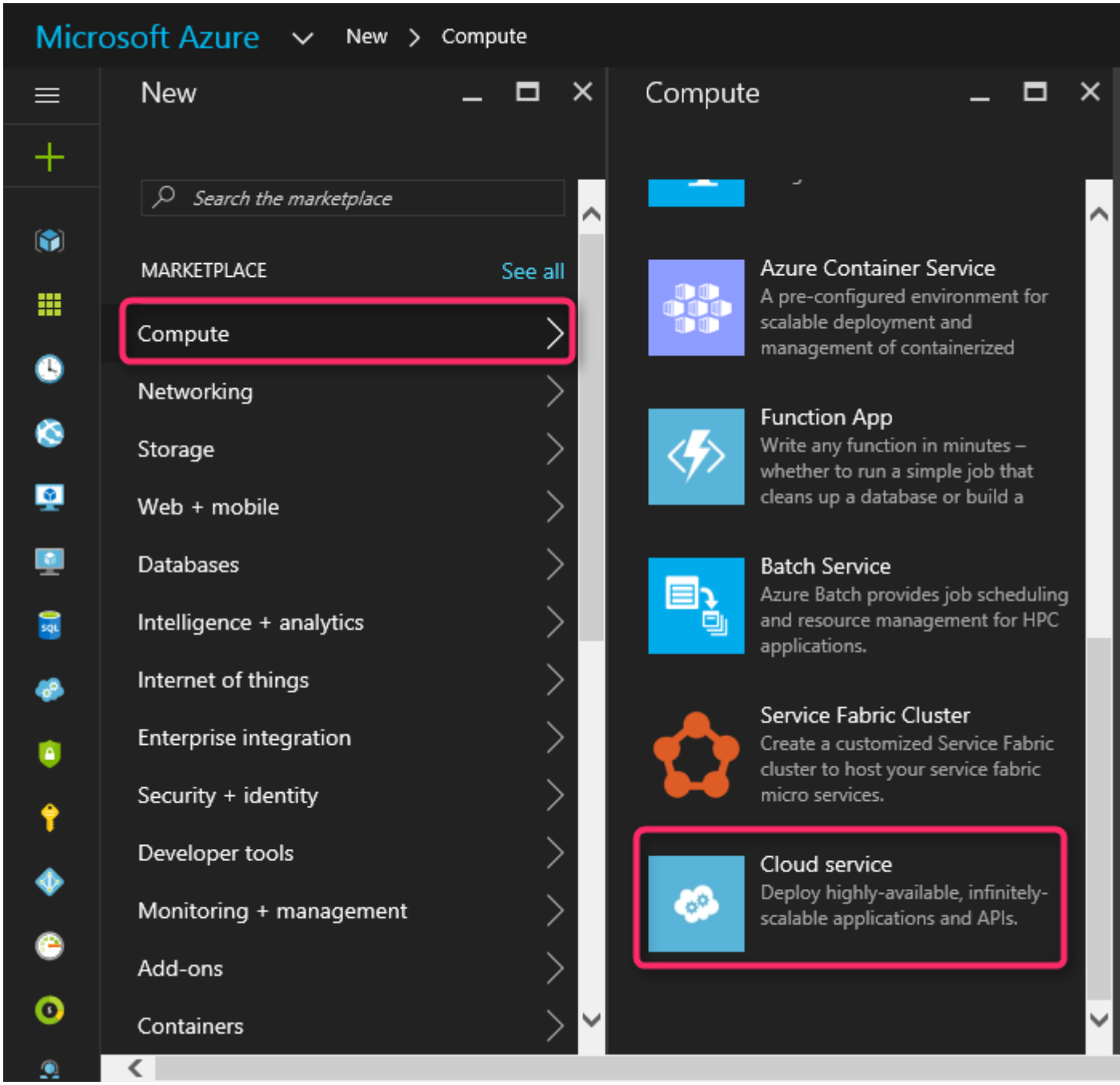
Chapter 7: Implementing Azure Cloud Services

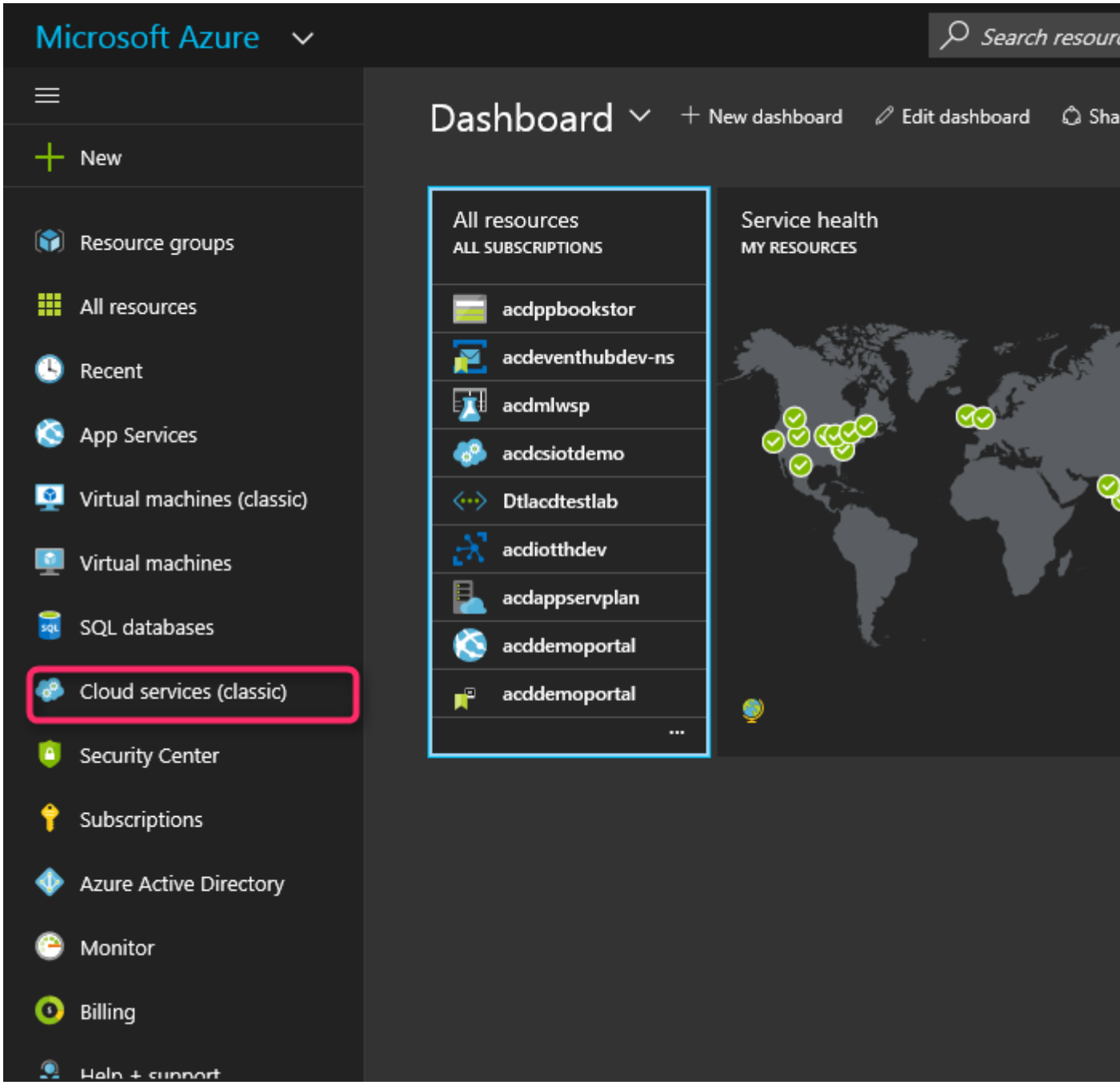



Cloud Services
Cloud Services Package
Code Assets
{}
Service Definition File
.csdef


Cloud Services
Roles
WebRoles
WorkerRoles
Service Endpoint

Microsoft Azure
Search resour
New
Dashboard
New dashboard
Edit dashboard
Sha
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
All resources
ALL SUBSCRIPTIONS
acdppbookstor
acdeventhubdev-ns
acdmlwsp
acdcsiotdemo
Dtlacdtestlab
acdiotthdev
acdappservplan
acddemoportal
acddemoportal
Service health
MY RESOURCES


Microsoft Azure
New
Compute
New
Search the marketplace
MARKETPLACE
See all
Compute
Networking
Storage
Web + mobile
Databases
Intelligence + analytics
Internet of things
Enterprise integration
Security + identity
Developer tools
Monitoring + management
Add-ons
Containers
Compute
Azure Container Service
A pre-configured environment for scalable deployment and management of containerized
Function App
Write any function in minutes – whether to run a simple job that cleans up a database or build a
Batch Service
Azure Batch provides job scheduling and resource management for HPC applications.
Service Fabric Cluster
Create a customized Service Fabric cluster to host your service fabric micro services.
Cloud service
Deploy highly-available, infinitely-scalable applications and APIs.


Microsoft Azure
Search resour
New
Dashboard
New dashboard
Edit dashboard
Sha
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
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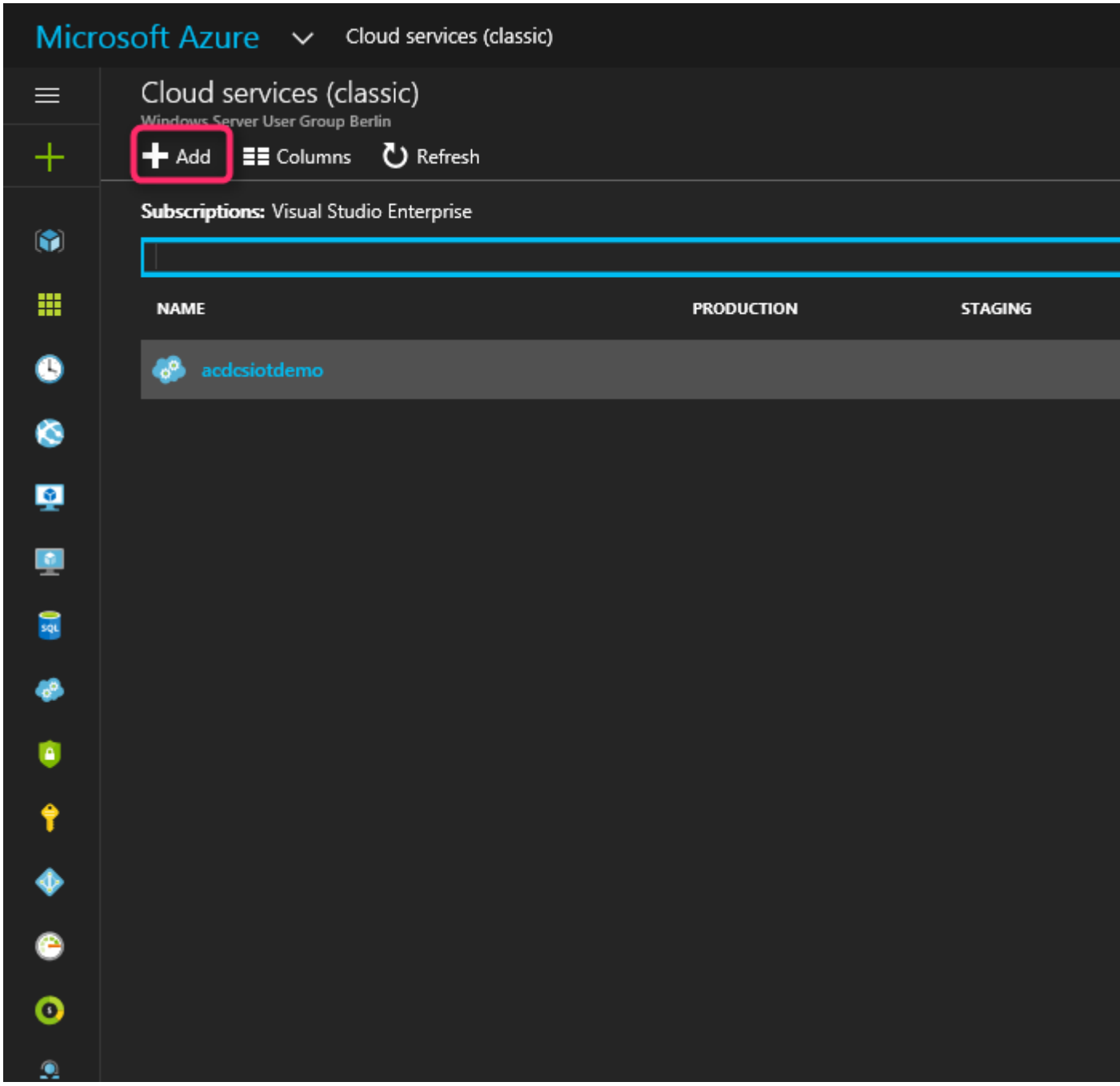
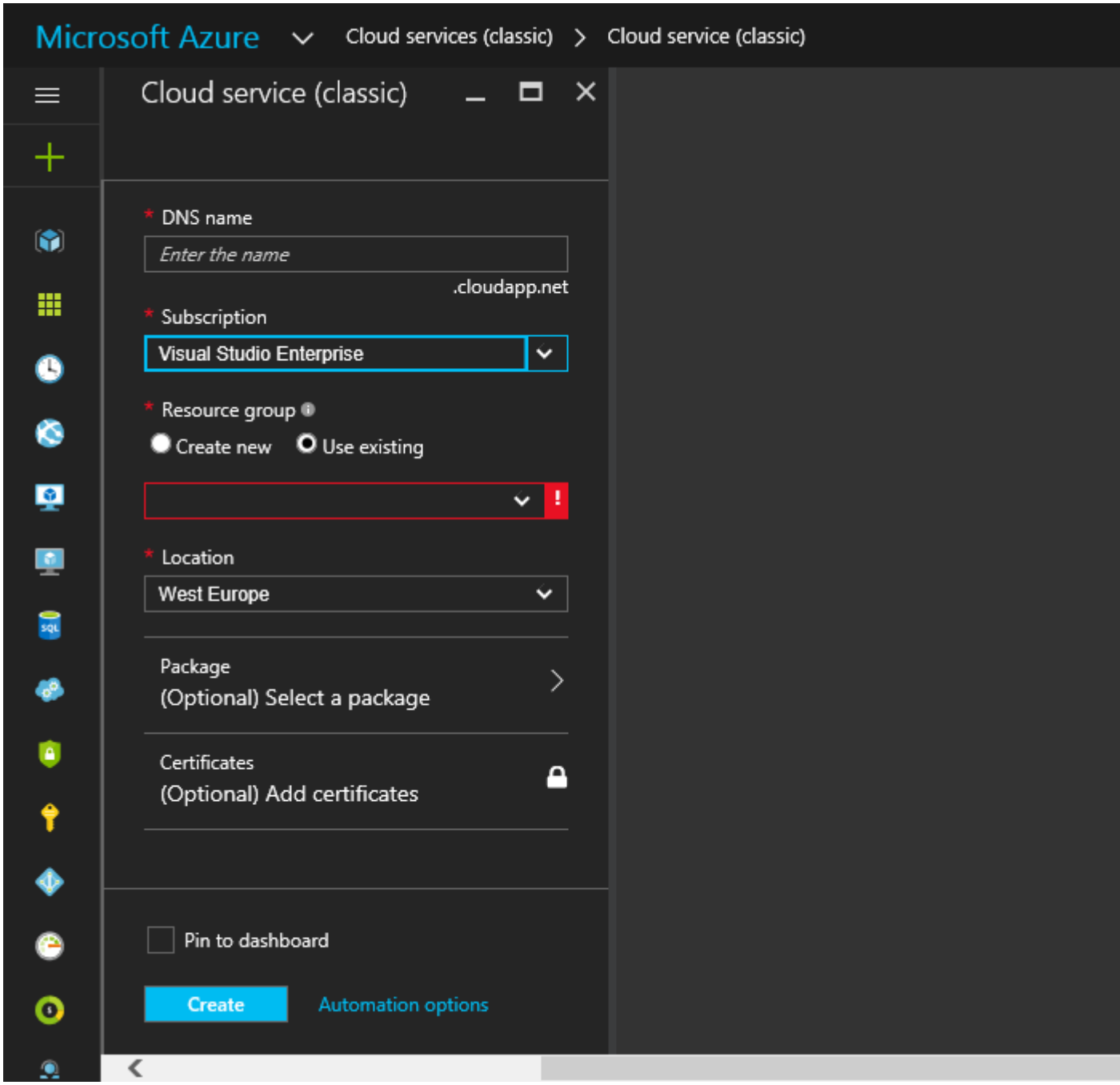
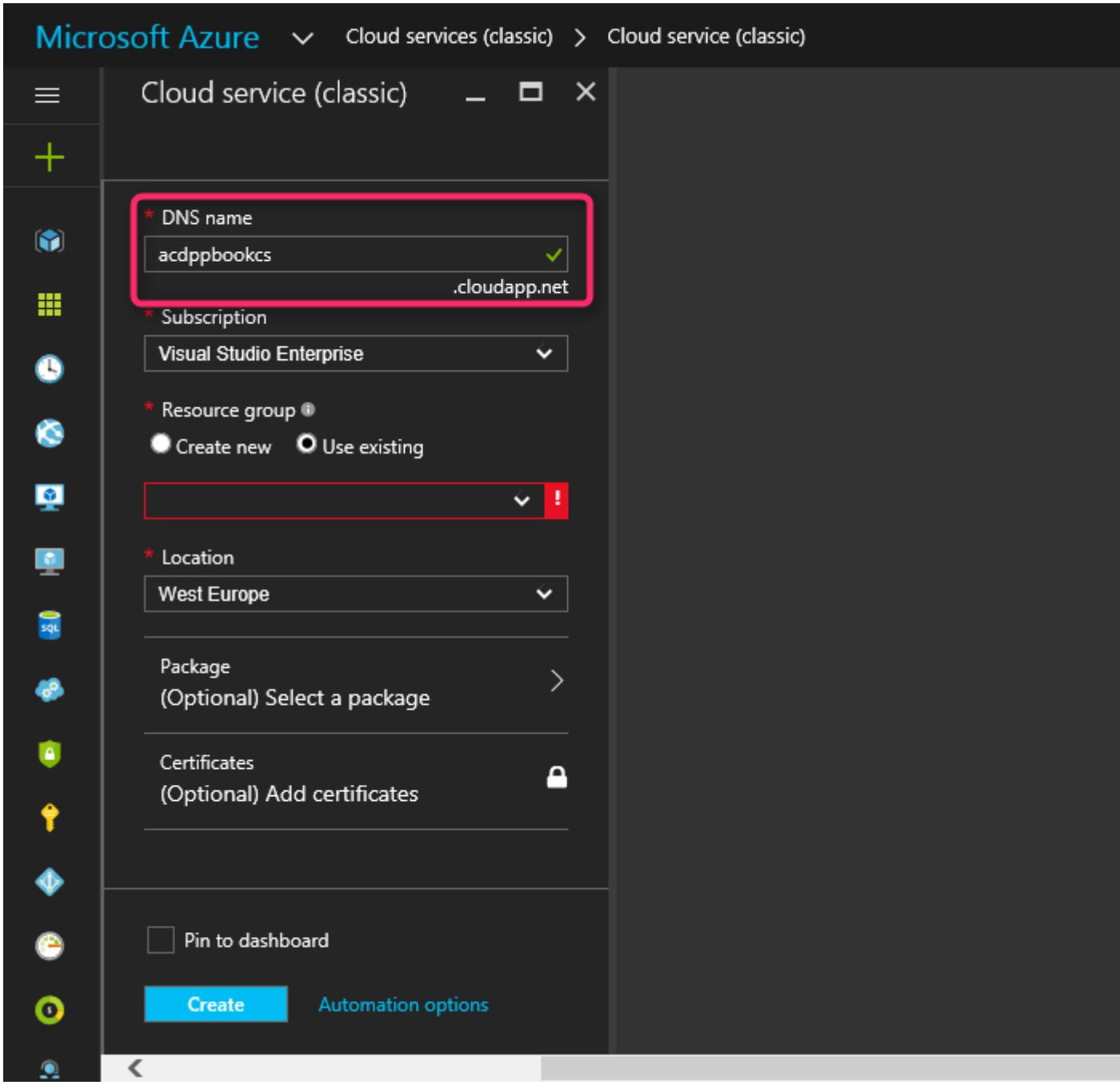
All resources
ALL SUBSCRIPTIONS
acdppbookstor
acdeventhubdev-ns
acdmlwsp
acdcsiotdemo
Dtlacdtestlab
acdiotthdev
acdappservplan
acddemoportal
acddemoportal
Service health
MY RESOURCES


Microsoft Azure
Cloud services (classic)
Cloud services (classic)
Windows Server User Group Berlin
Add
Columns
Refresh
Subscriptions: Visual Studio Enterprise
NAME
PRODUCTION
STAGING
acdcsiotdemo


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
Enter the name
.cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
* Location
West Europe
Package
(Optional) Select a package
Certificates
(Optional) Add certificates
Pin to dashboard
Create
Automation options


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
acdppbookcs
.cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
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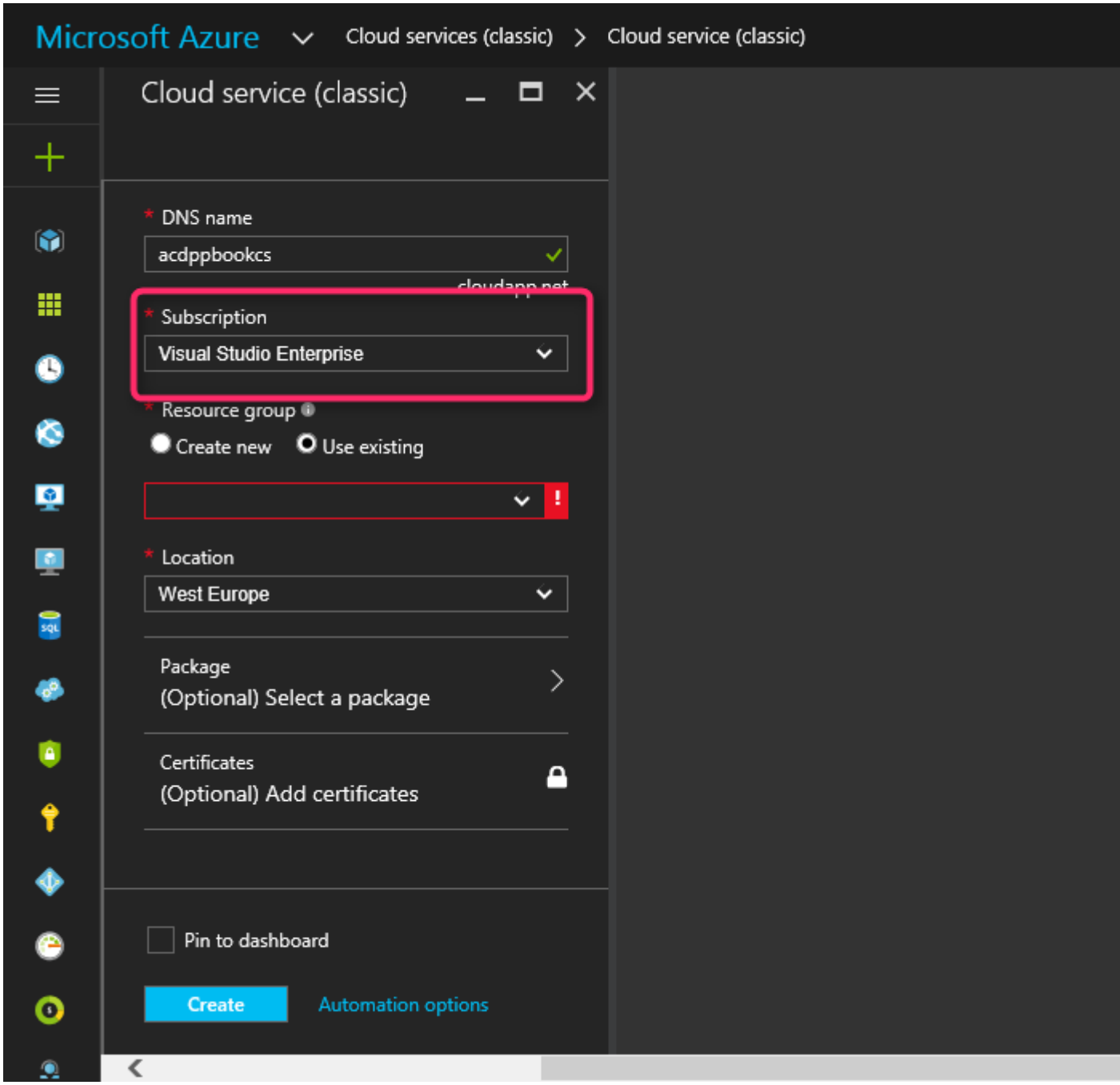
West Europe
Package
(Optional) Select a package
Certificates
(Optional) Add certificates
Pin to dashboard
Create
Automation options


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
acdppbookcs
cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
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West Europe
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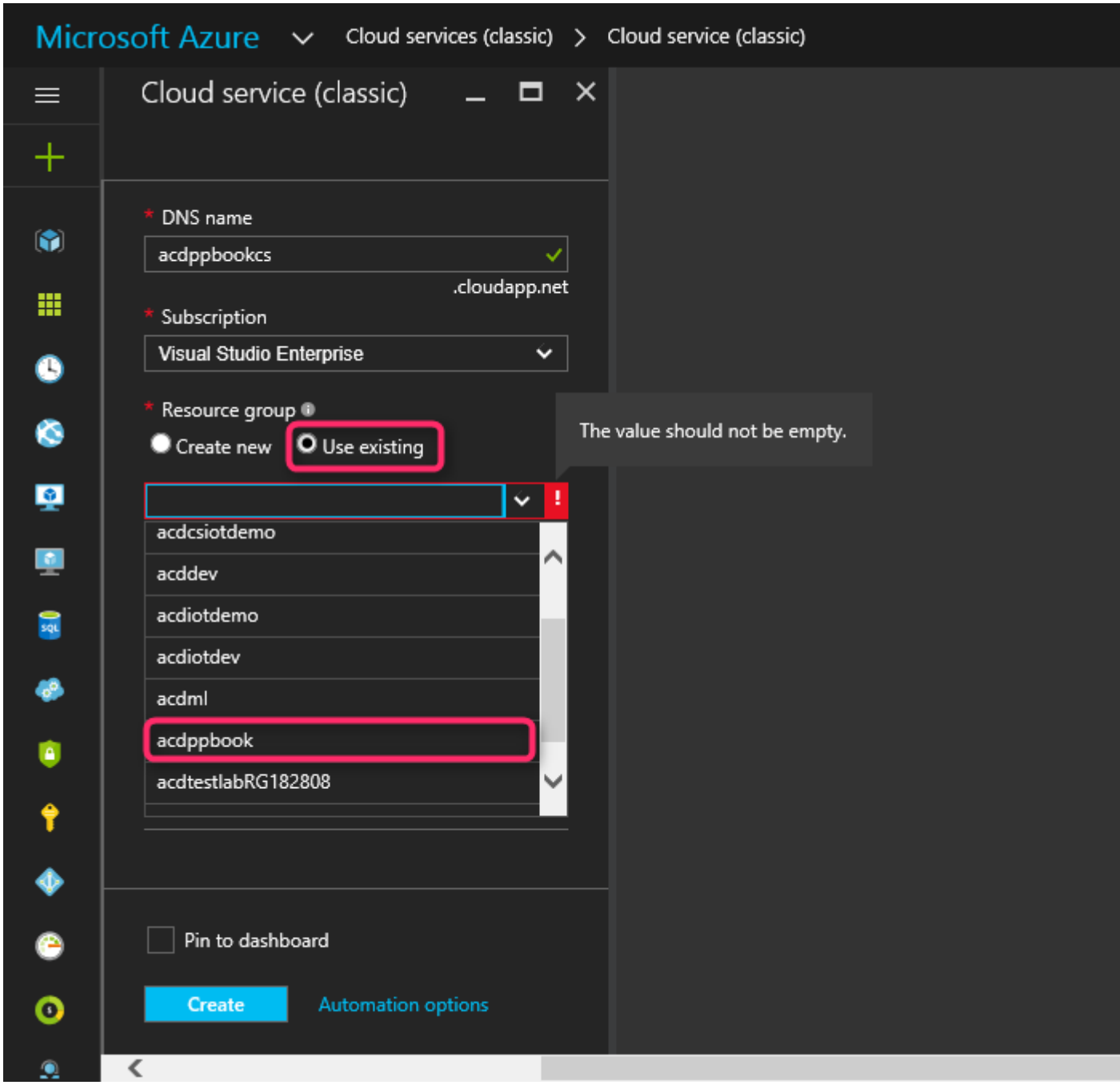
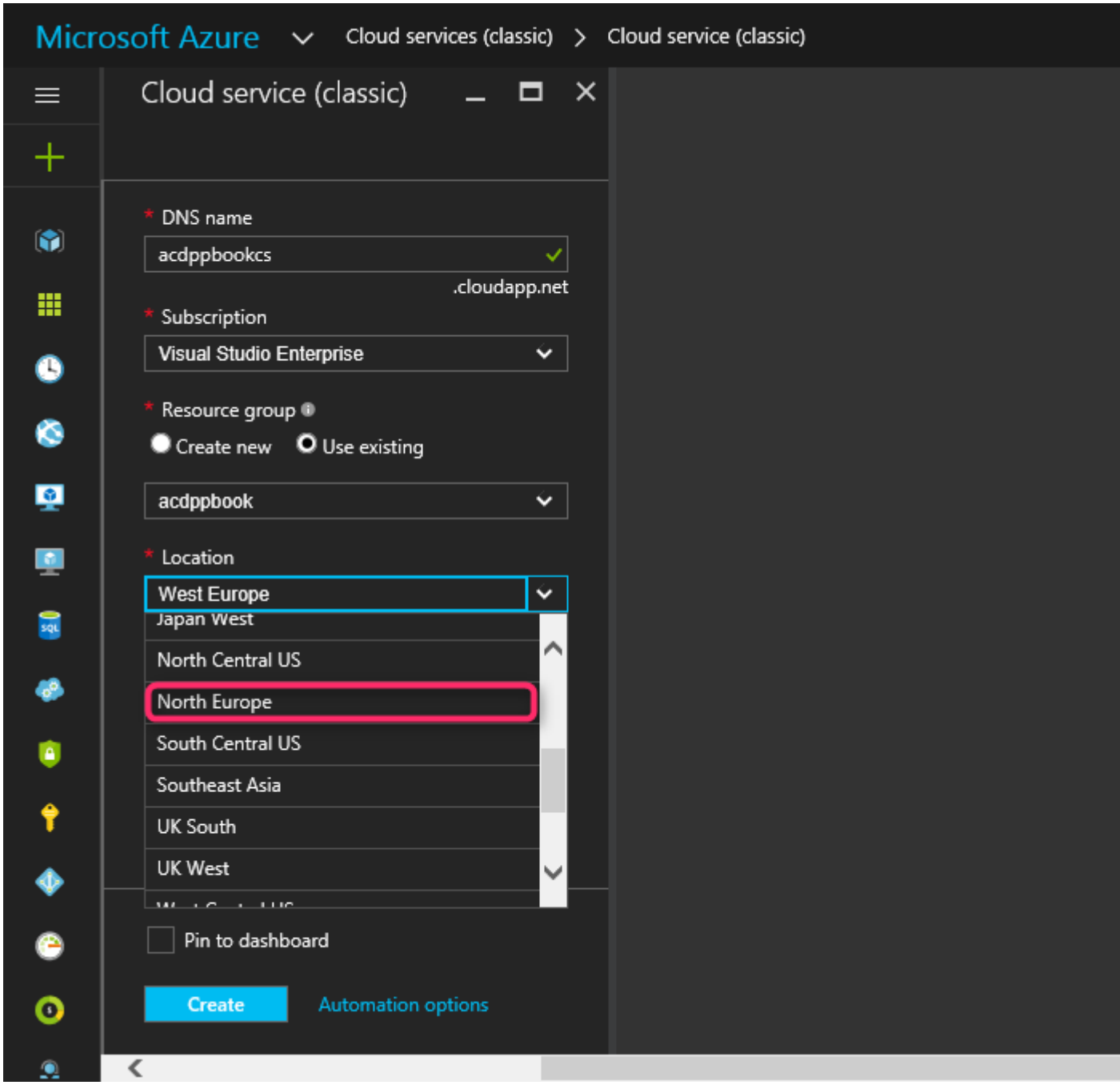
Automation options


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
acdppbookcs
.cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
The value should not be empty.
acdcsiotdemo
acddev
acdiotdemo
acdiotdev
acdml
acdppbook
acdtestlabRG182808
Pin to dashboard
Create
Automation options


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
acdppbookcs
.cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
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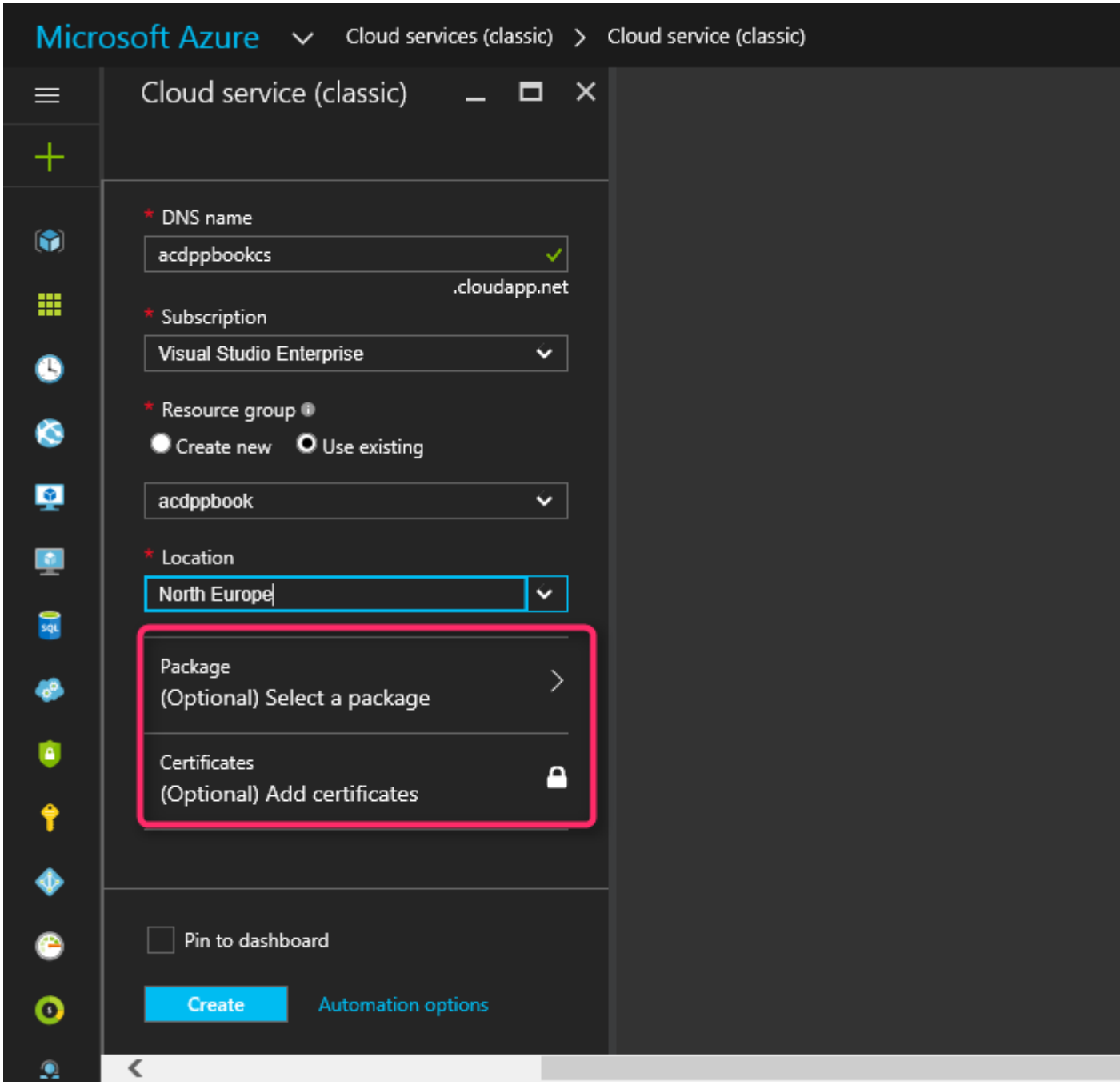
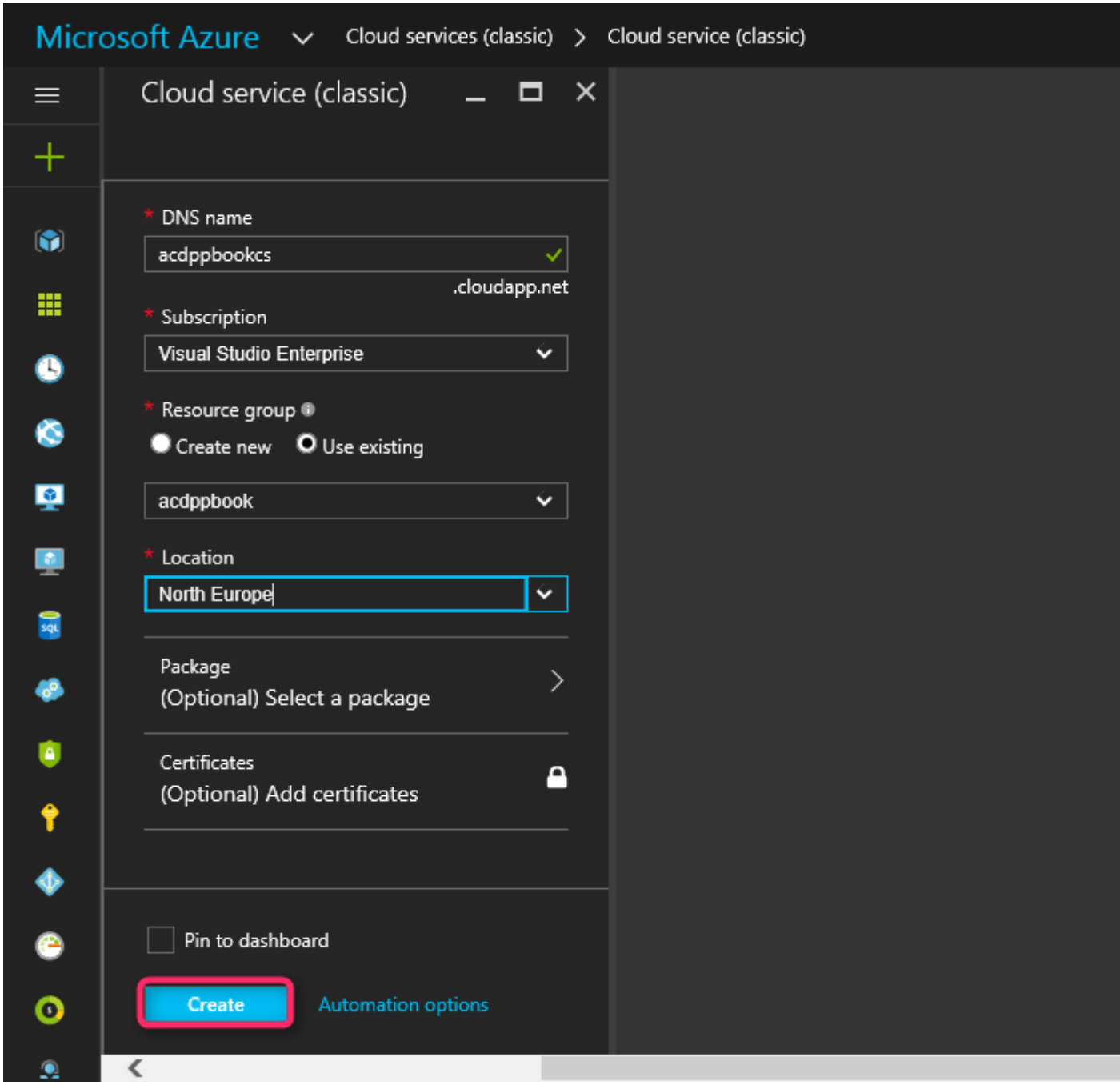
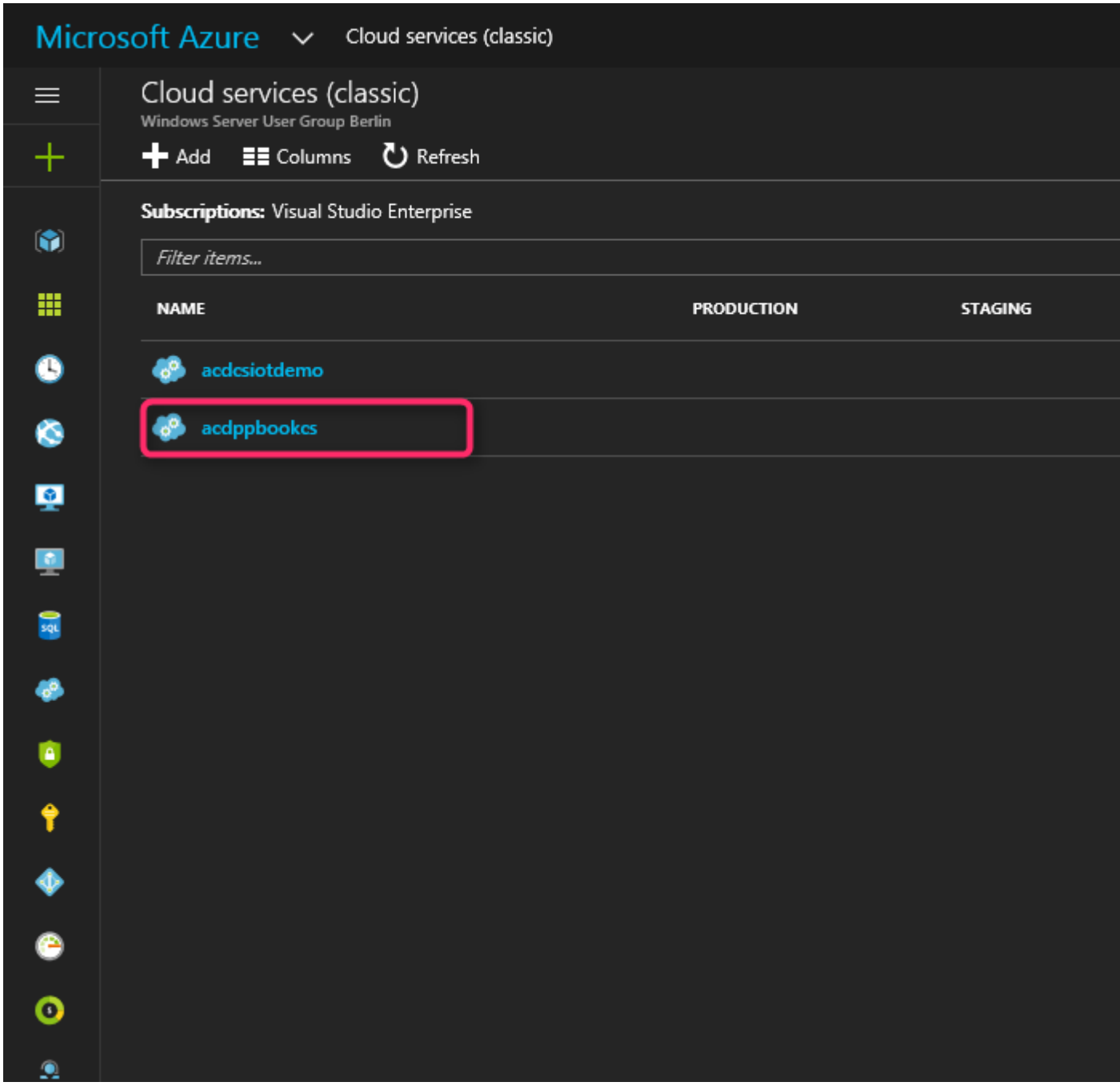
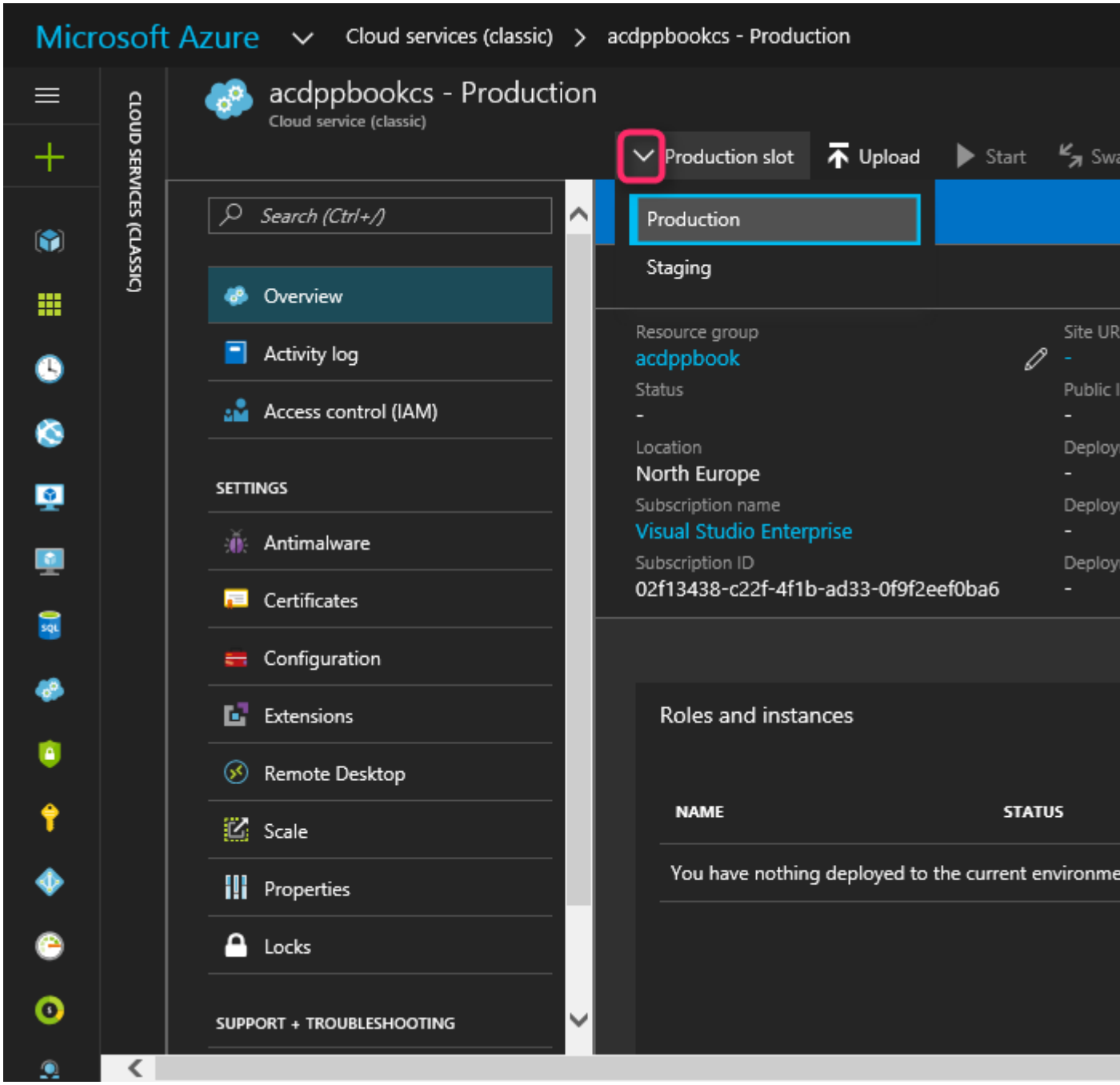
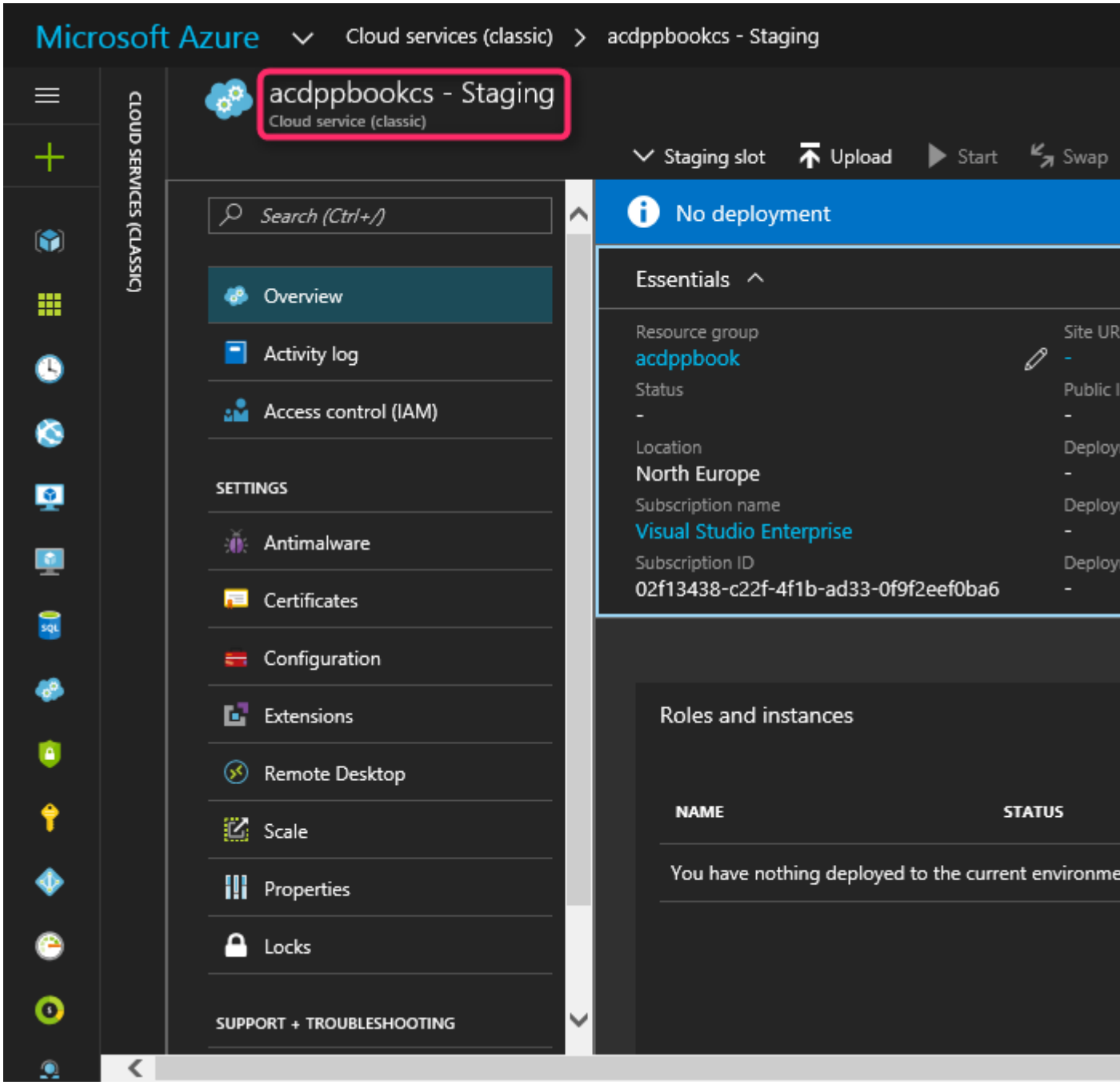
* Location
West Europe
Japan West
North Central US
North Europe
South Central US
Southeast Asia
UK South
UK West
Pin to dashboard
Create
Automation options


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
acdppbookcs
.cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
acdppbook
* Location
North Europe
Package
(Optional) Select a package
Certificates
(Optional) Add certificates
Pin to dashboard
Create
Automation options


Microsoft Azure
Cloud services (classic)
Cloud service (classic)
Cloud service (classic)
* DNS name
acdppbookcs
.cloudapp.net
* Subscription
Visual Studio Enterprise
* Resource group
Create new
Use existing
acdppbook
* Location
North Europe
Package
(Optional) Select a package
Certificates
(Optional) Add certificates
Pin to dashboard
Create
Automation options


Microsoft Azure
Cloud services (classic)
Cloud services (classic)
Windows Server User Group Berlin
Add
Columns
Refresh
Subscriptions: Visual Studio Enterprise
Filter items...
NAME
PRODUCTION
STAGING
acdcsiotdemo
acdppbookcs


Microsoft Azure
Cloud services (classic)
acdppbookcs - Production
CLOUD SERVICES (CLASSIC)
acdppbookcs - Production
Cloud service (classic)
Production slot
Upload
Start
Search (Ctrl+/)
Production
Staging
Overview
Activity log
Access control (IAM)
SETTINGS
Antimalware
Certificates
Configuration
Extensions
Remote Desktop
Scale
Properties
Locks
SUPPORT + TROUBLESHOOTING
Resource group
acdppbook
Status
-
Location
North Europe
Subscription name
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
Roles and instances
NAME
STATUS
You have nothing deployed to the current environme


Microsoft Azure
Cloud services (classic)
acdppbookcs - Staging
CLOUD SERVICES (CLASSIC)
acdppbookcs - Staging
Cloud service (classic)
Staging slot
Upload
Start
Swap
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
SETTINGS
Antimalware
Certificates
Configuration
Extensions
Remote Desktop
Scale
Properties
Locks
SUPPORT + TROUBLESHOOTING
No deployment
Essentials
Resource group
acdppbook
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Location
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Subscription name
Visual Studio Enterprise
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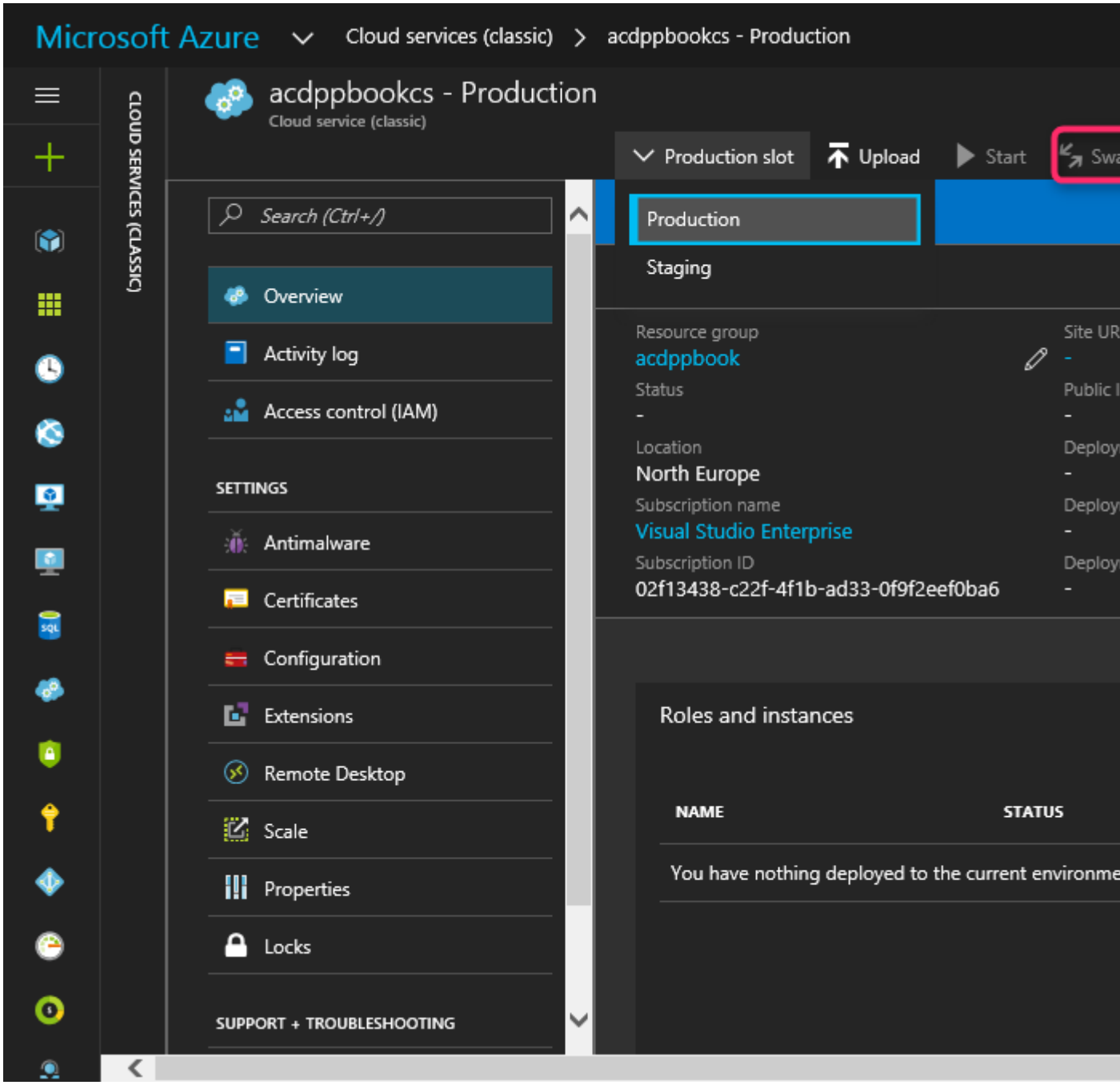
Deploy
Roles and instances
NAME
STATUS
You have nothing deployed to the current environme


Microsoft Azure
Cloud services (classic)
acdppbookcs - Production
CLOUD SERVICES (CLASSIC)
acdppbookcs - Production
Cloud service (classic)
Production slot
Upload
Start
Search (Ctrl+/)
Production
Staging
Overview
Activity log
Access control (IAM)
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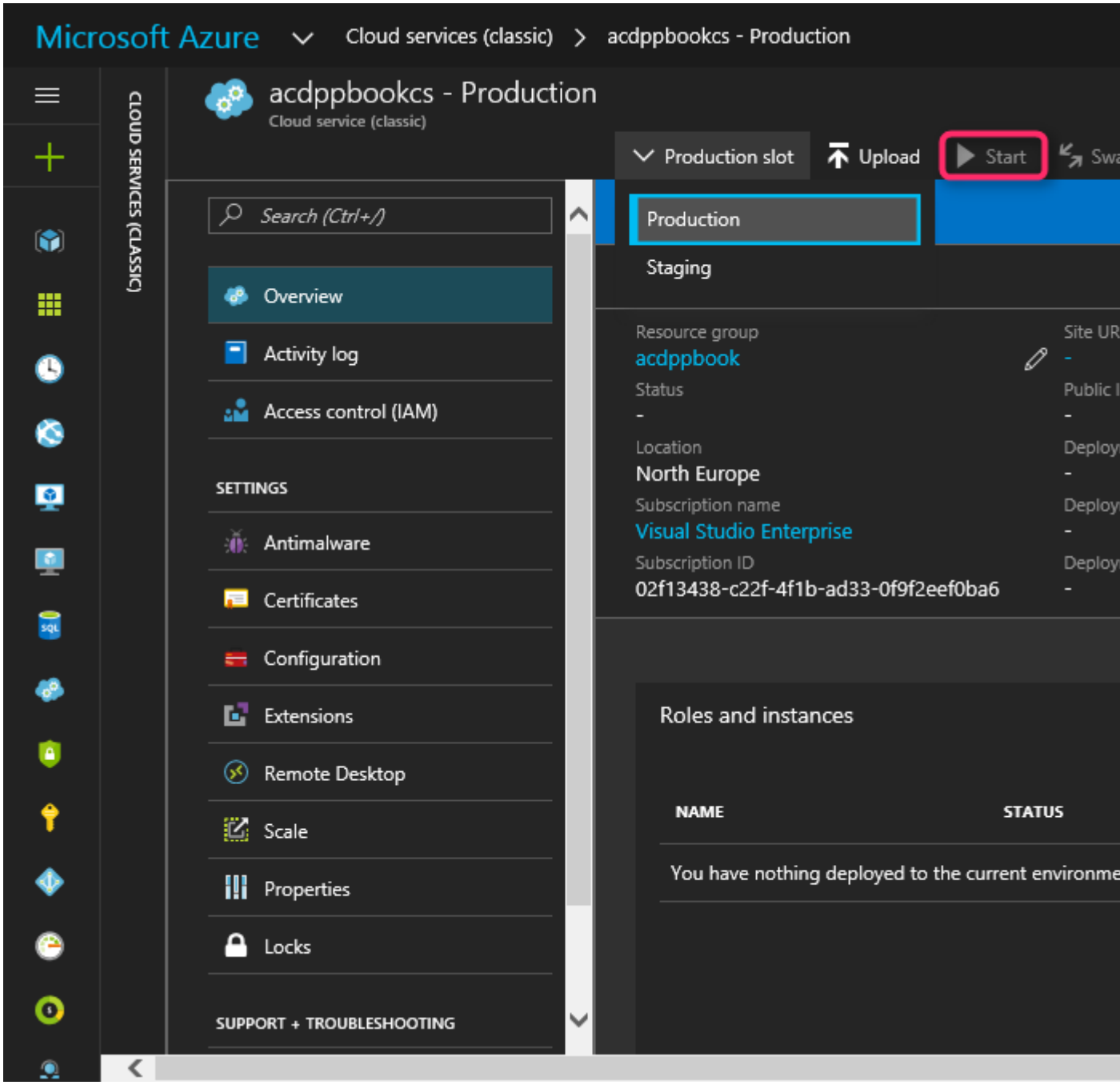
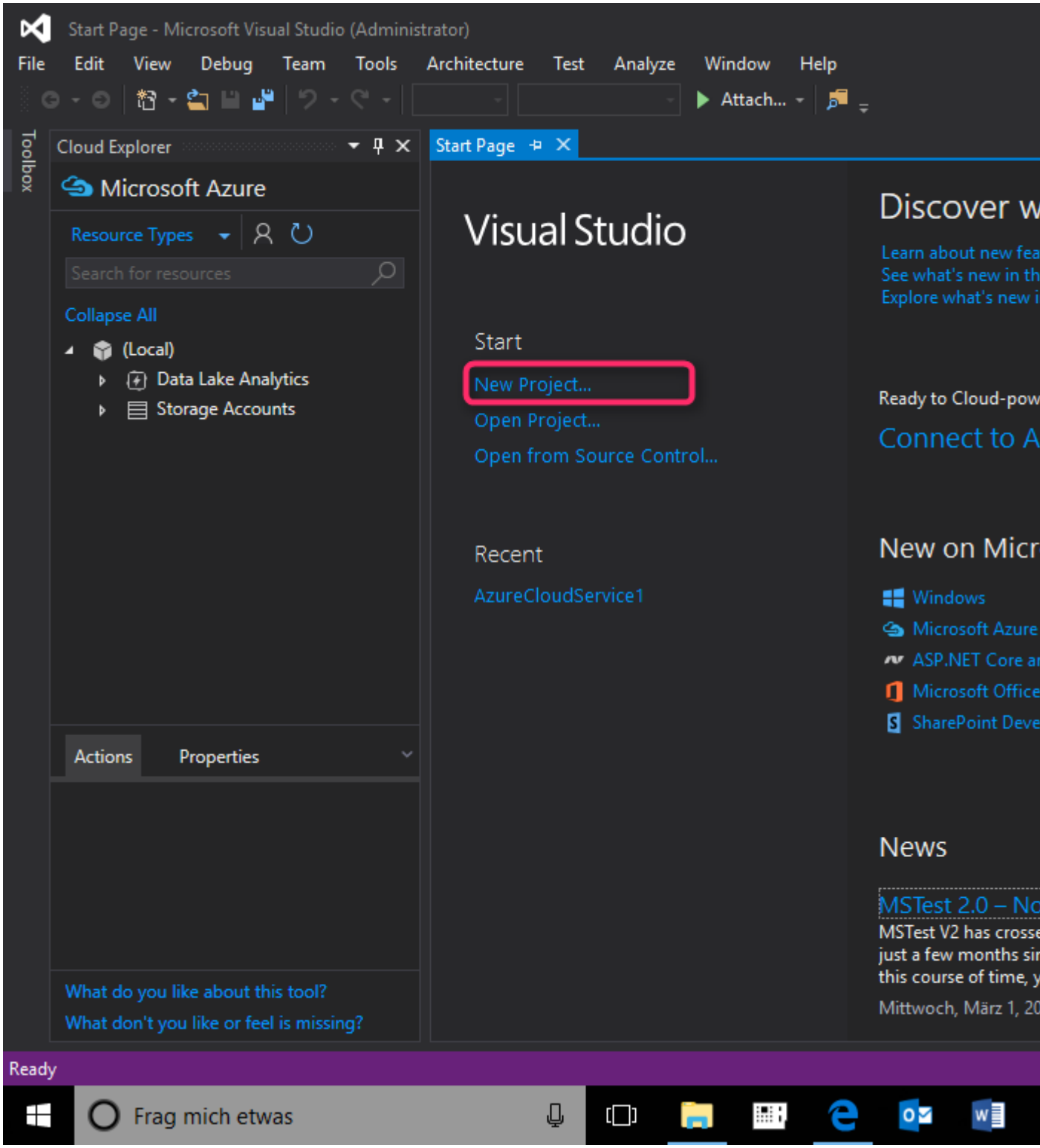
Locks
SUPPORT + TROUBLESHOOTING
Resource group
acdppbook
Status
-
Location
North Europe
Subscription name
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
Roles and instances
NAME
STATUS
You have nothing deployed to the current environme


Microsoft Azure
Cloud services (classic)
acdppbookcs - Production
CLOUD SERVICES (CLASSIC)
acdppbookcs - Production
Cloud service (classic)
Production slot
Upload
Start
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
SETTINGS
Antimalware
Certificates
Configuration
Extensions
Remote Desktop
Scale
Properties
Locks
SUPPORT + TROUBLESHOOTING
Production
Staging
Resource group
acdppbook
Status
-
Location
North Europe
Subscription name
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
Roles and instances
NAME
STATUS
You have nothing deployed to the current environme


Start Page - Microsoft Visual Studio (Administrator)
File Edit View Debug Team Tools Architecture Test Analyze Window Help
Attach...
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
Start Page
Visual Studio
Start
New Project...
Open Project...
Open from Source Control...
Recent
AzureCloudService1
Discover w
Learn about new fea
See what's new in th
Explore what's new i
Ready to Cloud-pow
Connect to A
New on Micr
Windows
Microsoft Azure
ASP.NET Core a
Microsoft Office
SharePoint Deve
News
MSTest 2.0 – No
MSTest V2 has crosse
just a few months sir
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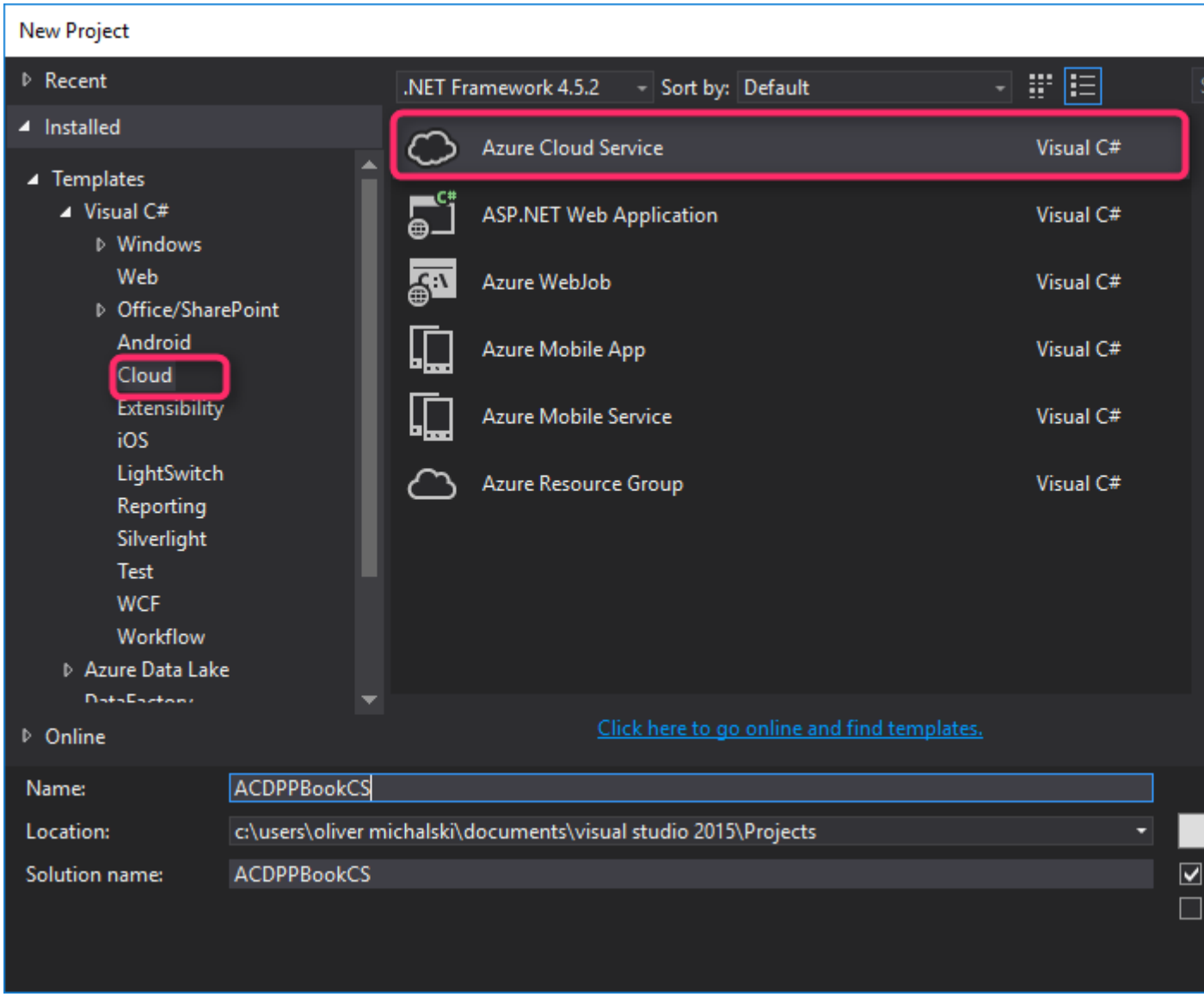
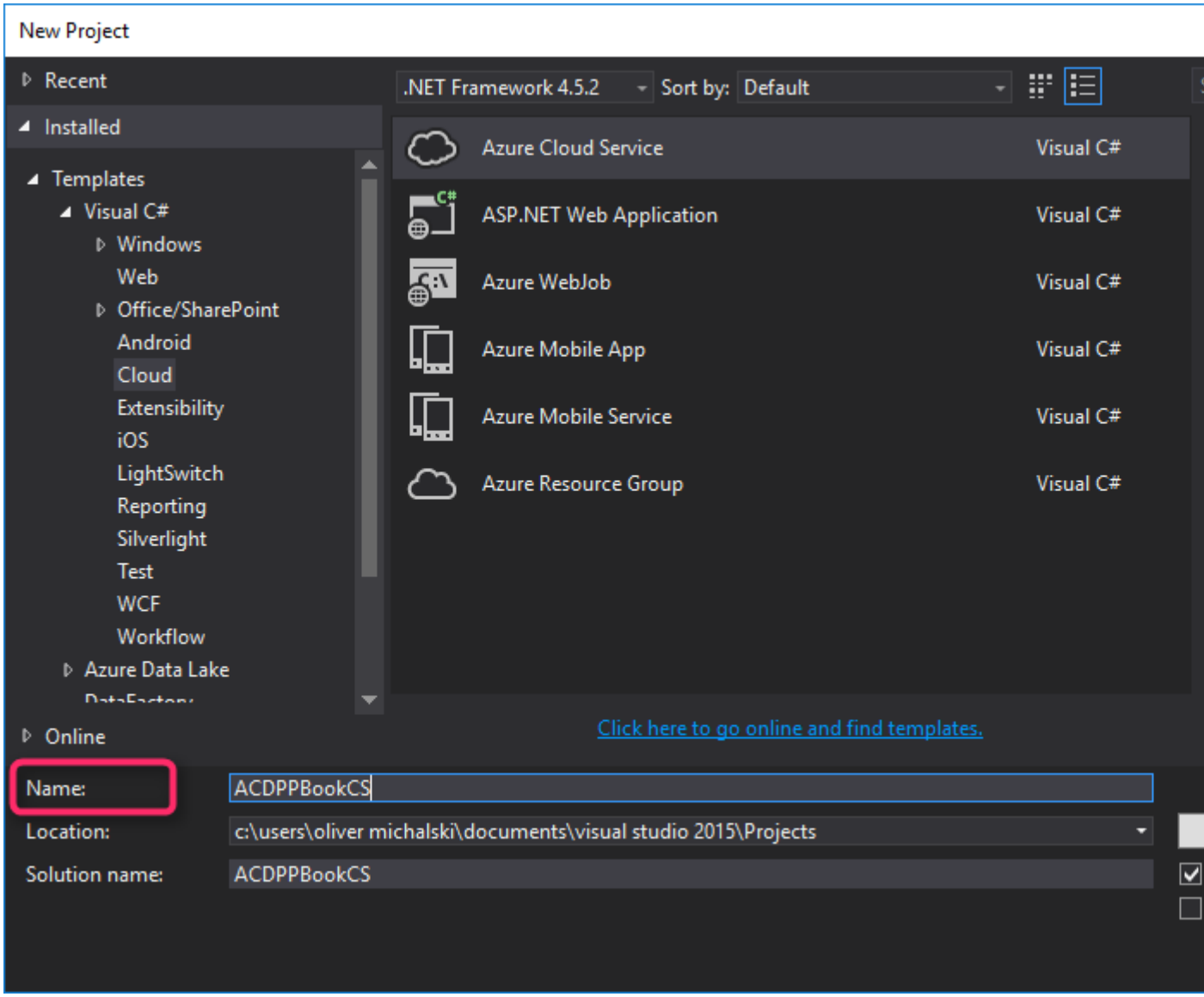
Mittwoch, März 1, 20
Ready
Frag mich etwas


New Project
Recent
Installed
Templates
Visual C#
Windows
Web
Office/SharePoint
Android
Cloud
Extensibility
iOS
LightSwitch
Reporting
Silverlight
Test
WCF
Workflow
Azure Data Lake
Online
.NET Framework 4.5.2
Sort by:
Default
Azure Cloud Service
Visual C#
ASP.NET Web Application
Visual C#
Azure WebJob
Visual C#
Azure Mobile App
Visual C#
Azure Mobile Service
Visual C#
Azure Resource Group
Visual C#
Click here to go online and find templates.
Name:
ACDPPBookCS
Location:
c:\users\oliver michalski\documents\visual studio 2015\Projects
Solution name:
ACDPPBookCS


New Project
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Installed
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Visual C#
Windows
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LightSwitch
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Test
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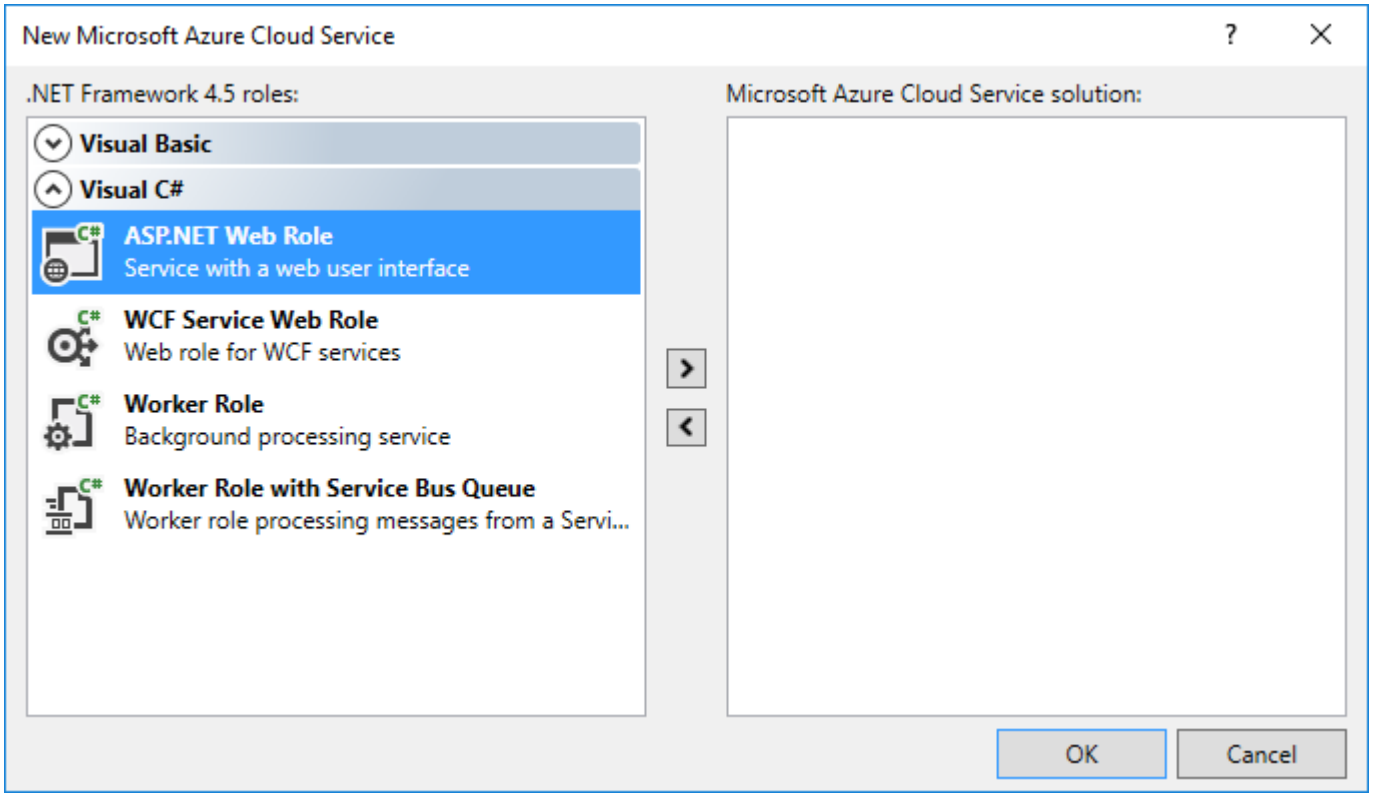
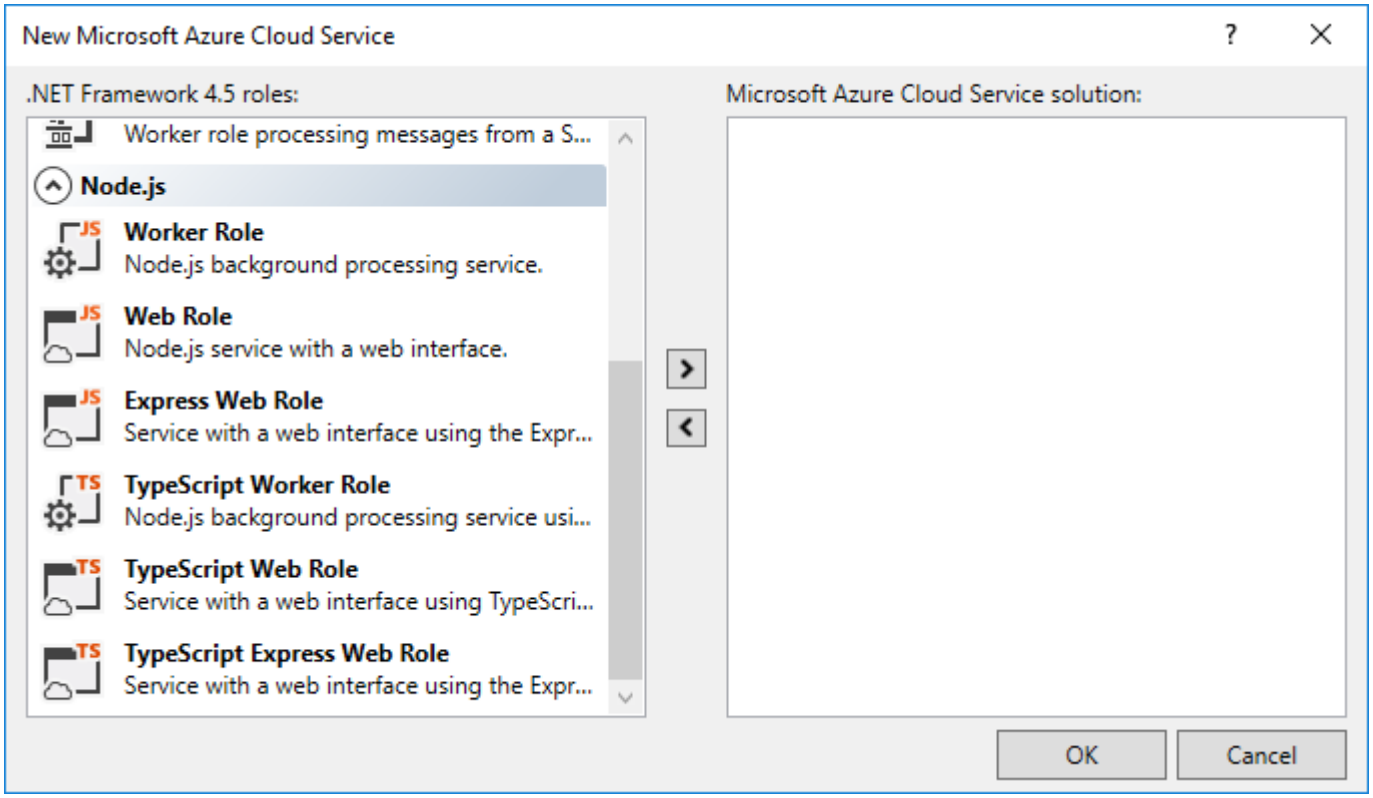
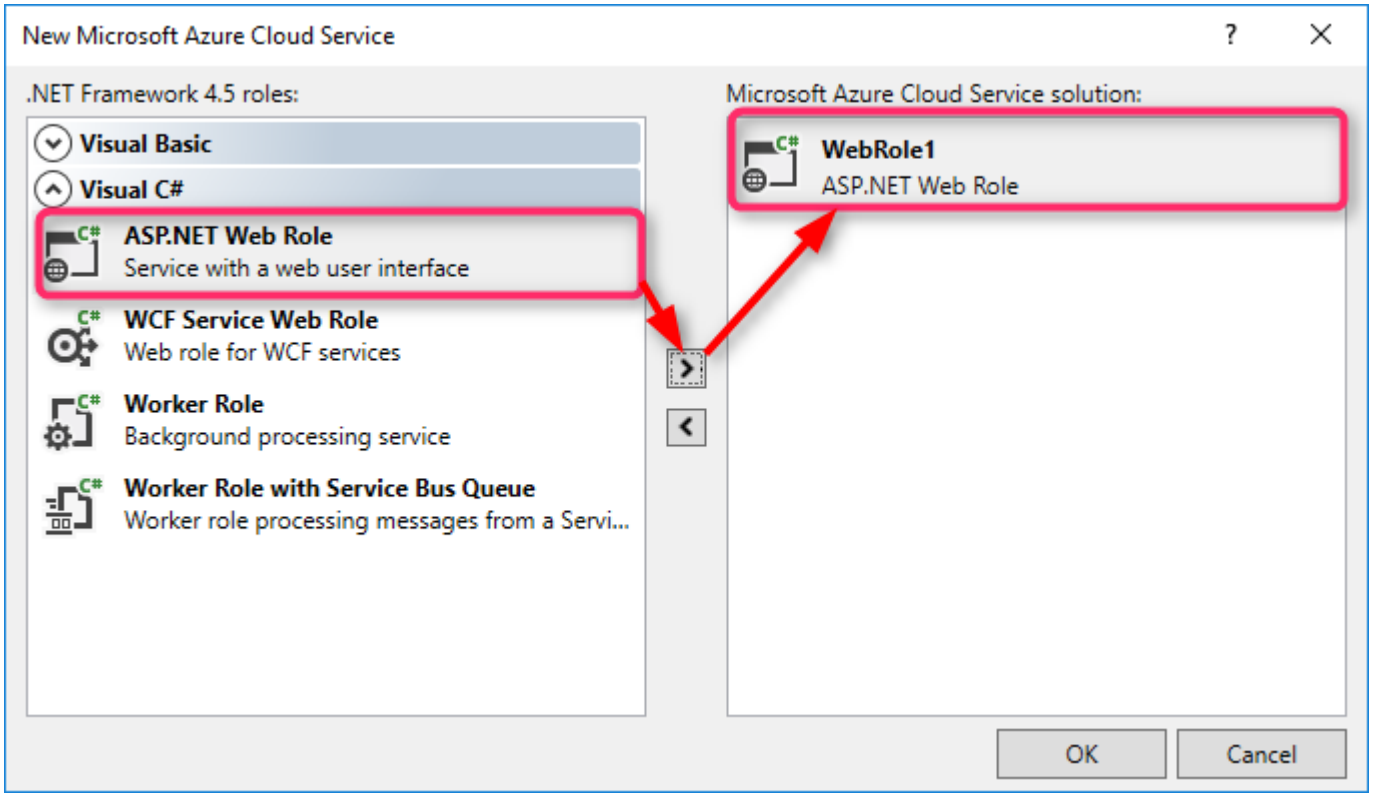
Azure Cloud Service
Visual C#
ASP.NET Web Application
Visual C#
Azure WebJob
Visual C#
Azure Mobile App
Visual C#
Azure Mobile Service
Visual C#
Azure Resource Group
Visual C#
Click here to go online and find templates.
Name:
ACDPPBookCS
Location:
c:\users\oliver michalski\documents\visual studio 2015\Projects
Solution name:
ACDPPBookCS


New Microsoft Azure Cloud Service
.NET Framework 4.5 roles:
Visual Basic
Visual C#
ASP.NET Web Role
Service with a web user interface
WCF Service Web Role
Web role for WCF services
Worker Role
Background processing service
Worker Role with Service Bus Queue
Worker role processing messages from a Servi...
Microsoft Azure Cloud Service solution:
OK
Cancel


New Microsoft Azure Cloud Service
.NET Framework 4.5 roles:
Worker role processing messages from a S...
Node.js
Worker Role
Node.js background processing service.
Web Role
Node.js service with a web interface.
Express Web Role
Service with a web interface using the Expr...
TypeScript Worker Role
Node.js background processing service usi...
TypeScript Web Role
Service with a web interface using TypeScri...
TypeScript Express Web Role
Service with a web interface using the Expr...
Microsoft Azure Cloud Service solution:
OK
Cancel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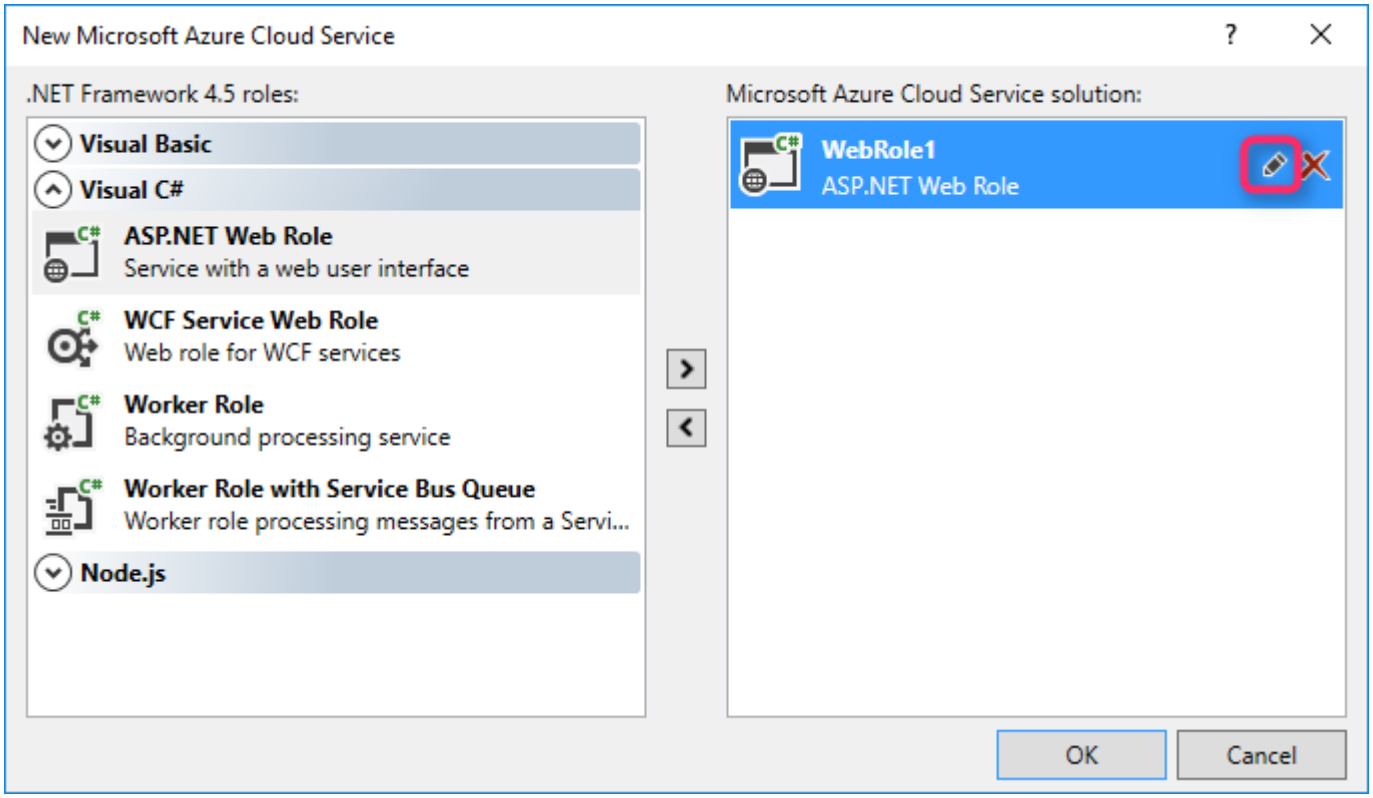
Worker Role with Service Bus Queue
Worker role processing messages from a Servi...
Microsoft Azure Cloud Service solution:
WebRole1
ASP.NET Web Role
OK
Cancel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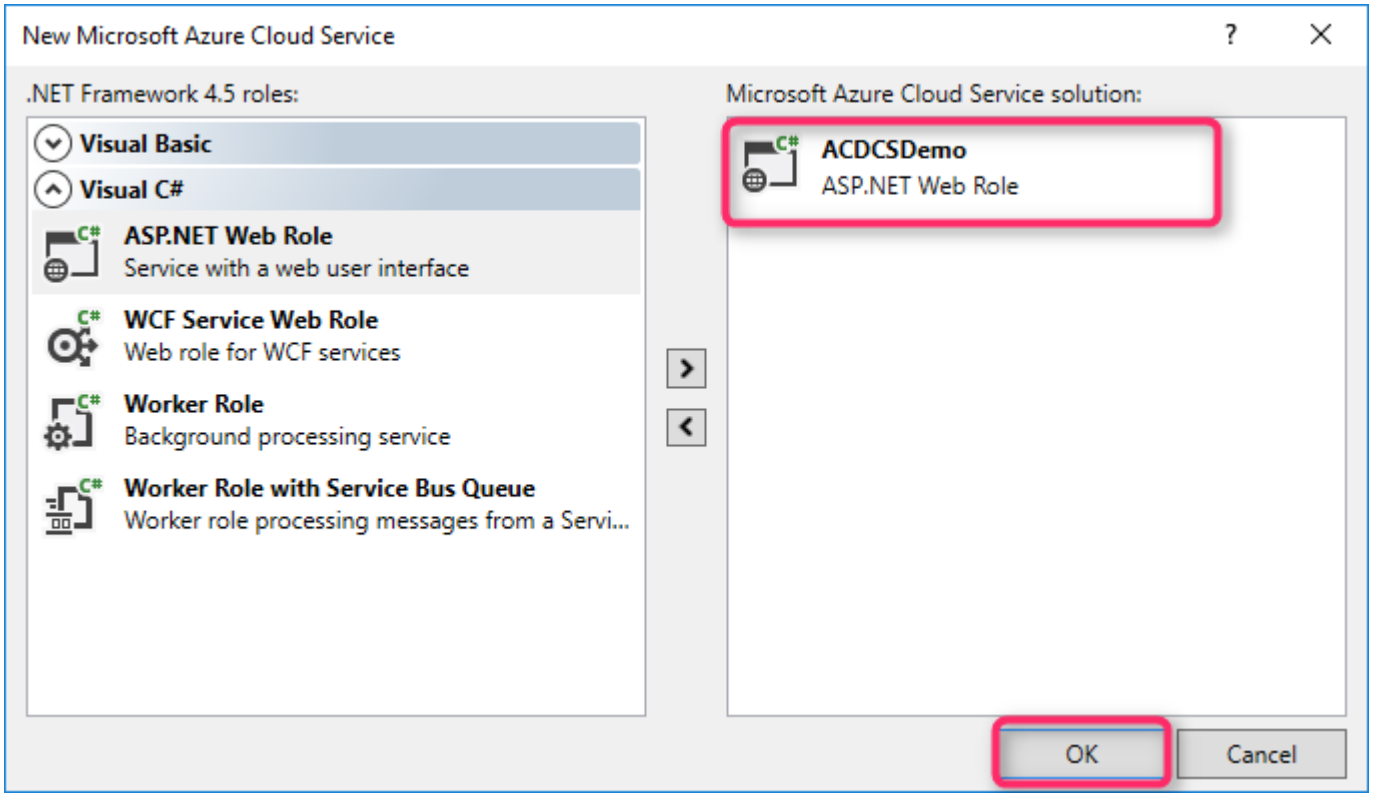
Worker role processing messages from a Servi...
Node.js
Microsoft Azure Cloud Service solution:
WebRole1
ASP.NET Web Role
OK
Cancel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.NET Framework 4.5 roles:
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Visual C#
ASP.NET Web Role
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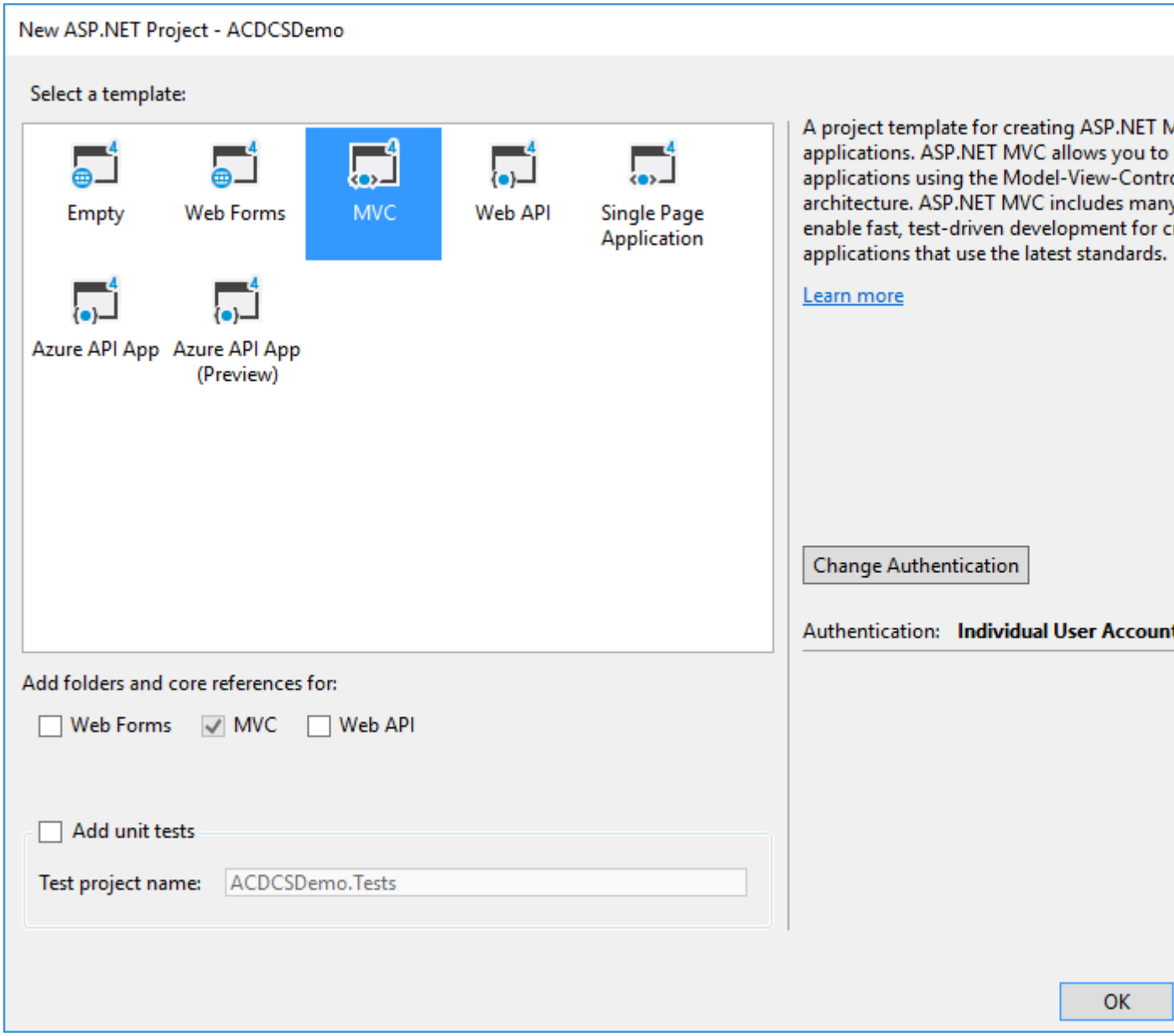
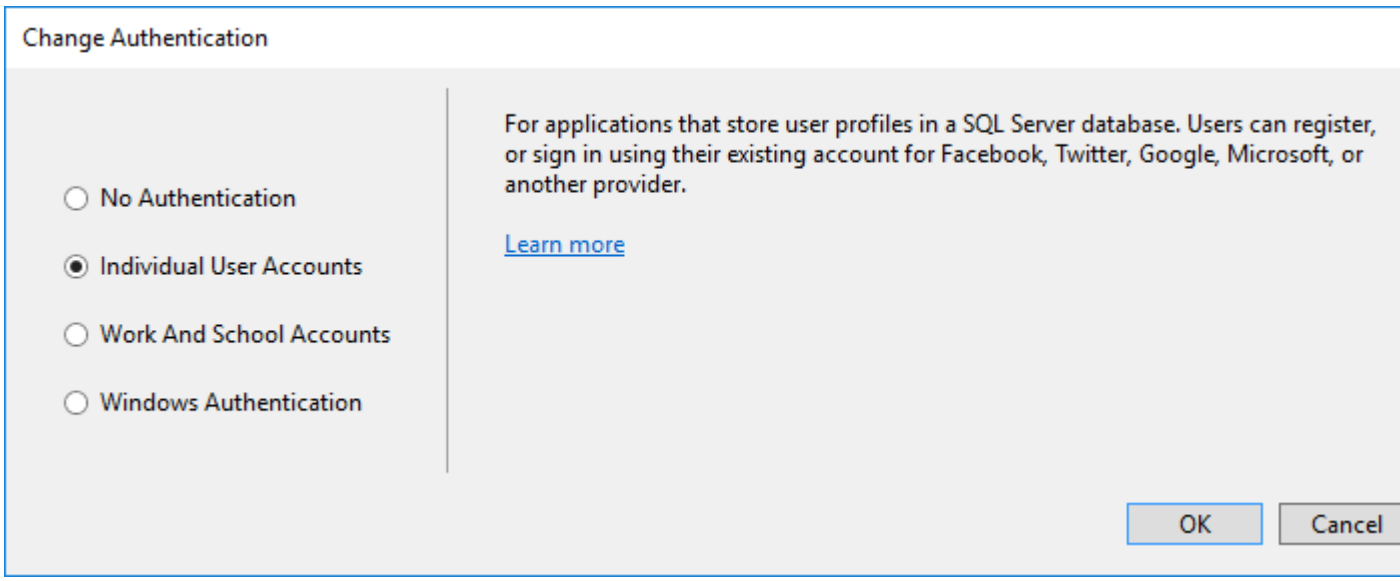
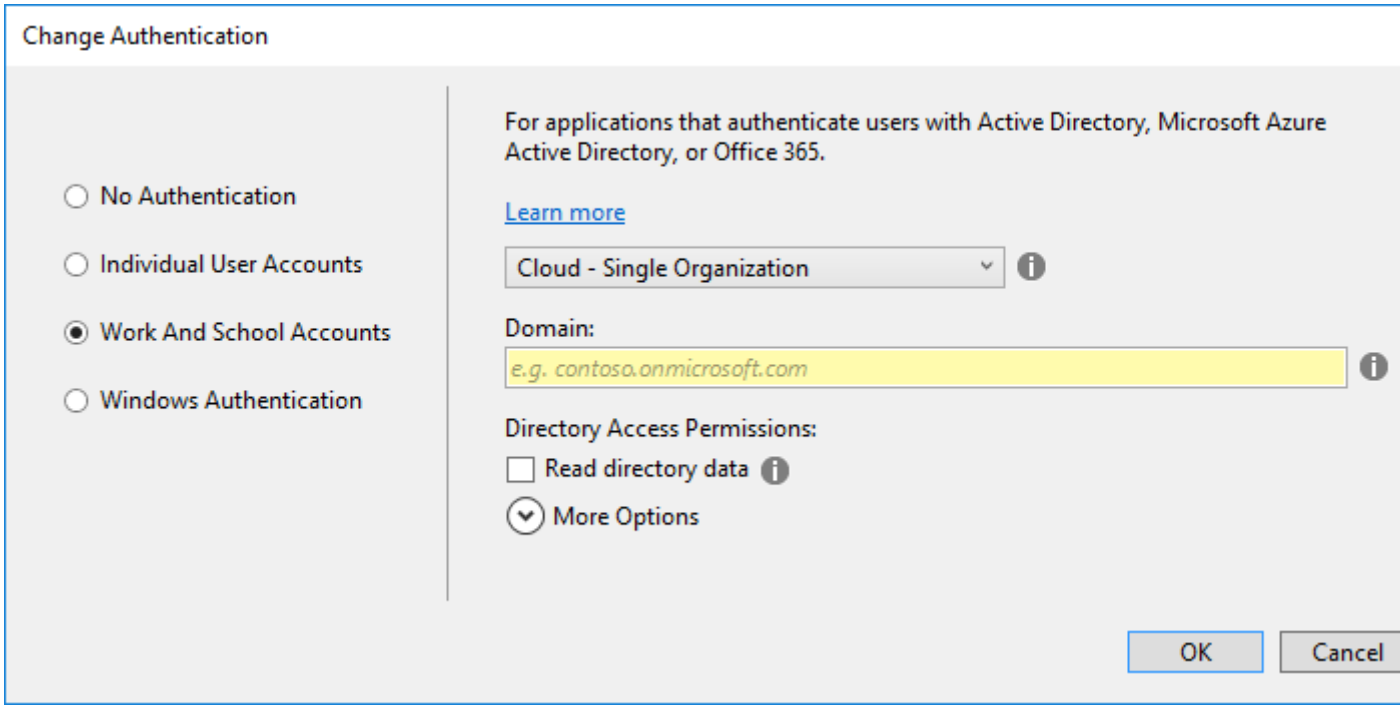
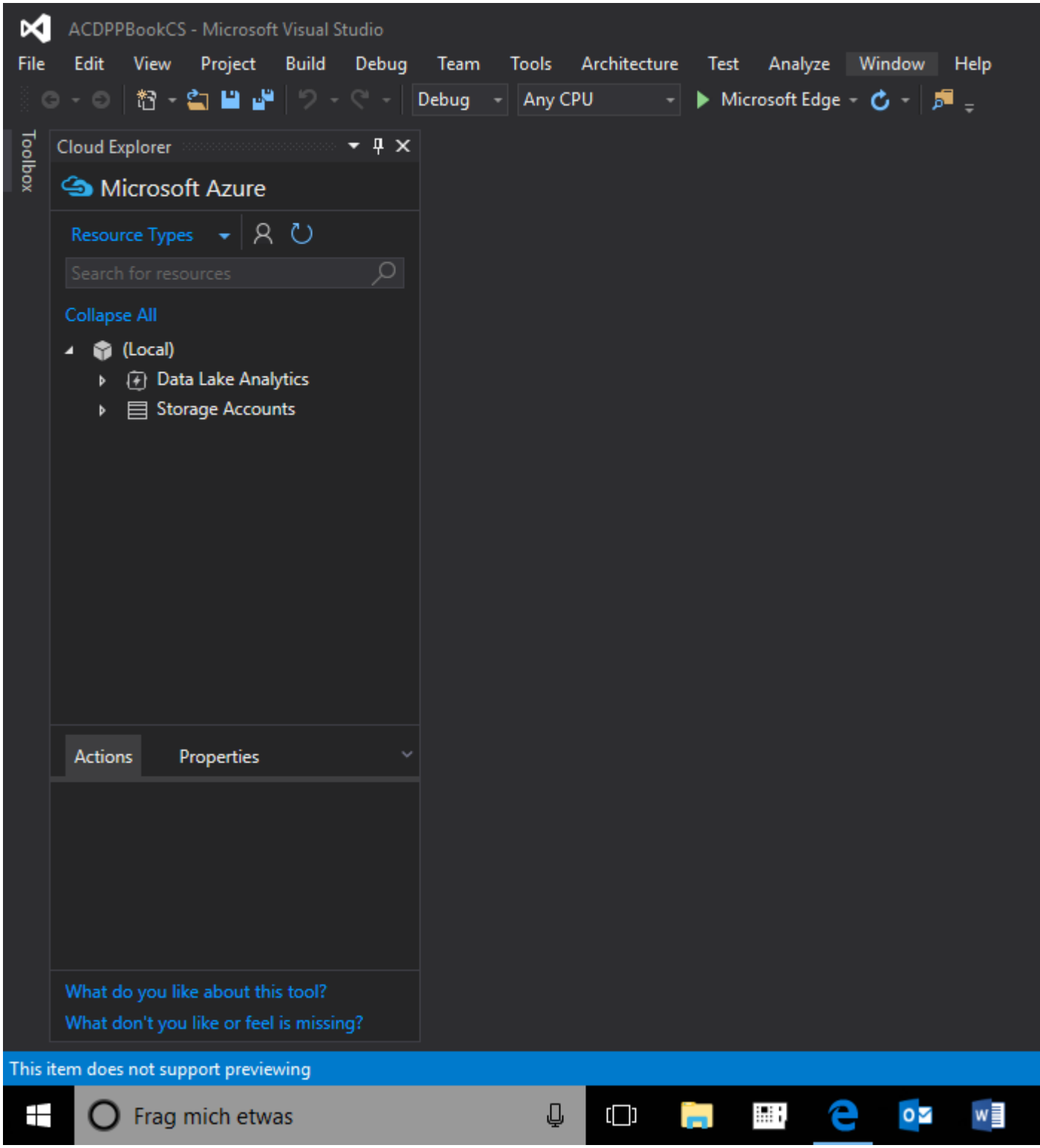
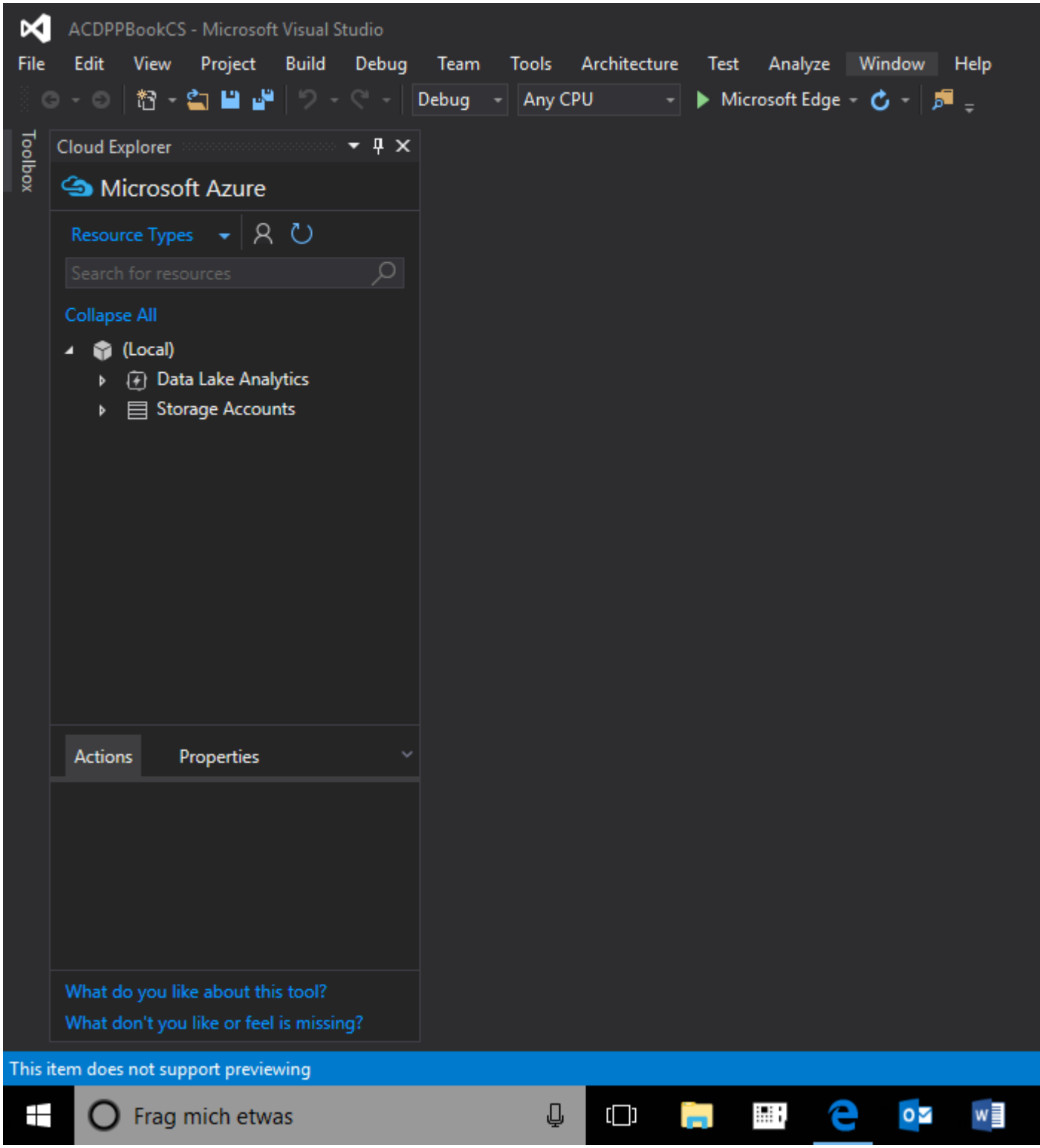
Web role for WCF services
Worker Role
Background processing service
Worker Role with Service Bus Queue
Worker role processing messages from a Servi...
Microsoft Azure Cloud Service solution:
ACDCSDemo
ASP.NET Web Role
OK
Cancel


New ASP.NET Project - ACDCSDemo
Select a template:
Empty
Web Forms
MVC
Web API
Single Page Application
Azure API App
Azure API App (Preview)
A project template for creating ASP.NET M
applications. ASP.NET MVC allows you to
applications using the Model-View-Contro
architecture. ASP.NET MVC includes many
enable fast, test-driven development for c
applications that use the latest standards.
Learn more
Change Authentication
Authentication: Individual User Account
Add folders and core references for:
Web Forms
MVC
Web API
Add unit tests
Test project name: ACDCSDemo.Tests
OK


Change Authentication
No Authentication
Individual User Accounts
Work And School Accounts
Windows Authentication
For applications that store user profiles in a SQL Server database. Users can register, or sign in using their existing account for Facebook, Twitter, Google, Microsoft, or another provider.
Learn more
OK
Cancel


Change Authentication
No Authentication
Individual User Accounts
Work And School Accounts
Windows Authentication
For applications that authenticate users with Active Directory, Microsoft Azure Active Directory, or Office 365.
Learn more
Cloud - Single Organization
Domain:
e.g. contoso.onmicrosoft.com
Directory Access Permissions:
Read directory data
More Options
OK
Cancel


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
This item does not support previewing
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
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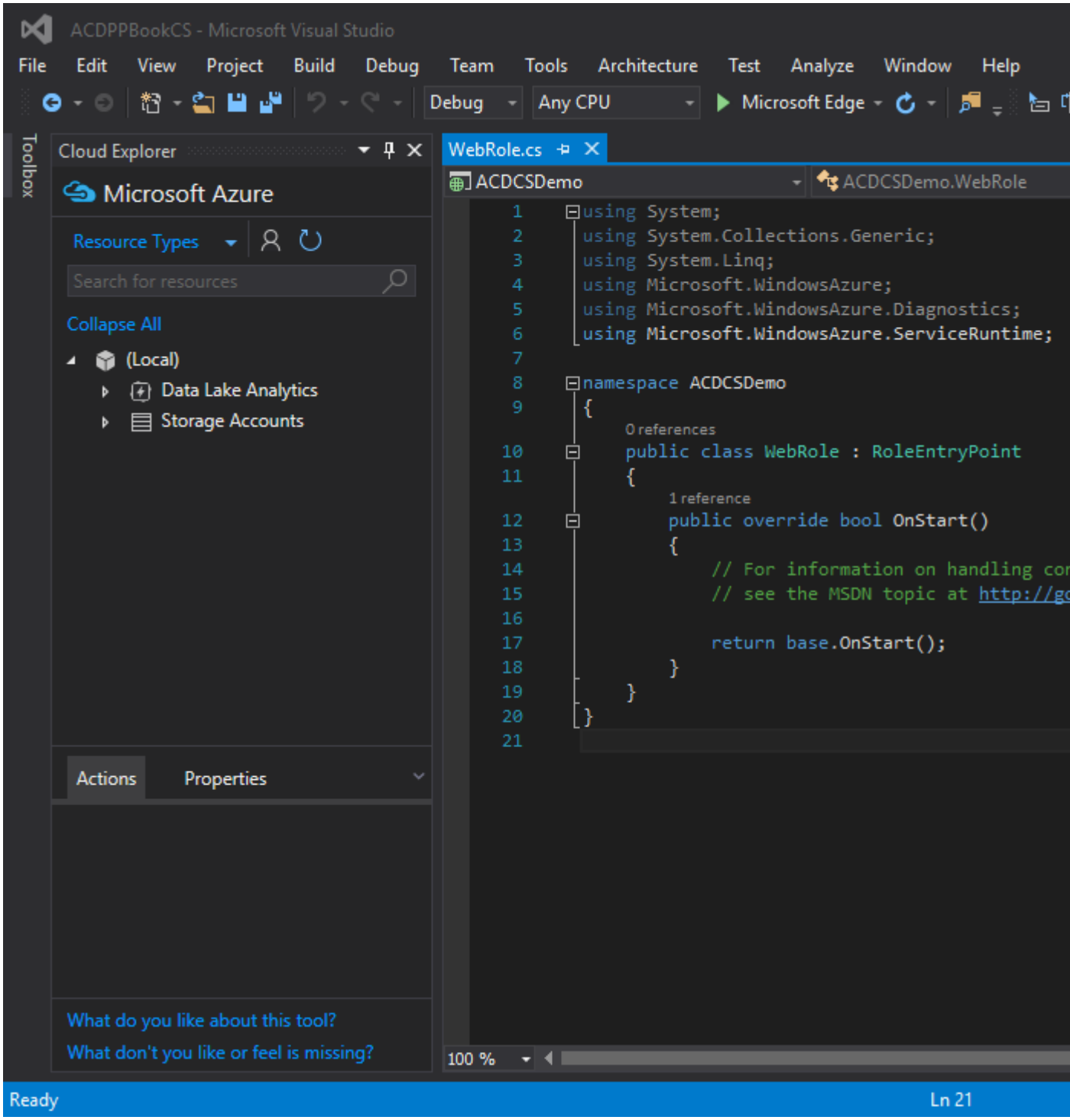
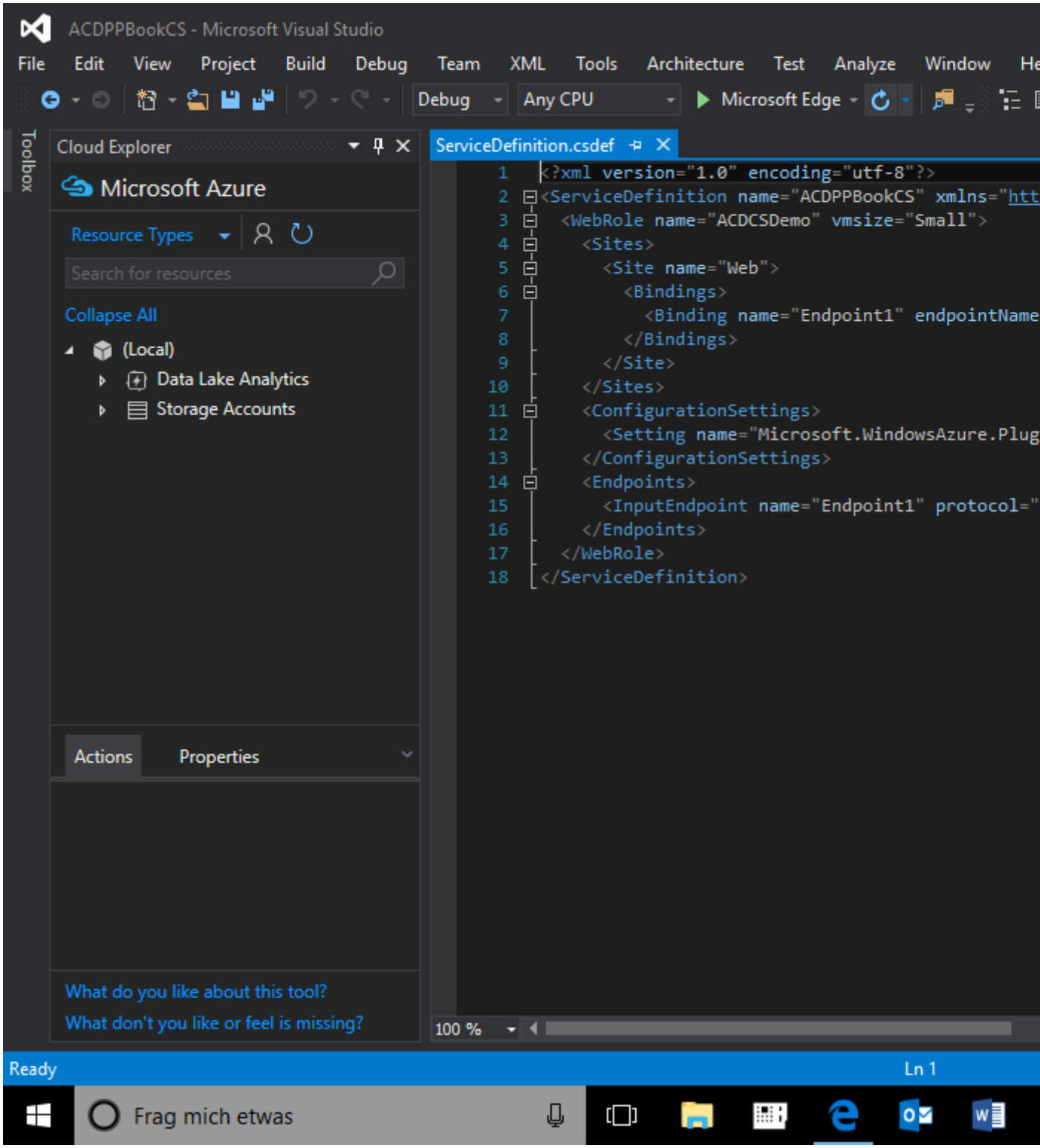
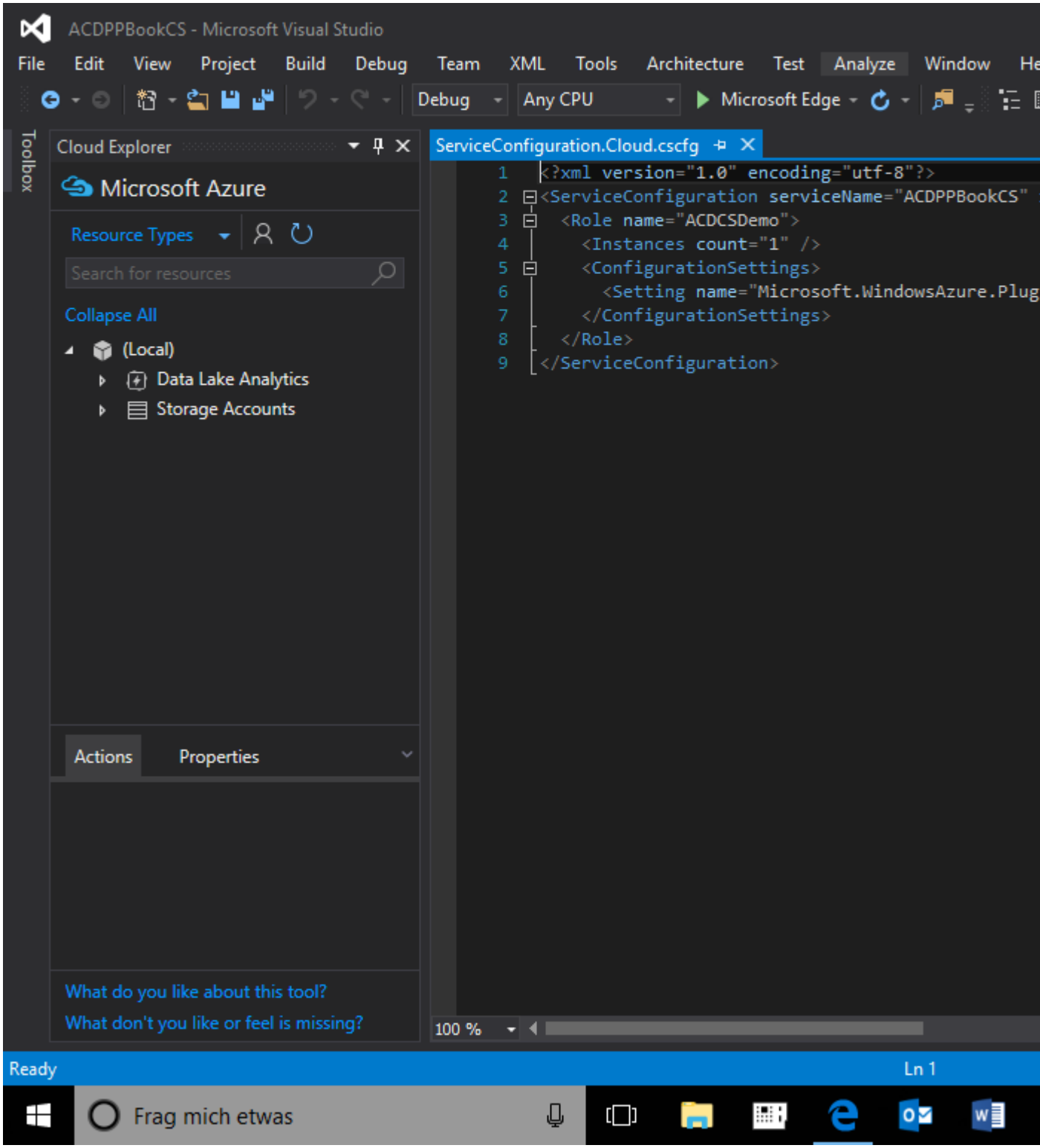
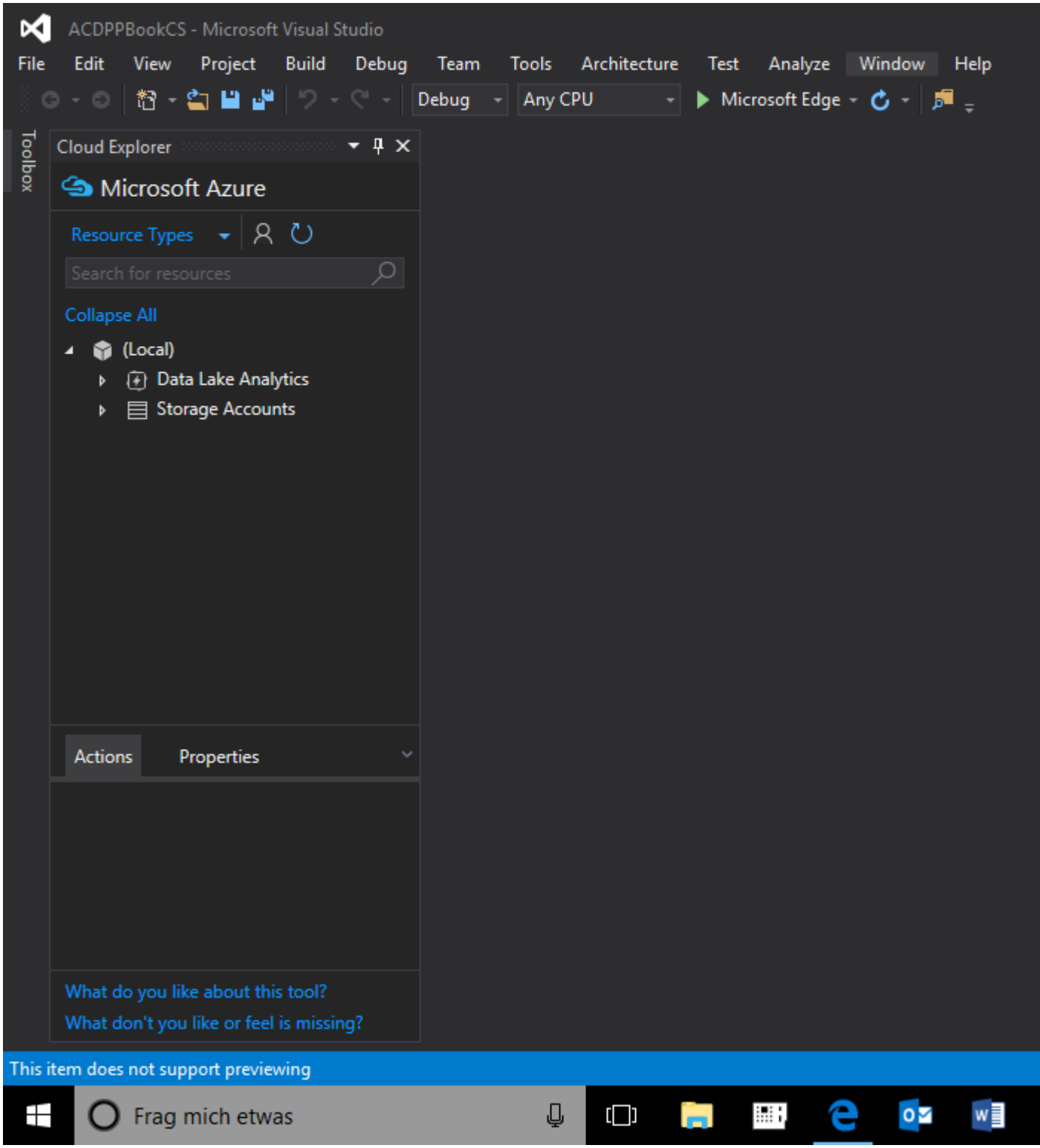
What do you like about this tool?
What don't you like or feel is missing?
This item does not support previewing
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
WebRole.cs
ACDCSDemo
ACDCSDemo.WebRole
using System;
using System.Collections.Generic;
using System.Linq;
using Microsoft.WindowsAzure;
using Microsoft.WindowsAzure.Diagnostics;
using Microsoft.WindowsAzure.ServiceRuntime;
namespace ACDCSDemo
{
0 references
public class WebRole : RoleEntryPoint
{
1 reference
public override bool OnStart()
{
// For information on handling co
// see the MSDN topic at http://g
return base.OnStart();
}
}
}
100 %
Ready
Ln 21


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team XML Tools Architecture Test Analyze Window
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ServiceDefinition.csdef
1 <?xml version="1.0" encoding="utf-8"?>
2 <ServiceDefinition name="ACDPPBookCS" xmlns="htt
3 <WebRole name="ACDCSDemo" vmsize="Small">
4 <Sites>
5 <Site name="Web">
6 <Bindings>
7 <Binding name="Endpoint1" endpointName
8 </Bindings>
9 </Site>
10 </Sites>
11 <ConfigurationSettings>
12 <Setting name="Microsoft.WindowsAzure.Plug
13 </ConfigurationSettings>
14 <Endpoints>
15 <InputEndpoint name="Endpoint1" protocol="
16 </Endpoints>
17 </WebRole>
18 </ServiceDefinition>
100 %
Ready
Ln 1
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team XML Tools Architecture Test Analyze Window
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ServiceConfiguration.Cloud.cscfg
1 <?xml version="1.0" encoding="utf-8"?>
2 <ServiceConfiguration serviceName="ACDPPBookCS"
3 <Role name="ACDCSDemo">
4 <Instances count="1" />
5 <ConfigurationSettings>
6 <Setting name="Microsoft.WindowsAzure.Plug
7 </ConfigurationSettings>
8 </Role>
9 </ServiceConfiguration>
100 %
Ready
Ln 1
Frag mich etwas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Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
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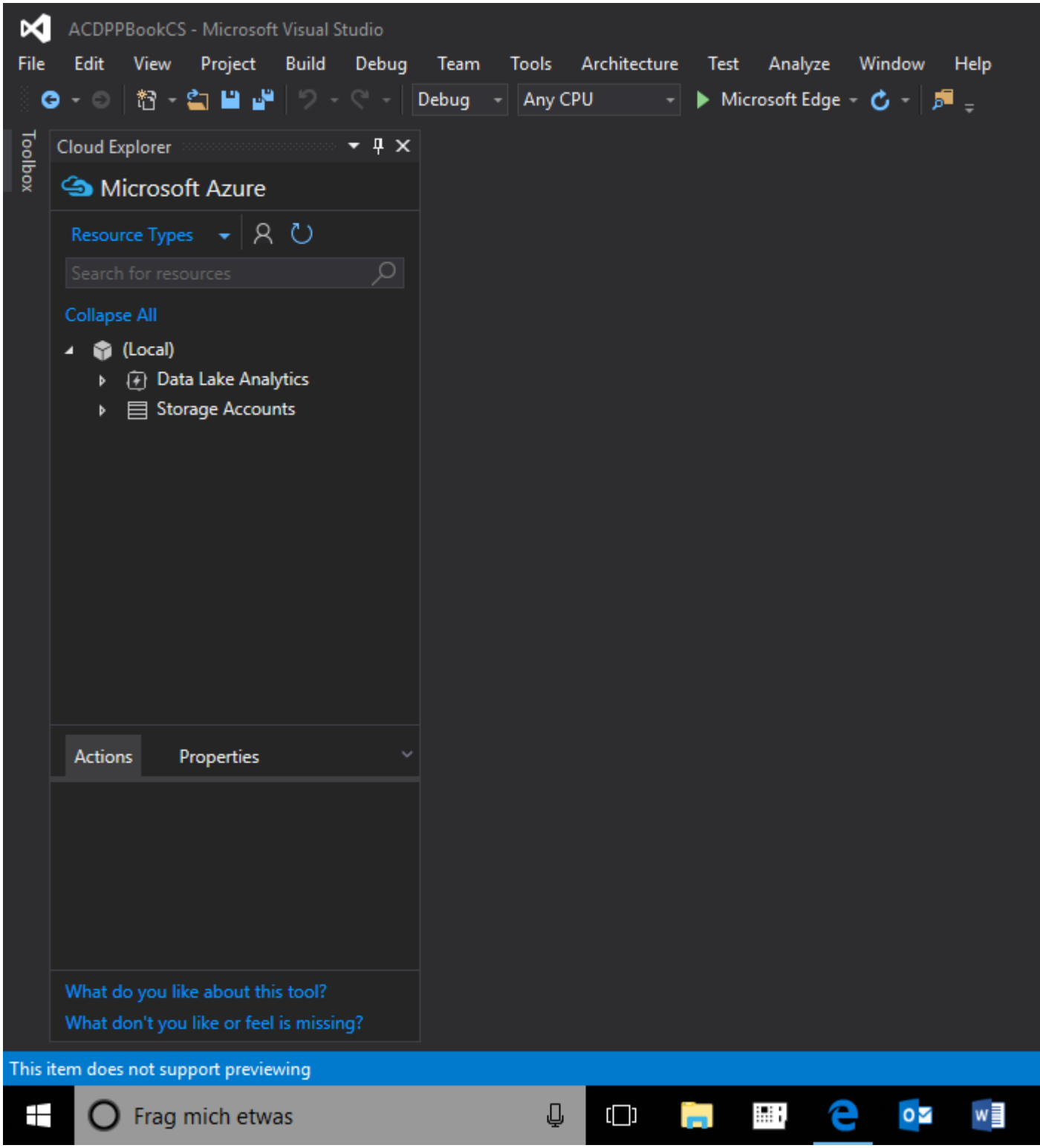
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
This item does not support previewing
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
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Microsoft Edge
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Microsoft Azure
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Collapse All
(Local)
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Storage Accounts
Actions
Properties
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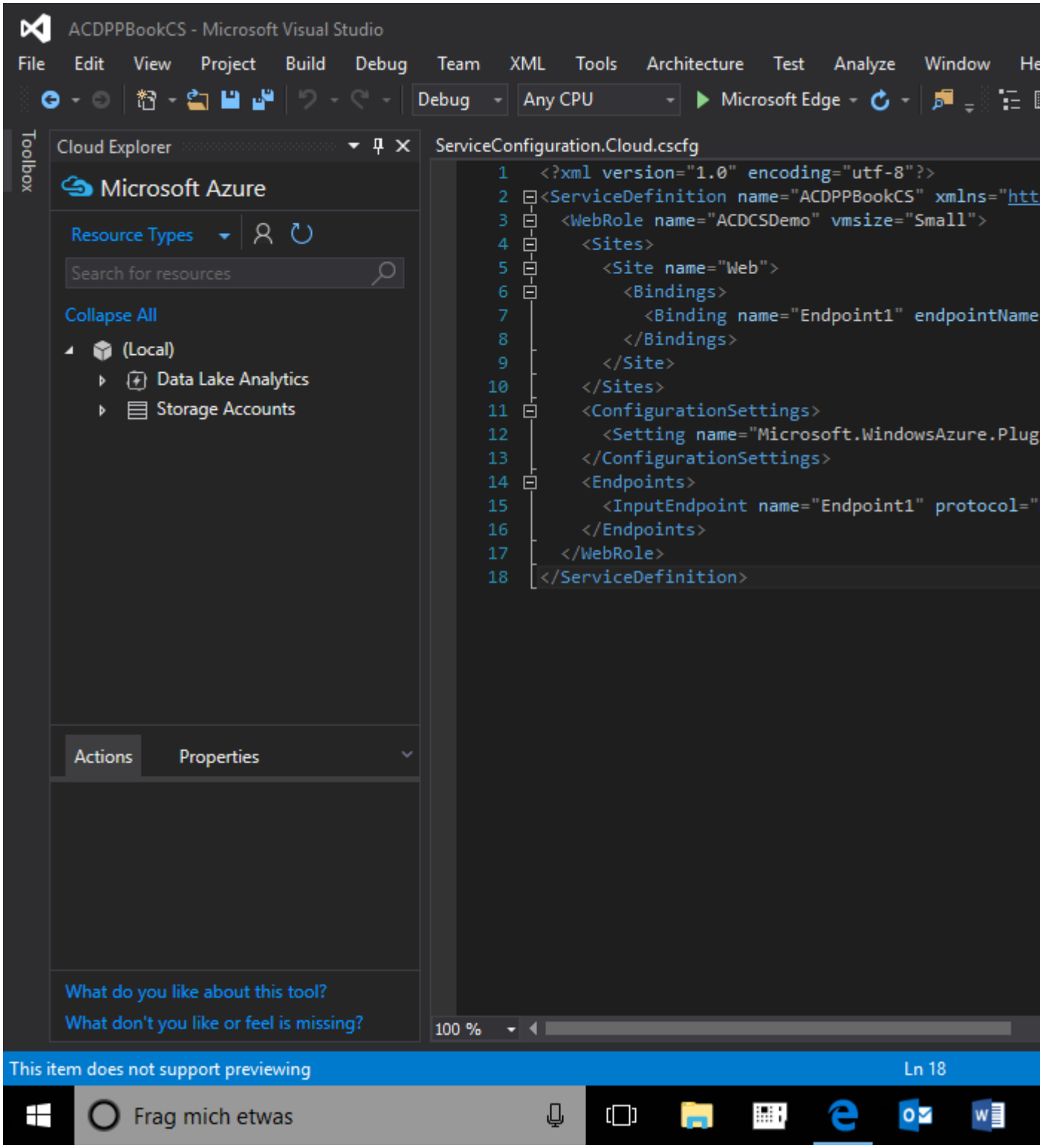
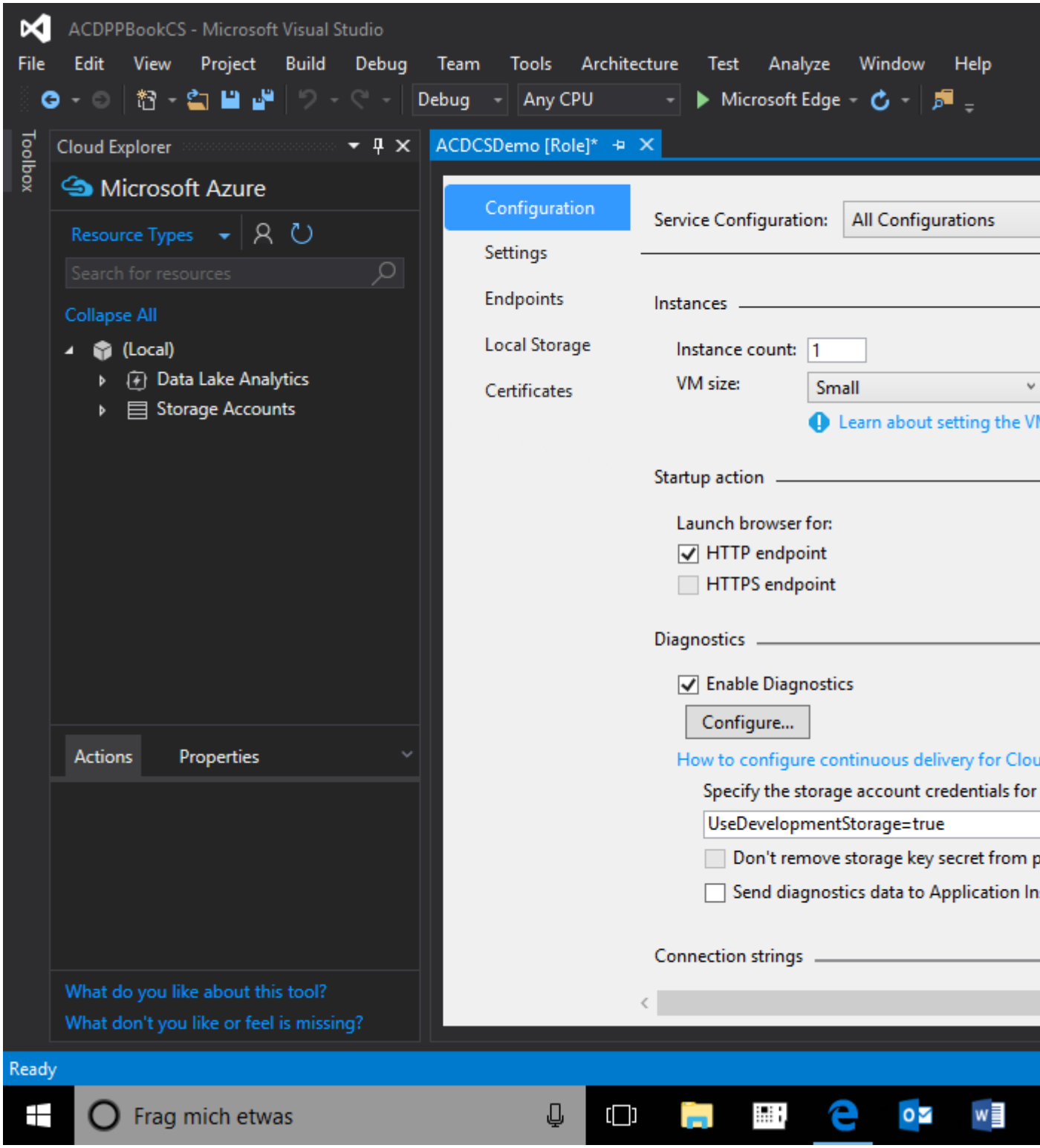
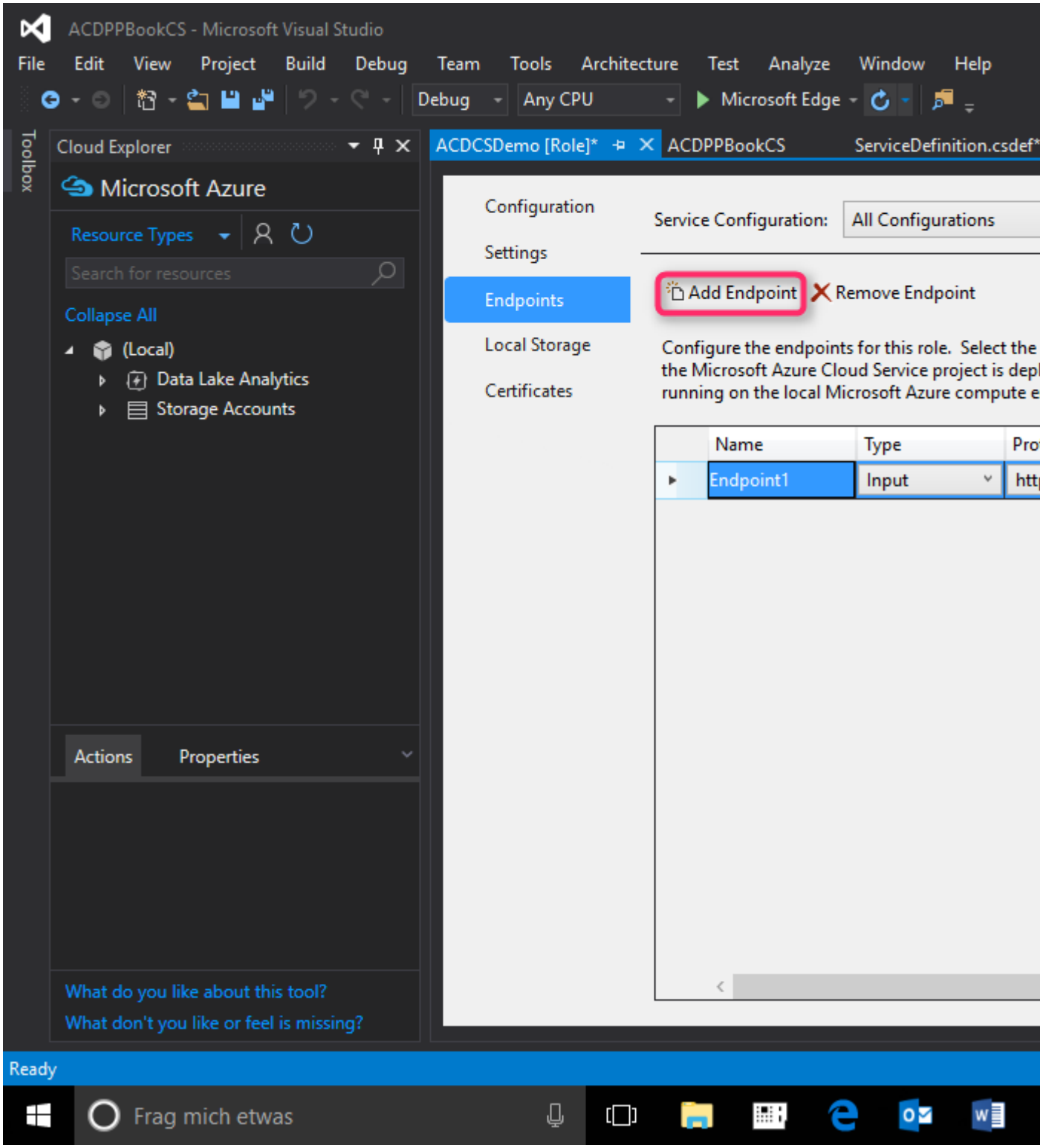
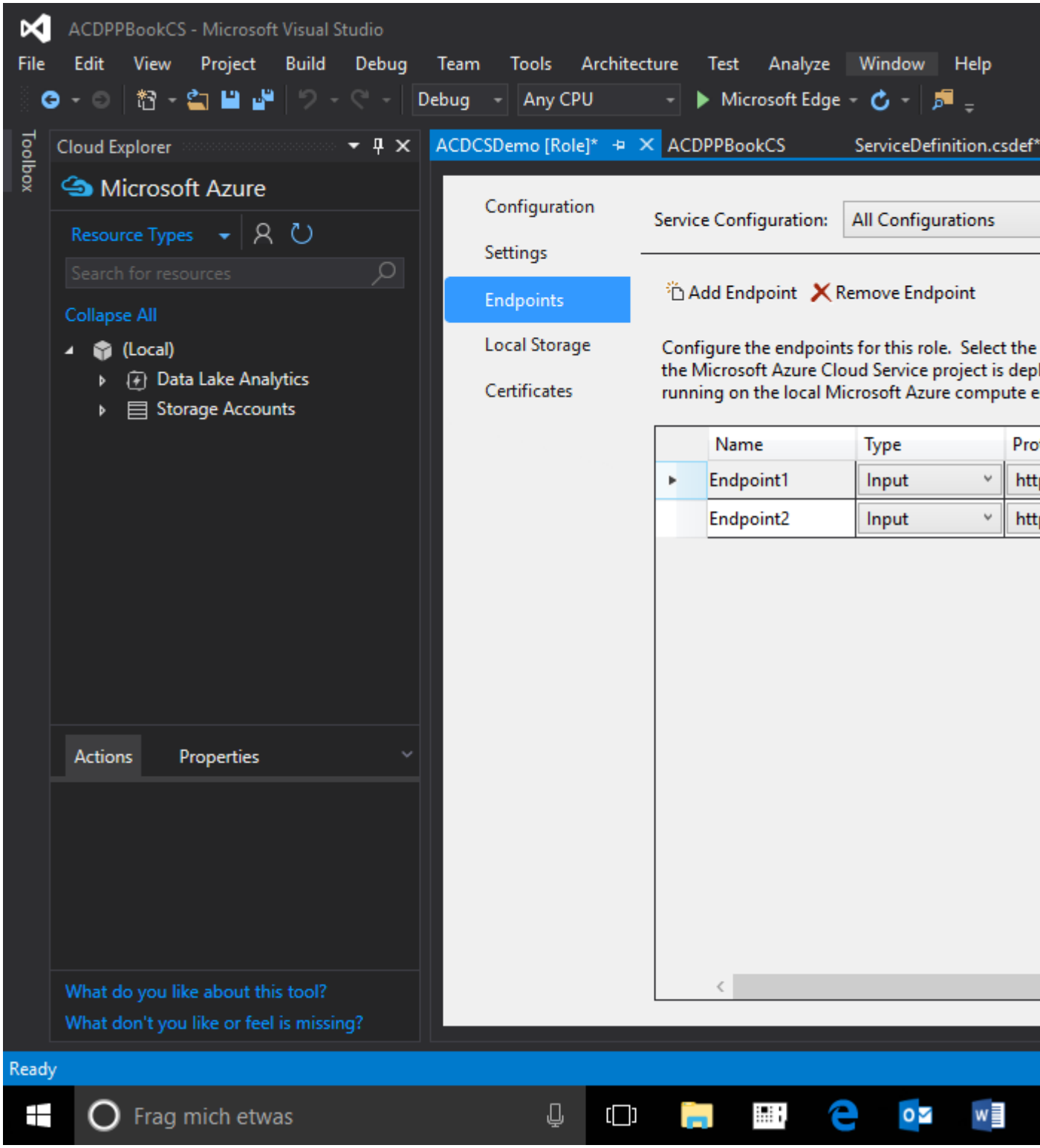
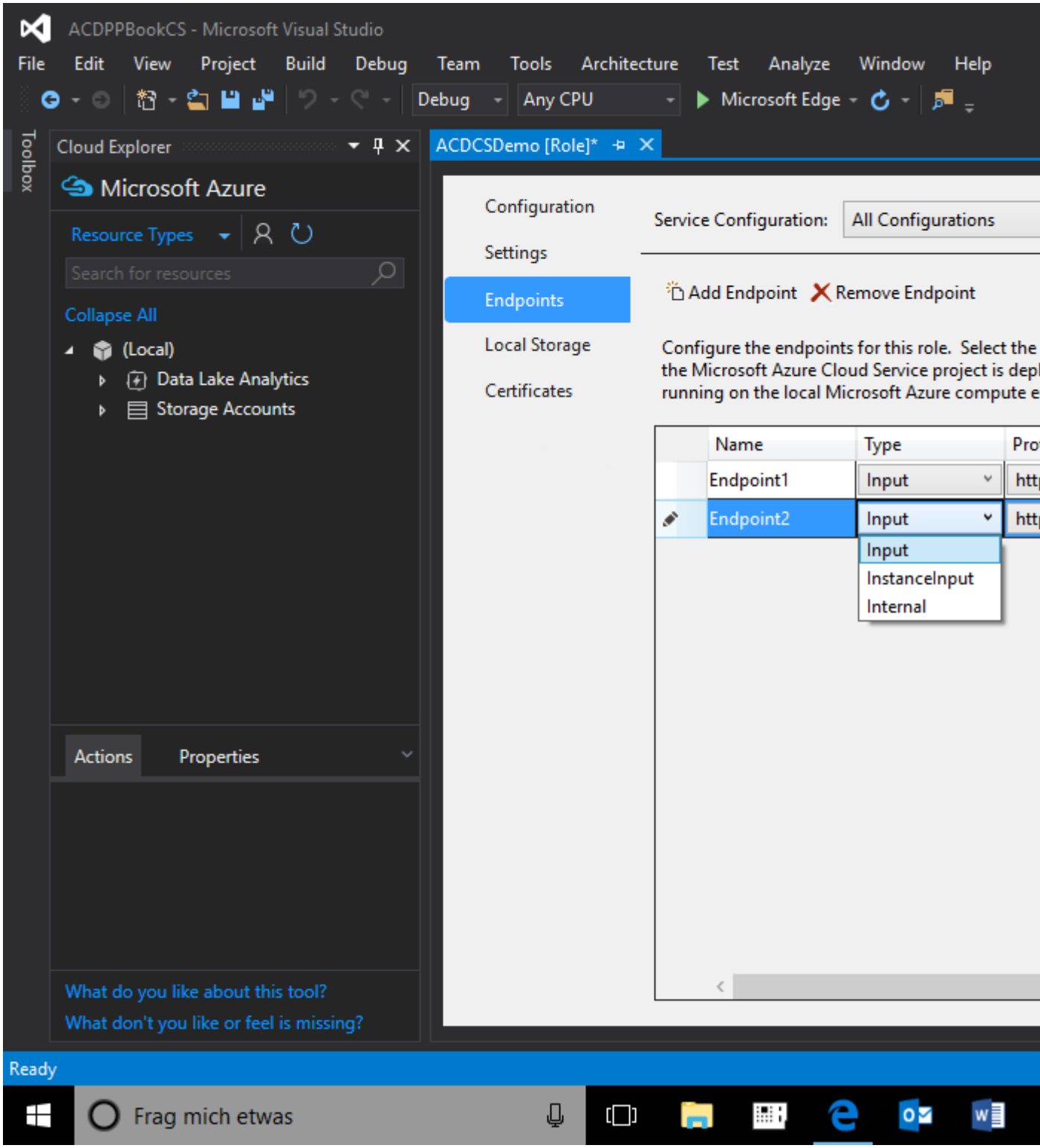
What don't you like or feel is missing?
This item does not support previewing
Frag mich etwas

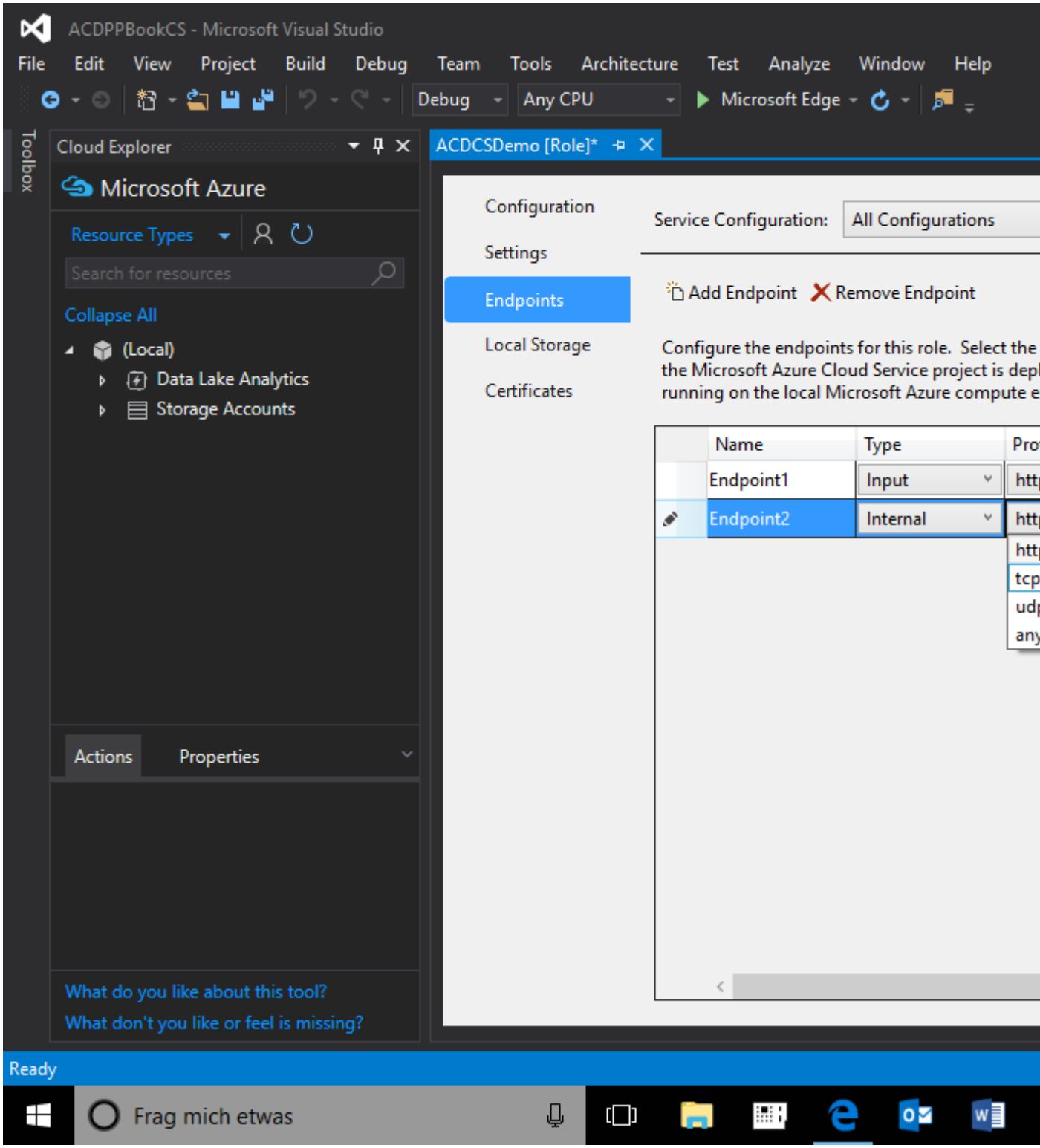

ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team XML Tools Architecture Test Analyze Window
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ServiceConfiguration.Cloud.cscfg
1 <?xml version="1.0" encoding="utf-8"?>
2 <ServiceDefinition name="ACDPPBookCS" xmlns="htt
3 <WebRole name="ACDCSDemo" vmsize="Small">
4 <Sites>
5 <Site name="Web">
6 <Bindings>
7 <Binding name="Endpoint1" endpointName
8 </Bindings>
9 </Site>
10 </Sites>
11 <ConfigurationSettings>
12 <Setting name="Microsoft.WindowsAzure.Plug
13 </ConfigurationSettings>
14 <Endpoints>
15 <InputEndpoint name="Endpoint1" protocol="
16 </Endpoints>
17 </WebRole>
18 </ServiceDefinition>
100 %
This item does not support previewing
Ln 18
Frag mich etwas

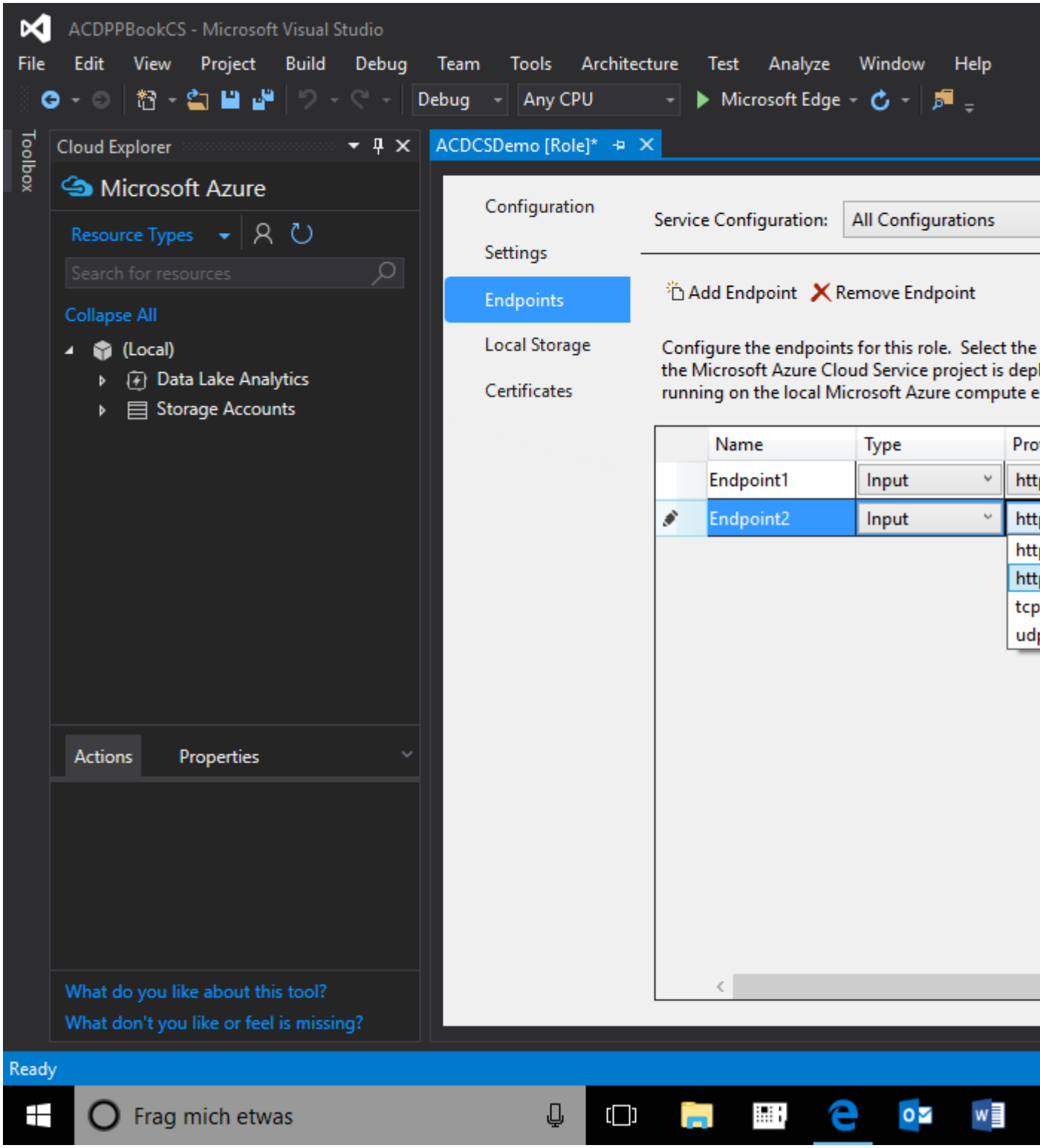

ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ACDCSDemo [Role]*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Instances
Instance count:
1
VM size:
Small
Learn about setting the VM
Startup action
Launch browser for:
HTTP endpoint
HTTPS endpoint
Diagnostics
Enable Diagnostics
Configure...
How to configure continuous delivery for Clou
Specify the storage account credentials for
UseDevelopmentStorage=true
Don't remove storage key secret from p
Send diagnostics data to Application In
Connection strings
Ready
Frag mich etwas

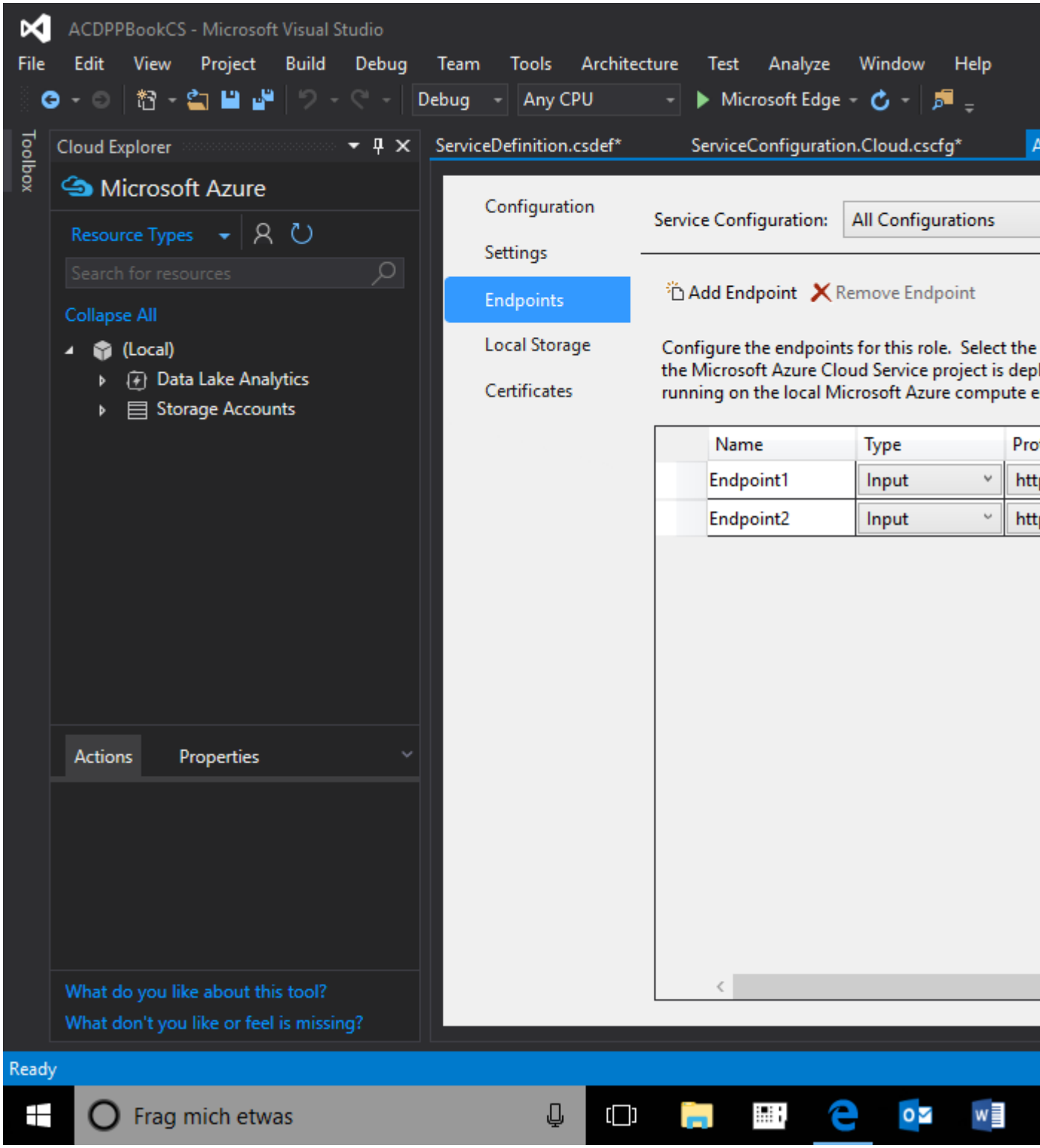

ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ACDCSDemo [Role]*
ACDPPBookCS
ServiceDefinition.csdef*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Add Endpoint
Remove Endpoint
Configure the endpoints for this role. Select the
the Microsoft Azure Cloud Service project is depl
running on the local Microsoft Azure compute e
Name
Type
Endpoint1
Input
Ready
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ACDCSDemo [Role]*
ACDPPBookCS
ServiceDefinition.csdef*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Add Endpoint
Remove Endpoint
Configure the endpoints for this role. Select the
the Microsoft Azure Cloud Service project is depl
running on the local Microsoft Azure compute e
Name
Type
Endpoint1
Input
Endpoint2
Input
Ready
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ACDCSDemo [Role]*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Add Endpoint
Remove Endpoint
Configure the endpoints for this role. Select the
the Microsoft Azure Cloud Service project is depl
running on the local Microsoft Azure compute e
Name
Type
Endpoint1
Input
Endpoint2
Input
Input
InstanceInput
Internal
Ready
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ACDCSDemo [Role]*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Add Endpoint
Remove Endpoint
Configure the endpoints for this role. Select the
the Microsoft Azure Cloud Service project is depl
running on the local Microsoft Azure compute e
Name
Type
Endpoint1
Input
Endpoint2
Internal
http
tcp
udp
any
Ready
Frag mich etwas


ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ACDCSDemo [Role]*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Add Endpoint
Remove Endpoint
Configure the endpoints for this role. Select the
the Microsoft Azure Cloud Service project is depl
running on the local Microsoft Azure compute e
Name
Type
Endpoint1
Input
Endpoint2
Input
tcp
udp
Ready
Frag mich etwas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Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ServiceDefinition.csdef*
ServiceConfiguration.Cloud.cscfg*
Configuration
Settings
Endpoints
Local Storage
Certificates
Service Configuration:
All Configurations
Add Endpoint
Remove Endpoint
Configure the endpoints for this role. Select the
the Microsoft Azure Cloud Service project is dep
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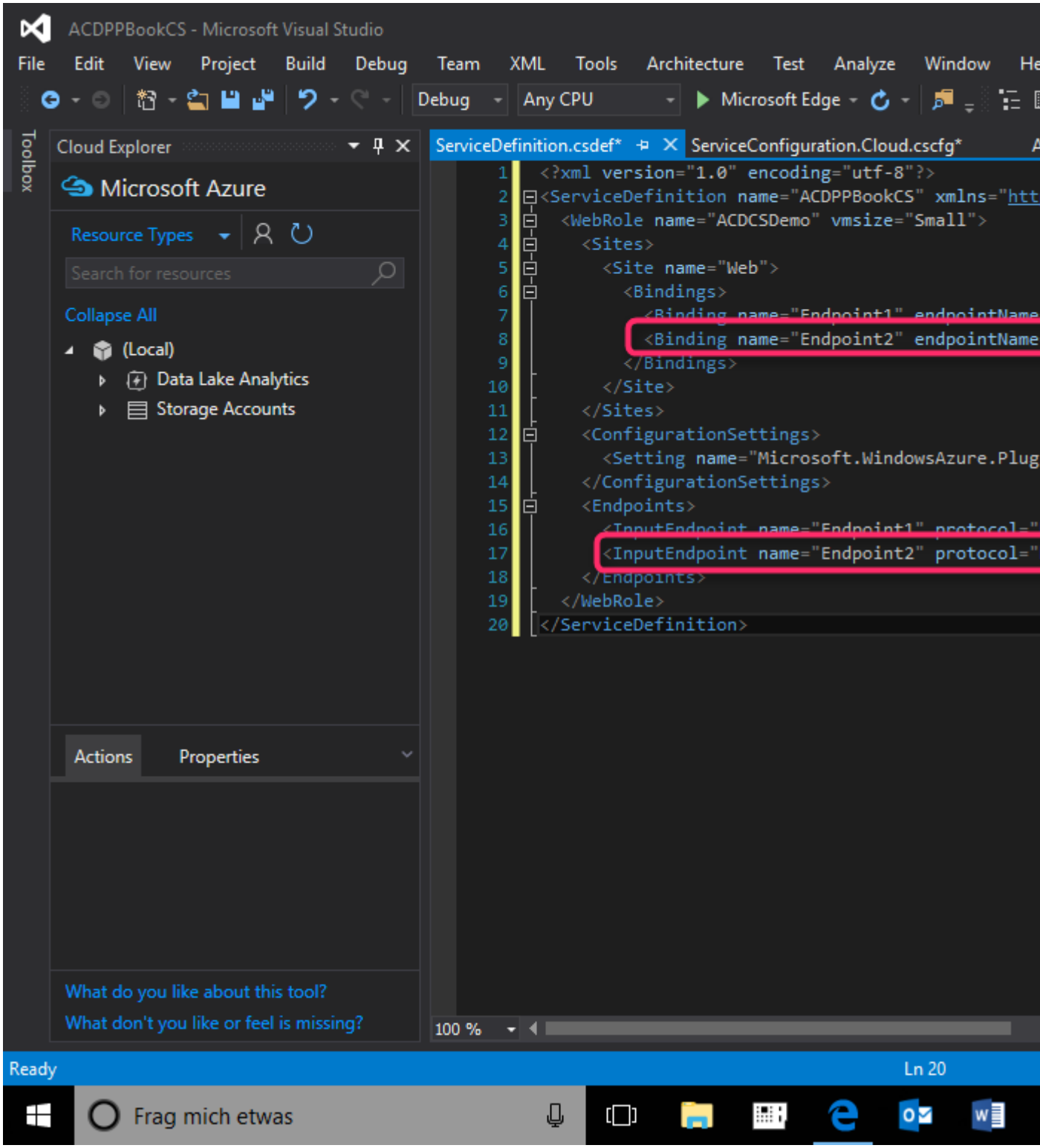
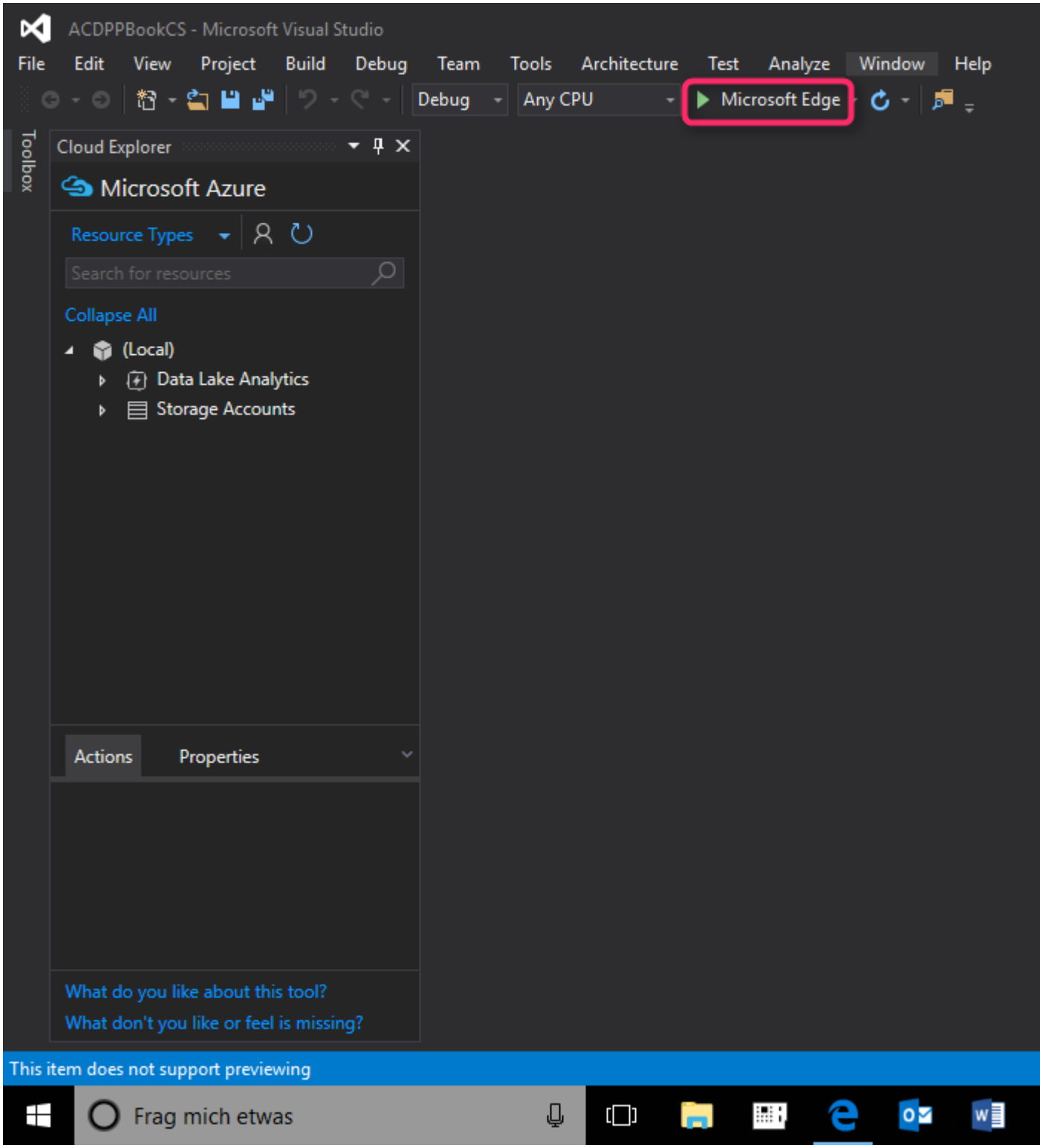
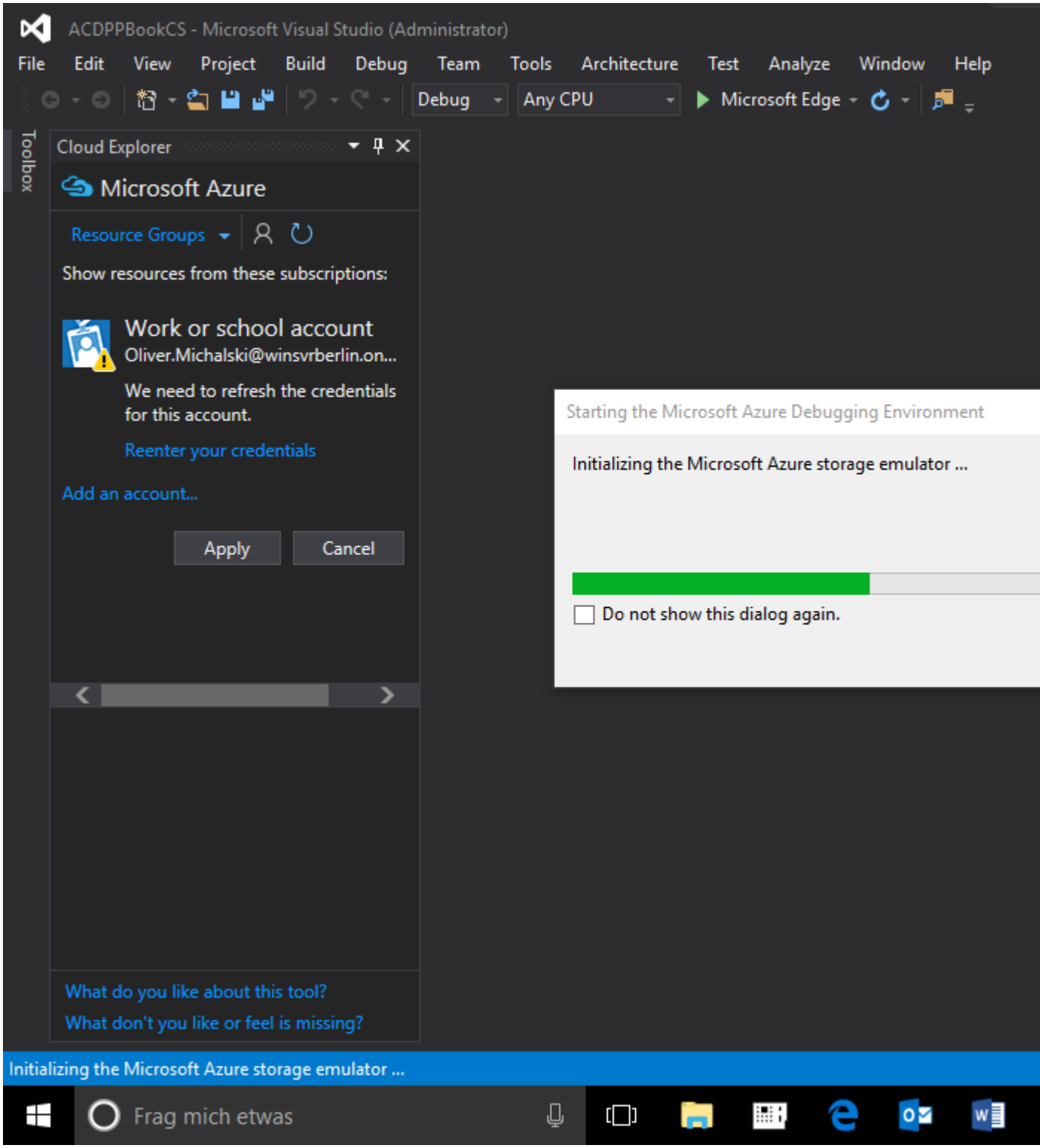
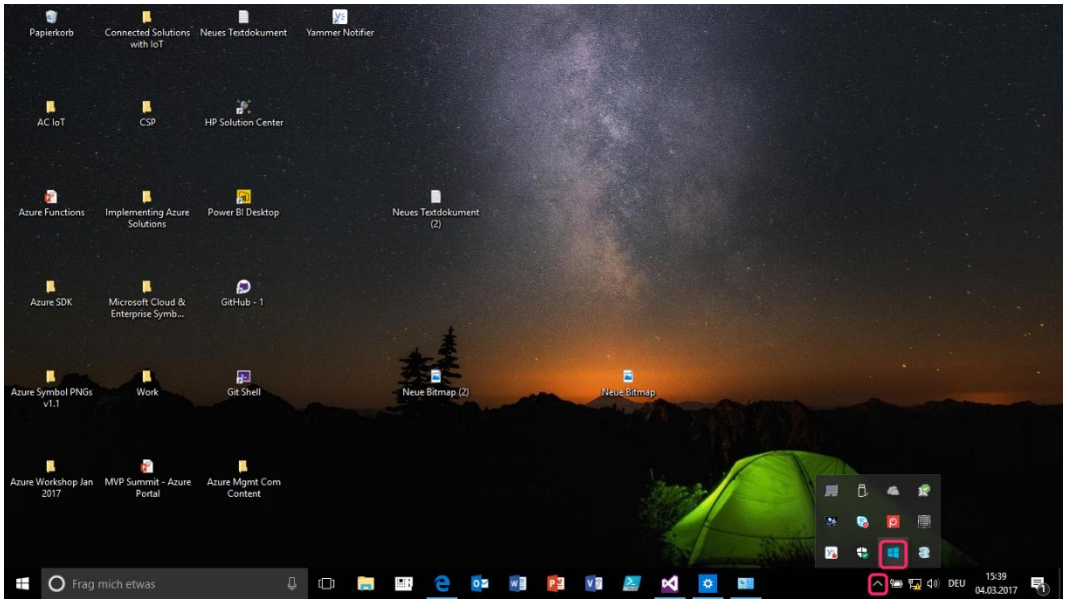
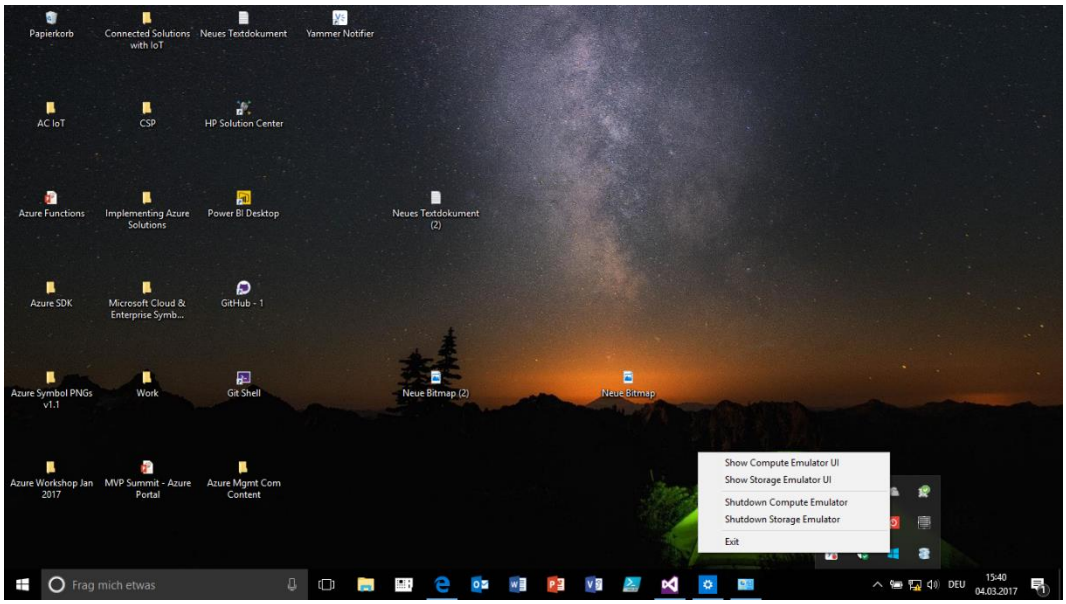
Name
Type
Endpoint1
Input
Endpoint2
Input
Ready
Frag mich etwas

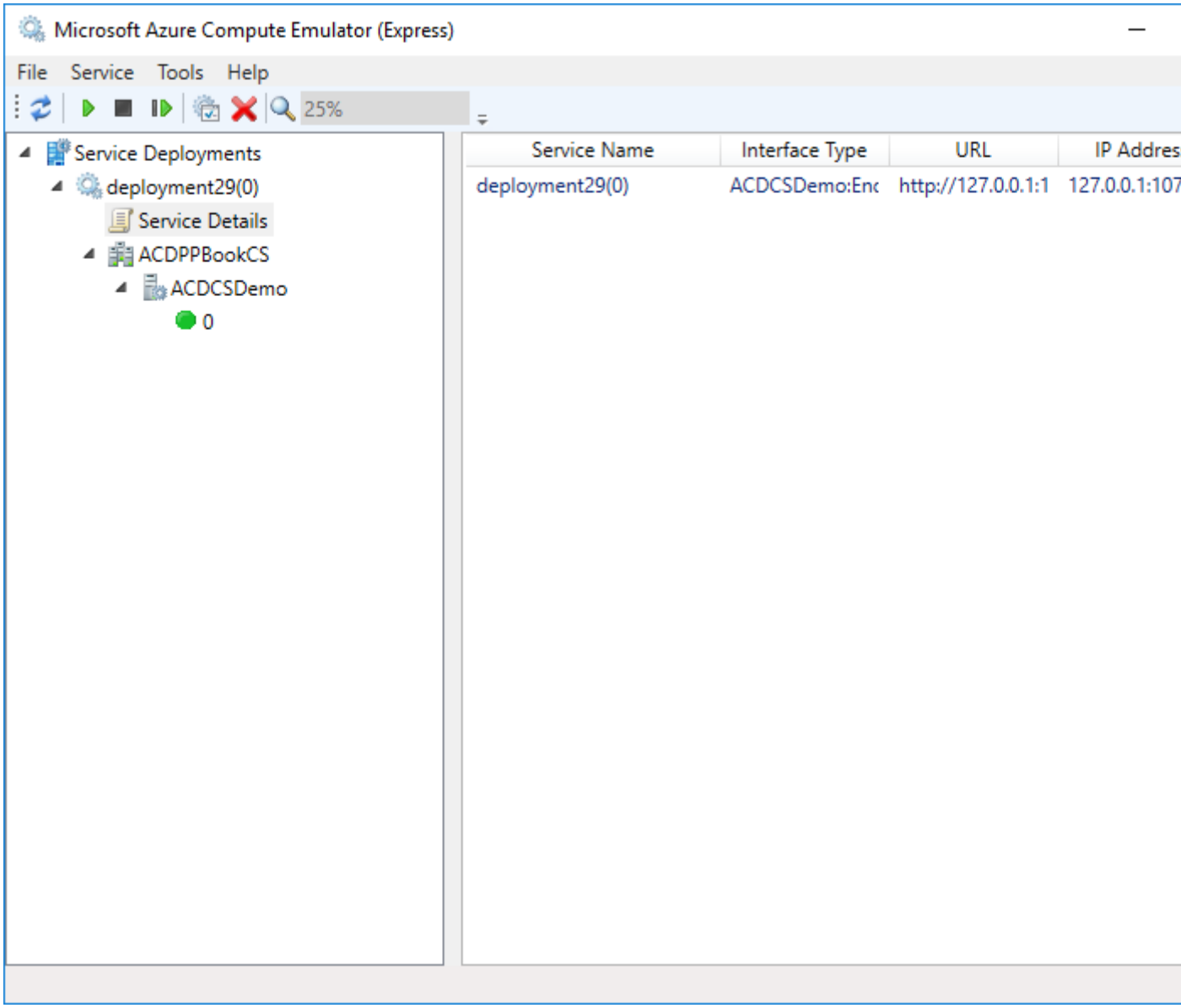

ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team XML Tools Architecture Test Analyze Window
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
ServiceDefinition.csdef*
ServiceConfiguration.Cloud.cscfg*
<?xml version="1.0" encoding="utf-8"?>
<ServiceDefinition name="ACDPPBookCS" xmlns="htt
<WebRole name="ACDCSDemo" vmsize="Small">
<Sites>
<Site name="Web">
<Bindings>
<Binding name="Endpoint2" endpointName
</Bindings>
</Site>
</Sites>
<ConfigurationSettings>
<Setting name="Microsoft.WindowsAzure.Plug
</ConfigurationSettings>
<Endpoints>
<InputEndpoint name="Endpoint2" protocol="
</Endpoints>
</WebRole>
</ServiceDefinition>
100 %
Ready
Ln 20
Frag mich etwas

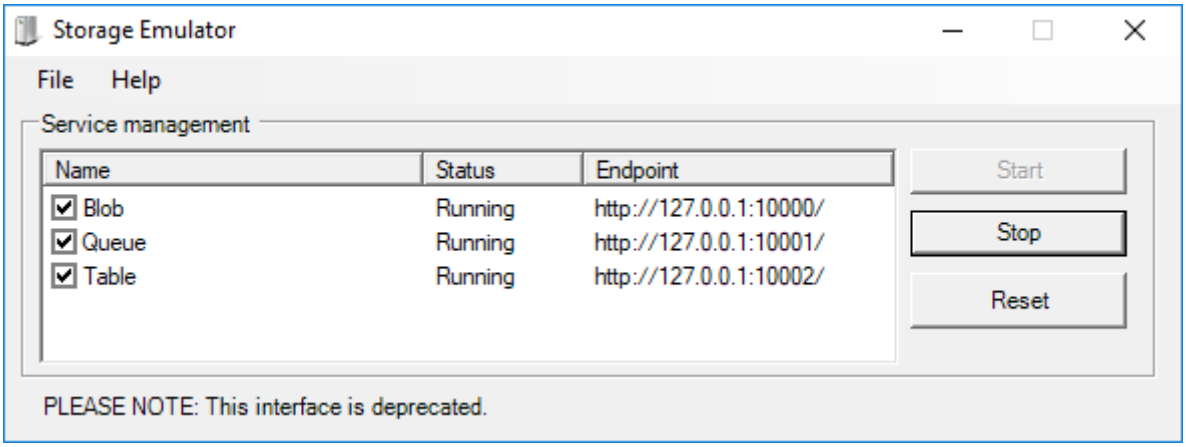

ACDPPBookCS - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Types
Search for resources
Collapse All
(Local)
Data Lake Analytics
Storage Accounts
Actions
Properties
What do you like about this tool?
What don't you like or feel is missing?
This item does not support previewing
Frag mich etwas

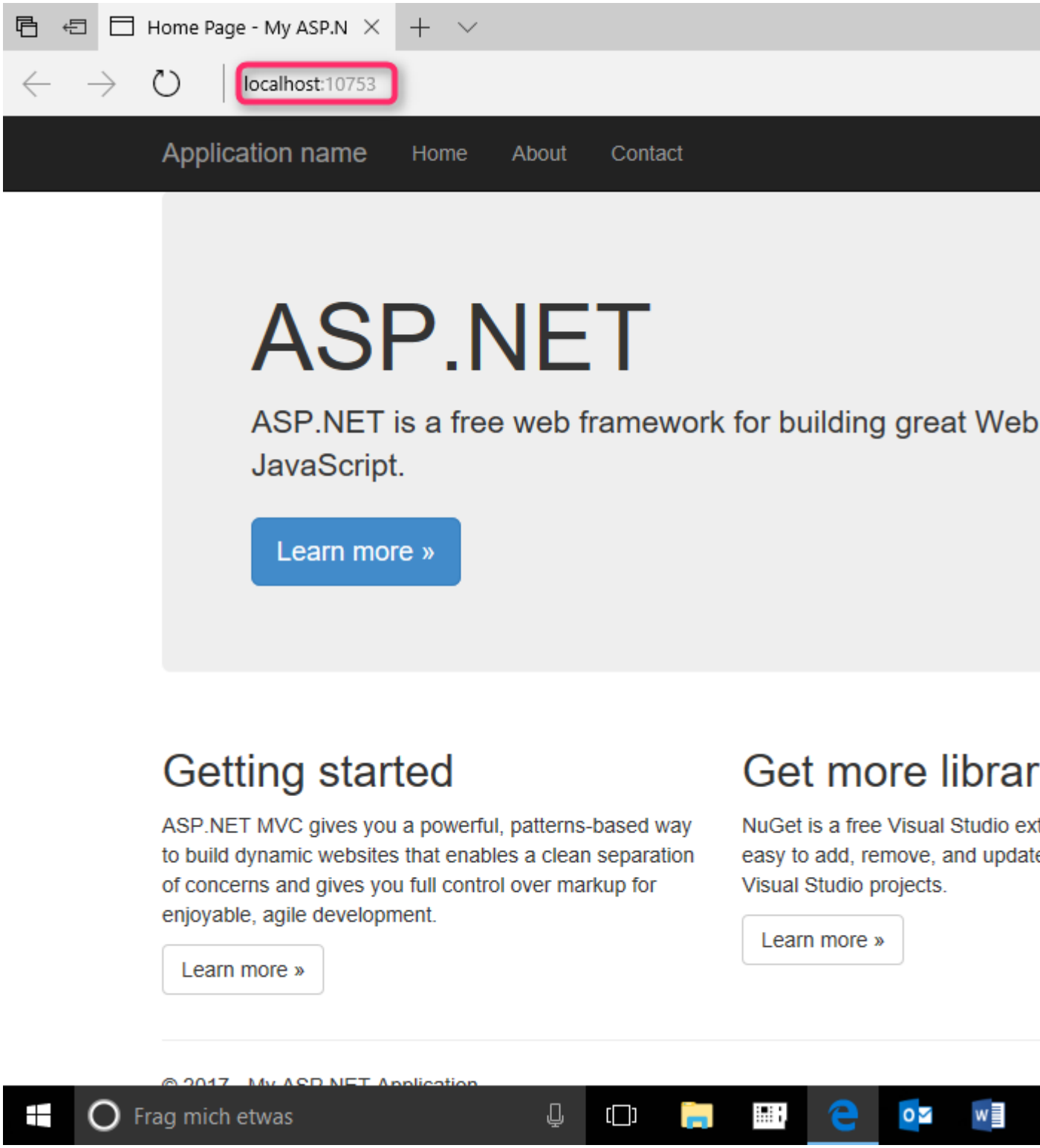

ACDPPBookCS - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Groups
Show resources from these subscriptions:
Work or school account
Oliver.Michalski@winsvrberlin.on...
We need to refresh the credentials for this account.
Reenter your credentials
Add an account...
Apply
Cancel
What do you like about this tool?
What don't you like or feel is missing?
Starting the Microsoft Azure Debugging Environment
Initializing the Microsoft Azure storage emulator ...
Do not show this dialog again.
Initializing the Microsoft Azure storage emulator ...
Frag mich etwas

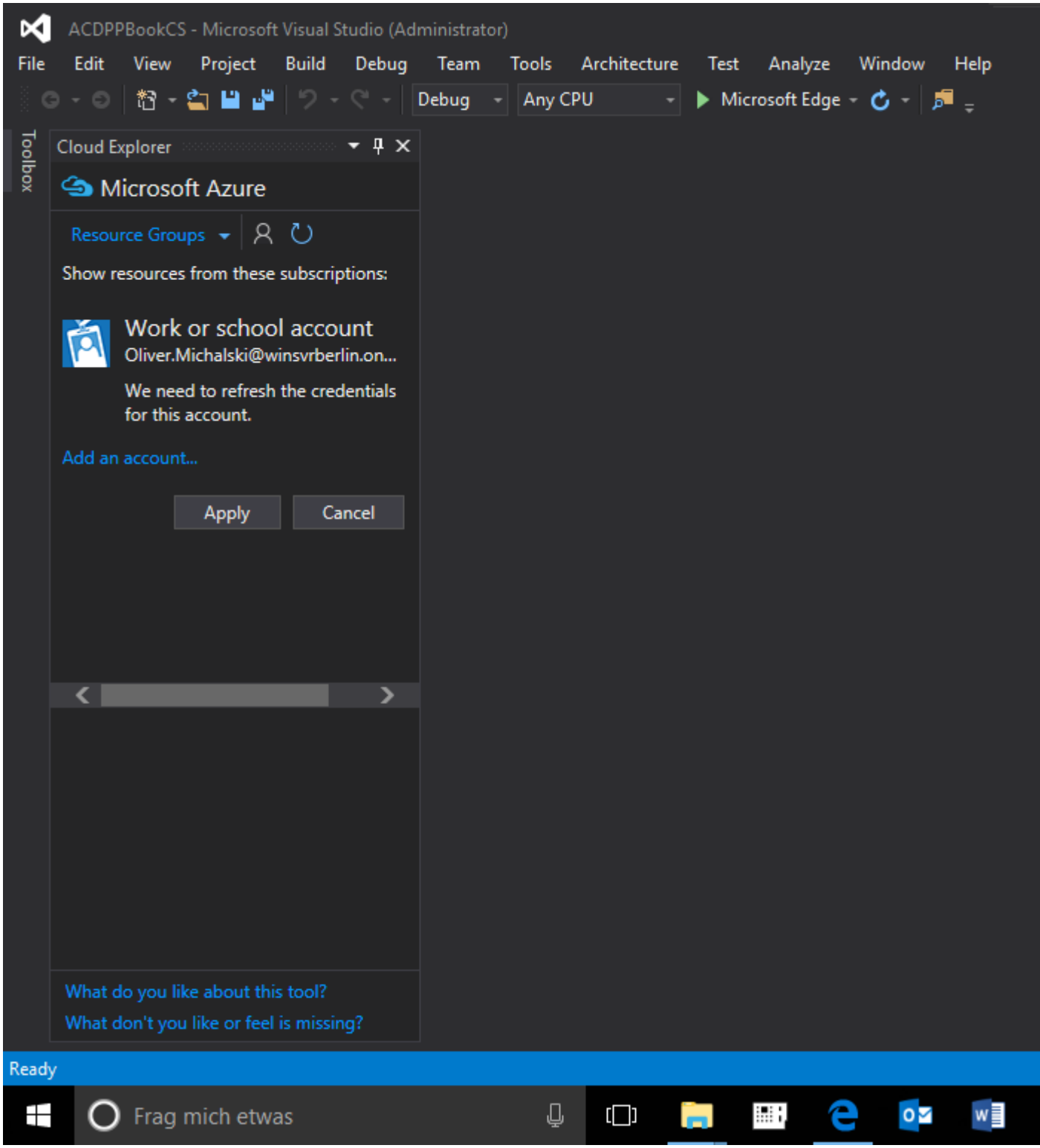

Papierkorb
Connected Solutions with IoT
Neues Textdokument
Yammer Notifier
AC IoT
CSP
HP Solution Center
Azure Functions
Implementing Azure Solutions
Power BI Desktop
Neues Textdokument (2)
Azure SDK
Microsoft Cloud & Enterprise Symb...
GitHub - 1
Azure Symbol PNGs v1.1
Work
Git Shell
Neue Bitmap (2)
Neue Bitmap
Azure Workshop Jan 2017
MVP Summit - Azure Portal
Azure Mgmt Com Content
Frag mich etwas
DEU
15:39
04.03.2017

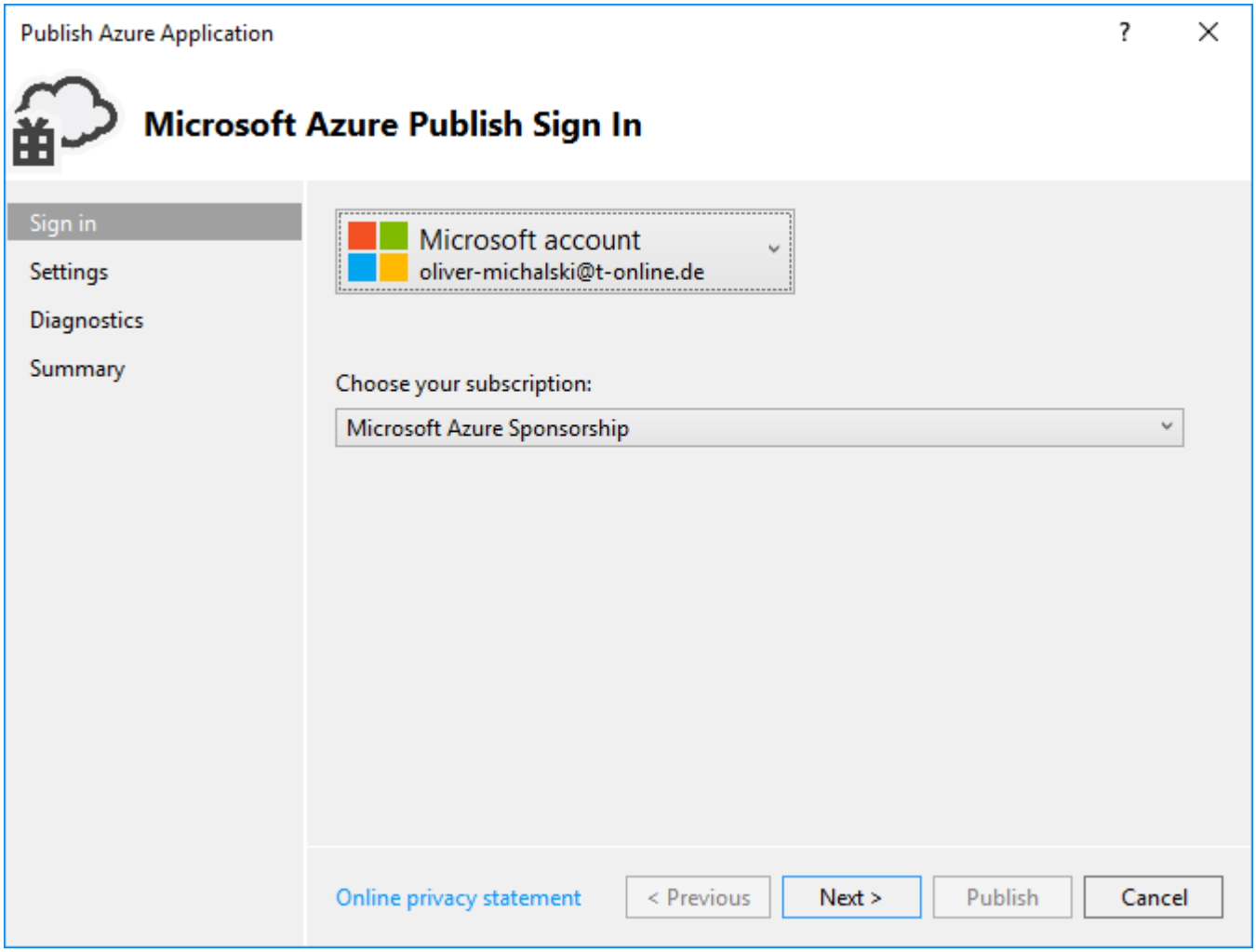

Papierkorb
Connected Solutions with IoT
Neues Textdokument
Yammer Notifier
AC IoT
CSP
HP Solution Center
Azure Functions
Implementing Azure Solutions
Power BI Desktop
Neues Textdokument (2)
Azure SDK
Microsoft Cloud & Enterprise Symb...
GitHub - 1
Azure Symbol PNGs v1.1
Work
Git Shell
Neue Bitmap (2)
Neue Bitmap
Azure Workshop Jan 2017
MVP Summit - Azure Portal
Azure Mgmt Com Content
Show Compute Emulator UI
Show Storage Emulator UI
Shutdown Compute Emulator
Shutdown Storage Emulator
Exit
Frag mich etwas
DEU
15:40
04.03.2017

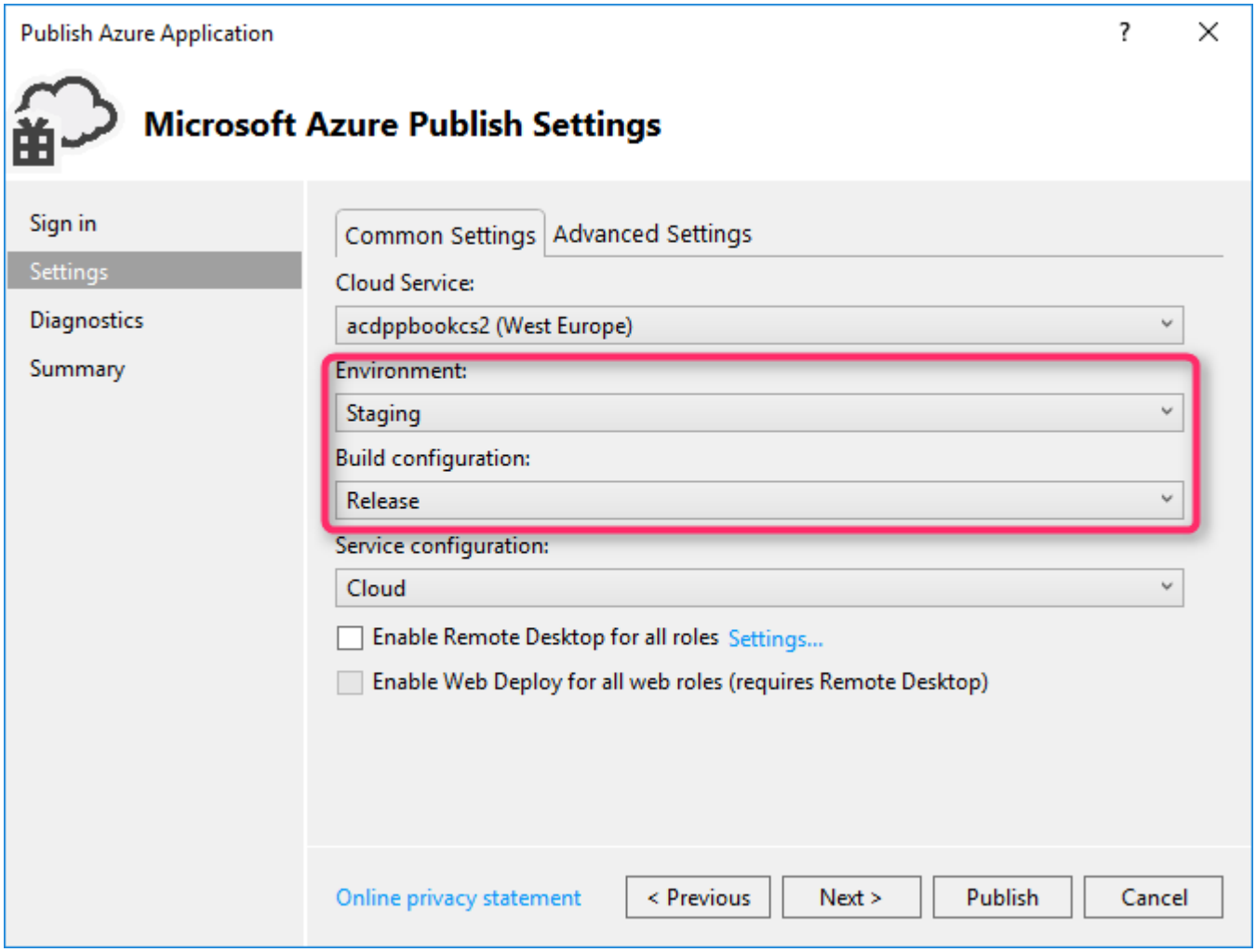

Microsoft Azure Compute Emulator (Express)
File
Service
Tools
Help
25%
Service Deployments
deployment29(0)
Service Details
ACDPPBookCS
ACDCSDemo
0
Service Name
Interface Type
URL
IP Addres
deployment29(0)
ACDCSDemo:Enc
http://127.0.0.1:1
127.0.0.1:107

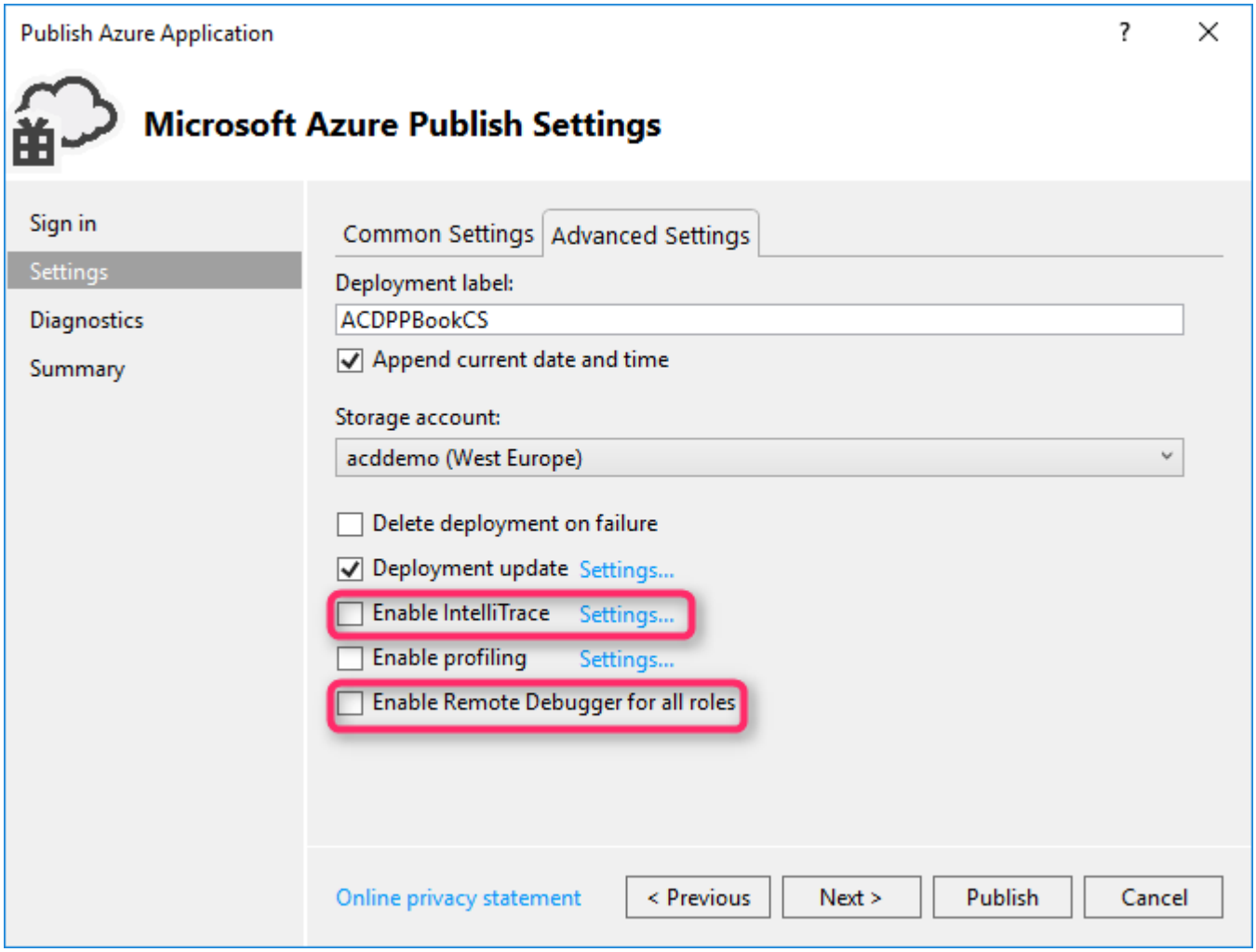

Storage Emulator
File
Help
Service management
Name
Status
Endpoint
Blob
Running
http://127.0.0.1:10000/
Queue
Running
http://127.0.0.1:10001/
Table
Running
http://127.0.0.1:10002/
Start
Stop
Reset
PLEASE NOTE: This interface is deprecated.

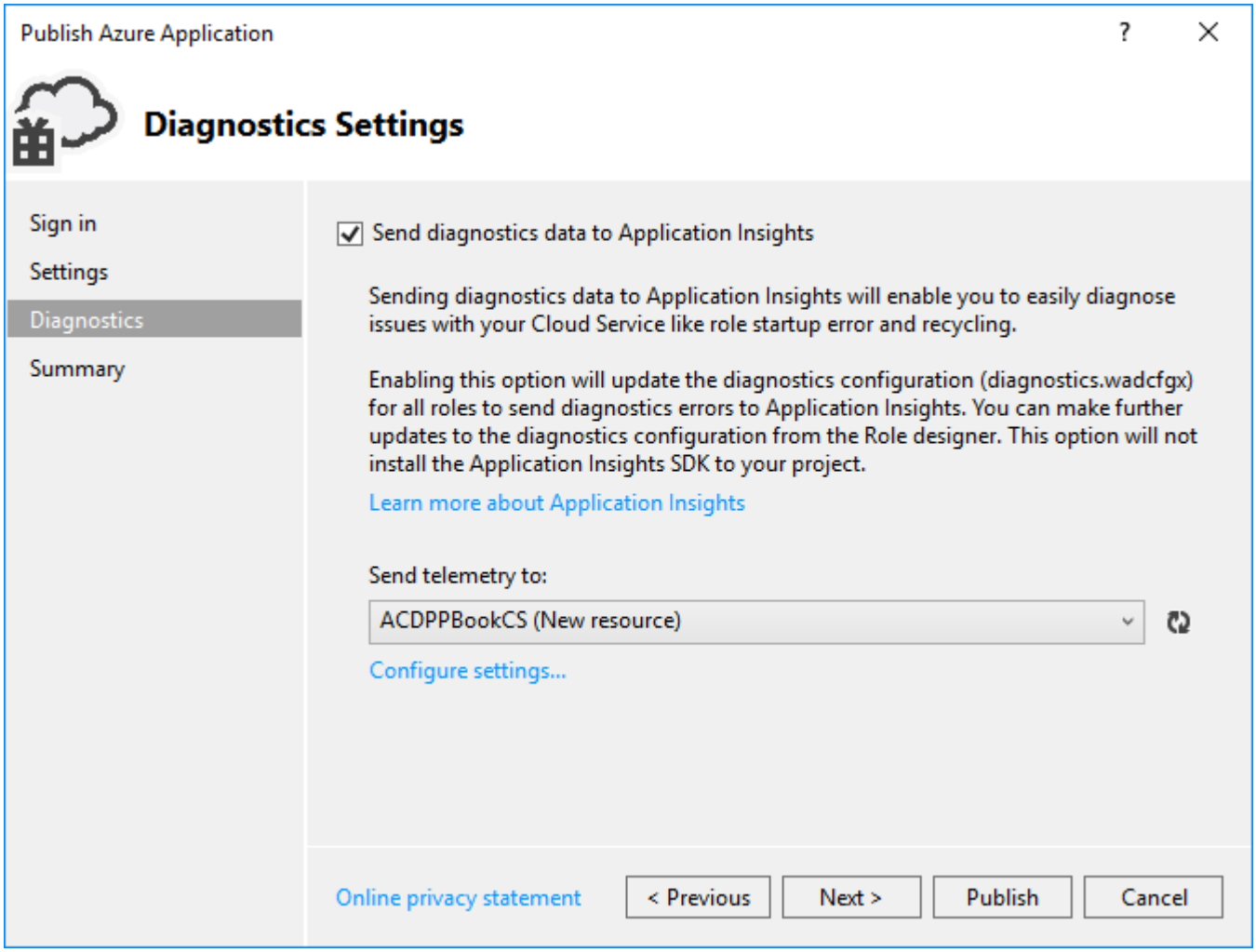

Home Page - My ASP.N
localhost:10753
Application name
Home
About
Contact
ASP.NET
ASP.NET is a free web framework for building great Web
JavaScript.
Learn more »
Getting started
ASP.NET MVC gives you a powerful, patterns-based way to build dynamic websites that enables a clean separation of concerns and gives you full control over markup for enjoyable, agile development.
Learn more »
Get more librar
NuGet is a free Visual Studio ex
easy to add, remove, and update
Visual Studio projects.
Learn more »
Frag mich etwas

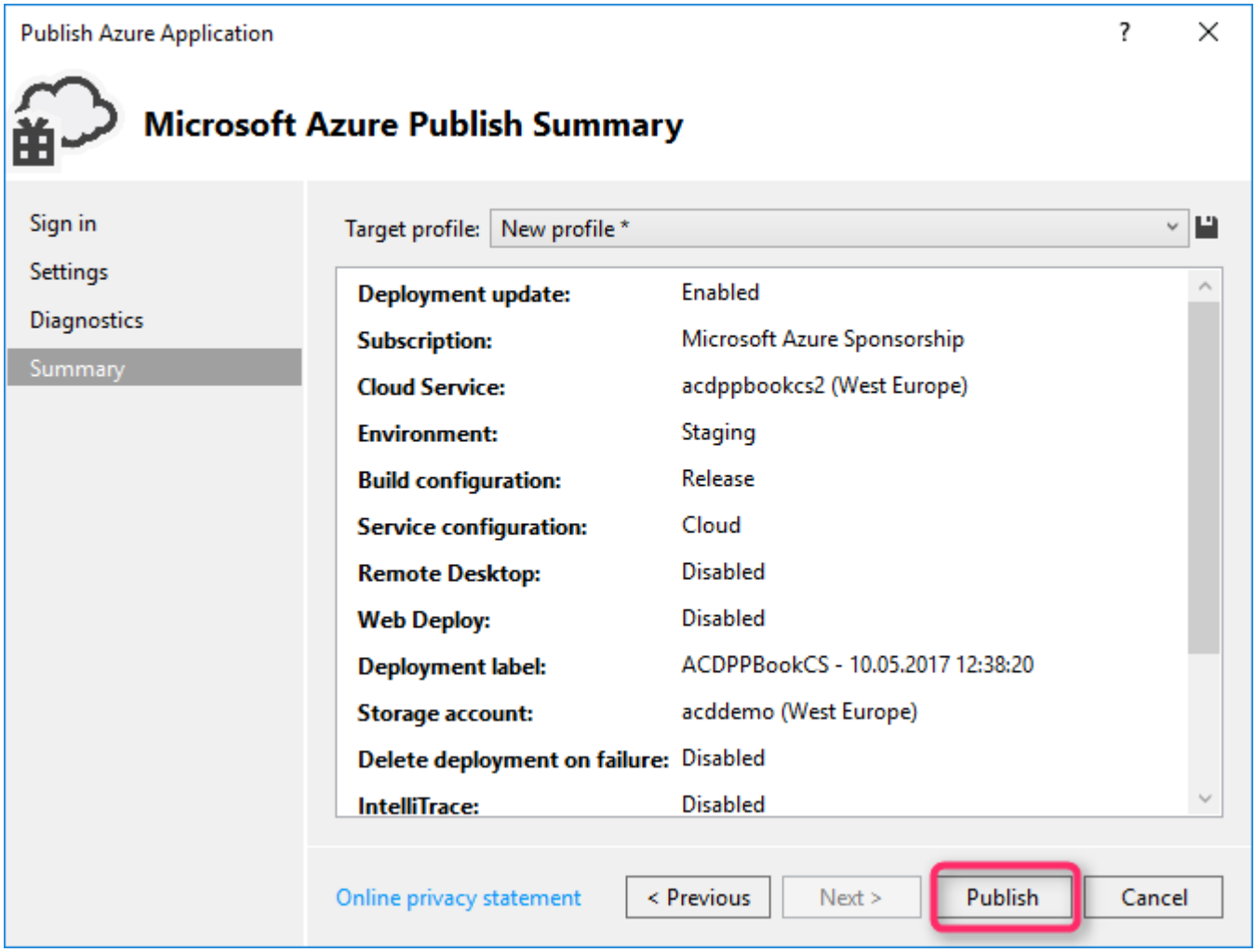

ACDPPBookCS - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Groups
Show resources from these subscriptions:
Work or school account
Oliver.Michalski@winsvrberlin.on...
We need to refresh the credentials for this account.
Add an account...
Apply
Cancel
What do you like about this tool?
What don't you like or feel is missing?
Ready
Frag mich etwas

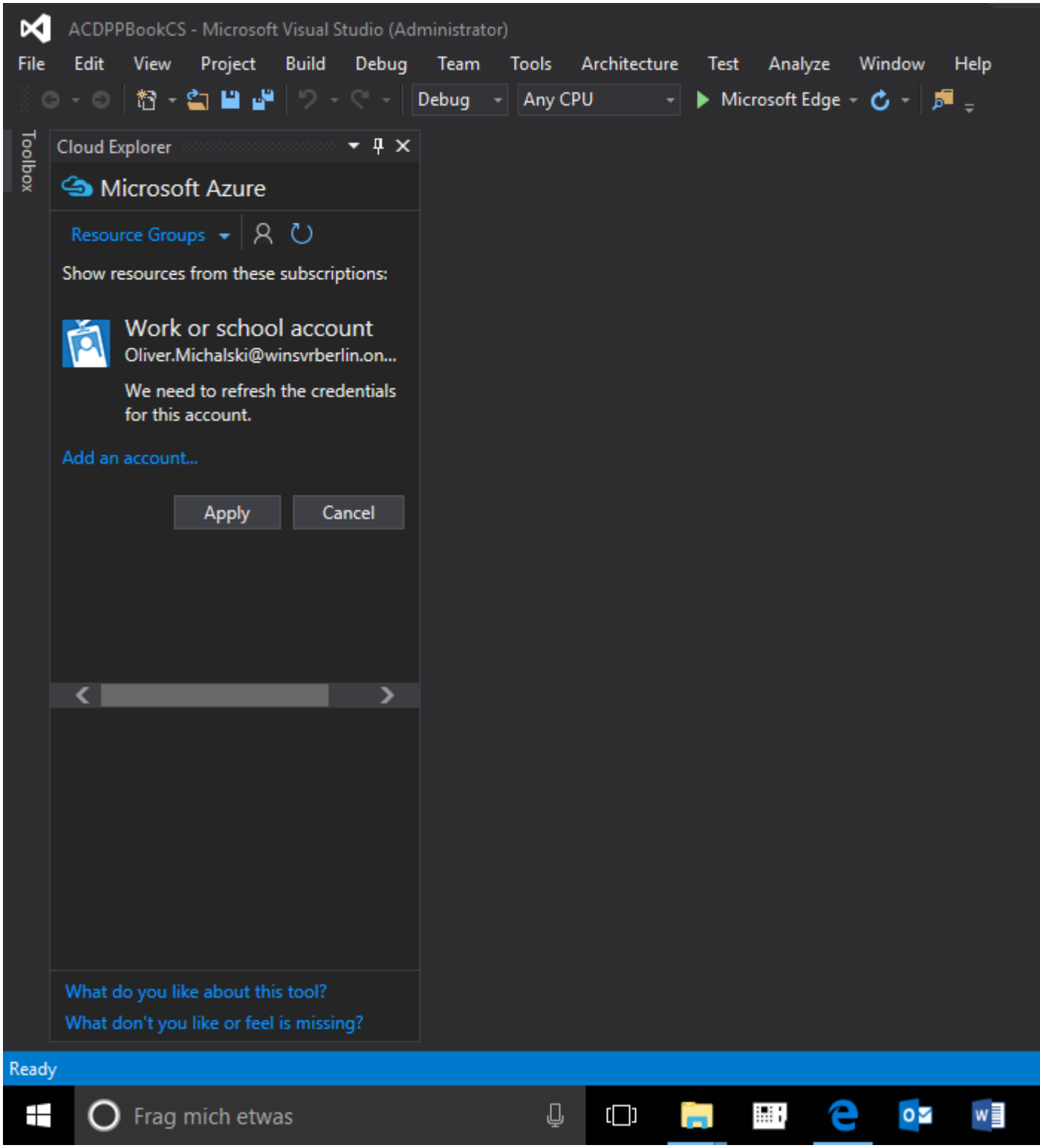

Publish Azure Application
Microsoft Azure Publish Sign In
Sign in
Settings
Diagnostics
Summary
Microsoft account
oliver-michalski@t-online.de
Choose your subscription:
Microsoft Azure Sponsorship
Online privacy statement
< Previous
Next >
Publish
Cancel

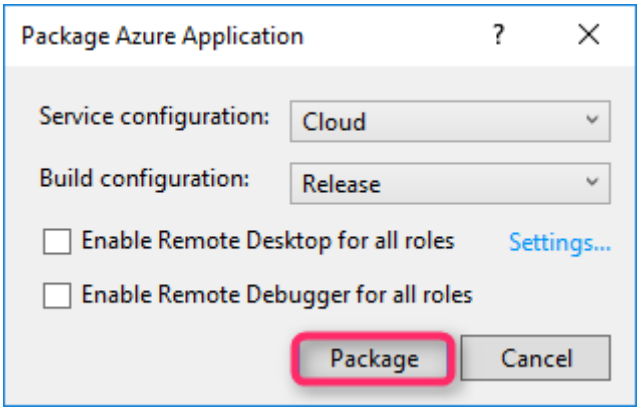

Publish Azure Application
Microsoft Azure Publish Settings
Sign in
Settings
Diagnostics
Summary
Common Settings
Advanced Settings
Cloud Service:
acdppbookcs2 (West Europe)
Environment:
Staging
Build configuration:
Release
Service configuration:
Cloud
Enable Remote Desktop for all roles
Settings...
Enable Web Deploy for all web roles (requires Remote Desktop)
Online privacy statement
< Previous
Next >
Publish
Cancel

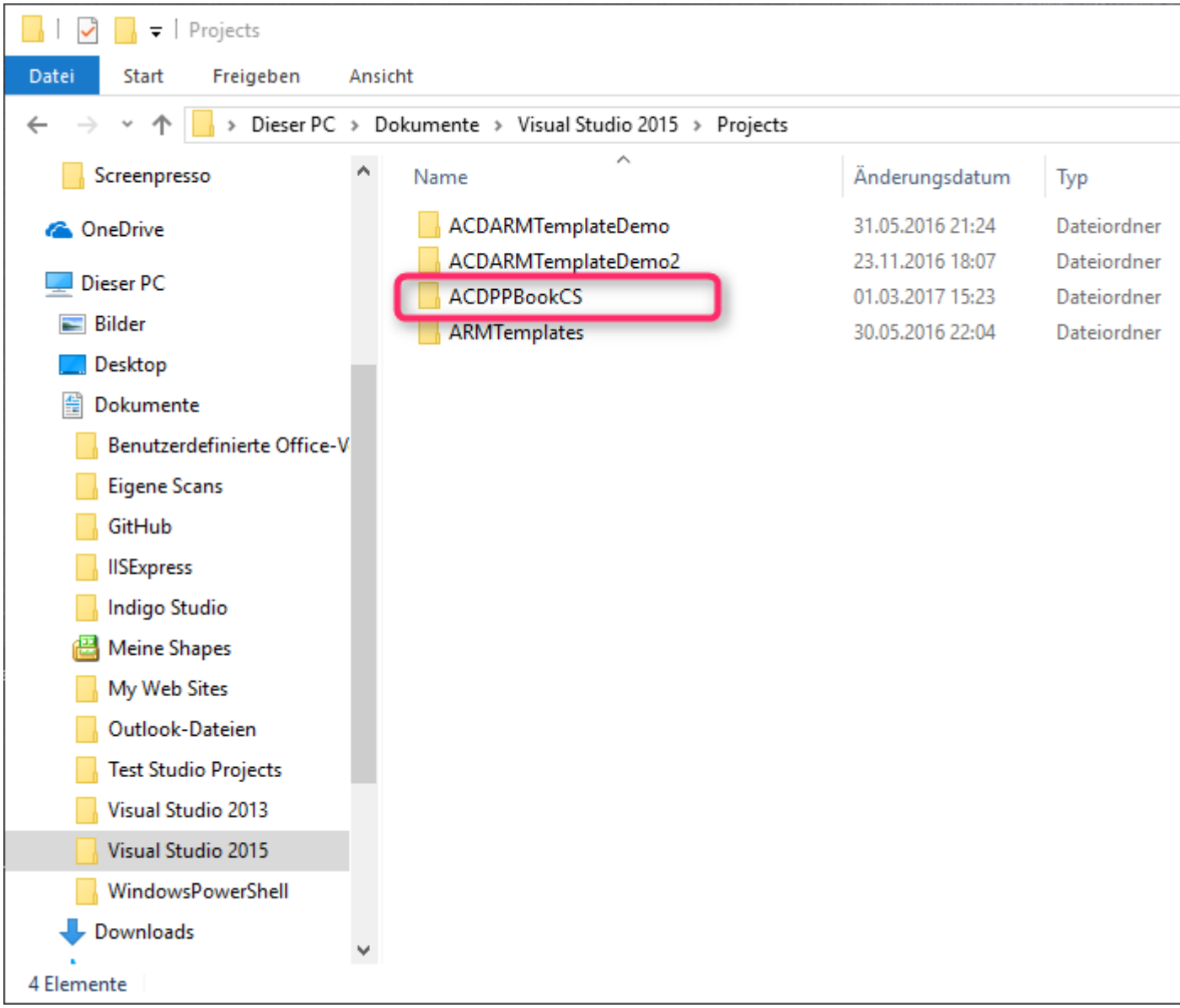

Publish Azure Application
Microsoft Azure Publish Settings
Sign in
Settings
Diagnostics
Summary
Common Settings
Advanced Settings
Deployment label:
ACDPPBookCS
Append current date and time
Storage account:
acddemo (West Europe)
Delete deployment on failure
Deployment update Settings...
Enable IntelliTrace Settings...
Enable profiling Settings...
Enable Remote Debugger for all roles
Online privacy statement
< Previous
Next >
Publish
Cancel

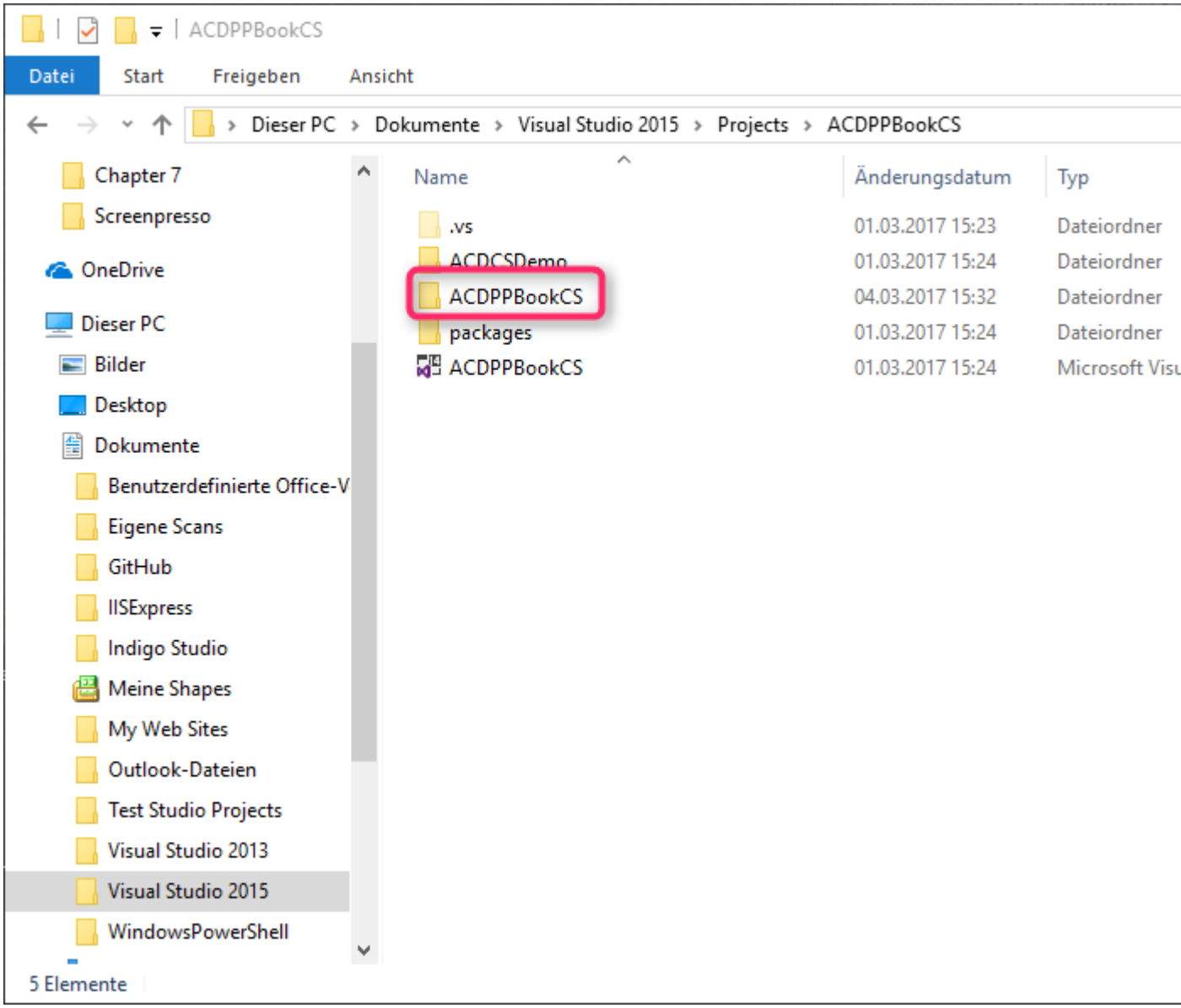

Publish Azure Application
Diagnostics Settings
Sign in
Settings
Diagnostics
Summary
Send diagnostics data to Application Insights
Sending diagnostics data to Application Insights will enable you to easily diagnose issues with your Cloud Service like role startup error and recycling.
Enabling this option will update the diagnostics configuration (diagnostics.wadcfgx) for all roles to send diagnostics errors to Application Insights. You can make further updates to the diagnostics configuration from the Role designer. This option will not install the Application Insights SDK to your project.
Learn more about Application Insights
Send telemetry to:
ACDPPBookCS (New resource)
Configure settings...
Online privacy statement
< Previous
Next >
Publish
Cancel

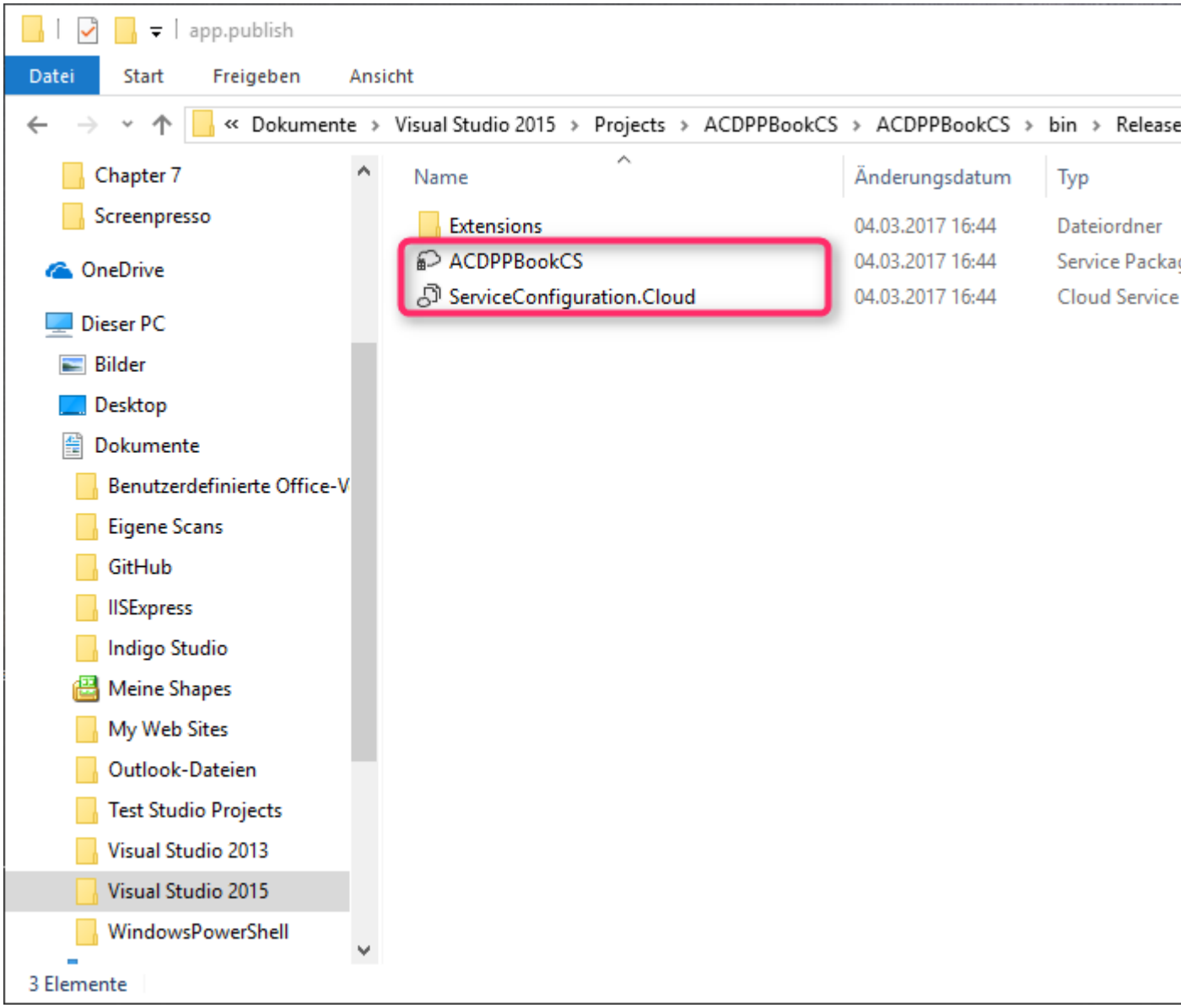

Publish Azure Application
Microsoft Azure Publish Summary
Sign in
Settings
Diagnostics
Summary
Target profile:
New profile *
Deployment update:
Enabled
Subscription:
Microsoft Azure Sponsorship
Cloud Service:
acdppbookcs2 (West Europe)
Environment:
Staging
Build configuration:
Release
Service configuration:
Cloud
Remote Desktop:
Disabled
Web Deploy:
Disabled
Deployment label:
ACDPPBookCS - 10.05.2017 12:38:20
Storage account:
acddemo (West Europe)
Delete deployment on failure:
Disabled
IntelliTrace:
Disabled
Online privacy statement
< Previous
Next >
Publish
Cancel

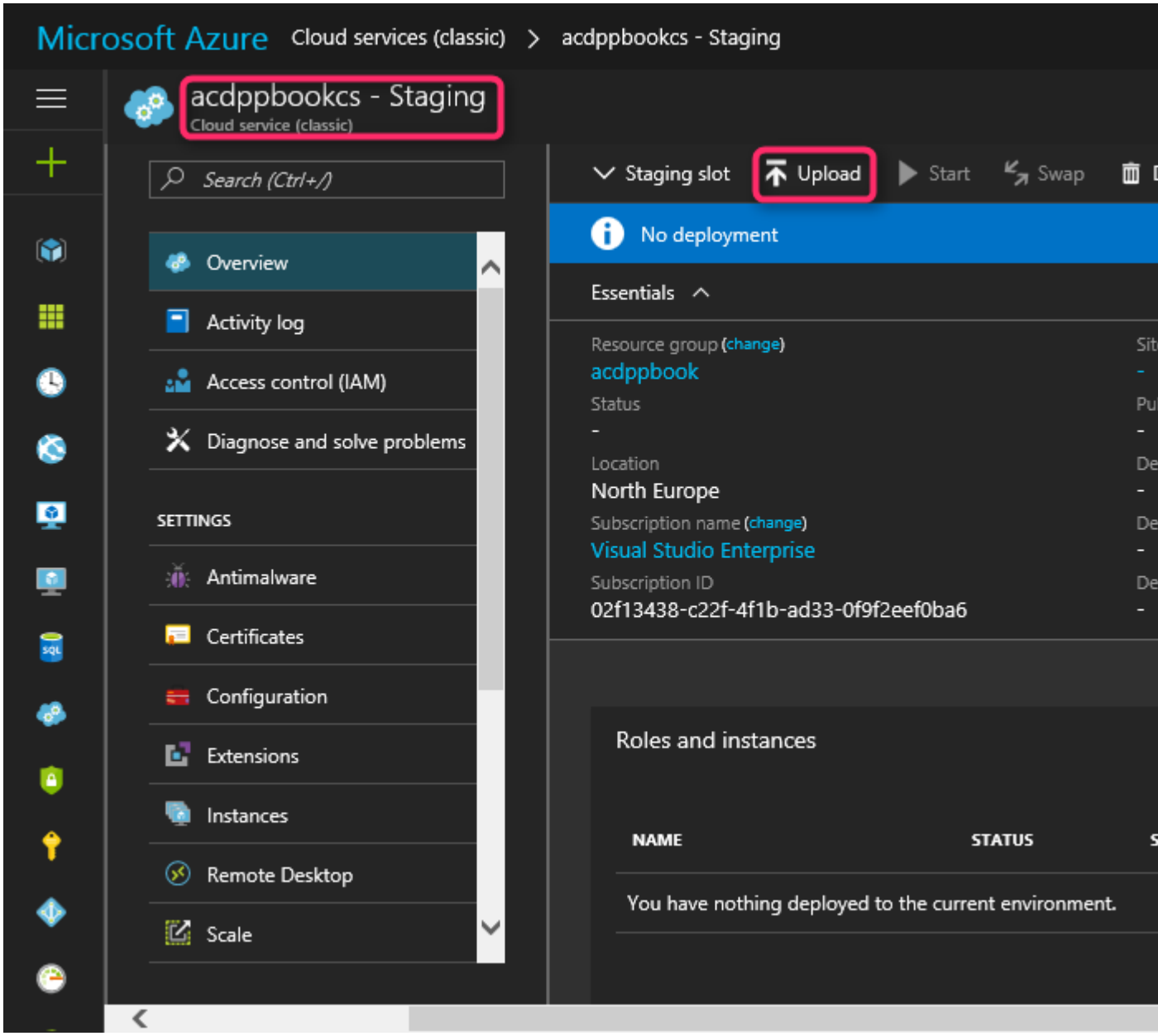

ACDPPBookCS - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help
Debug
Any CPU
Microsoft Edge
Toolbox
Cloud Explorer
Microsoft Azure
Resource Groups
Show resources from these subscriptions:
Work or school account
Oliver.Michalski@winsvrberlin.on...
We need to refresh the credentials for this account.
Add an account...
Apply
Cancel
What do you like about this tool?
What don't you like or feel is missing?
Ready
Frag mich etwas

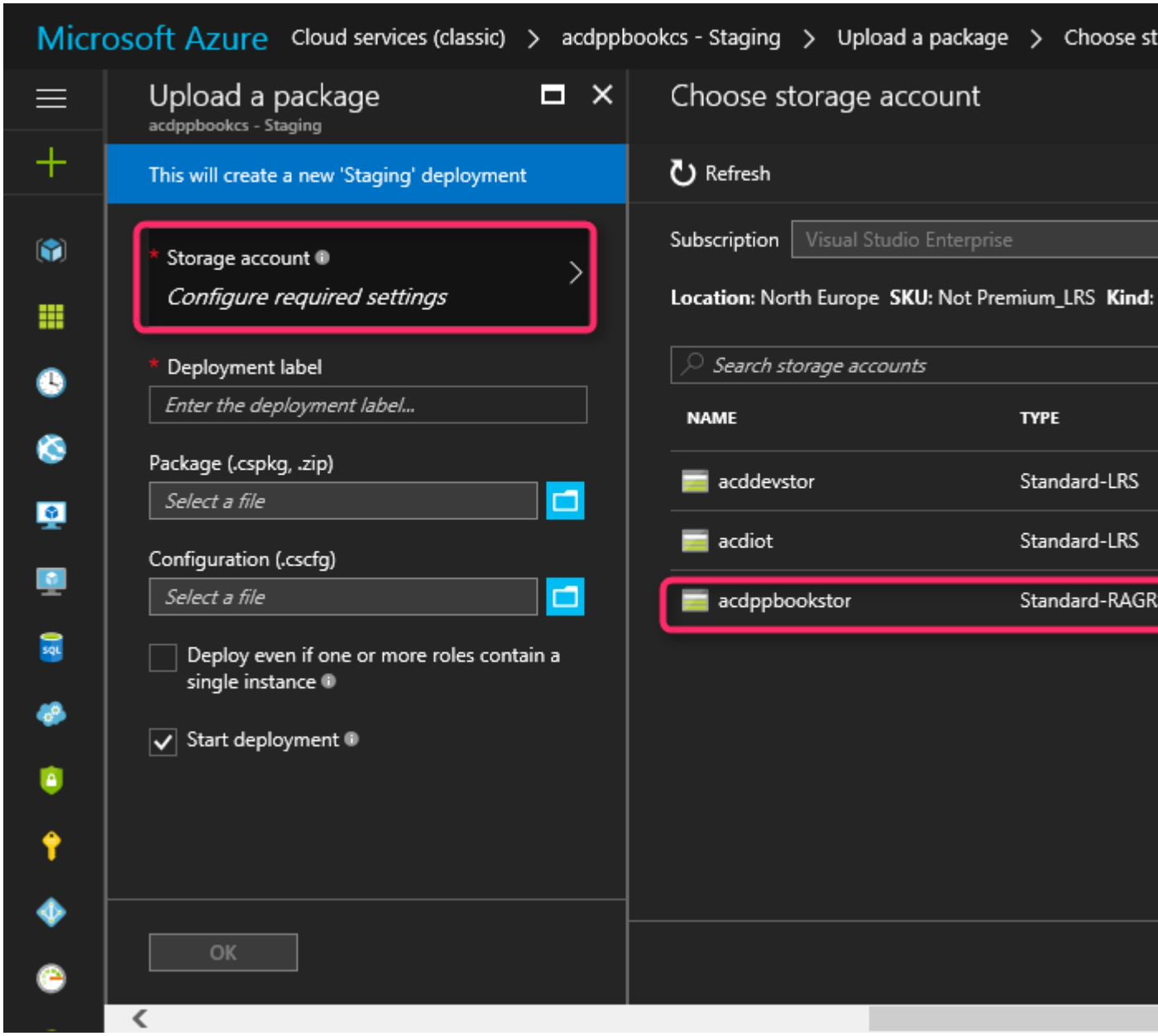

Package Azure Application
Service configuration:
Cloud
Build configuration:
Release
Enable Remote Desktop for all roles
Settings...
Enable Remote Debugger for all roles
Package
Cancel

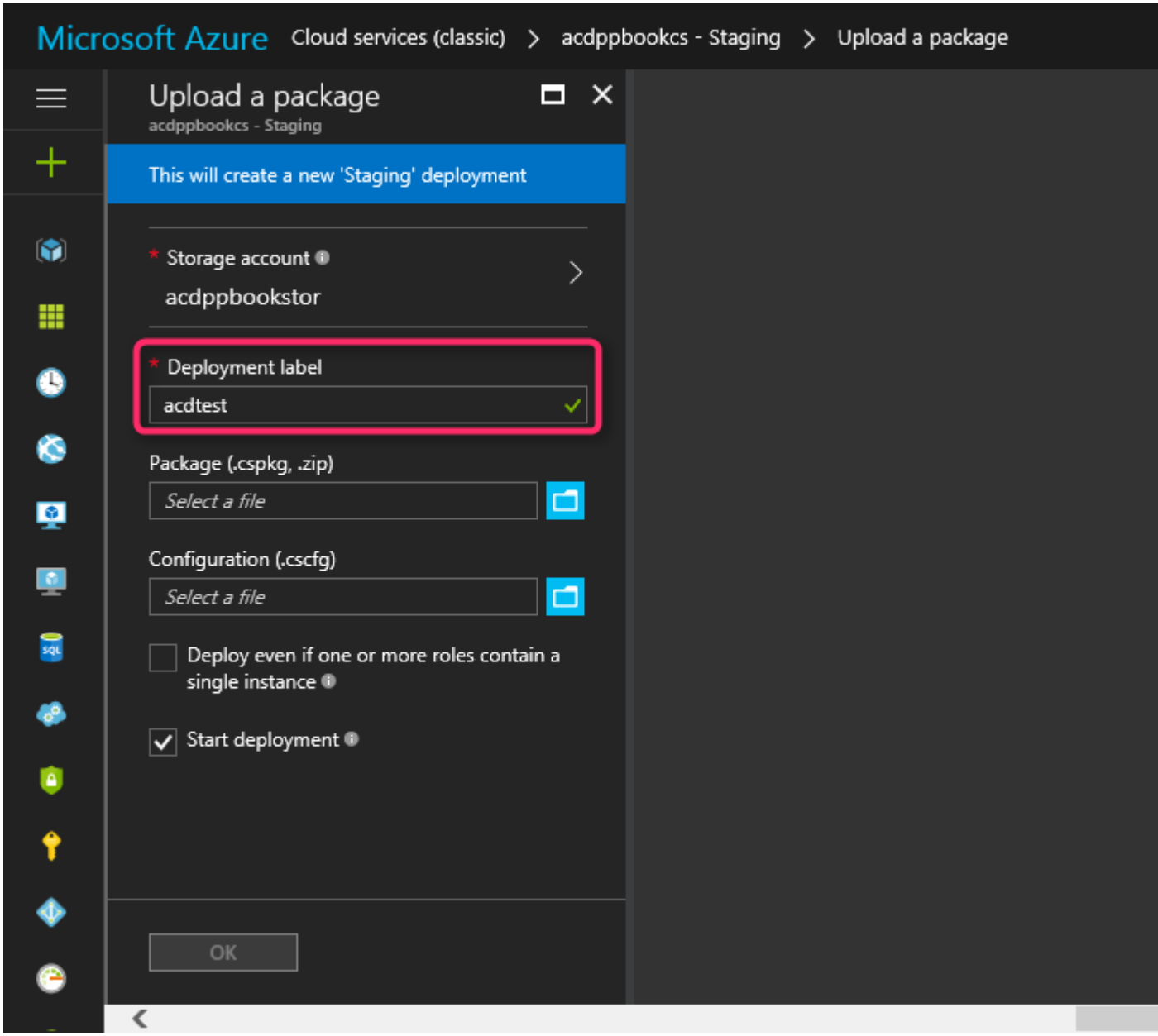

Projects
Datei
Start
Freigeben
Ansicht
Dieser PC
Dokumente
Visual Studio 2015
Projects
Screenpresso
OneDrive
Dieser PC
Bilder
Desktop
Dokumente
Benutzerdefinierte Office-V
Eigene Scans
GitHub
IISExpress
Indigo Studio
Meine Shapes
My Web Sites
Outlook-Dateien
Test Studio Projects
Visual Studio 2013
Visual Studio 2015
WindowsPowerShell
Downloads
4 Elemente
Name
Änderungsdatum
Typ
ACDARMTemplateDemo
31.05.2016 21:24
Dateiordner
ACDARMTemplateDemo2
23.11.2016 18:07
Dateiordner
ACDPPBookCS
01.03.2017 15:23
Dateiordner
ARMTemplates
30.05.2016 22:04
Dateiordner

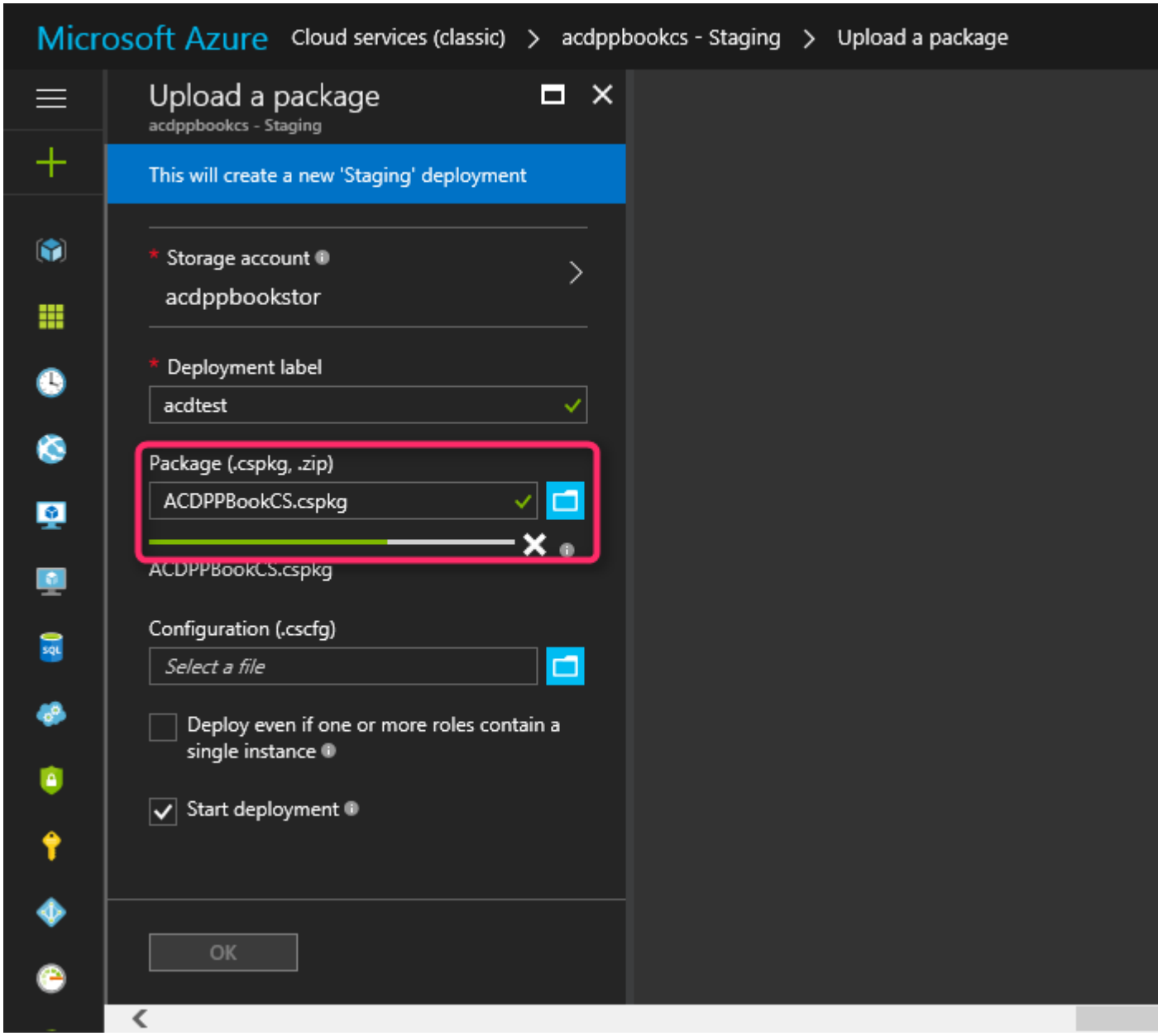

ACDPPBookCS
Datei
Start
Freigeben
Ansicht
Dieser PC › Dokumente › Visual Studio 2015 › Projects › ACDPPBookCS
Chapter 7
Screenpresso
OneDrive
Dieser PC
Bilder
Desktop
Dokumente
Benutzerdefinierte Office-V
Eigene Scans
GitHub
IISExpress
Indigo Studio
Meine Shapes
My Web Sites
Outlook-Dateien
Test Studio Projects
Visual Studio 2013
Visual Studio 2015
WindowsPowerShell
5 Elemente
Name
Änderungsdatum
Typ
.vs
01.03.2017 15:23
Dateiordner
ACDCSDemo
01.03.2017 15:24
Dateiordner
ACDPPBookCS
04.03.2017 15:32
Dateiordner
packages
01.03.2017 15:24
Dateiordner
ACDPPBookCS
01.03.2017 15:24
Microsoft Visu

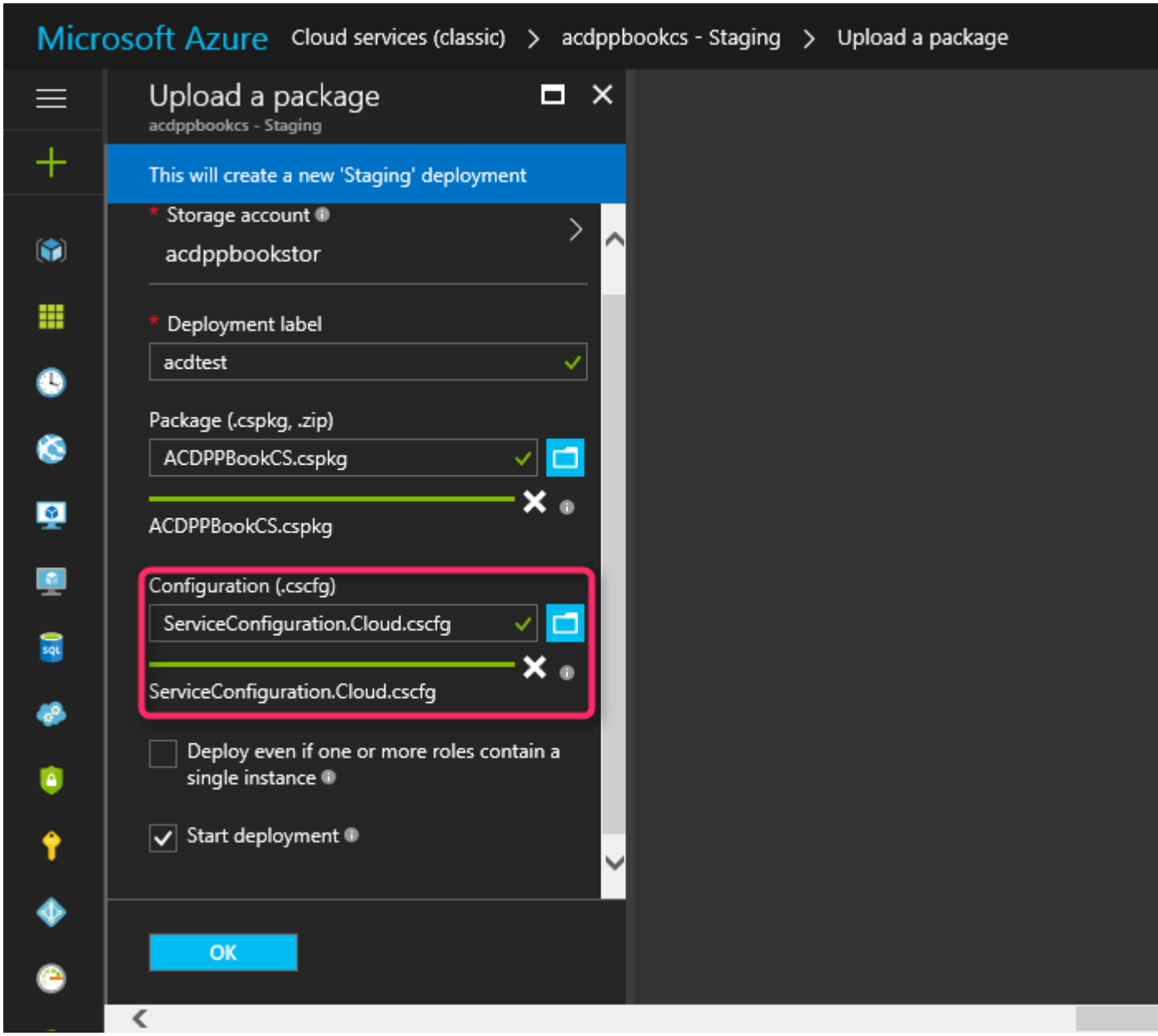

app.publish
Datei
Start
Freigeben
Ansicht
« Dokumente › Visual Studio 2015 › Projects › ACDPPBookCS › ACDPPBookCS › bin › Release
Chapter 7
Screenpresso
OneDrive
Dieser PC
Bilder
Desktop
Dokumente
Benutzerdefinierte Office-V
Eigene Scans
GitHub
IISExpress
Indigo Studio
Meine Shapes
My Web Sites
Outlook-Dateien
Test Studio Projects
Visual Studio 2013
Visual Studio 2015
WindowsPowerShell
3 Elemente
Name
Änderungsdatum
Typ
Extensions
04.03.2017 16:44
Dateiordner
ACDPPBookCS
04.03.2017 16:44
ServiceConfiguration.Cloud
04.03.2017 16:44
Cloud Service

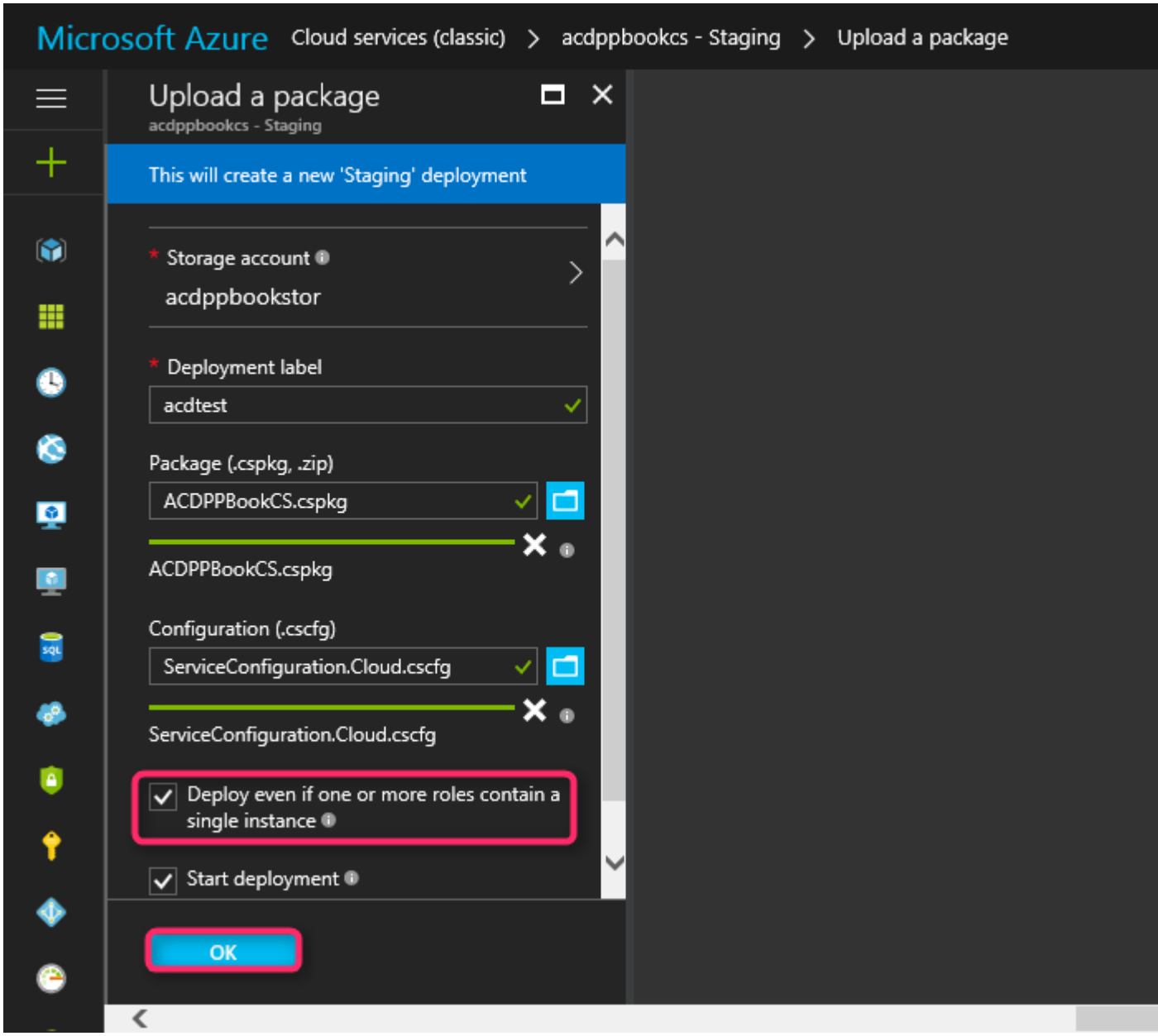

Microsoft Azure
Cloud services (classic) > acdppbookcs - Staging
acdppbookcs - Staging
Cloud service (classic)
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Diagnose and solve problems
SETTINGS
Antimalware
Certificates
Configuration
Extensions
Instances
Remote Desktop
Scale
Staging slot
Upload
Start
Swap
No deployment
Essentials
Resource group (change)
acdppbook
Status
-
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
Roles and instances
NAME
STATUS
You have nothing deployed to the current environment.

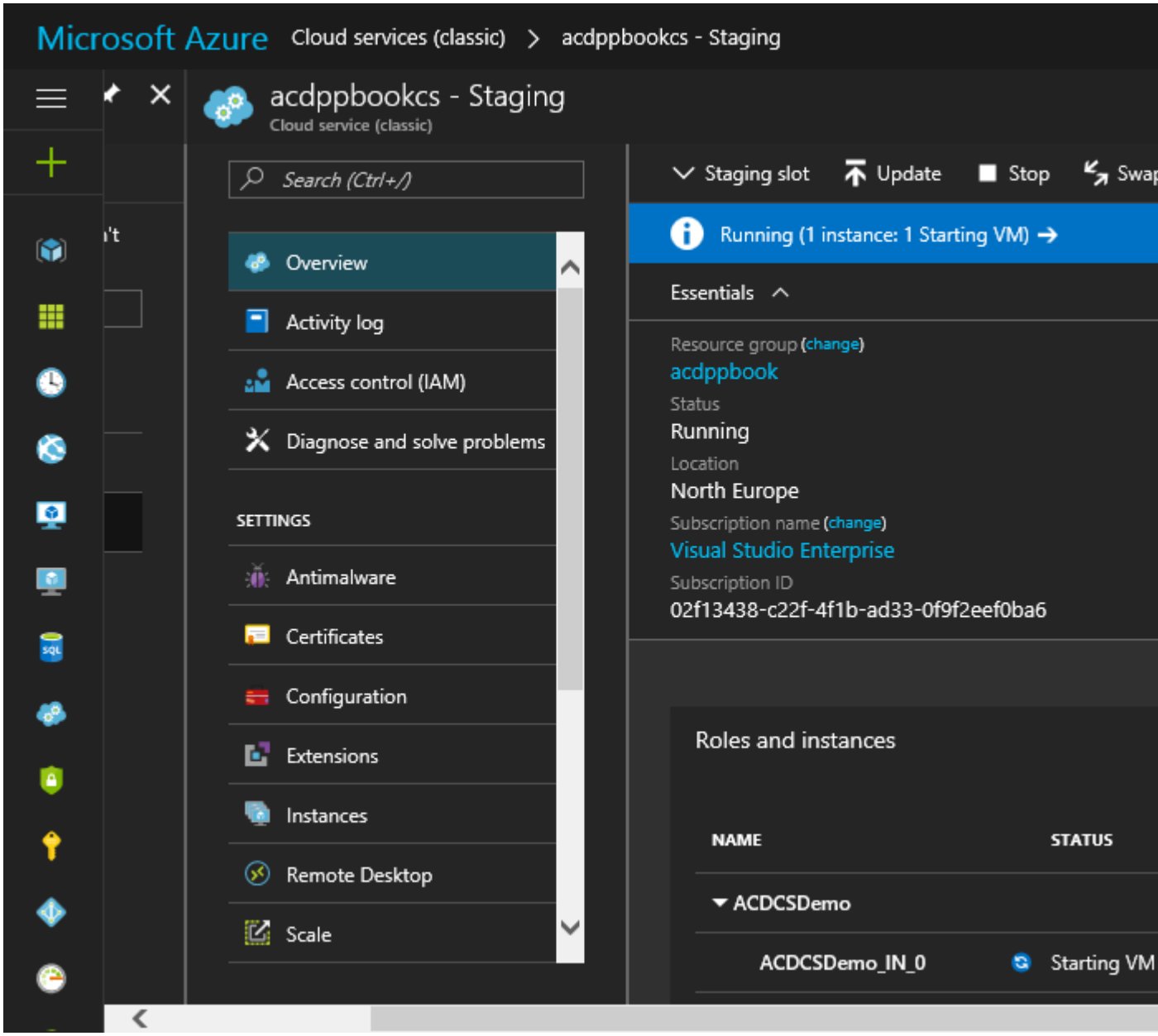

Microsoft Azure
Cloud services (classic)
acdppbookcs - Staging
Upload a package
Choose st
Upload a package
acdppbookcs - Staging
This will create a new 'Staging' deployment
* Storage account
Configure required settings
* Deployment label
Enter the deployment label...
Package (.cspkg, .zip)
Select a file
Configuration (.cscfg)
Select a file
Deploy even if one or more roles contain a single instance
Start deployment
OK
Choose storage account
Refresh
Subscription
Visual Studio Enterprise
Location: North Europe SKU: Not Premium_LRS Kind:
Search storage accounts
NAME
TYPE
acddevstor
Standard-LRS
acdiot
Standard-LRS
acdppbookstor
Standard-RAGR


Microsoft Azure
Cloud services (classic)
acdppbookcs - Staging
Upload a package
Upload a package
acdppbookcs - Staging
This will create a new 'Staging' deployment
* Storage account
acdppbookstor
* Deployment label
acdtest
Package (.cspkg, .zip)
Select a file
Configuration (.cscfg)
Select a file
Deploy even if one or more roles contain a single instance
Start deployment
OK

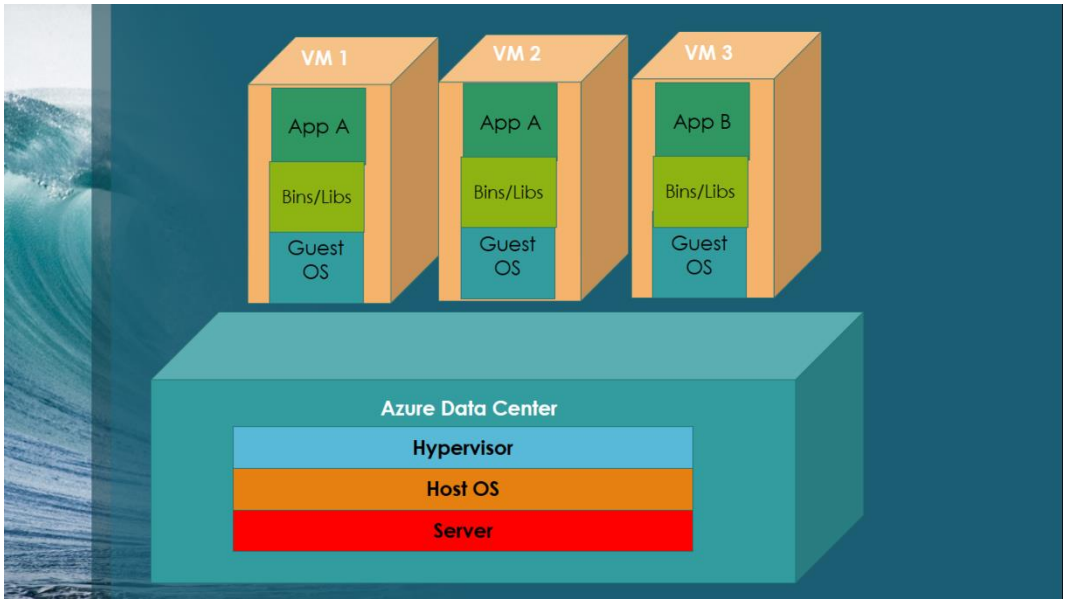

Microsoft Azure
Cloud services (classic)
acdppbookcs - Staging
Upload a package
Upload a package
acdppbookcs - Staging
This will create a new 'Staging' deployment
* Storage account
acdppbookstor
* Deployment label
acdtest
Package (.cspkg, .zip)
ACDPPBookCS.cspkg
ACDPPBookCS.cspkg
Configuration (.cscfg)
Select a file
Deploy even if one or more roles contain a single instance
Start deployment
OK

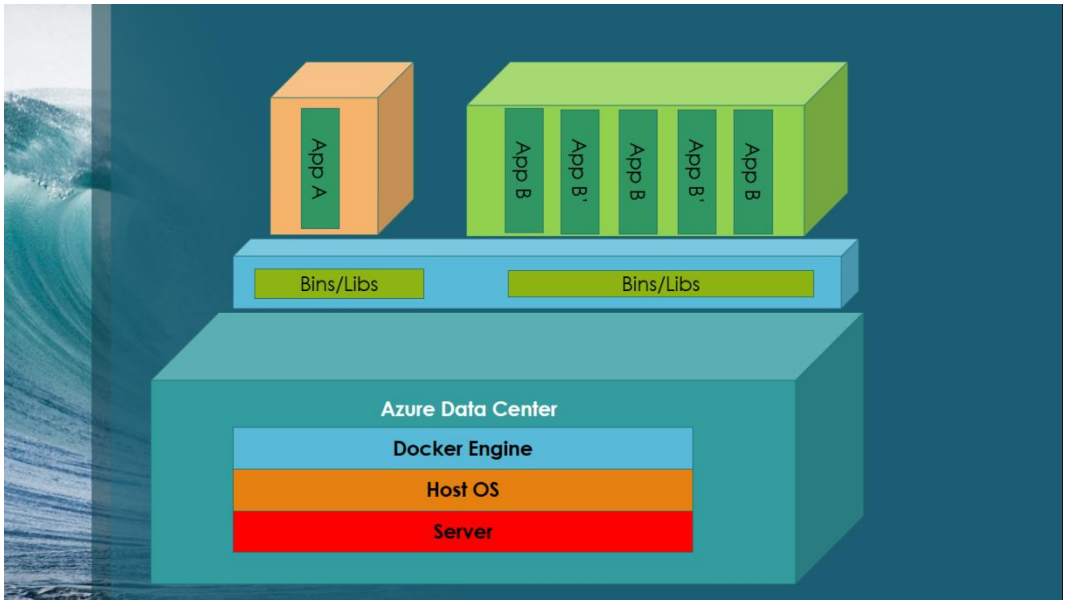

Microsoft Azure
Cloud services (classic)
acdppbookcs - Staging
Upload a package
Upload a package
acdppbookcs - Staging
This will create a new 'Staging' deployment
* Storage account
acdppbookstor
* Deployment label
acdtest
Package (.cspkg, .zip)
ACDPPBookCS.cspkg
ACDPPBookCS.cspkg
Configuration (.cscfg)
ServiceConfiguration.Cloud.cscfg
ServiceConfiguration.Cloud.cscfg
Deploy even if one or more roles contain a single instance
Start deployment
OK

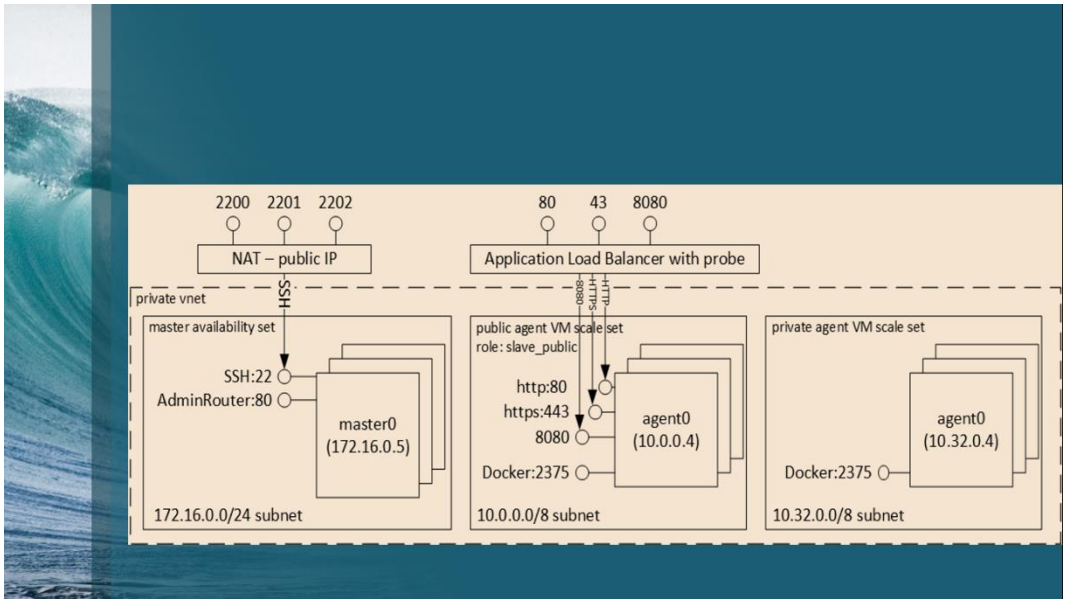

Microsoft Azure
Cloud services (classic)
acdppbookcs - Staging
Upload a package
Upload a package
acdppbookcs - Staging
This will create a new 'Staging' deployment
* Storage account
acdppbookstor
* Deployment label
acdtest
Package (.cspkg, .zip)
ACDPPBookCS.cspkg
ACDPPBookCS.cspkg
Configuration (.cscfg)
ServiceConfiguration.Cloud.cscfg
ServiceConfiguration.Cloud.cscfg
Deploy even if one or more roles contain a single instance
Start deployment
OK

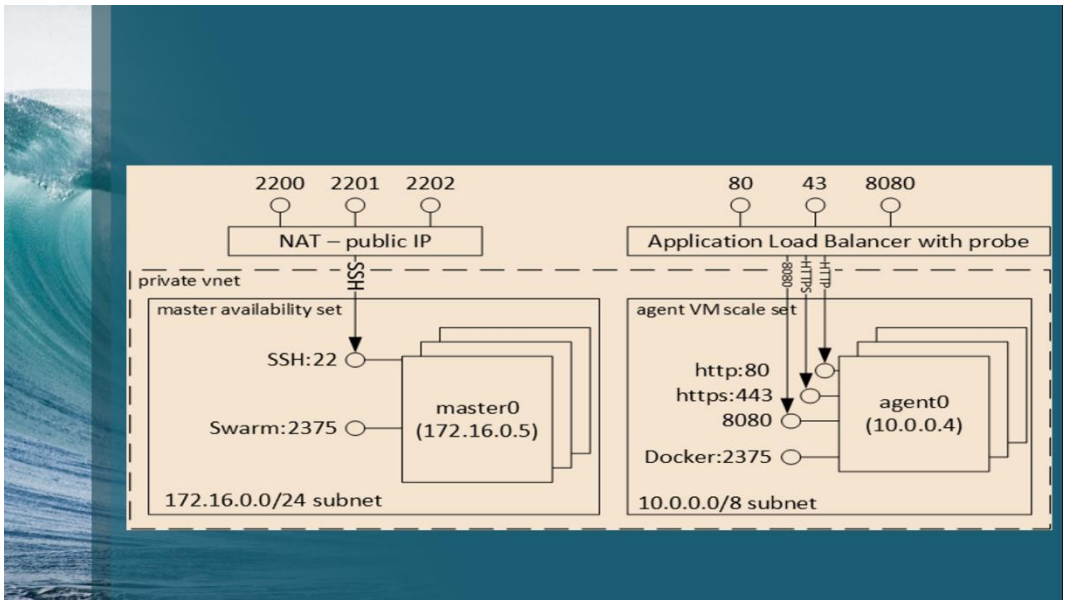

Microsoft Azure
Cloud services (classic) > acdppbookcs - Staging
acdppbookcs - Staging
Cloud service (classic)
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Diagnose and solve problems
SETTINGS
Antimalware
Certificates
Configuration
Extensions
Instances
Remote Desktop
Scale
Staging slot
Update
Stop
Running (1 instance: 1 Starting VM)
Essentials
Resource group (change)
acdppbook
Status
Running
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
Roles and instances
NAME
STATUS
ACDCSDemo
ACDCSDemo_IN_0
Starting VM

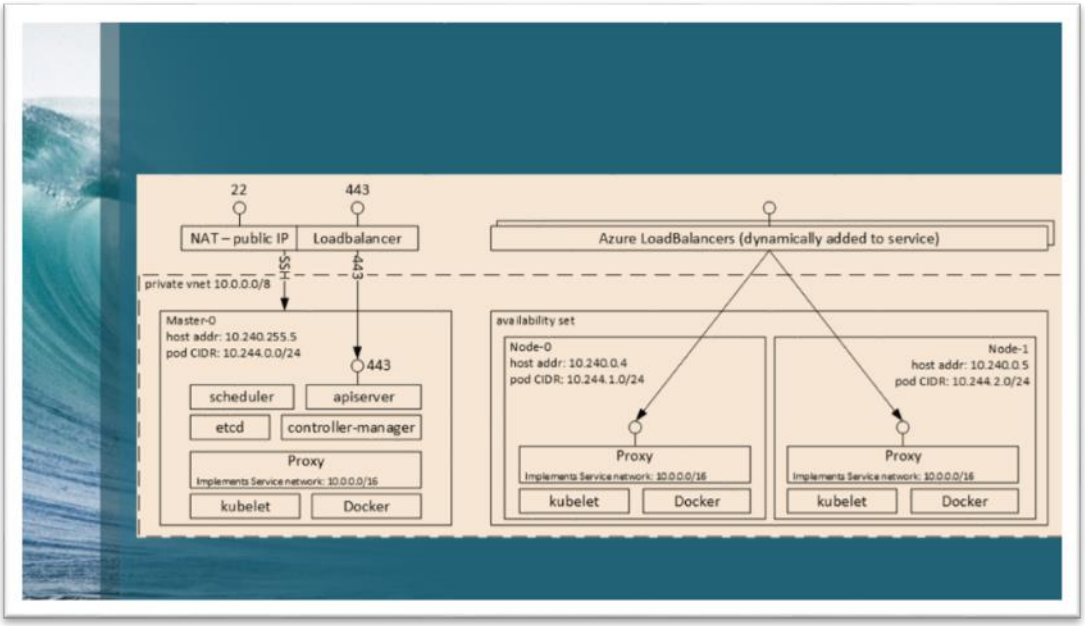
Chapter 8: Implementing Azure Container Service



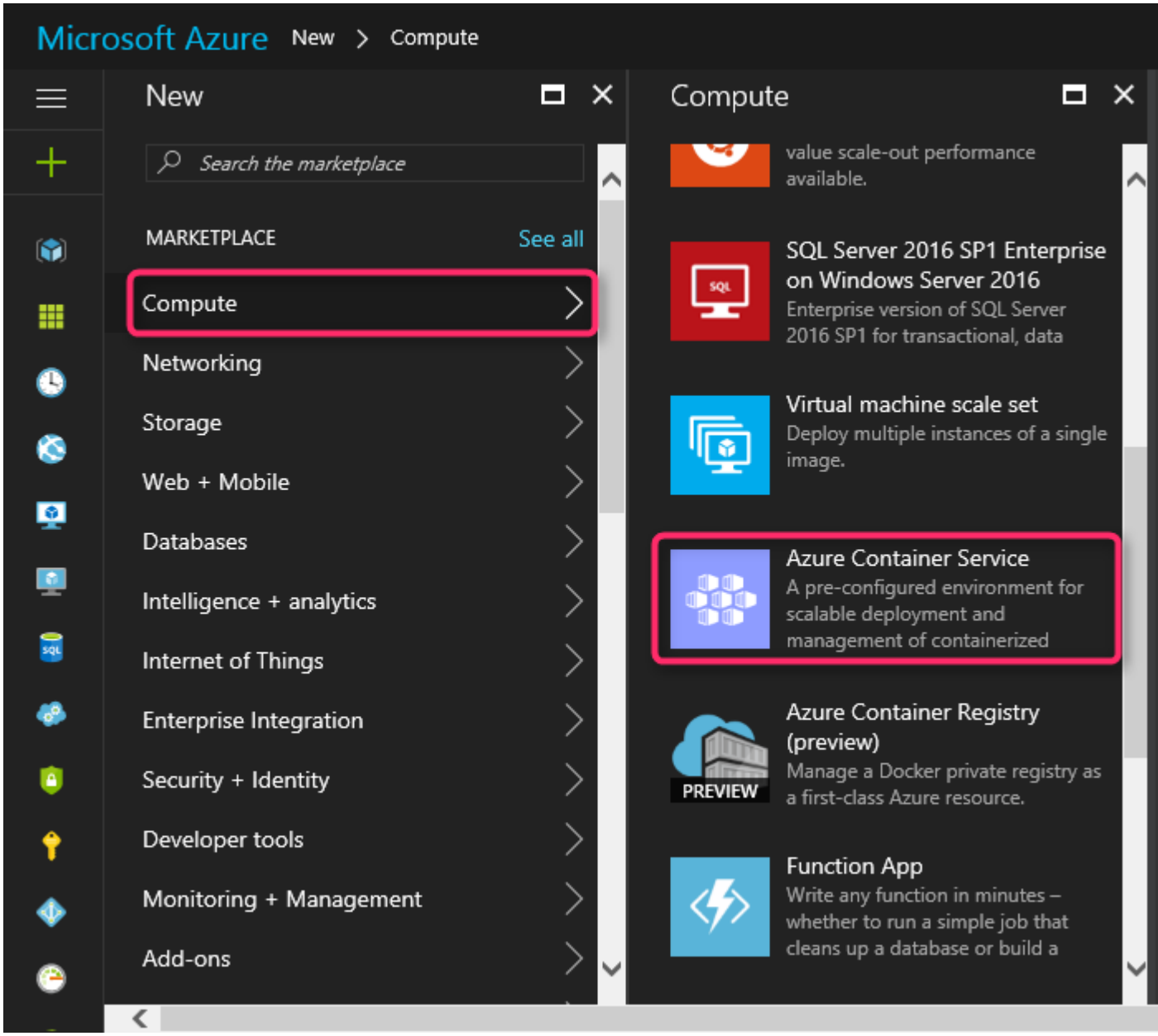


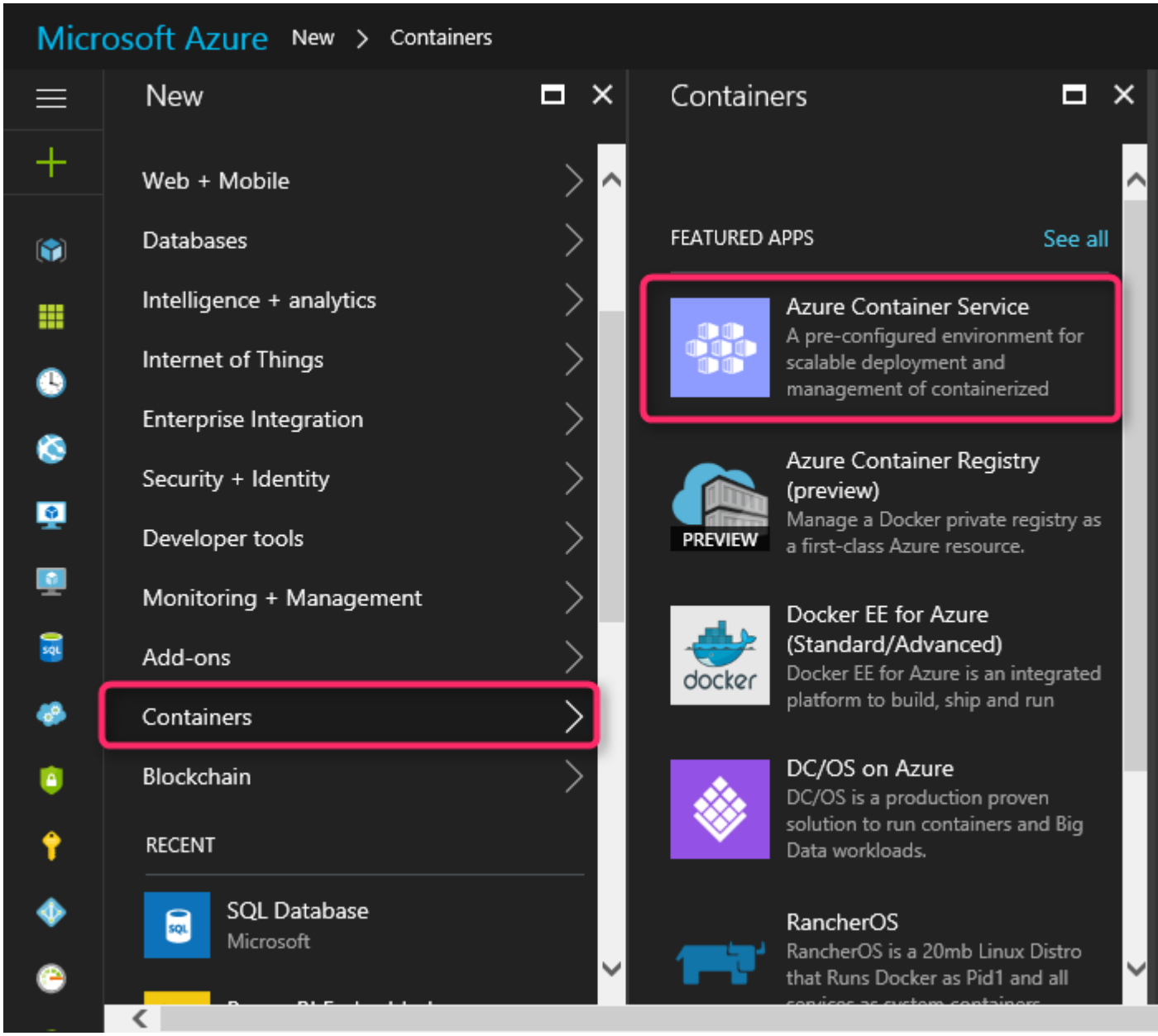

2200
2201
2202
NAT – public IP
80
43
8080
Application Load Balancer with probe
SSH
8080
HTTPS
HTTP
private vnet
master availability set
SSH:22
AdminRouter:80
master0
(172.16.0.5)
172.16.0.0/24 subnet
public agent VM scale set
role: slave_public
http:80
https:443
8080
Docker:2375
agent0
(10.0.0.4)
10.0.0.0/8 subnet
private agent VM scale set
Docker:2375
agent0
(10.32.0.4)
10.32.0.0/8 subnet

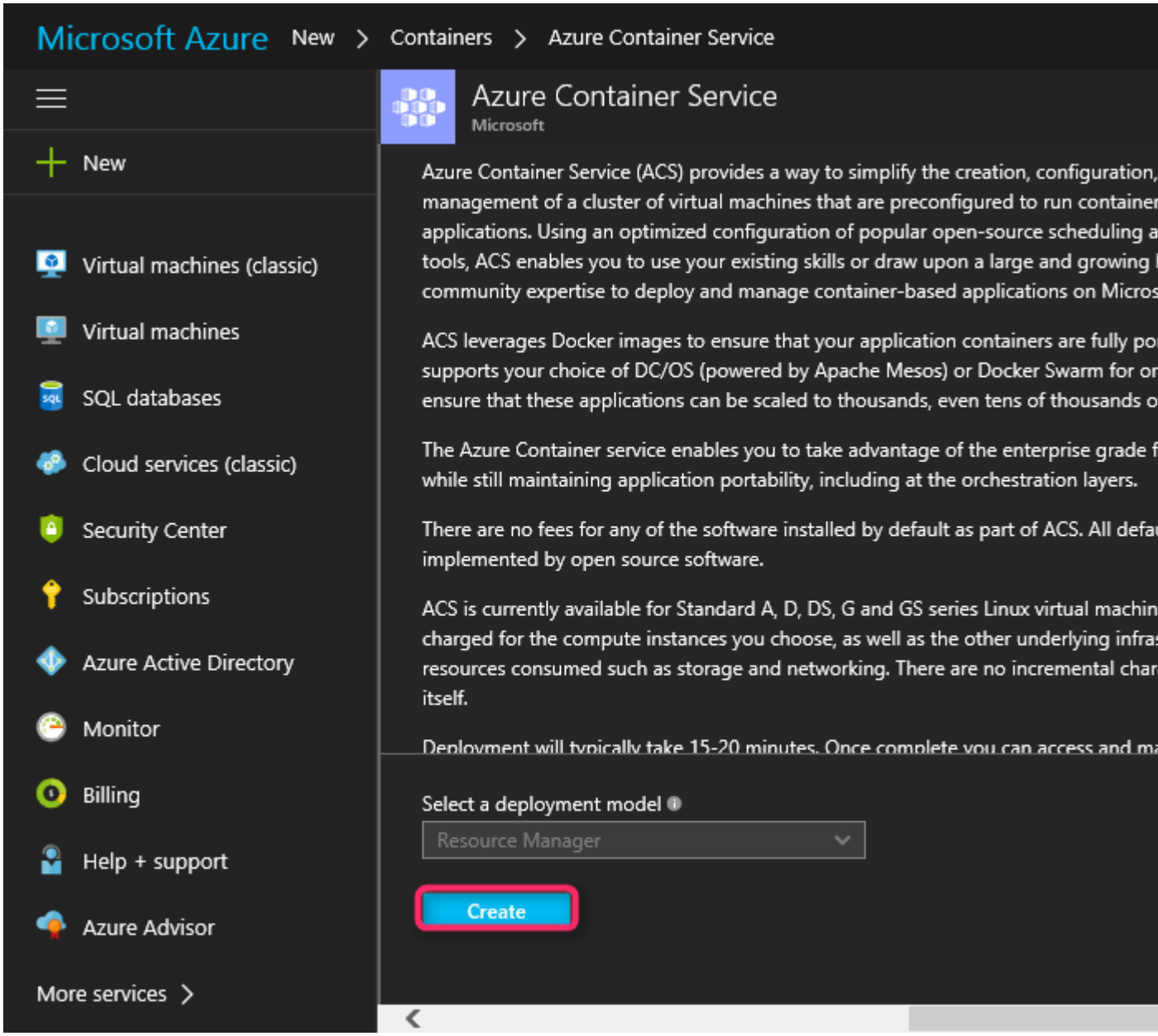

2200
2201
2202
NAT – public IP
80
43
8080
Application Load Balancer with probe
SSH
8080
HTTPS
HTTP
private vnet
master availability set
SSH:22
Swarm:2375
master0
(172.16.0.5)
172.16.0.0/24 subnet
agent VM scale set
http:80
https:443
8080
Docker:2375
agent0
(10.0.0.4)
10.0.0.0/8 subnet

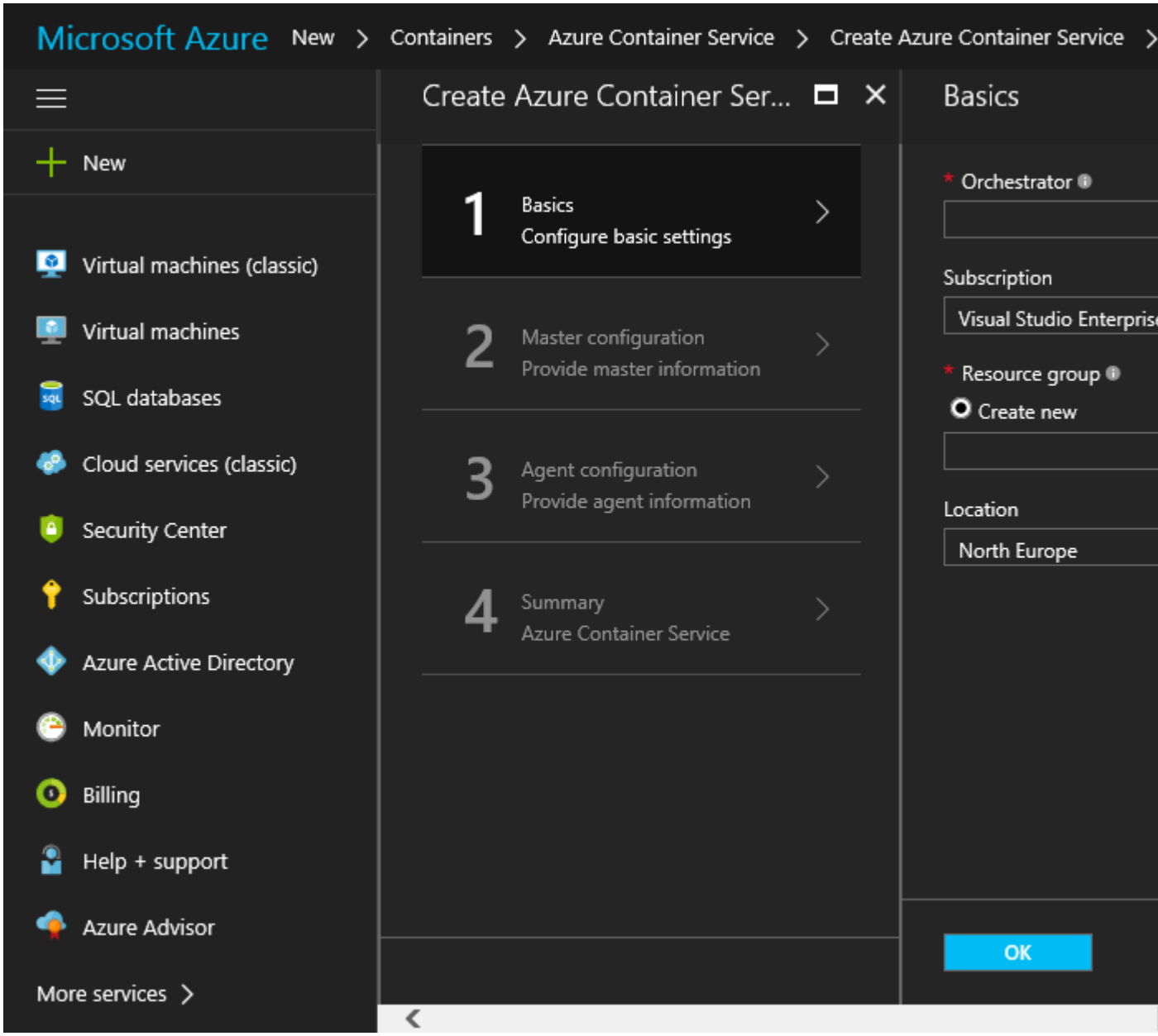

22
443
NAT – public IP
Loadbalancer
SSH
443
Azure LoadBalancers (dynamically added to service)
private vnet 10.0.0.0/8
Master-0
host addr: 10.240.255.5
pod CIDR: 10.244.0.0/24
443
scheduler
apiserver
etcd
controller-manager
Proxy
Implements Service network: 10.0.0.0/16
kubelet
Docker
availability set
Node-0
host addr: 10.240.0.4
pod CIDR: 10.244.1.0/24
Proxy
Implements Service network: 10.0.0.0/16
kubelet
Docker
Node-1
host addr: 10.240.0.5
pod CIDR: 10.244.2.0/24
Proxy
Implements Service network: 10.0.0.0/16
kubelet
Docker

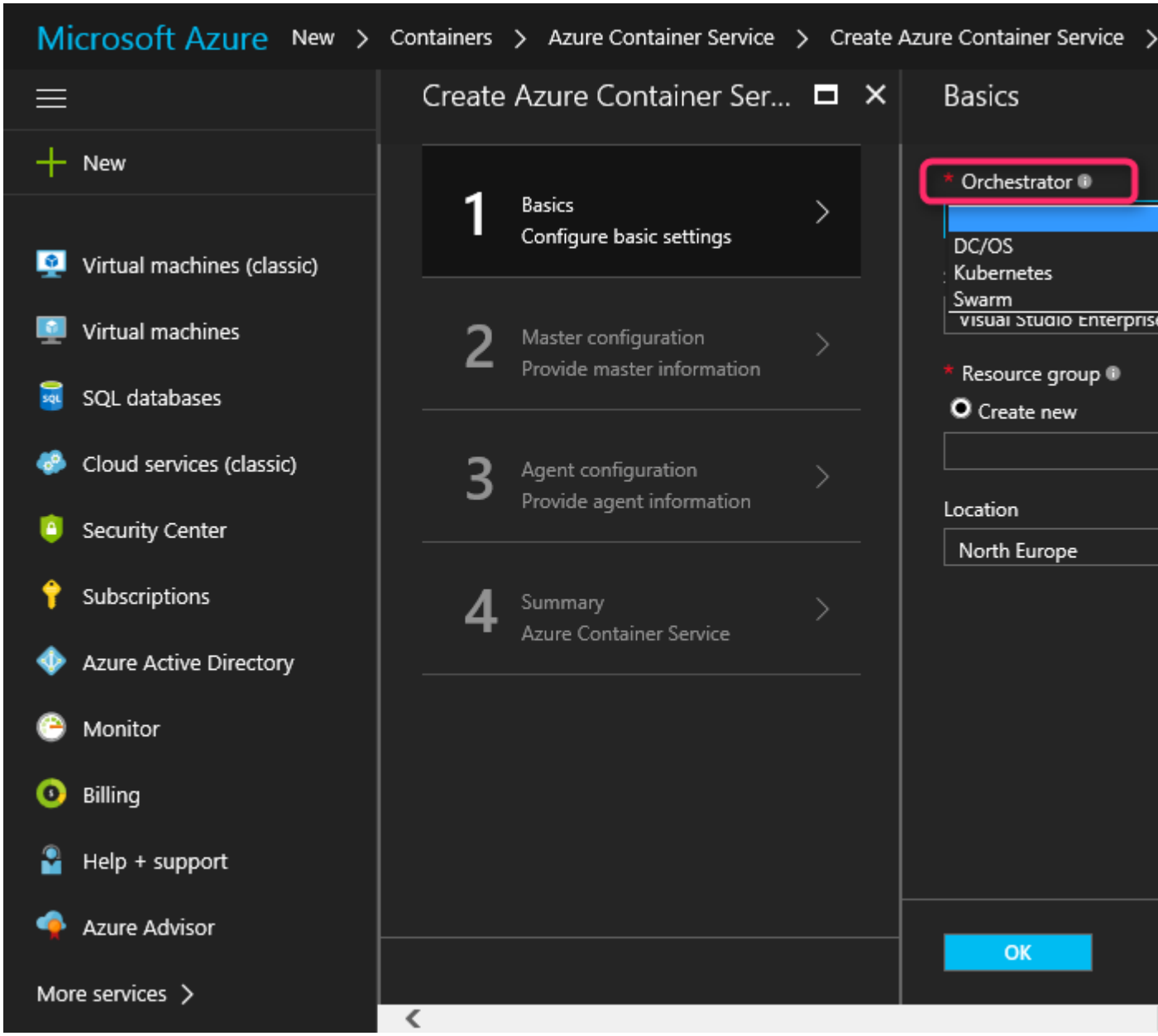
Microsoft Azure
Search resour
New
Dashboard
New dashboard
Edit dashboard
Sha
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
All resources
ALL SUBSCRIPTIONS
acdppbookstor
acdeventhubdev-ns
acdmlwsp
acdcsiotdemo
Dtlacdtestlab
acdiotthdev
acdappservplan
acddemoportal
acddemoportal
Service health
MY RESOURCES


Microsoft Azure
New
Compute
New
Search the marketplace
MARKETPLACE
See all
Compute
Networking
Storage
Web + Mobile
Databases
Intelligence + analytics
Internet of Things
Enterprise Integration
Security + Identity
Developer tools
Monitoring + Management
Add-ons
Compute
value scale-out performance available.
SQL Server 2016 SP1 Enterprise on Windows Server 2016
Enterprise version of SQL Server 2016 SP1 for transactional, data
Virtual machine scale set
Deploy multiple instances of a single image.
Azure Container Service
A pre-configured environment for scalable deployment and management of containerized
Azure Container Registry (preview)
Manage a Docker private registry as a first-class Azure resource.
PREVIEW
Function App
Write any function in minutes – whether to run a simple job that cleans up a database or build a


Microsoft Azure
New
Containers
New
Web + Mobile
Databases
Intelligence + analytics
Internet of Things
Enterprise Integration
Security + Identity
Developer tools
Monitoring + Management
Add-ons
Containers
Blockchain
RECENT
SQL Database
Microsoft
Containers
FEATURED APPS
See all
Azure Container Service
A pre-configured environment for scalable deployment and management of containerized
Azure Container Registry (preview)
PREVIEW
Manage a Docker private registry as a first-class Azure resource.
Docker EE for Azure (Standard/Advanced)
Docker EE for Azure is an integrated platform to build, ship and run
DC/OS on Azure
DC/OS is a production proven solution to run containers and Big Data workloads.
RancherOS
RancherOS is a 20mb Linux Distro that Runs Docker as Pid1 and all


Microsoft Azure
New
Containers
Azure Container Service
New
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
Azure Advisor
More services
Azure Container Service
Microsoft
Azure Container Service (ACS) provides a way to simplify the creation, configuration,
management of a cluster of virtual machines that are preconfigured to run containe
applications. Using an optimized configuration of popular open-source scheduling a
tools, ACS enables you to use your existing skills or draw upon a large and growing
community expertise to deploy and manage container-based applications on Micros
ACS leverages Docker images to ensure that your application containers are fully po
supports your choice of DC/OS (powered by Apache Mesos) or Docker Swarm for or
ensure that these applications can be scaled to thousands, even tens of thousands o
The Azure Container service enables you to take advantage of the enterprise grade f
while still maintaining application portability, including at the orchestration layers.
There are no fees for any of the software installed by default as part of ACS. All defa
implemented by open source software.
ACS is currently available for Standard A, D, DS, G and GS series Linux virtual machin
charged for the compute instances you choose, as well as the other underlying infra
resources consumed such as storage and networking. There are no incremental char
itself.
Deployment will typically take 15-20 minutes. Once complete you can access and ma
Select a deployment model
Resource Manager
Create


Microsoft Azure
New
Containers
Azure Container Service
Create Azure Container Service
New
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Billing
Help + support
Azure Advisor
More services
Create Azure Container Ser...
1
Basics
Configure basic settings
2
Master configuration
Provide master information
3
Agent configuration
Provide agent information
4
Summary
Azure Container Service
Basics
* Orchestrator
Subscription
Visual Studio Enterpris
* Resource group
Create new
Location
North Europe
OK


Microsoft Azure
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Create Azure Container Service
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Provide agent information
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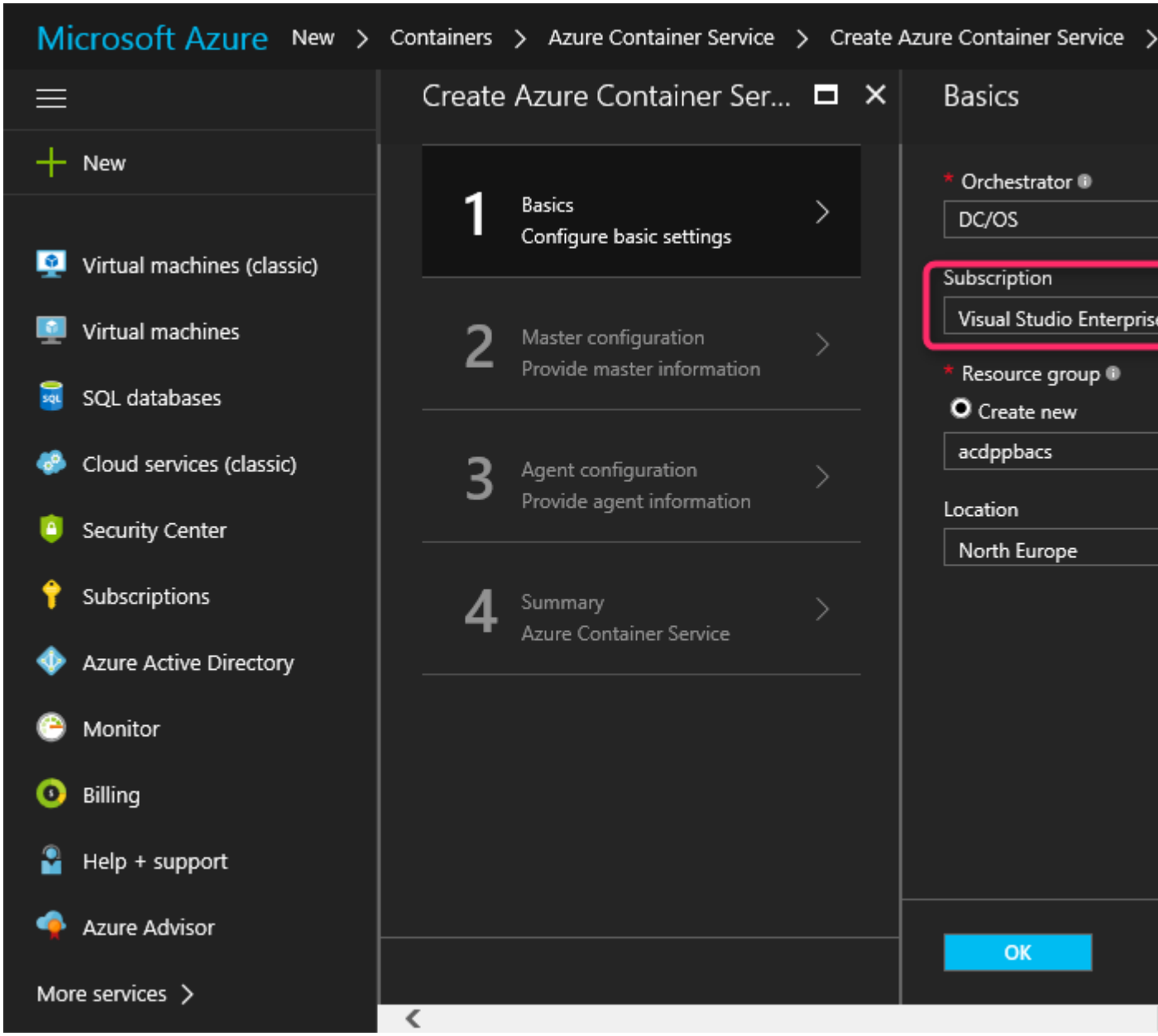
Summary
Azure Container Service
Basics
* Orchestrator
DC/OS
Kubernetes
Swarm
* Resource group
Create new
Location
North Europe
OK


Microsoft Azure
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Containers
Azure Container Service
Create Azure Container Service
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Security Center
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Azure Container Service
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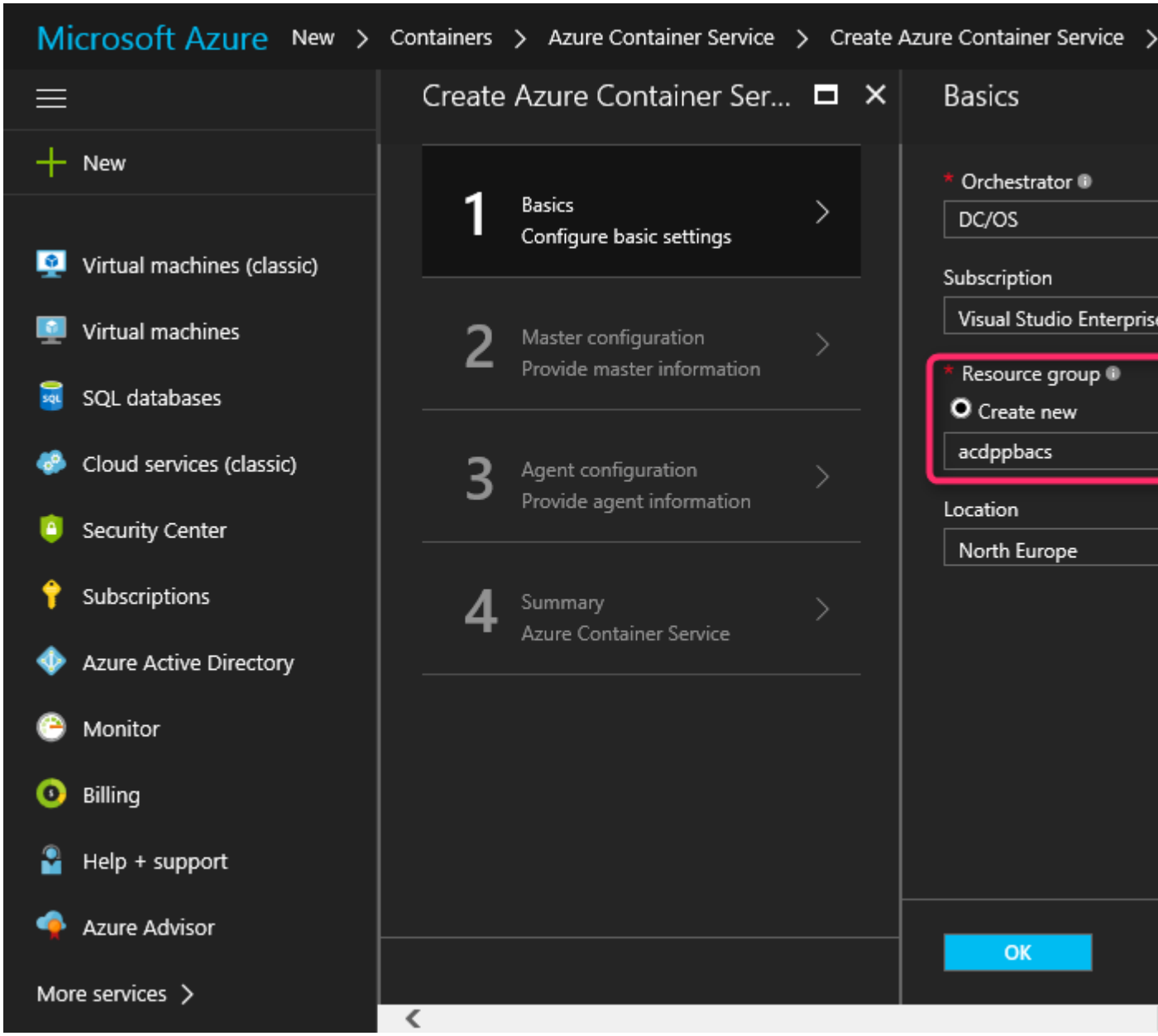
DC/OS
Subscription
Visual Studio Enterpris
* Resource group
Create new
acdppbacs
Location
North Europe
OK


Microsoft Azure
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Azure Container Service
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SQL databases
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Security Center
Subscriptions
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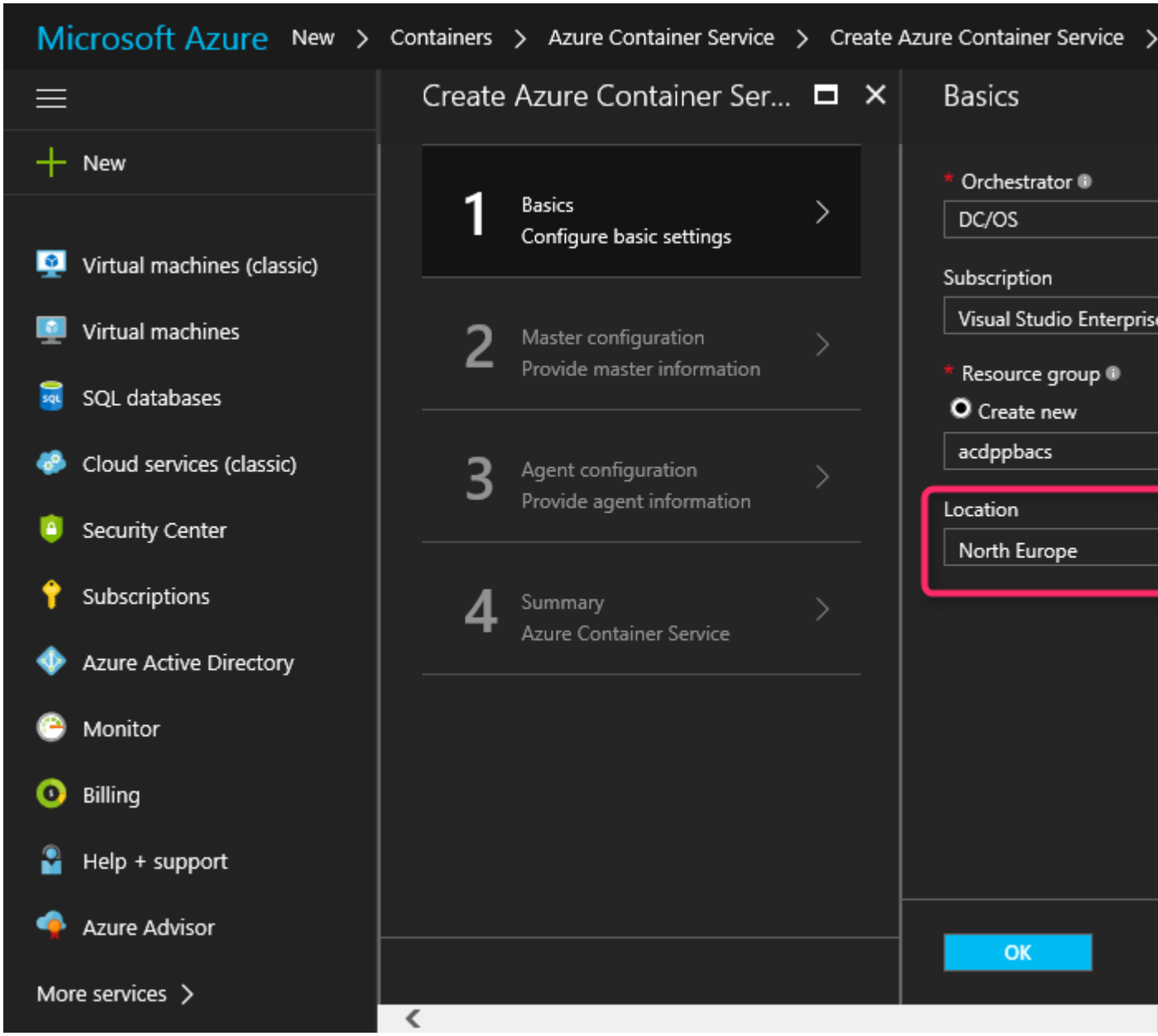
Subscription
Visual Studio Enterpris
* Resource group
Create new
acdppbacs
Location
North Europe
OK


Microsoft Azure
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Azure Container Service
Create Azure Container Service
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Security Center
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* Resource group
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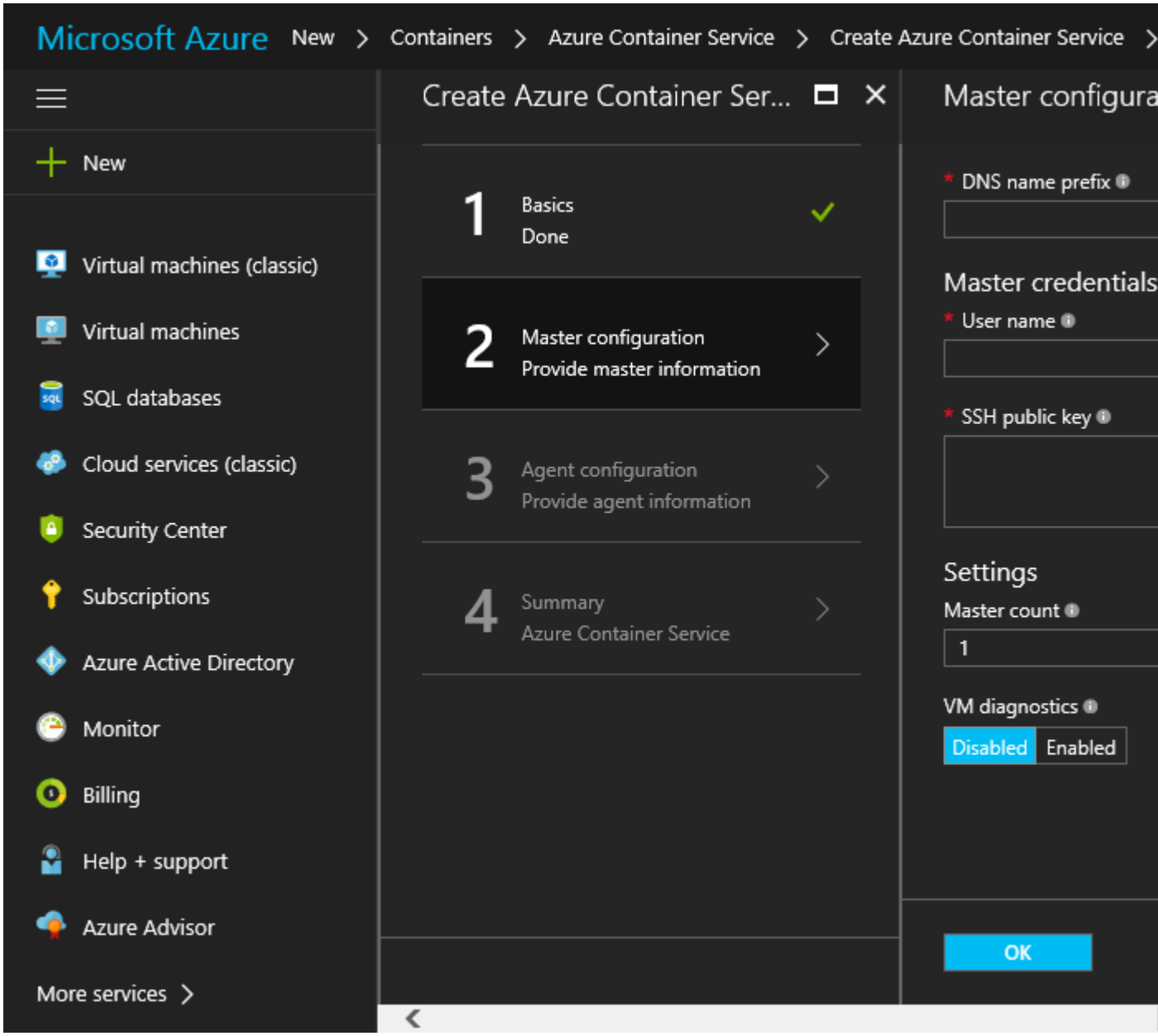
acdppbacs
Location
North Europe
OK


Microsoft Azure
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Containers
Azure Container Service
Create Azure Container Service
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Virtual machines
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Help + support
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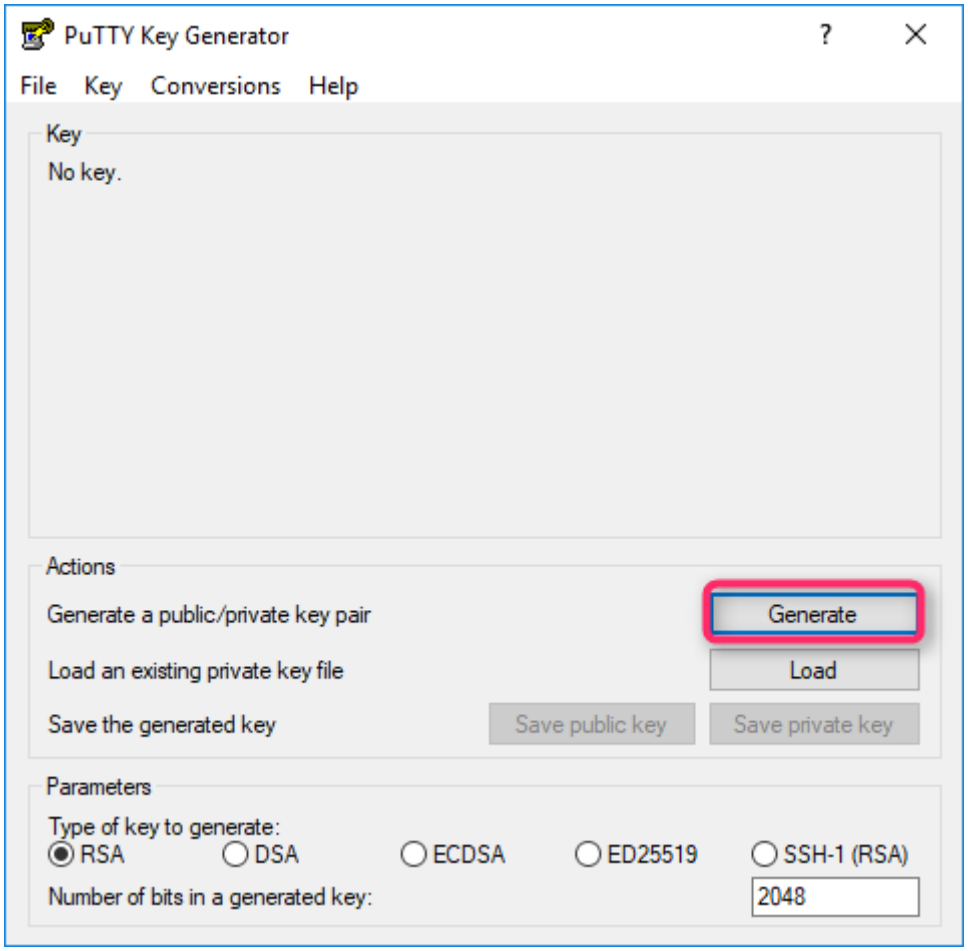
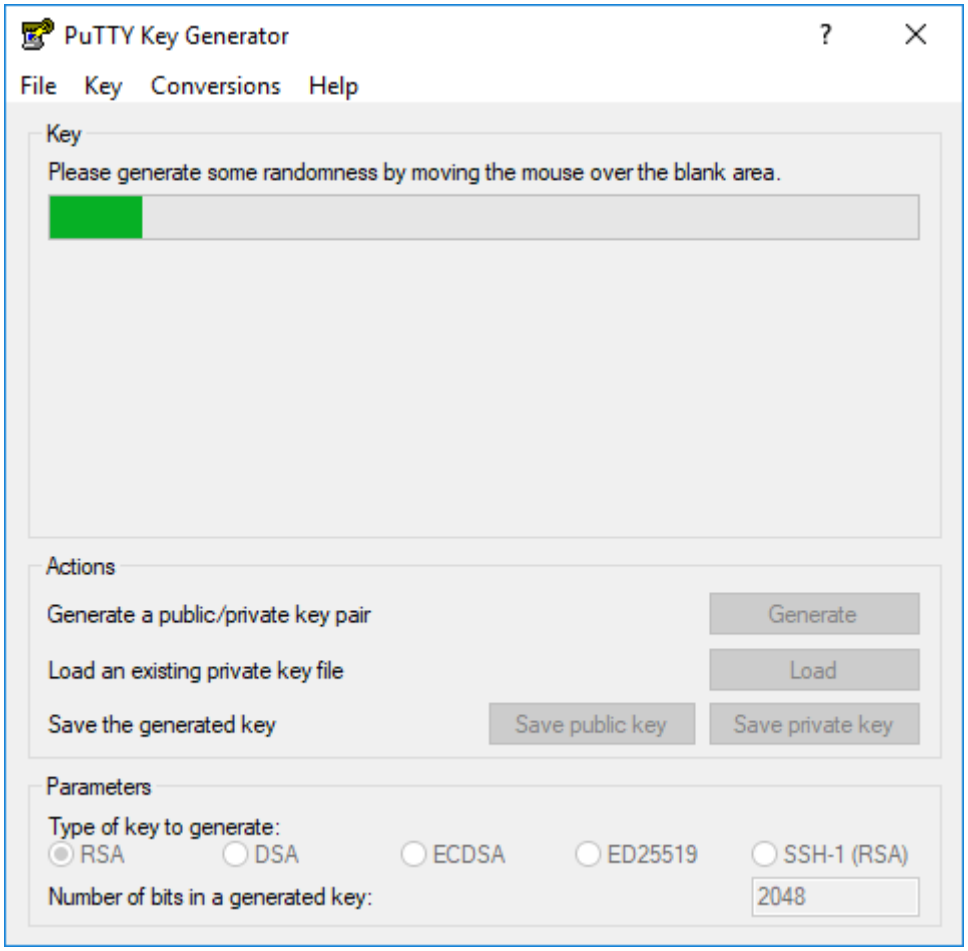
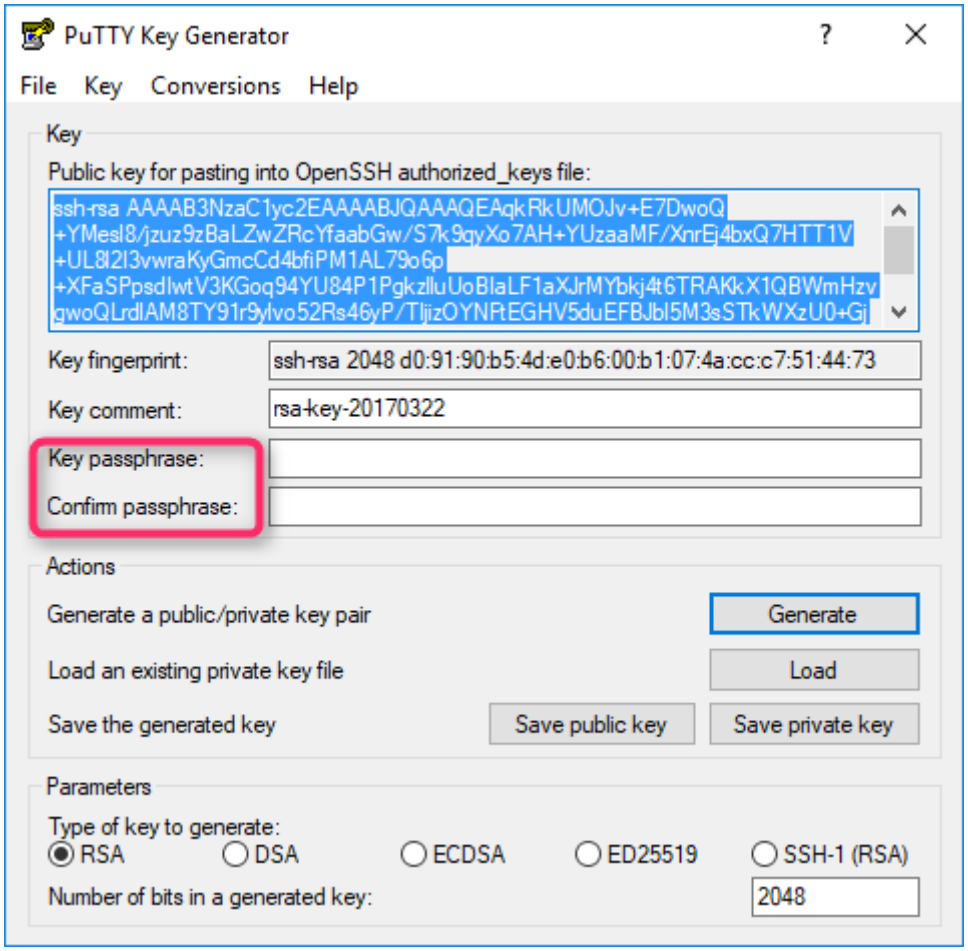
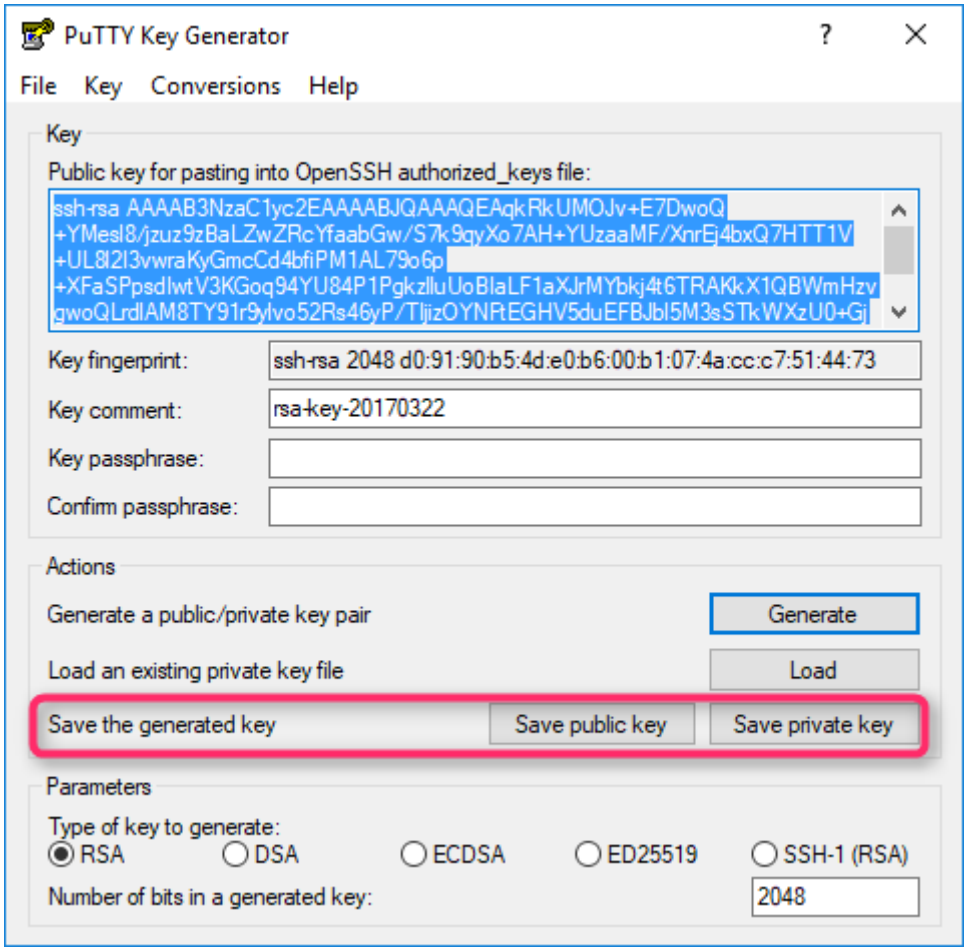
More services
Create Azure Container Ser...
1
Basics
Done
2
Master configuration
Provide master information
3
Agent configuration
Provide agent information
4
Summary
Azure Container Service
Master configura
* DNS name prefix
Master credentials
* User name
* SSH public key
Settings
Master count
1
VM diagnostics
Disabled
Enabled
OK


PuTTY Key Generator
File
Key
Conversions
Help
Key
No key.
Actions
Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
RSA
DSA
ECDSA
ED25519
SSH-1 (RSA)
Number of bits in a generated key:
2048


PuTTY Key Generator
File
Key
Conversions
Help
Key
Please generate some randomness by moving the mouse over the blank area.
Actions
Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
RSA
DSA
ECDSA
ED25519
SSH-1 (RSA)
Number of bits in a generated key:
2048


PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEAqkRkUMOJv+E7DwoQ
+YMesl8/jzuz9zBaLZwZRcYfaabGw/S7k9qyXo7AH+YUzaaMF/XnrEj4bxQ7HTT1V
+UL8l2I3vwraKyGmcCd4bfiPM1AL79o6p
+XFaSPpsdlwtV3KGoq94YU84P1PgkzlluUoBlaLF1aXJrMYbkj4t6TRAKkX1QBWmHzv
gwoQLrdlAM8TY91r9ylvo52Rs46yP/TljizOYNFtEGHV5duEFBJbI5M3sSTkWXzU0+Gj
Key fingerprint:
ssh-rsa 2048 d0:91:90:b5:4d:e0:b6:00:b1:07:4a:cc:c7:51:44:73
Key comment:
rsa-key-20170322
Key passphrase:
Confirm passphrase:
Actions
Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
RSA
DSA
ECDSA
ED25519
SSH-1 (RSA)
Number of bits in a generated key:
2048


PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEAqkRkUMOJv+E7DwoQ
+YMesl8/jzuz9zBaLZwZRcYfaabGw/S7k9qyXo7AH+YUzaaMF/XnrEj4bxQ7HTT1V
+UL8l2I3vwraKyGmcCd4bfiPM1AL79o6p
+XFaSPpsdlwtV3KGoq94YU84P1PgkzlluUoBlaLF1aXJrMYbkj4t6TRAKkX1QBWmHzv
gwoQLrdlAM8TY91r9ylvo52Rs46yP/TljizOYNFtEGHV5duEFBJbI5M3sSTkWXzU0+Gj
Key fingerprint:
ssh-rsa 2048 d0:91:90:b5:4d:e0:b6:00:b1:07:4a:cc:c7:51:44:73
Key comment:
rsa-key-20170322
Key passphrase:
Confirm passphrase:
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Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
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Parameters
Type of key to generate:
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DSA
ECDSA
ED25519
SSH-1 (RSA)
Number of bits in a generated key:
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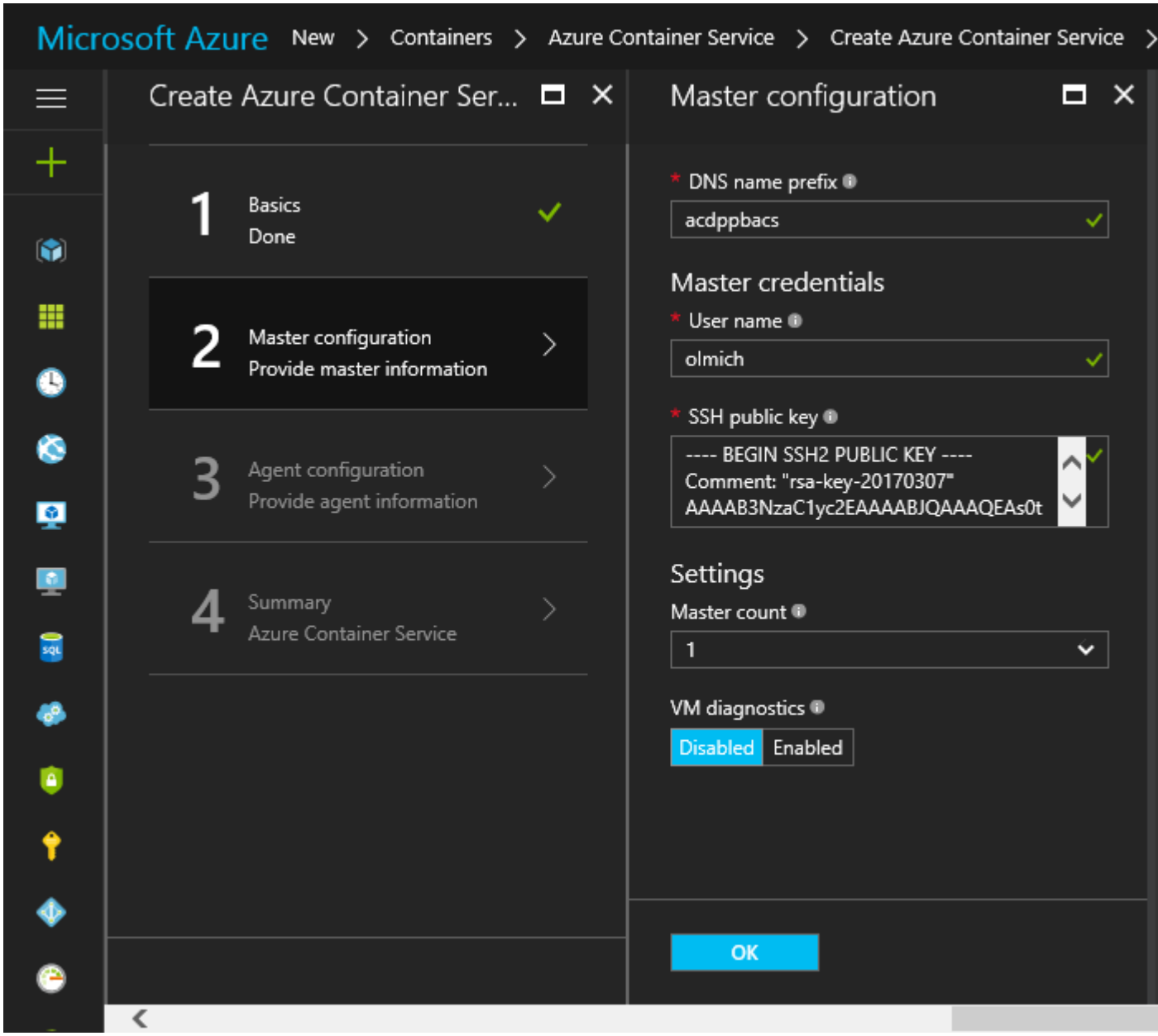
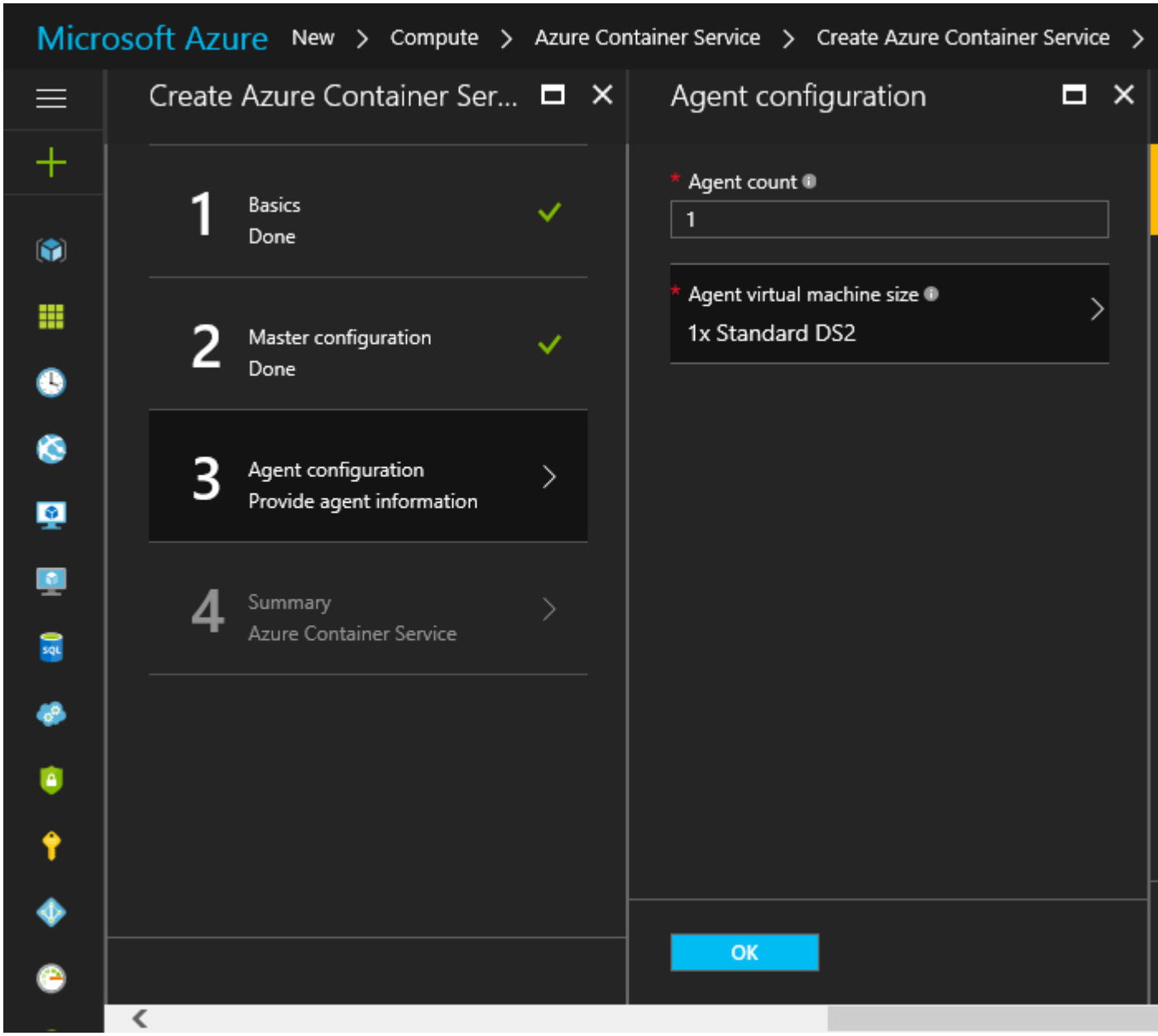
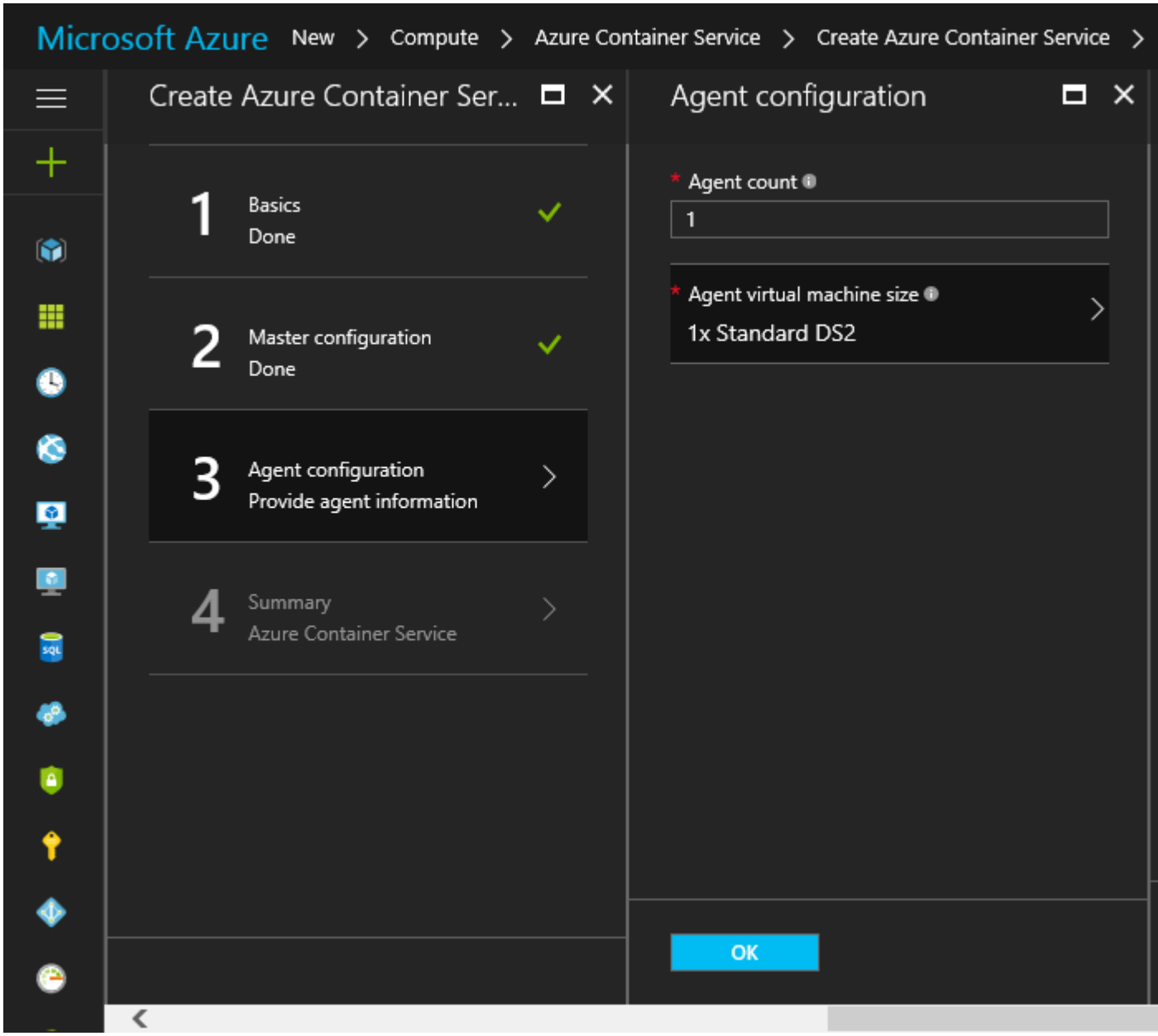
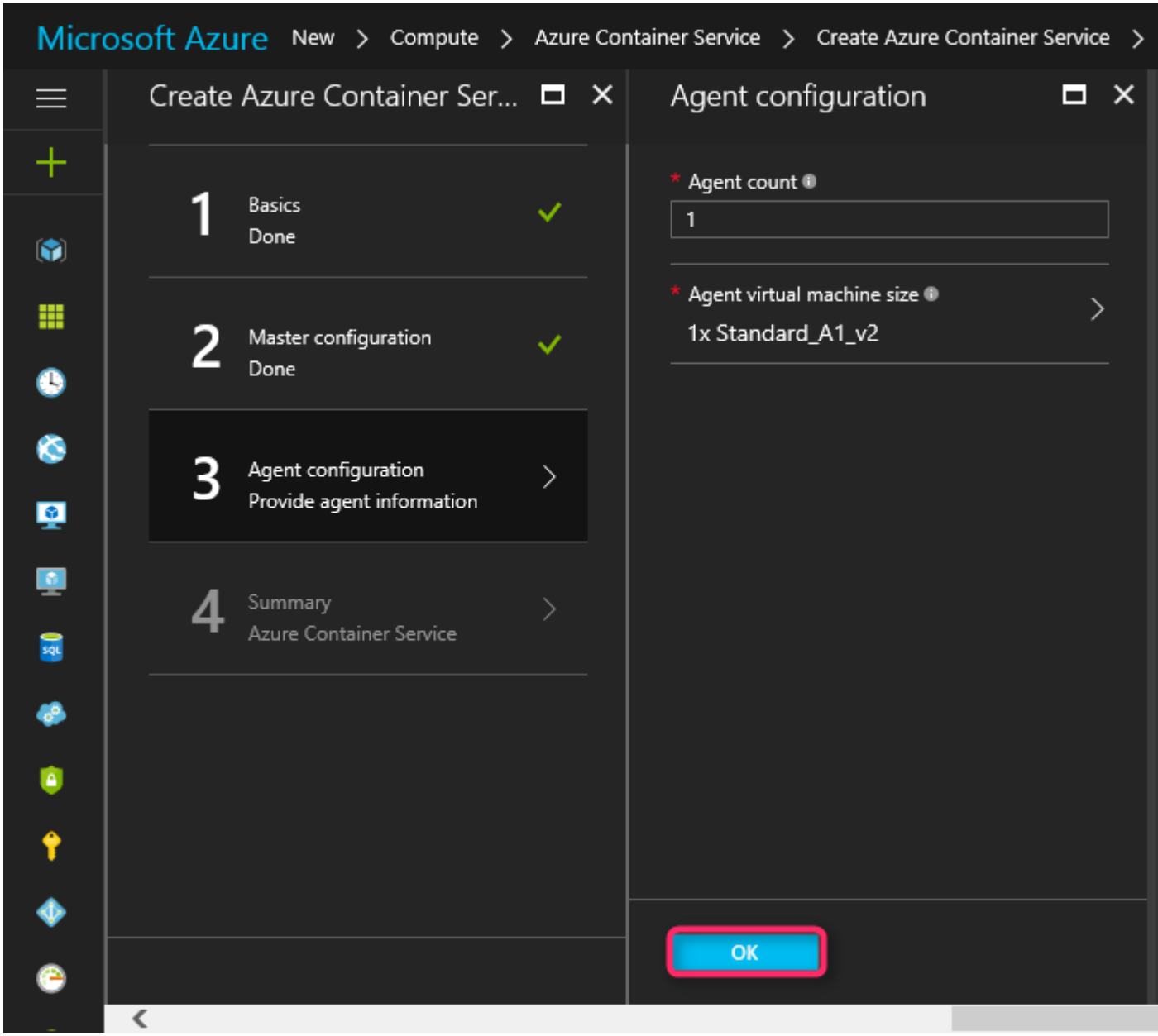
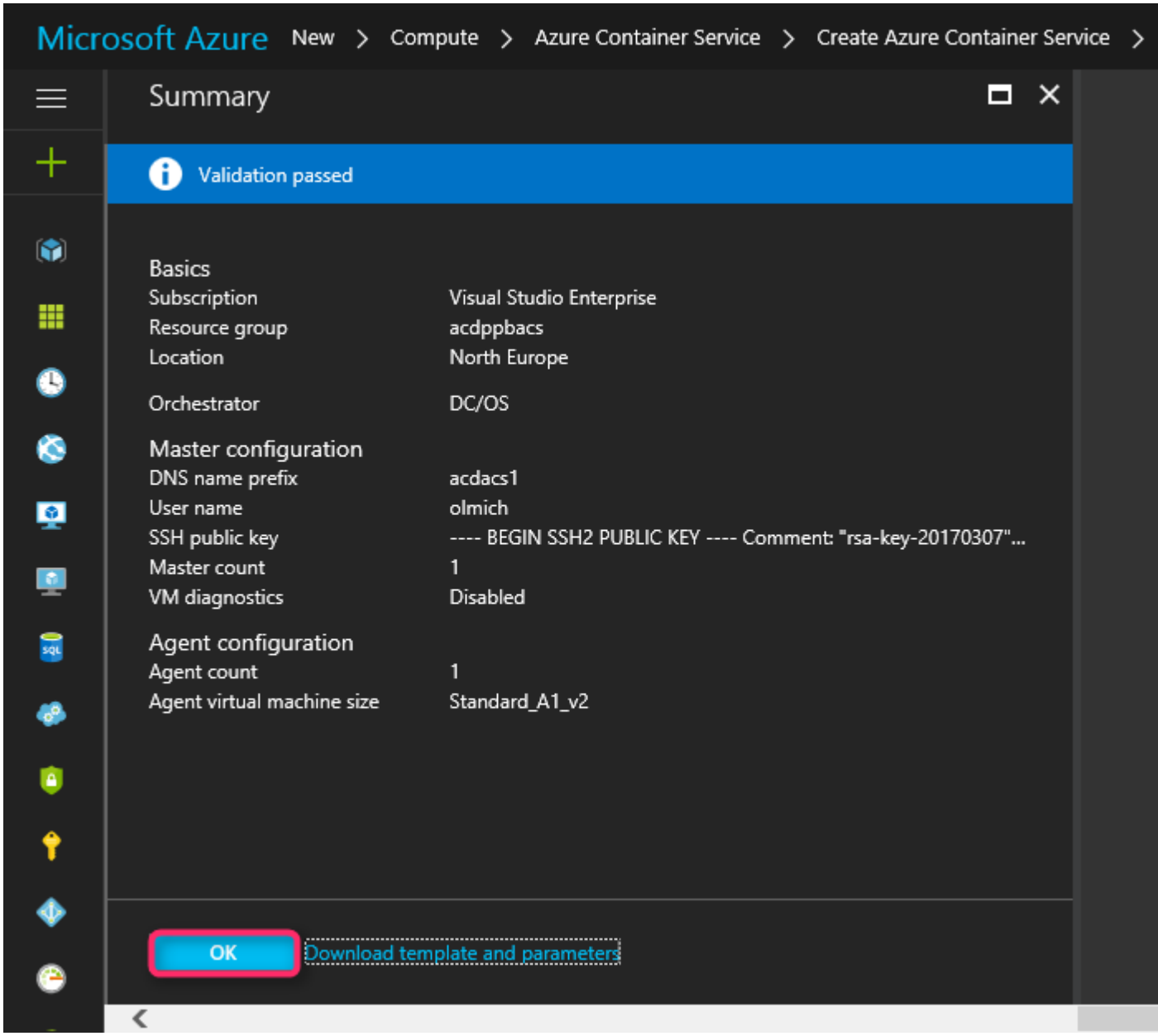
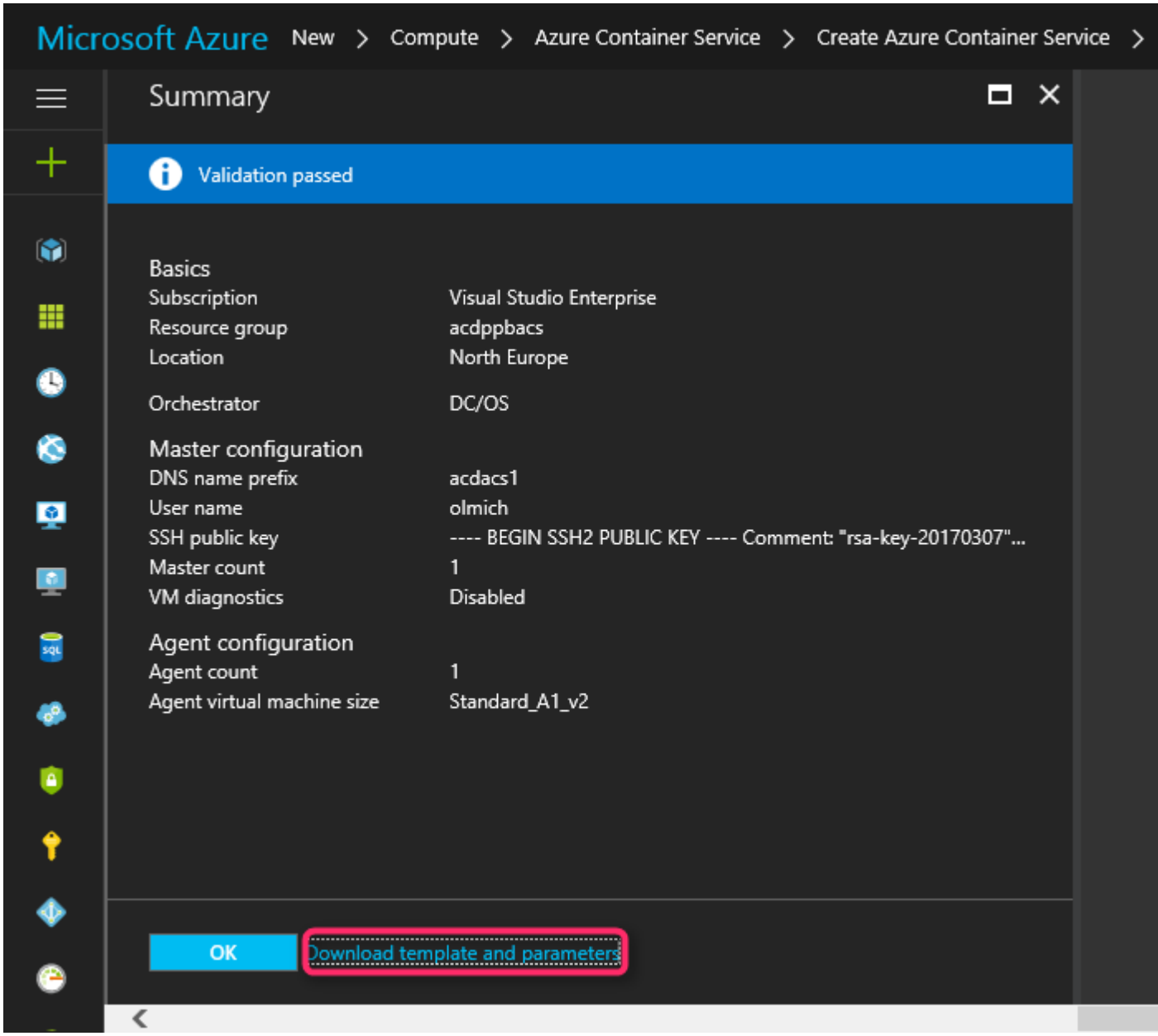

Microsoft Azure
New
Containers
Azure Container Service
Create Azure Container Service
Create Azure Container Ser...
1
Basics
Done
2
Master configuration
Provide master information
3
Agent configuration
Provide agent information
4
Summary
Azure Container Service
Master configuration
* DNS name prefix
acdppbacs
Master credentials
* User name
olmich
* SSH public key
---- BEGIN SSH2 PUBLIC KEY ----
Comment: "rsa-key-20170307"
AAAAB3NzaC1yc2EAAAABJQAAAQEAs0t
Settings
Master count
1
VM diagnostics
Disabled
Enabled
OK


Microsoft Azure
New
Compute
Azure Container Service
Create Azure Container Service
Create Azure Container Ser...
1
Basics
Done
2
Master configuration
Done
3
Agent configuration
Provide agent information
4
Summary
Azure Container Service
Agent configuration
* Agent count
1
* Agent virtual machine size
1x Standard DS2
OK


Microsoft Azure
New
Compute
Azure Container Service
Create Azure Container Service
Create Azure Container Ser...
1
Basics
Done
2
Master configuration
Done
3
Agent configuration
Provide agent information
4
Summary
Azure Container Service
Agent configuration
* Agent count
1
* Agent virtual machine size
1x Standard DS2
OK


Microsoft Azure
New
Compute
Azure Container Service
Create Azure Container Service
Create Azure Container Ser...
1
Basics
Done
2
Master configuration
Done
3
Agent configuration
Provide agent information
4
Summary
Azure Container Service
Agent configuration
* Agent count
1
* Agent virtual machine size
1x Standard_A1_v2
OK


Microsoft Azure
New > Compute > Azure Container Service > Create Azure Container Service
Summary
Validation passed
Basics
Subscription Visual Studio Enterprise
Resource group acdppbacs
Location North Europe
Orchestrator DC/OS
Master configuration
DNS name prefix acdacs1
User name olmich
SSH public key ---- BEGIN SSH2 PUBLIC KEY ---- Comment: "rsa-key-20170307"...
Master count 1
VM diagnostics Disabled
Agent configuration
Agent count 1
Agent virtual machine size Standard_A1_v2
OK
Download template and parameters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Agent configuration
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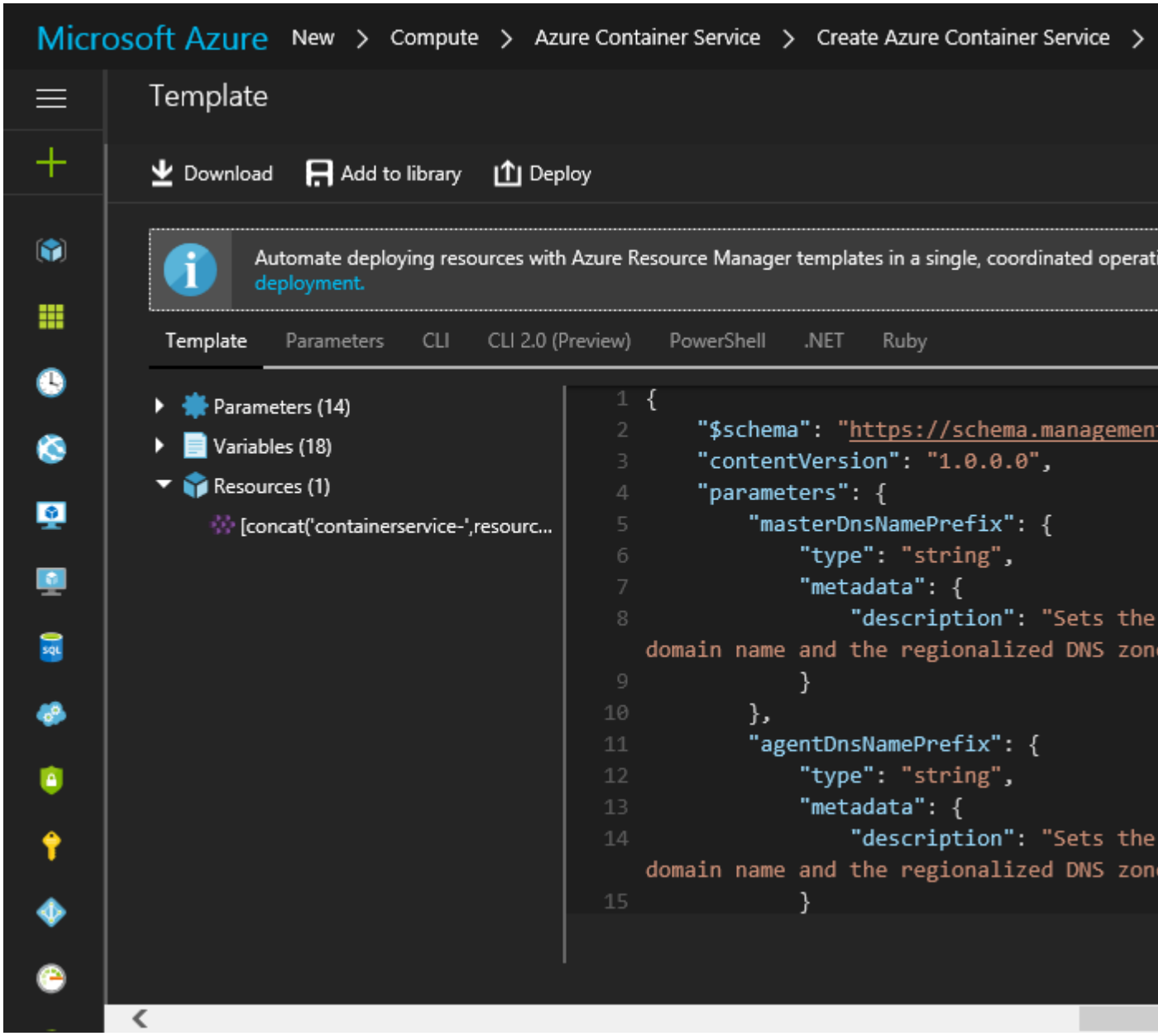
Microsoft Azure
New > Compute > Azure Container Service > Create Azure Container Service >
Template
Download
Add to library
Deploy
Automate deploying resources with Azure Resource Manager templates in a single, coordinated operati
deployment.
Template
Parameters
CLI
CLI 2.0 (Preview)
PowerShell
.NET
Ruby
Parameters (14)
Variables (18)
Resources (1)
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"contentVersion": "1.0.0.0",
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"type": "string",
"metadata": {
"description": "Sets the
domain name and the regionalized DNS zon
}
},
"agentDnsNamePrefix": {
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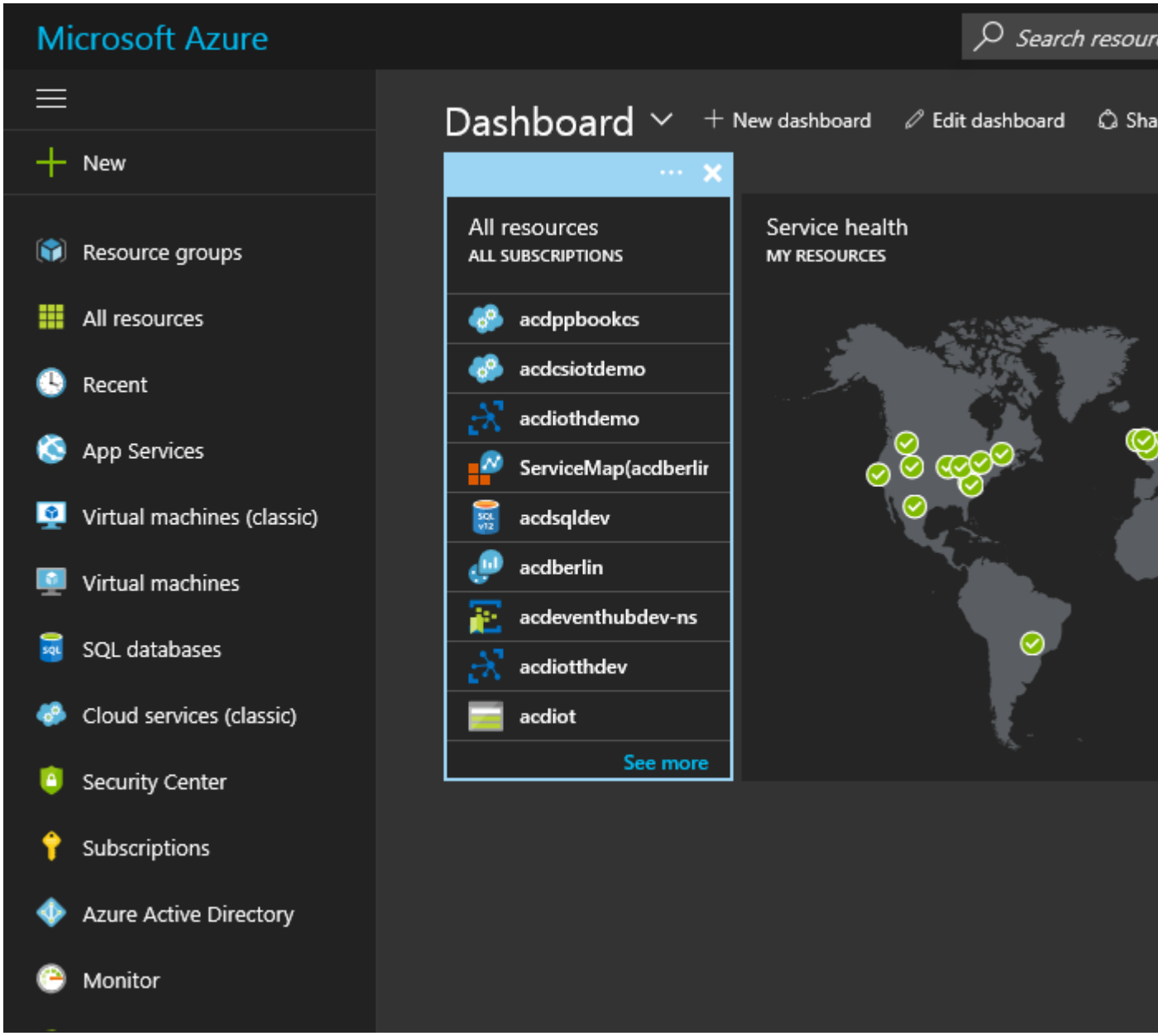
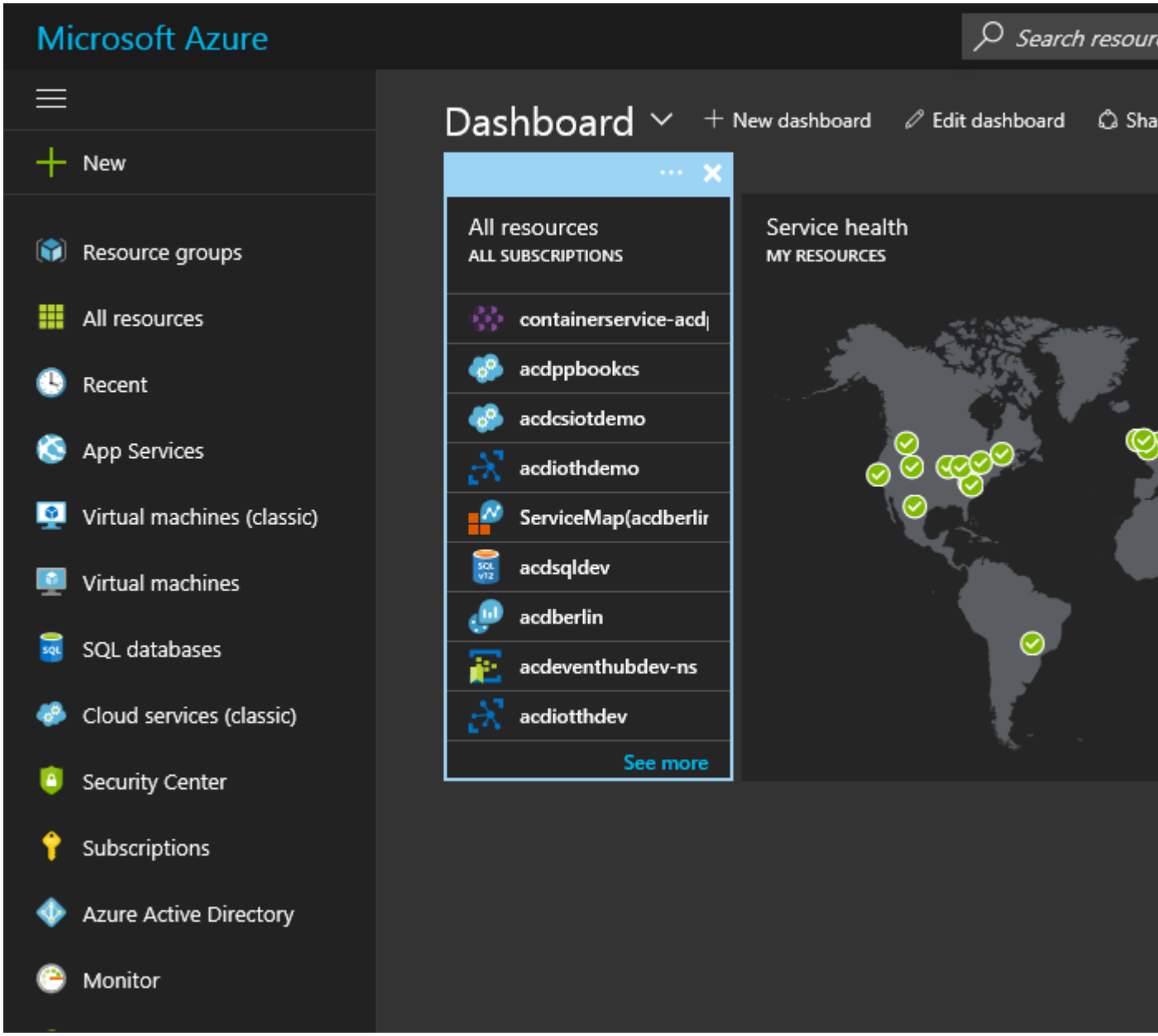
"metadata": {
"description": "Sets the
domain name and the regionalized DNS zon
}


Microsoft Azure
Search resour
New
Resource groups
All resources
Recent
App Services
Virtual machines (classic)
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Dashboard
New dashboard
Edit dashboard
Sha
All resources
ALL SUBSCRIPTIONS
acdppbookcs
acdcsiotdemo
acdiothdemo
ServiceMap(acdberlir
acdsqldev
acdberlin
acdeventhubdev-ns
acdiotthdev
acdiot
See more
Service health
MY RESOURCES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Resource groups
All resources
Recent
App Services
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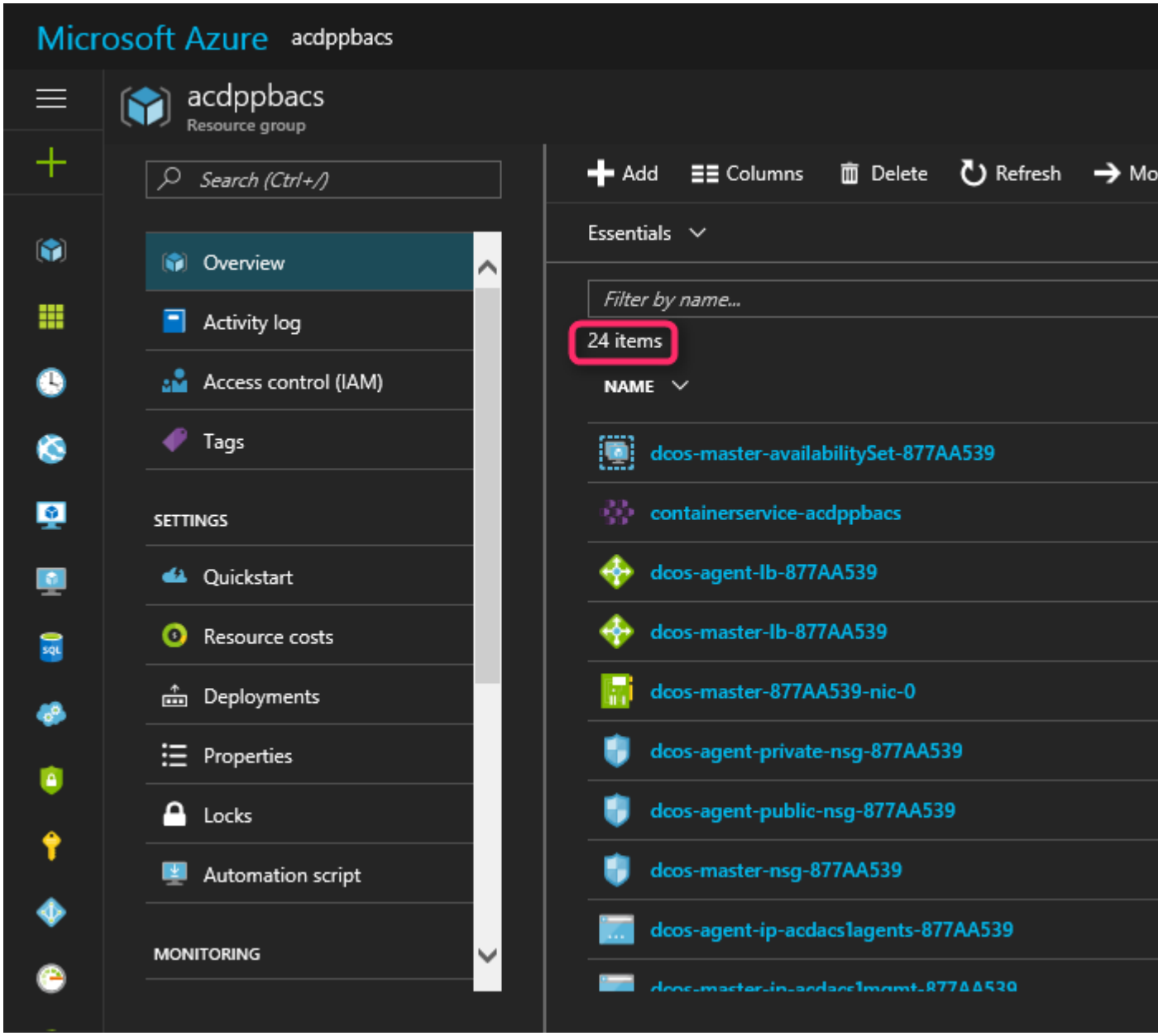
Virtual machines
SQL databases
Cloud services (classic)
Security Center
Subscriptions
Azure Active Directory
Monitor
Dashboard
New dashboard
Edit dashboard
Sha
All resources
ALL SUBSCRIPTIONS
containerservice-acd
acdppbookcs
acdcsiotdemo
acdiothdemo
ServiceMap(acdberlir
acdsqldev
acdberlin
acdeventhubdev-ns
acdiotthdev
See more
Service health
MY RESOURCES


Microsoft Azure
acdppbacs
acdppbacs
Resource group
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Resource costs
Deployments
Properties
Locks
Automation script
MONITORING
Add
Columns
Delete
Refresh
Essentials
Filter by name...
24 items
NAME
dcos-master-availabilitySet-877AA539
containerservice-acdppbacs
dcos-agent-lb-877AA539
dcos-master-lb-877AA539
dcos-master-877AA539-nic-0
dcos-agent-private-nsg-877AA539
dcos-agent-public-nsg-877AA539
dcos-master-nsg-877AA539
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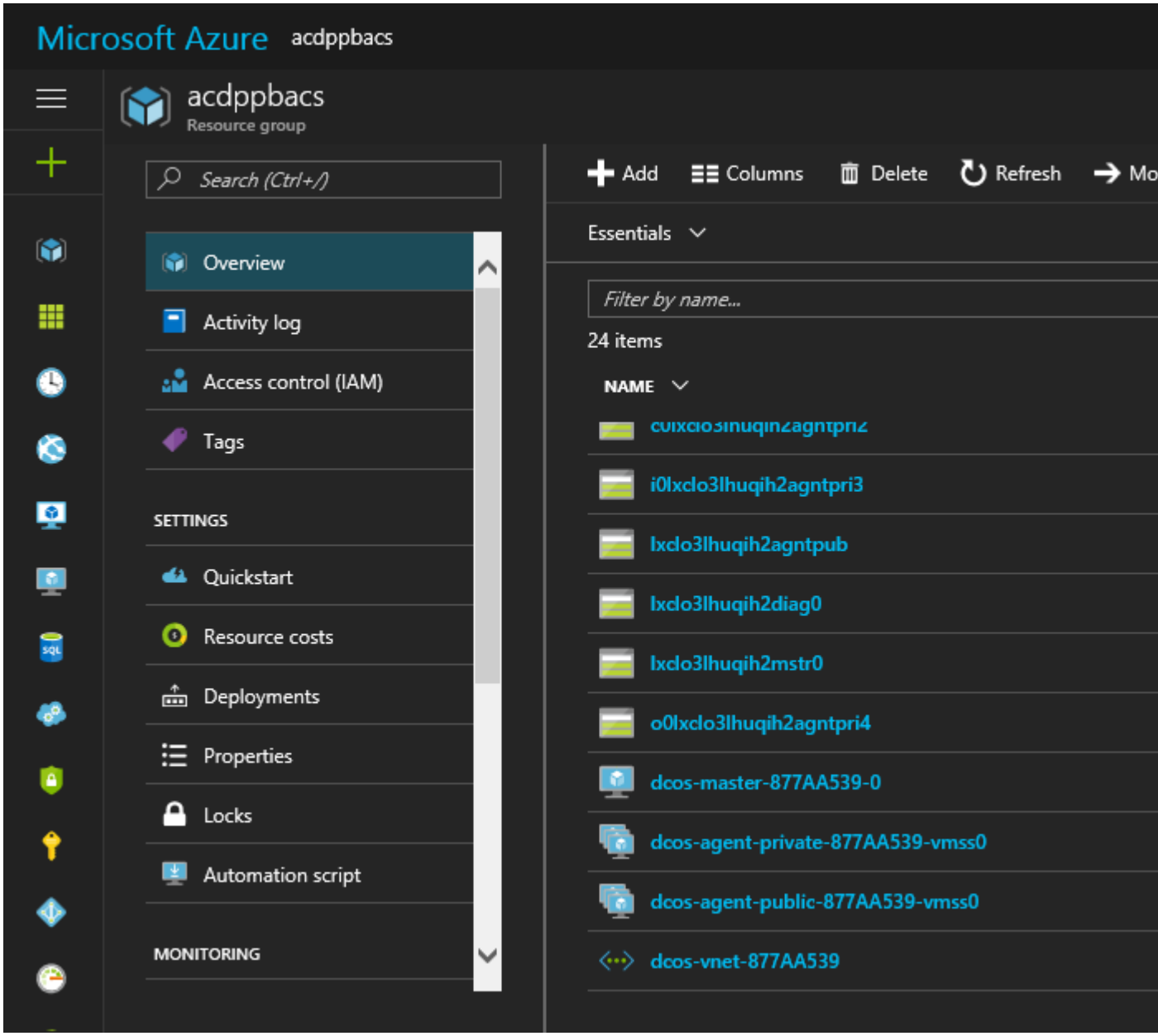
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acdppbacs
acdppbacs
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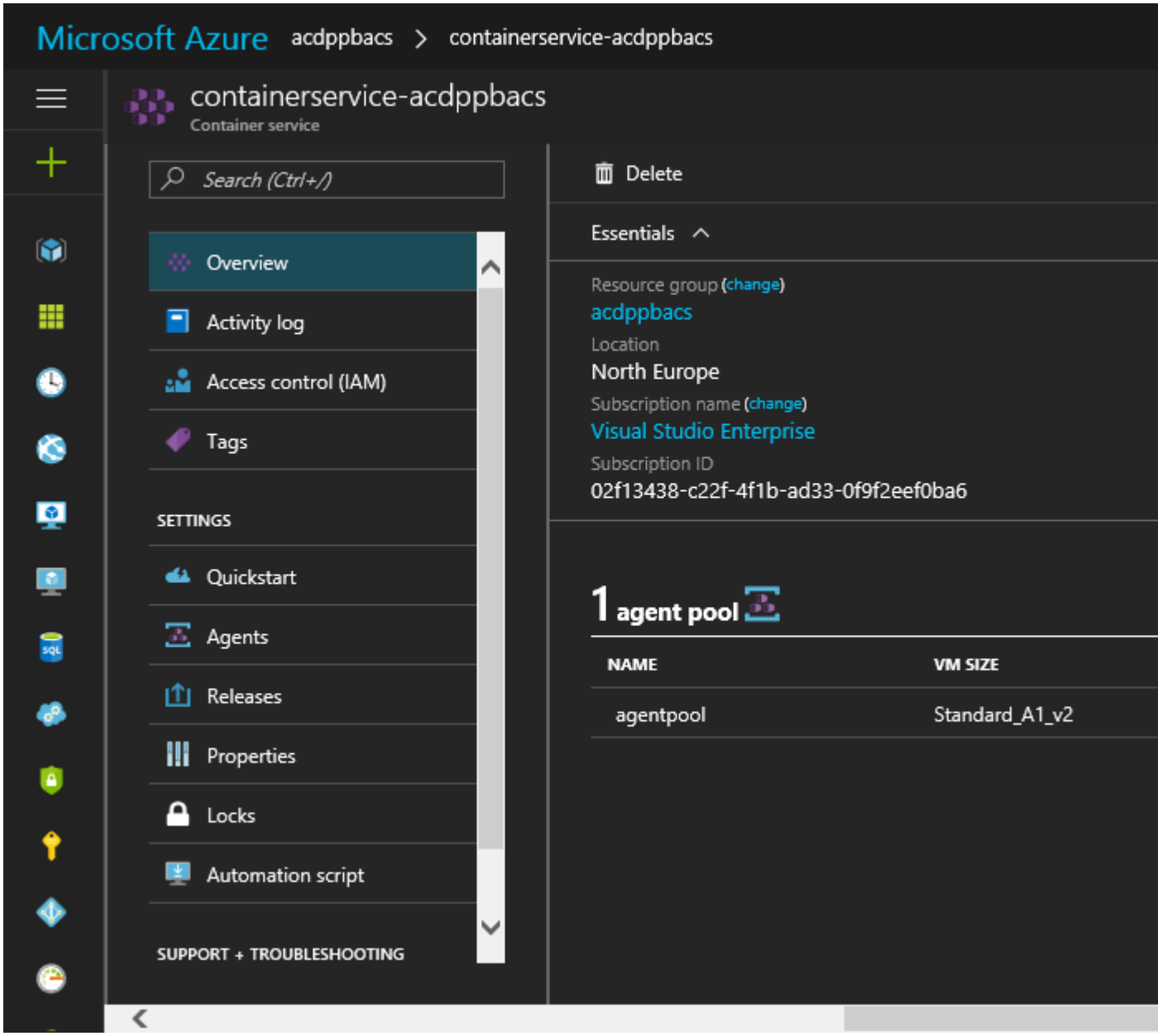
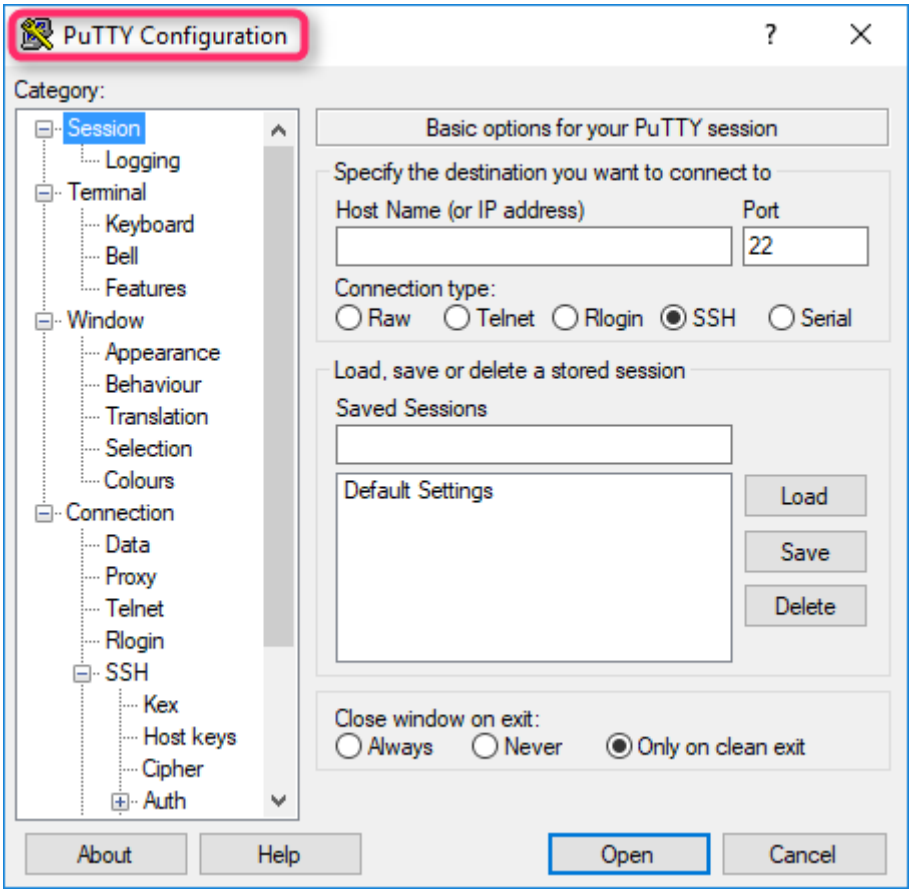
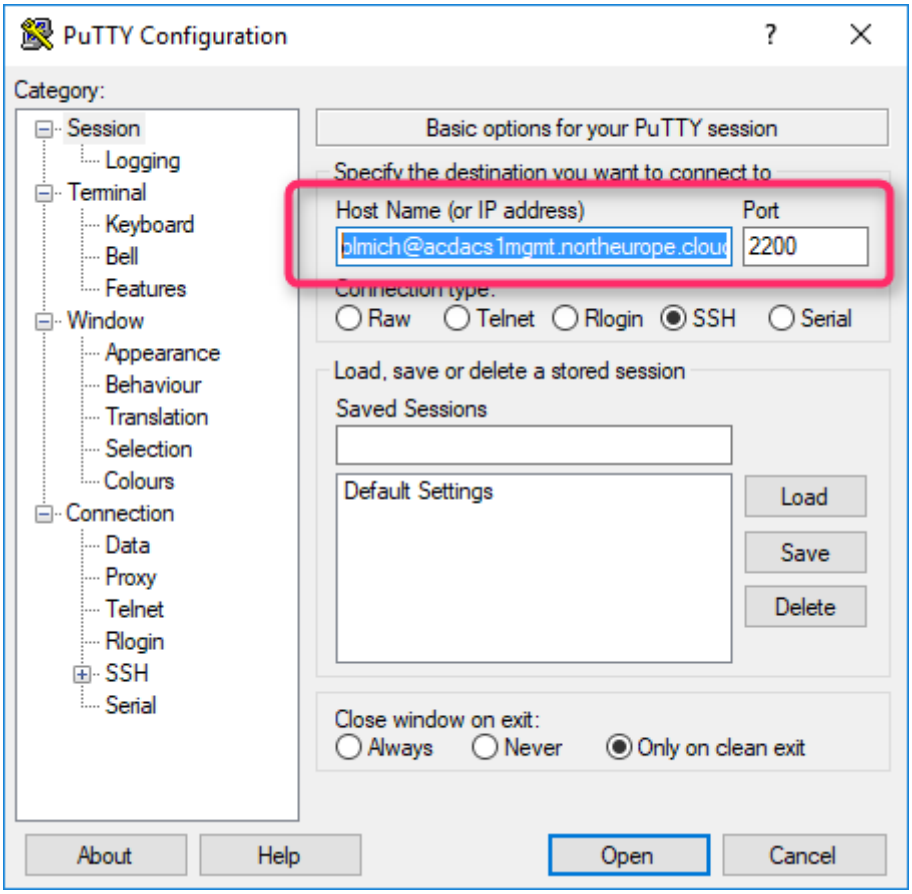
Resource costs
Deployments
Properties
Locks
Automation script
MONITORING
Add
Columns
Delete
Refresh
Essentials
Filter by name...
24 items
NAME
i0lxclo3lhuqih2agntpri3
lxclo3lhuqih2agntpub
lxclo3lhuqih2diag0
lxclo3lhuqih2mstr0
o0lxclo3lhuqih2agntpri4
dcos-master-877AA539-0
dcos-agent-private-877AA539-vmss0
dcos-agent-public-877AA539-vmss0
dcos-vnet-877AA539


Microsoft Azure
acdppbacs > containerservice-acdppbacs
containerservice-acdppbacs
Container service
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
SETTINGS
Quickstart
Agents
Releases
Properties
Locks
Automation script
SUPPORT + TROUBLESHOOTING
Delete
Essentials
Resource group (change)
acdppbacs
Location
North Europe
Subscription name (change)
Visual Studio Enterprise
Subscription ID
02f13438-c22f-4f1b-ad33-0f9f2eef0ba6
1 agent pool
NAME
VM SIZE
agentpool
Standard_A1_v2


PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Host keys
Cipher
Auth
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
22
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
Default Settings
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel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Keyboard
Bell
Features
Window
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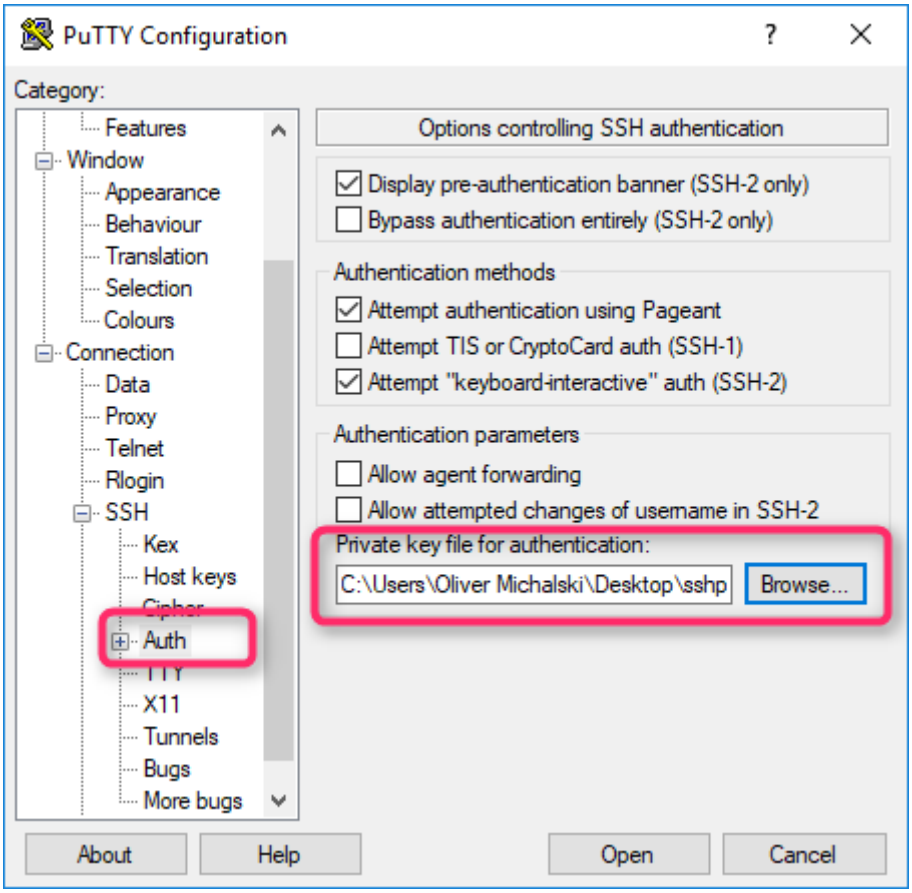
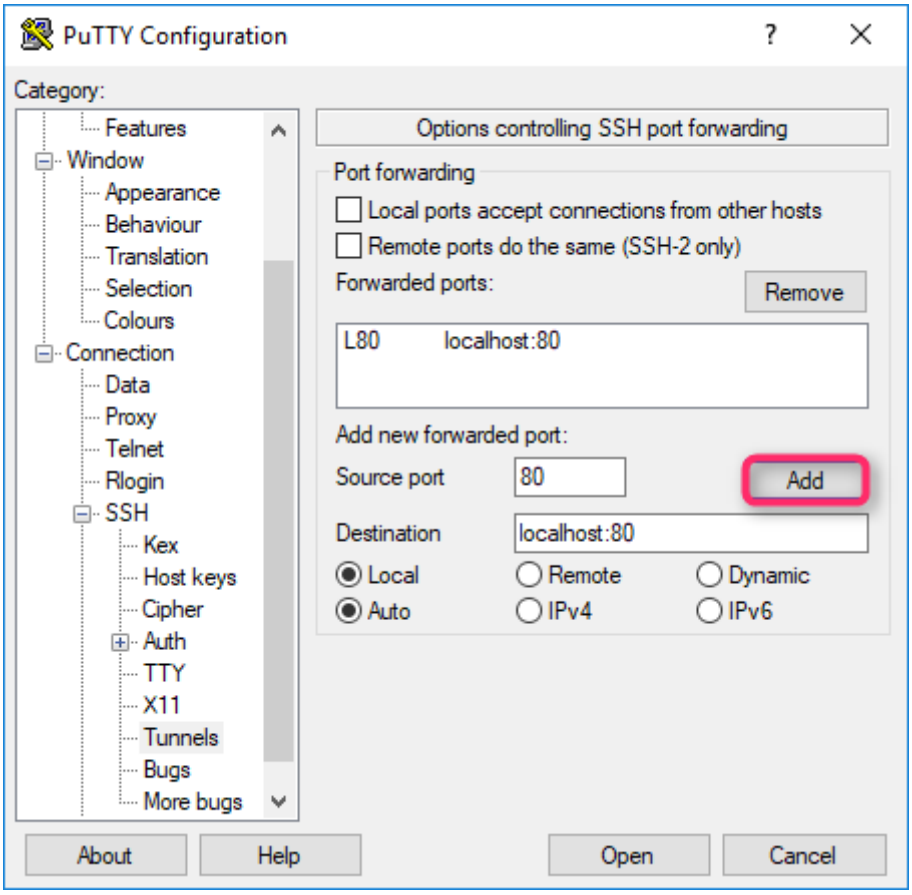
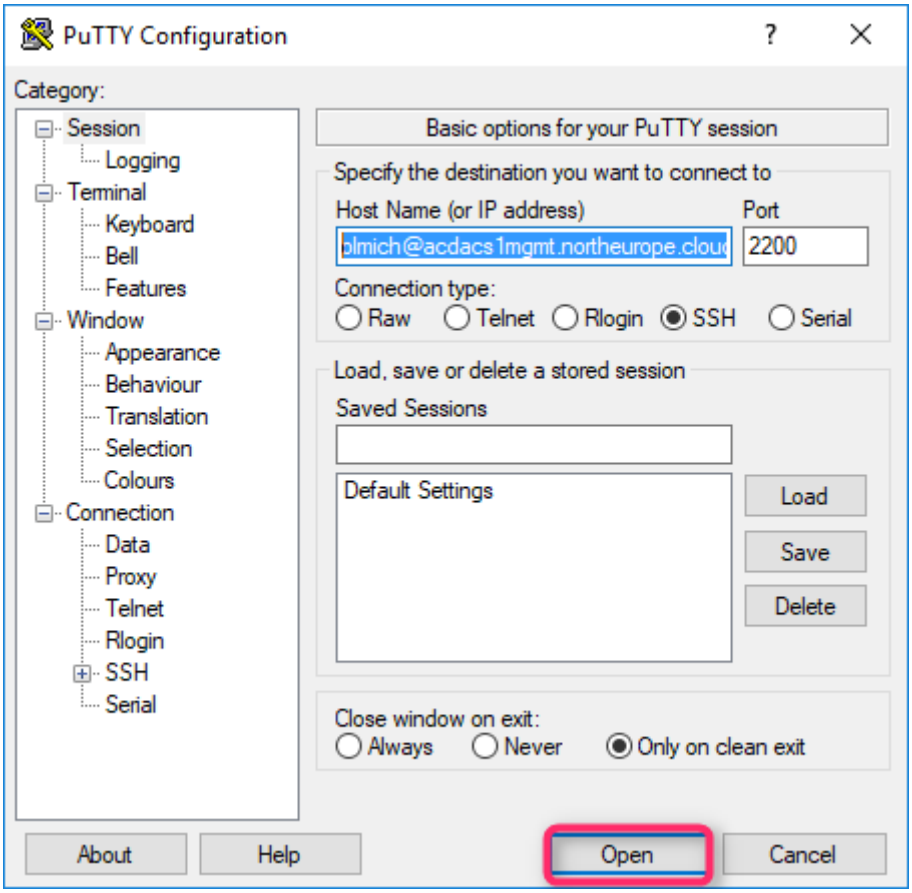
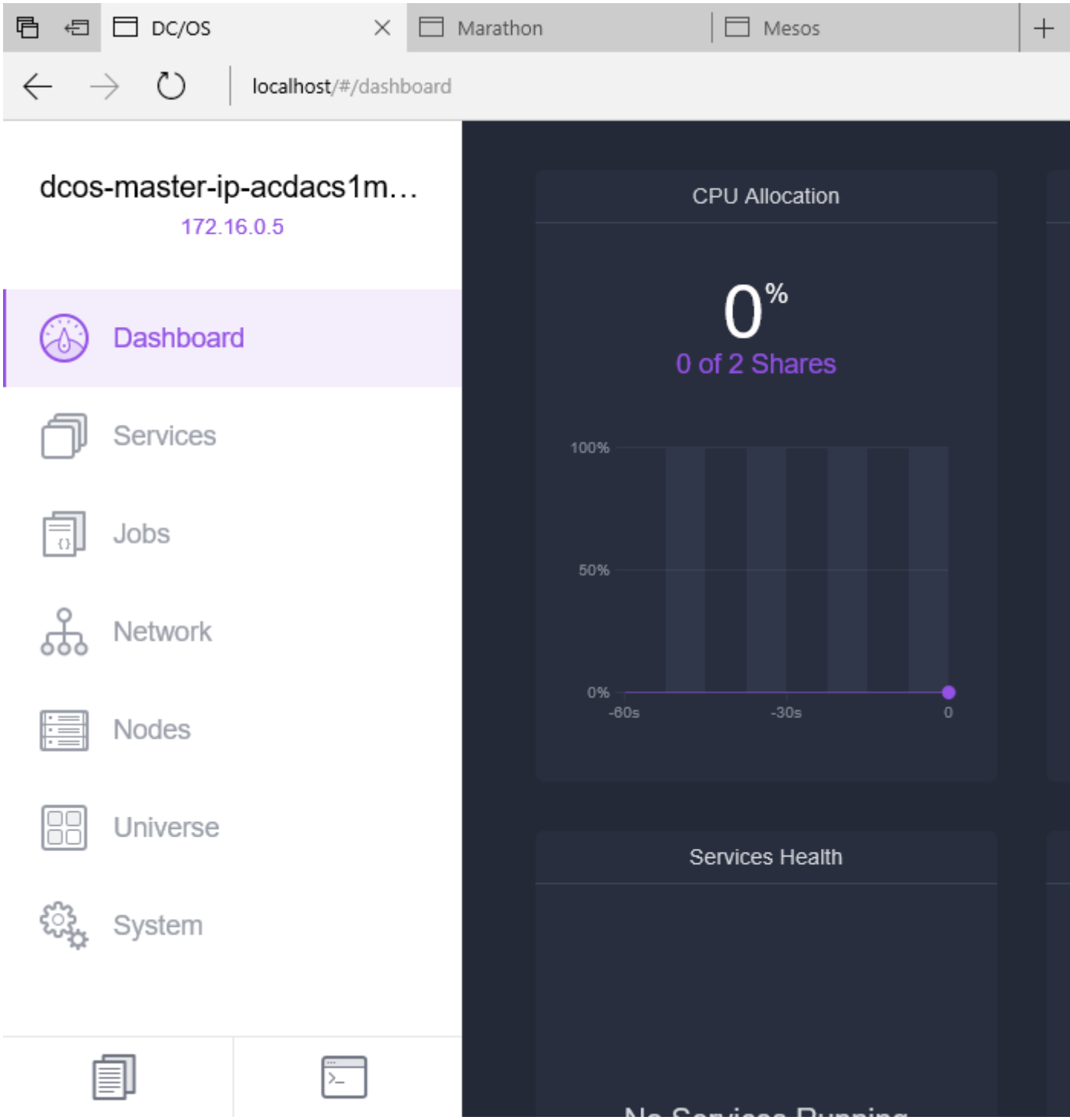
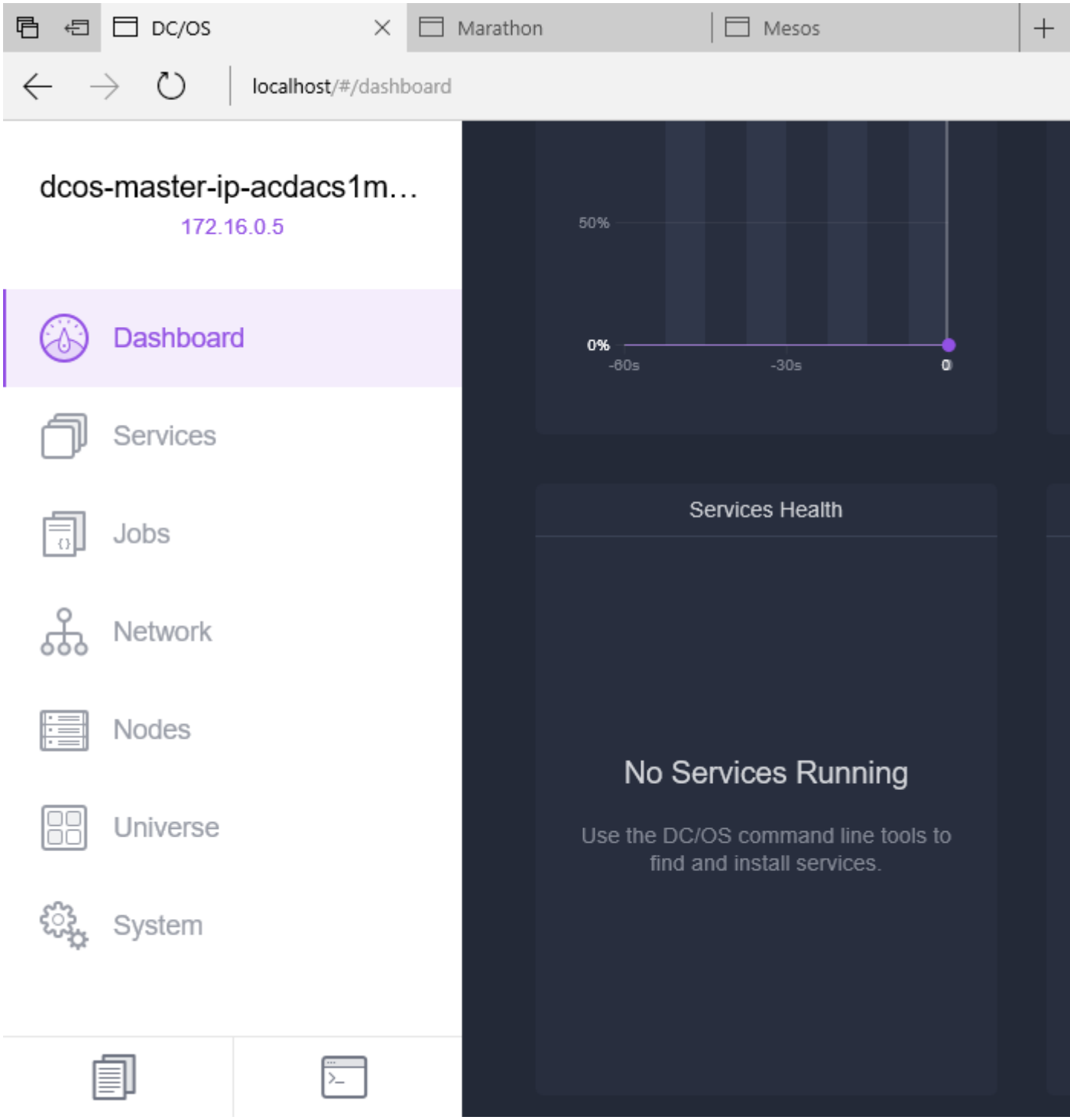
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Serial
Basic options for your PuTTY session
Host Name (or IP address)
Port
2200
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
Default Settings
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel

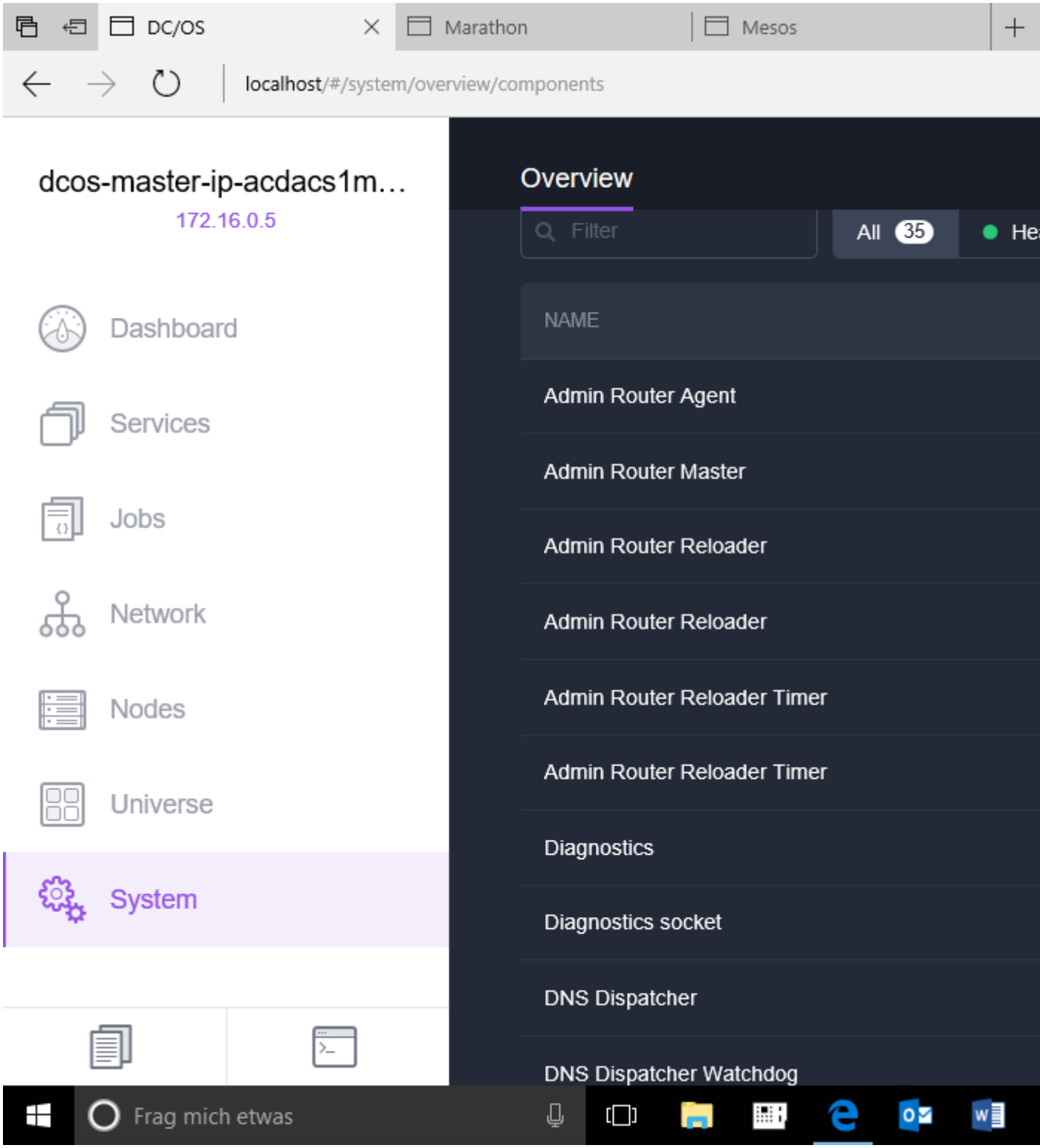

PuTTY Configuration
Category:
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Options controlling SSH authentication
Display pre-authentication banner (SSH-2 only)
Bypass authentication entirely (SSH-2 only)
Authentication methods
Attempt authentication using Pageant
Attempt TIS or CryptoCard auth (SSH-1)
Attempt "keyboard-interactive" auth (SSH-2)
Authentication parameters
Allow agent forwarding
Allow attempted changes of username in SSH-2
Private key file for authentication:
C:\Users\Oliver Michalski\Desktop\sshp
Browse...
About
Help
Open
Cancel

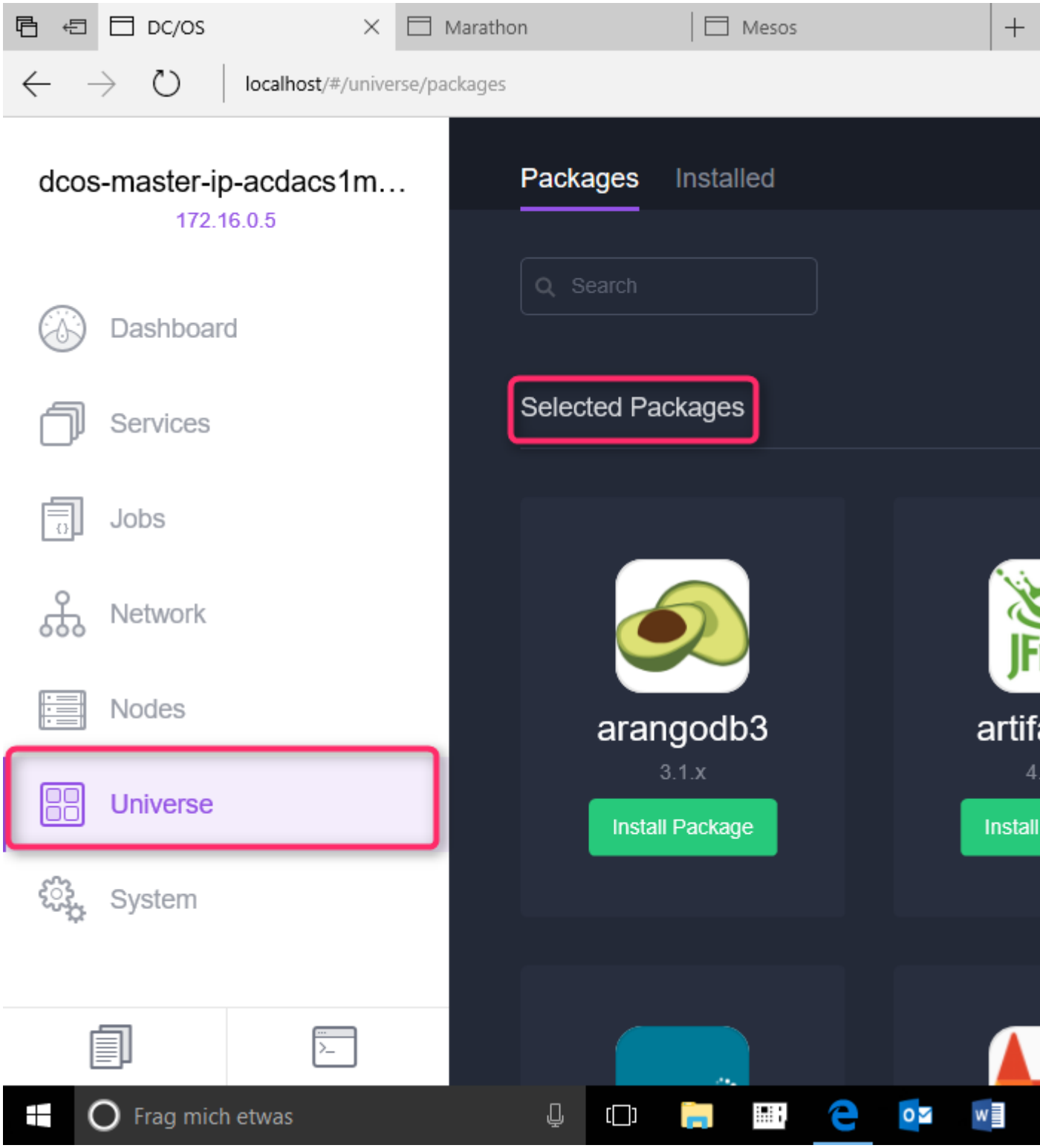

PuTTY Configuration
Category:
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Host keys
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Options controlling SSH port forwarding
Port forwarding
Local ports accept connections from other hosts
Remote ports do the same (SSH-2 only)
Forwarded ports:
Remove
L80 localhost:80
Add new forwarded port:
Source port
80
Add
Destination
localhost:80
Local
Remote
Dynamic
Auto
IPv4
IPv6
About
Help
Open
Cancel

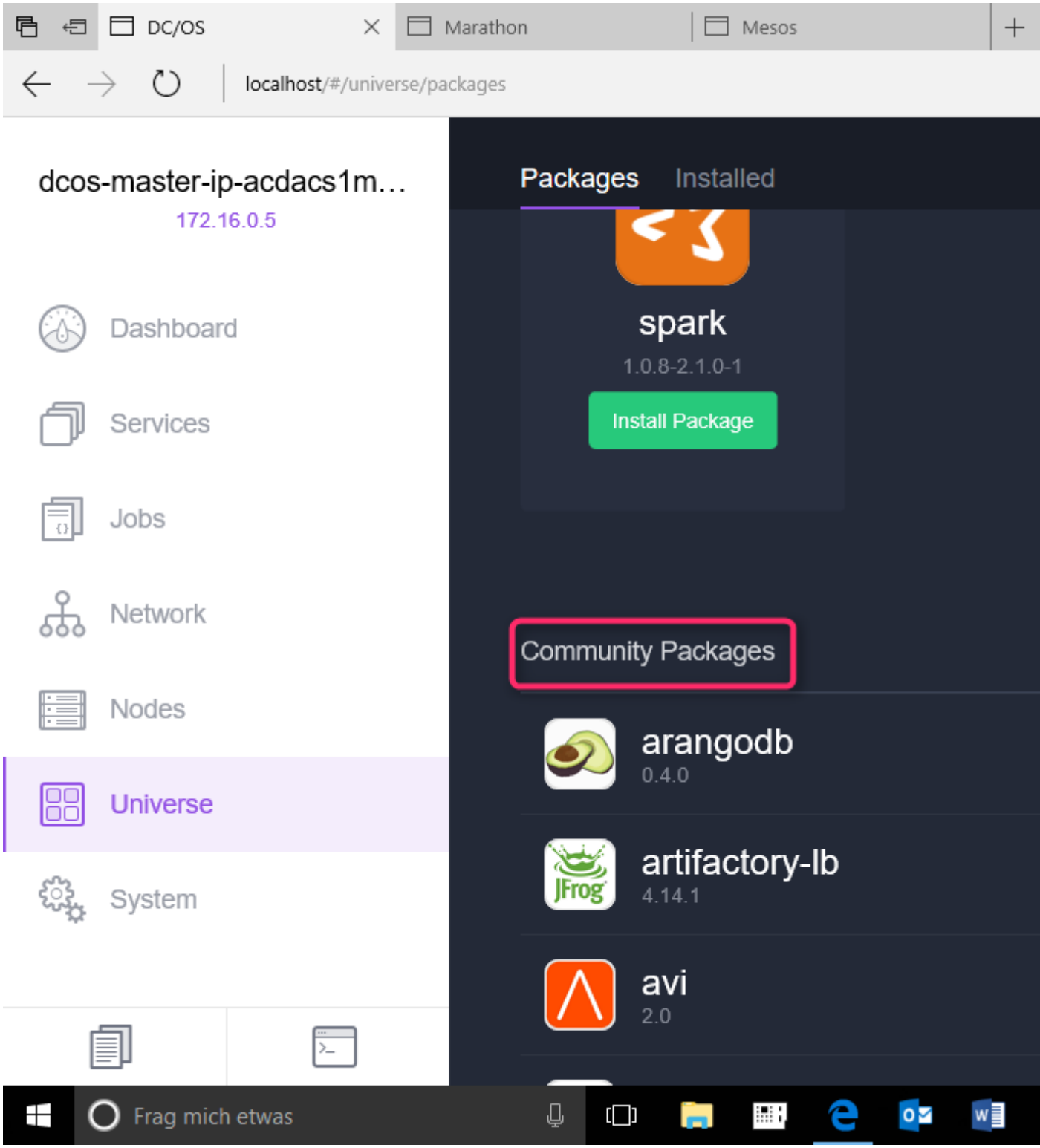

PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Serial
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
blmich@acdacs1mgmt.northeurope.clou
2200
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
Default Settings
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel

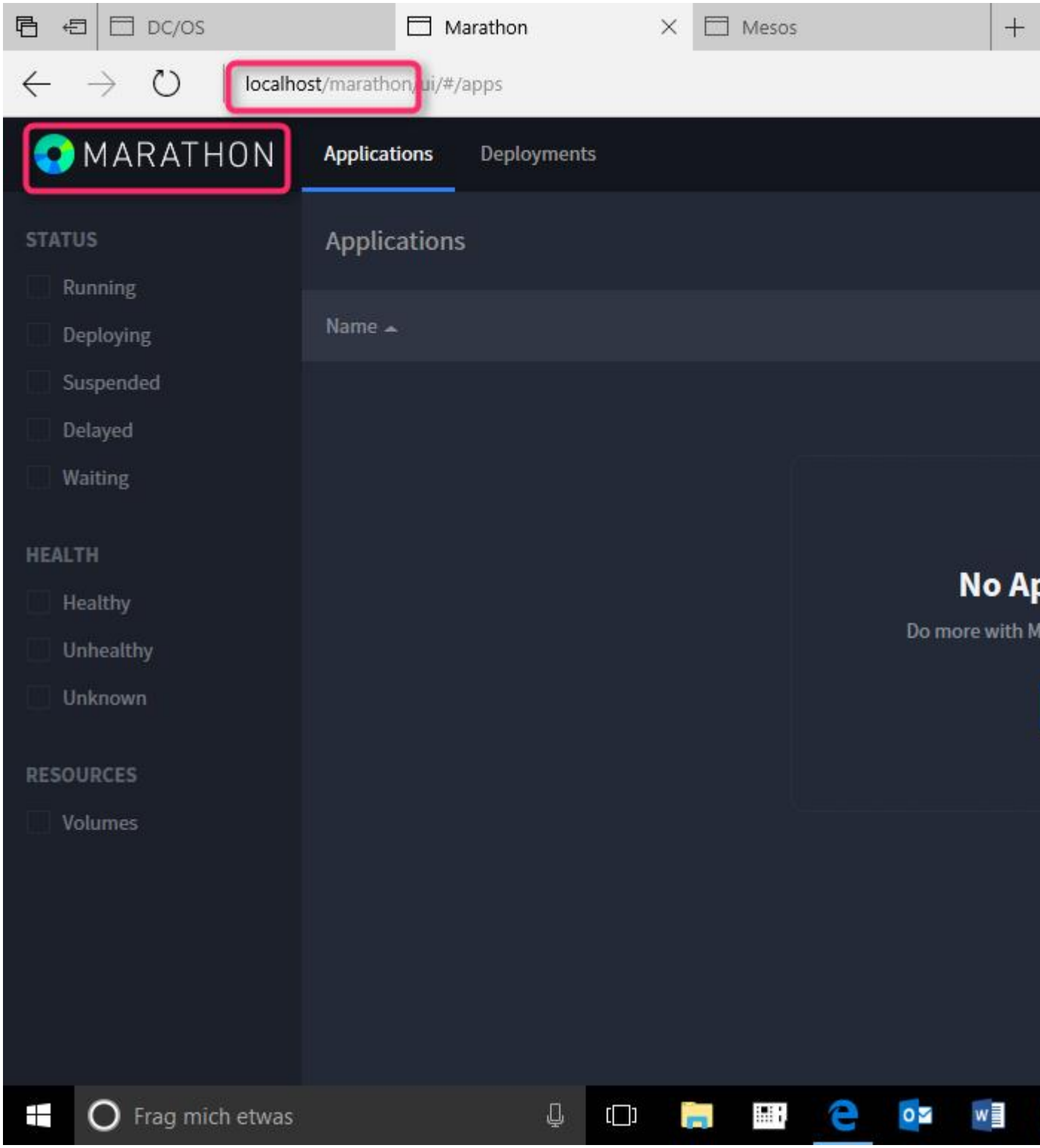

DC/OS
Marathon
Mesos
localhost/#/dashboard
dcos-master-ip-acdacs1m…
172.16.0.5
Dashboard
Services
Jobs
Network
Nodes
Universe
System
CPU Allocation
0%
0 of 2 Shares
100%
50%
0%
-60s
-30s
0
Services Health

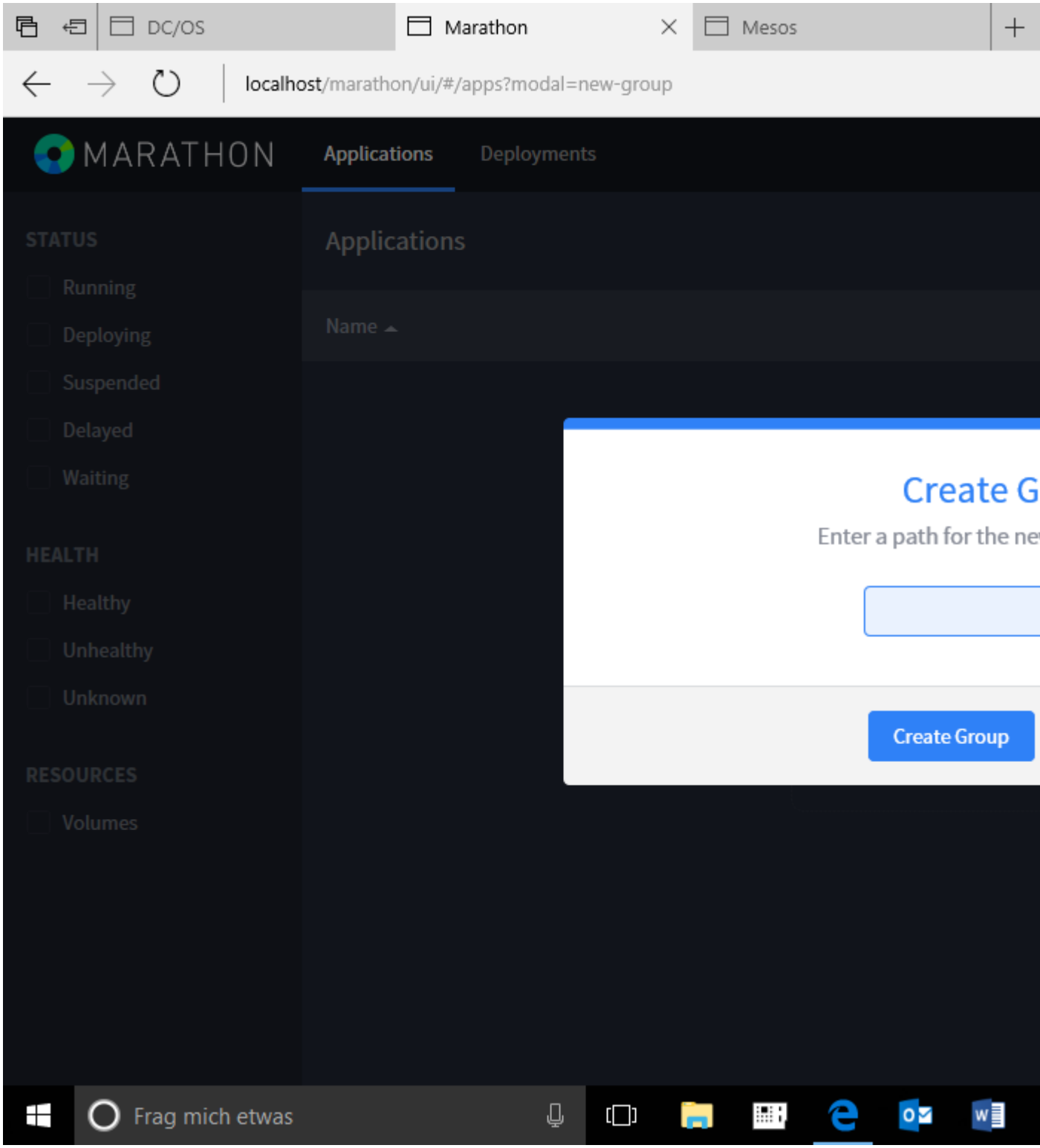

DC/OS
Marathon
Mesos
localhost/#/dashboard
dcos-master-ip-acdacs1m…
172.16.0.5
Dashboard
Services
Jobs
Network
Nodes
Universe
System
50%
0%
-60s
-30s
0
Services Health
No Services Running
Use the DC/OS command line tools to find and install services.

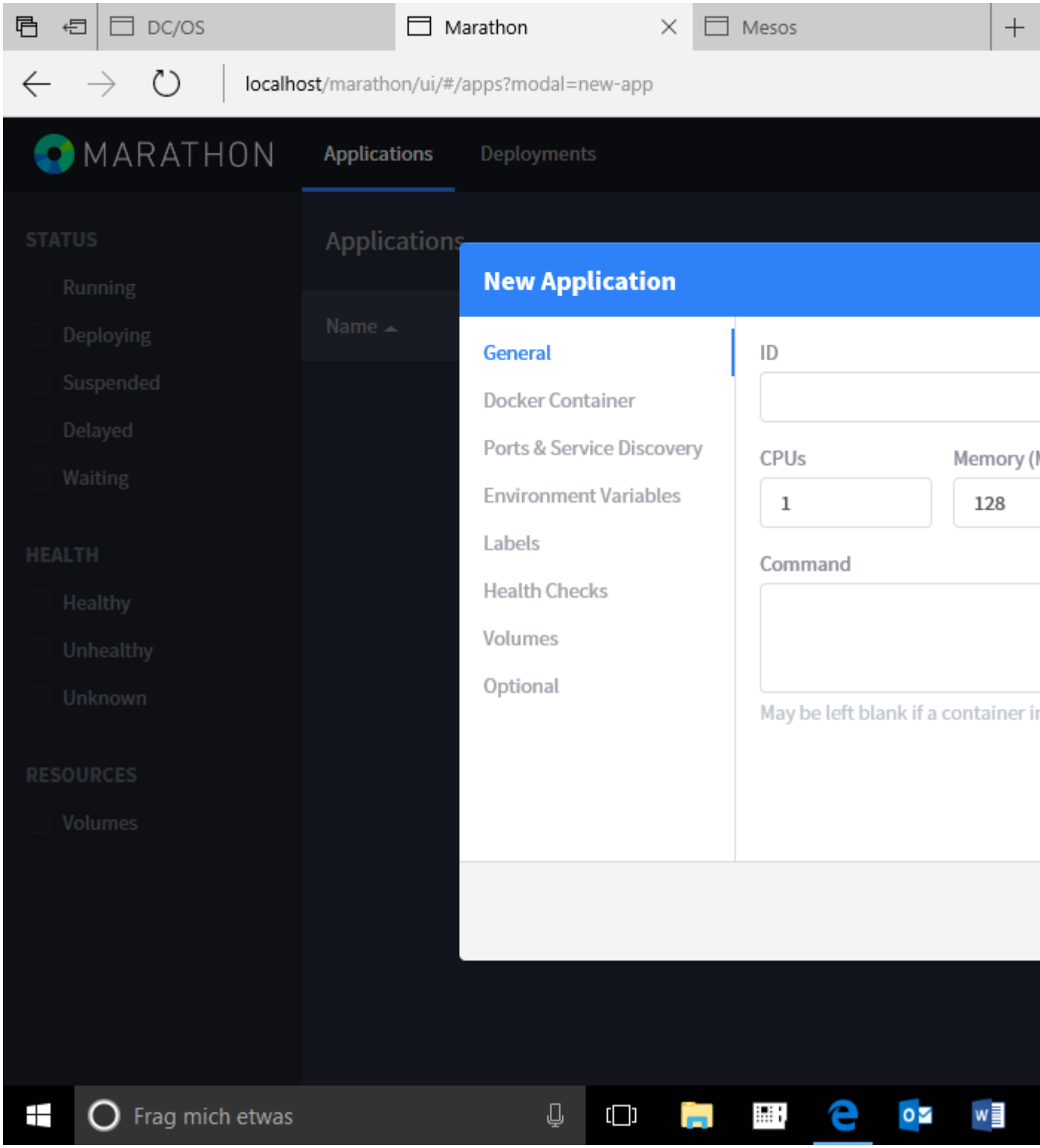

DC/OS
Marathon
Mesos
localhost/#/system/overview/components
dcos-master-ip-acdacs1m…
172.16.0.5
Dashboard
Services
Jobs
Network
Nodes
Universe
System
Overview
Filter
All 35
NAME
Admin Router Agent
Admin Router Master
Admin Router Reloader
Admin Router Reloader
Admin Router Reloader Timer
Admin Router Reloader Timer
Diagnostics
Diagnostics socket
DNS Dispatcher
DNS Dispatcher Watchdog
Frag mich etwas

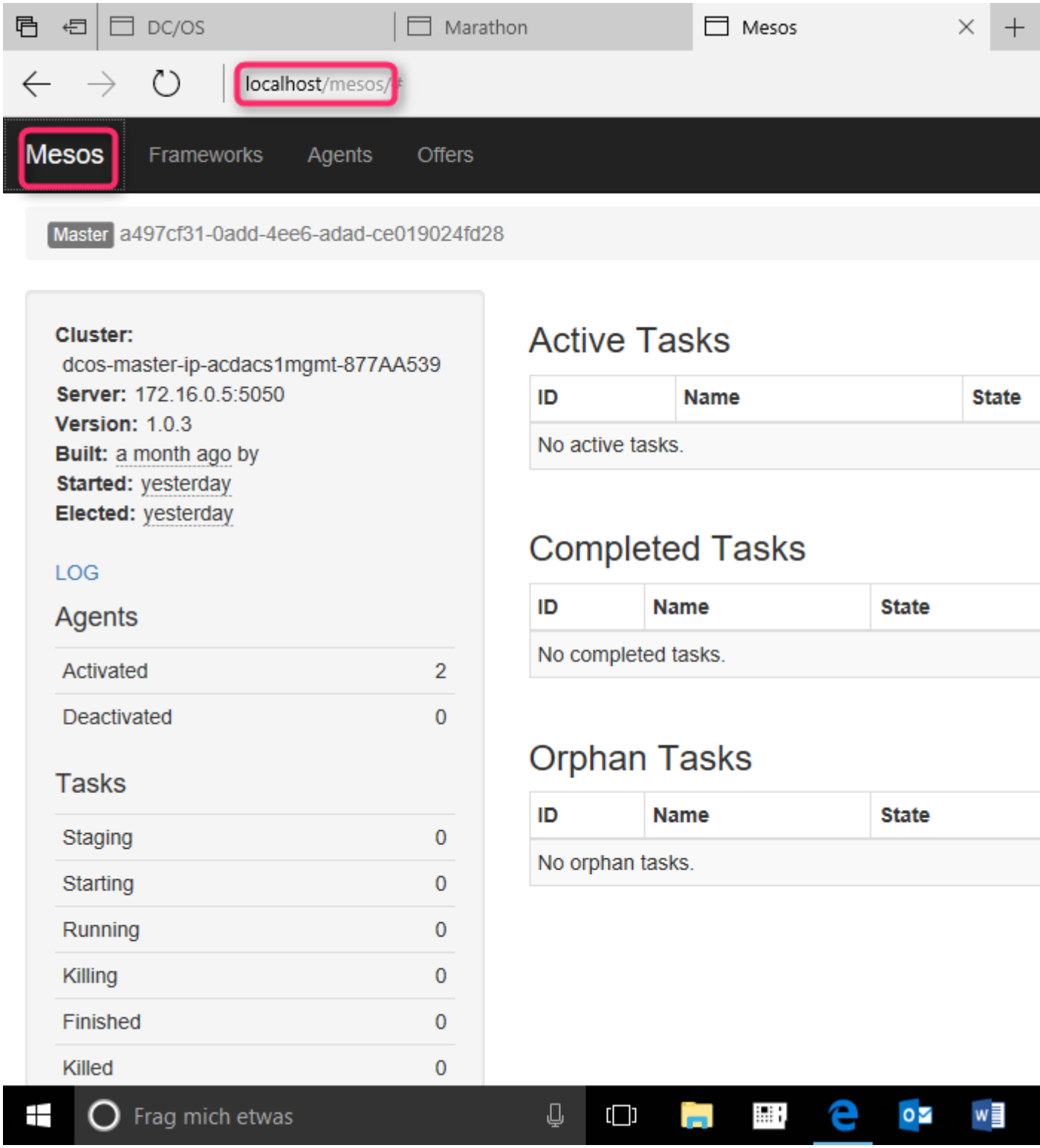

DC/OS
Marathon
Mesos
localhost/#/universe/packages
dcos-master-ip-acdacs1m…
172.16.0.5
Dashboard
Services
Jobs
Network
Nodes
Universe
System
Packages
Installed
Search
Selected Packages
arangodb3
3.1.x
Install Package
Frag mich etwas

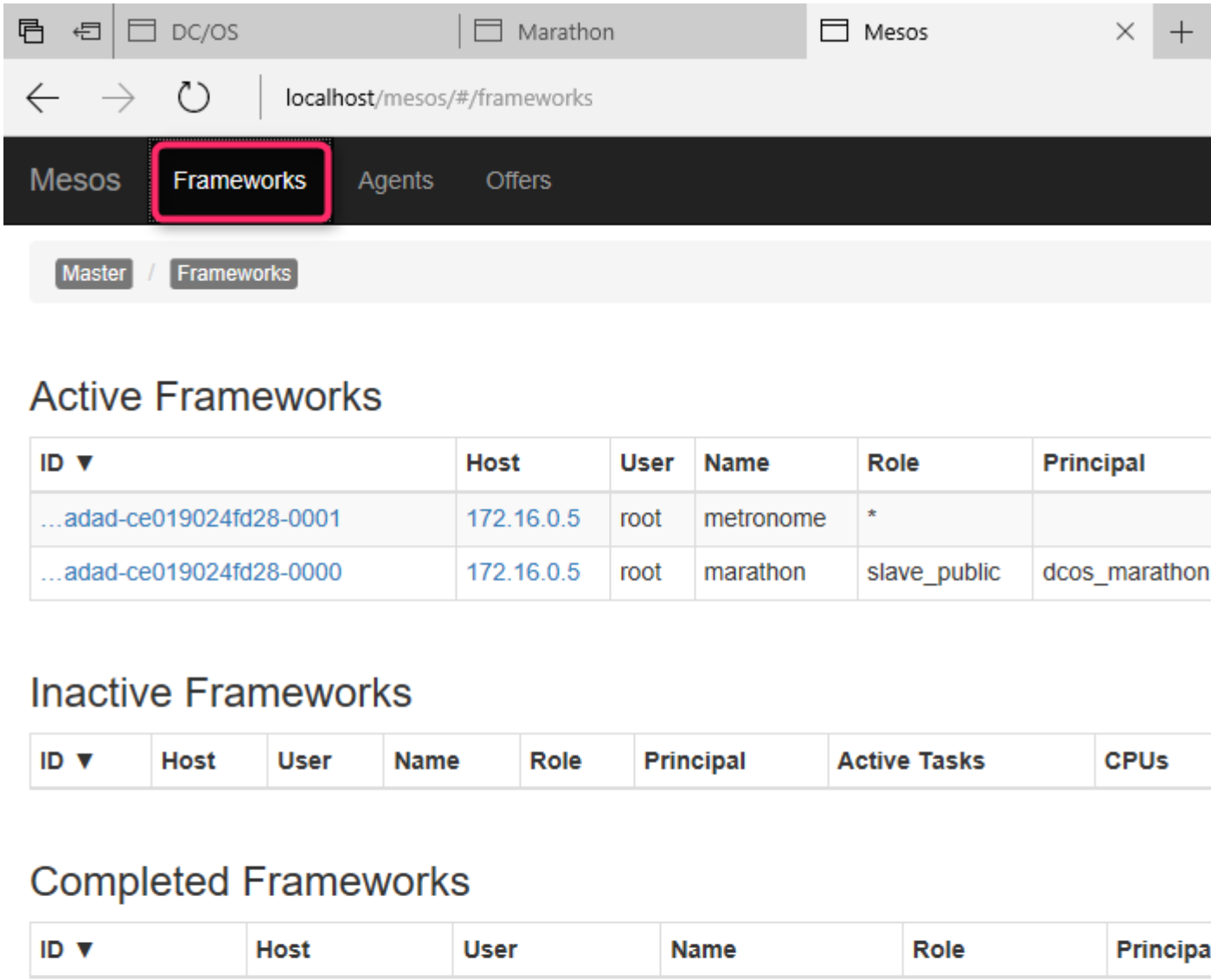

DC/OS
Marathon
Mesos
localhost/#/universe/packages
dcos-master-ip-acdacs1m…
172.16.0.5
Dashboard
Services
Jobs
Network
Nodes
Universe
System
Packages
Installed
spark
1.0.8-2.1.0-1
Install Package
Community Packages
arangodb
0.4.0
artifactory-lb
4.14.1
avi
2.0
Frag mich etwas

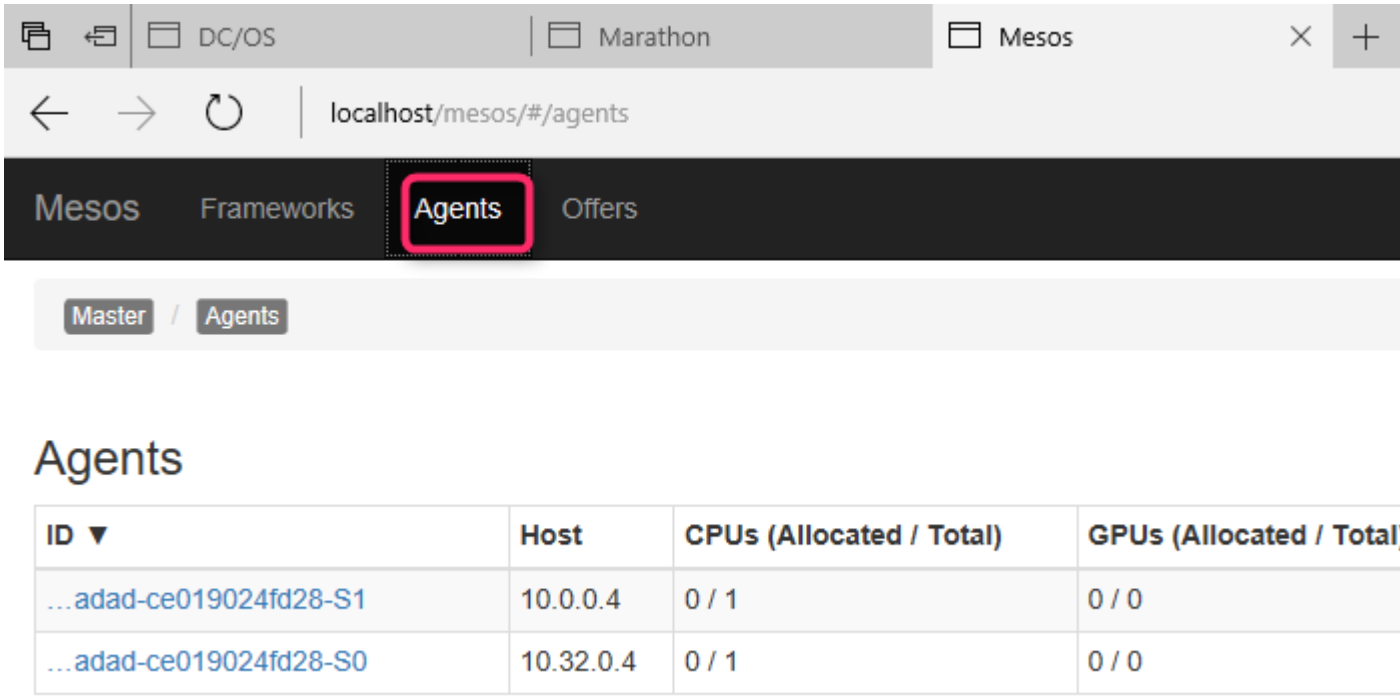

DC/OS
Marathon
Mesos
localhost/marathon/ui/#/apps
MARATHON
Applications
Deployments
STATUS
Running
Deploying
Suspended
Delayed
Waiting
HEALTH
Healthy
Unhealthy
Unknown
RESOURCES
Volumes
Applications
Name
No Ap
Do more with M
Frag mich etwas


DC/OS
Marathon
Mesos
localhost/marathon/ui/#/apps?modal=new-group
MARATHON
Applications
Deployments
STATUS
Running
Deploying
Suspended
Delayed
Waiting
HEALTH
Healthy
Unhealthy
Unknown
RESOURCES
Volumes
Applications
Name
Create G
Enter a path for the ne
Create Group
Frag mich etwas


DC/OS
Marathon
Mesos
localhost/marathon/ui/#/apps?modal=new-app
MARATHON
Applications
Deployments
STATUS
Running
Deploying
Suspended
Delayed
Waiting
HEALTH
Healthy
Unhealthy
Unknown
RESOURCES
Volumes
Applications
Name
New Application
General
Docker Container
Ports & Service Discovery
Environment Variables
Labels
Health Checks
Volumes
Optional
ID
CPUs
1
Memory (
128
Command
May be left blank if a container
Frag mich etwas

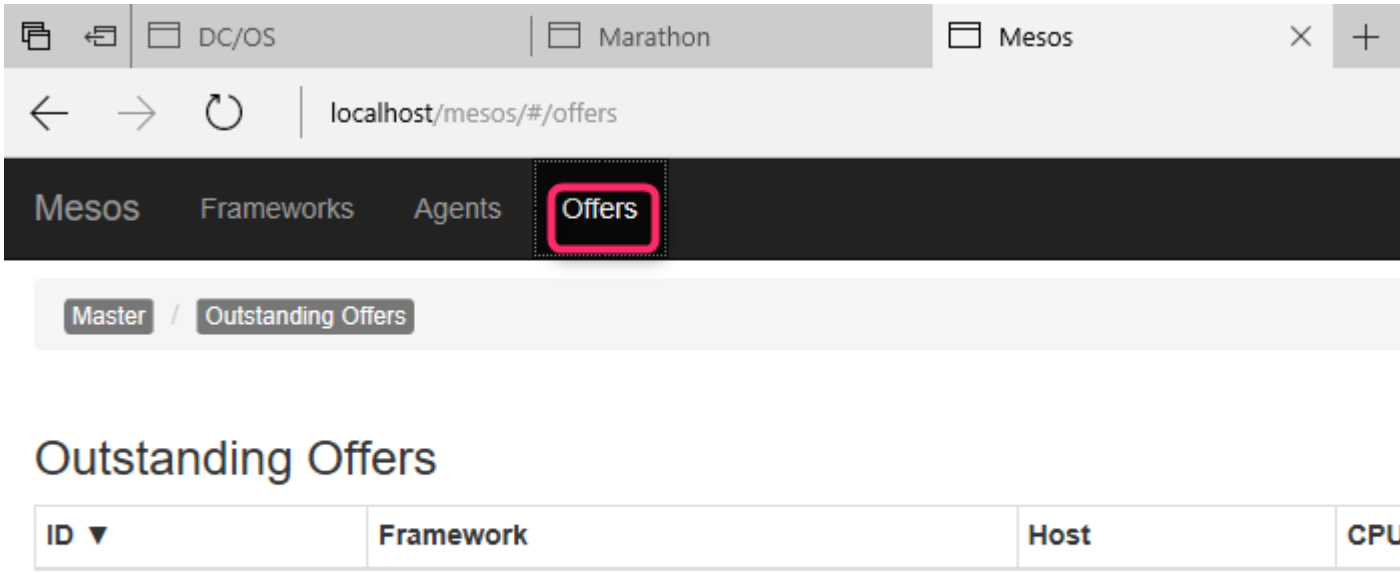

DC/OS
Marathon
Mesos
localhost/mesos/#
Mesos
Frameworks
Agents
Offers
Master a497cf31-0add-4ee6-adad-ce019024fd28
Cluster:
dcos-master-ip-acdacs1mgmt-877AA539
Server: 172.16.0.5:5050
Version: 1.0.3
Built: a month ago by
Started: yesterday
Elected: yesterday
LOG
Agents
Activated 2
Deactivated 0
Tasks
Staging 0
Starting 0
Running 0
Killing 0
Finished 0
Killed 0
Active Tasks
ID Name State
No active tasks.
Completed Tasks
ID Name State
No completed tasks.
Orphan Tasks
ID Name State
No orphan tasks.
Frag mich etwas


DC/OS
Marathon
Mesos
localhost/mesos/#/frameworks
Mesos
Frameworks
Agents
Offers
Master
Frameworks
Active Frameworks
ID ▼
Host
User
Name
Role
Principal
...adad-ce019024fd28-0001
172.16.0.5
root
metronome
*
...adad-ce019024fd28-0000
172.16.0.5
root
marathon
slave_public
dcos_marathon
Inactive Frameworks
ID ▼
Host
User
Name
Role
Principal
Active Tasks
CPUs
Completed Frameworks
ID ▼
Host
User
Name
Role
Principa

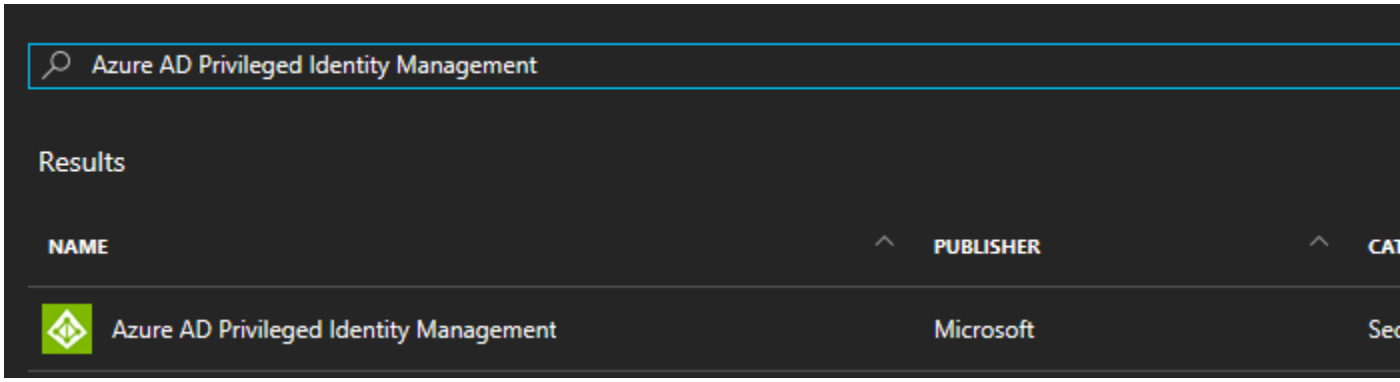


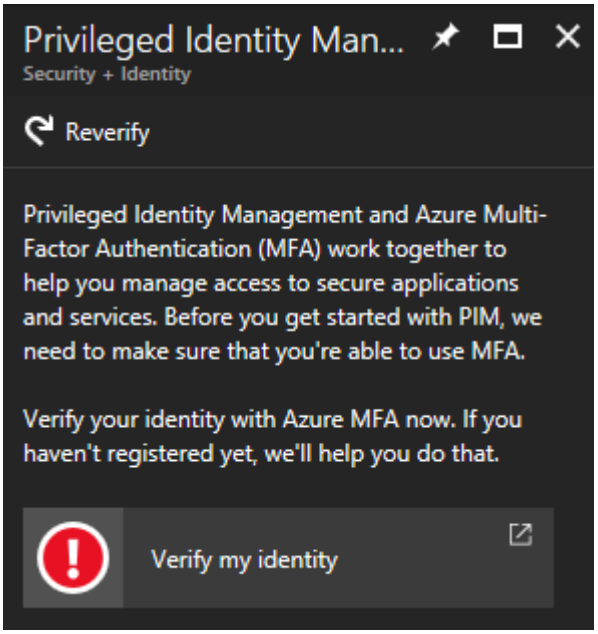
Agents

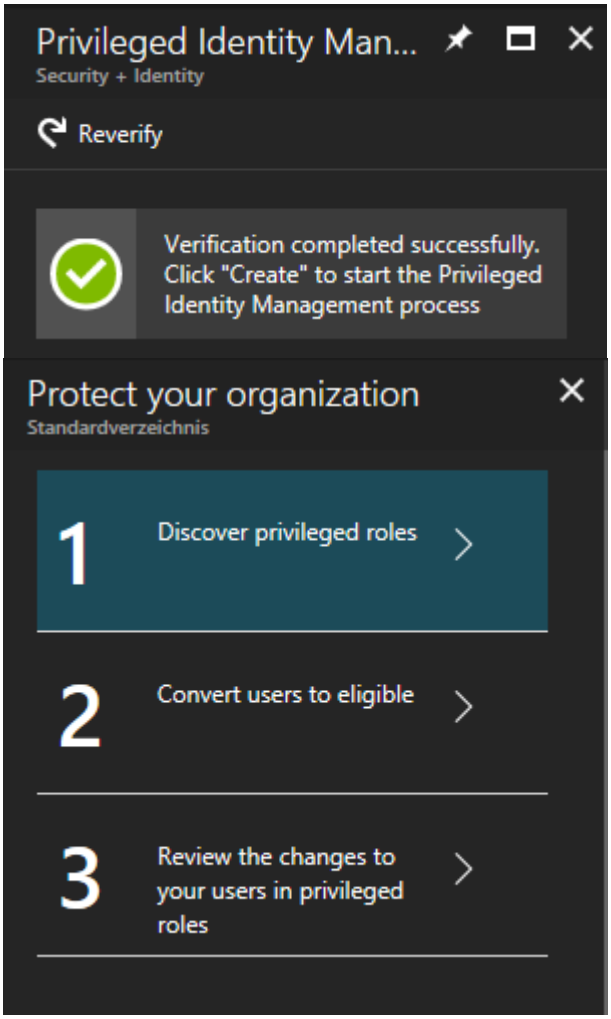
ID ▼	Host	CPUs (Allocated / Total)	GPUs (Allocated / Total)
...adad-ce019024fd28-S1	10.0.0.4	0 / 1	0 / 0
...adad-ce019024fd28-S0	10.32.0.4	0 / 1	0 / 0

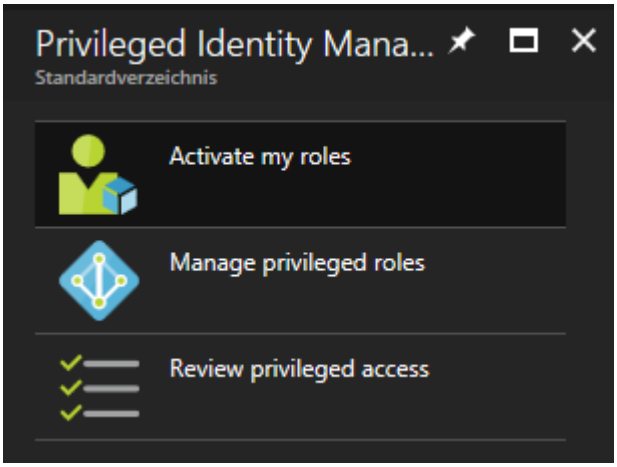

DC/OS
Marathon
Mesos
localhost/mesos/#/offers
Mesos
Frameworks
Agents
Offers
Master
Outstanding Offers
Outstanding Offers
ID ▼
Framework
Host
CPU

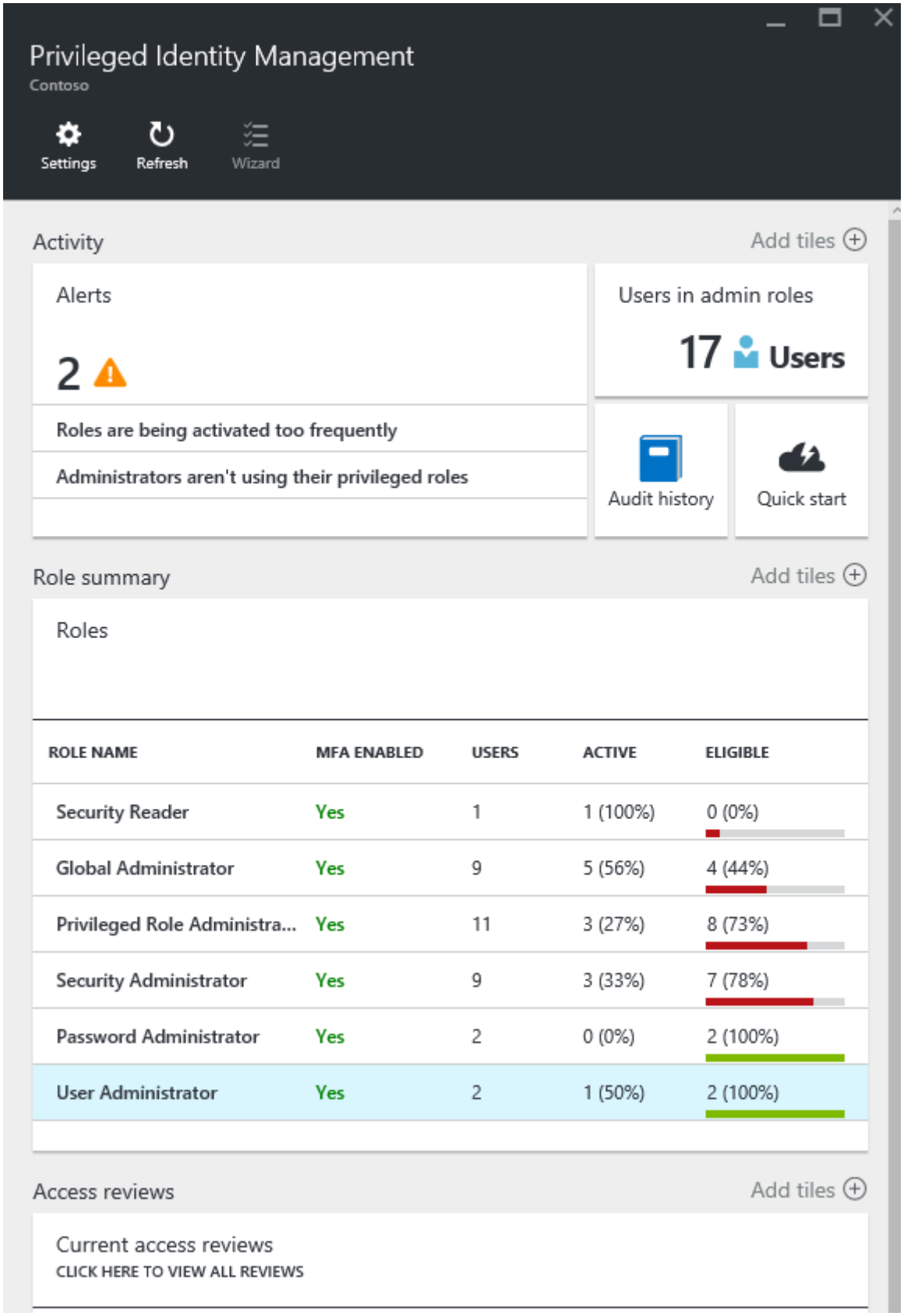
Chapter 9: Implementing Azure Security

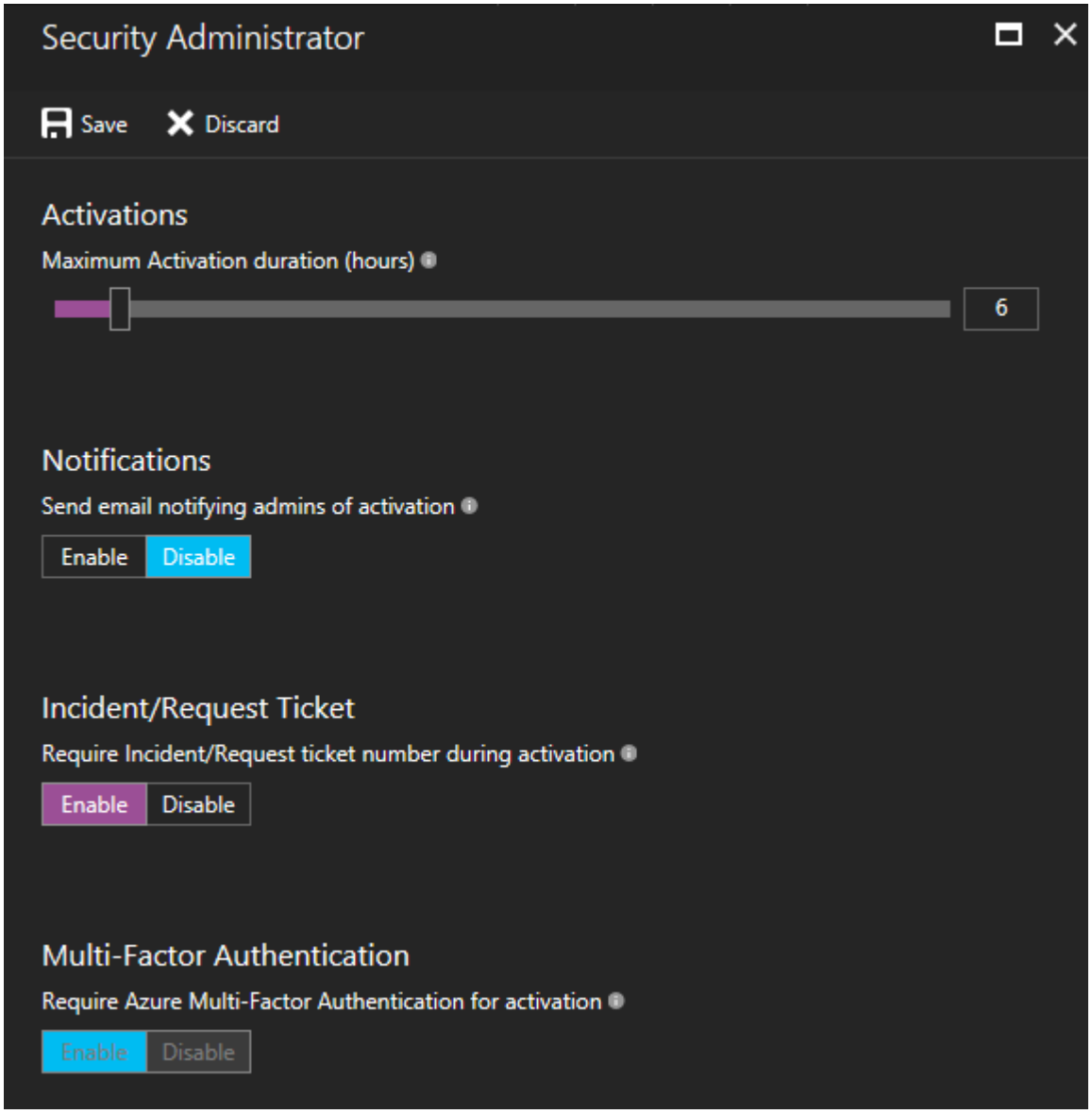


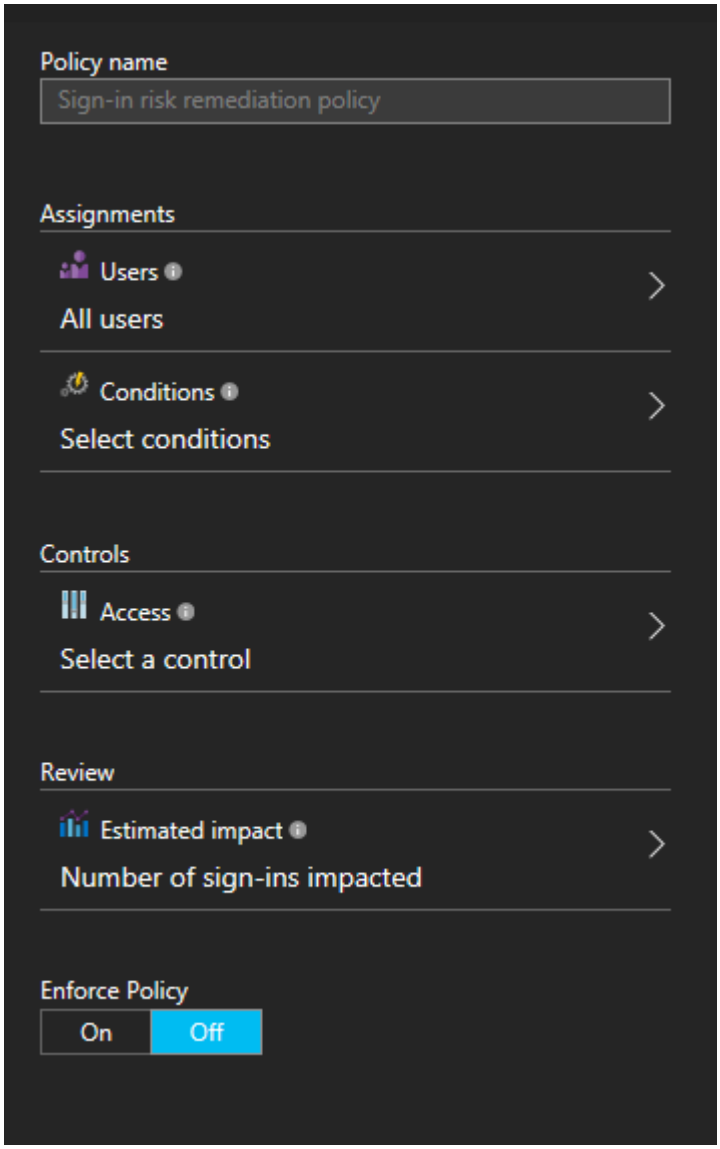


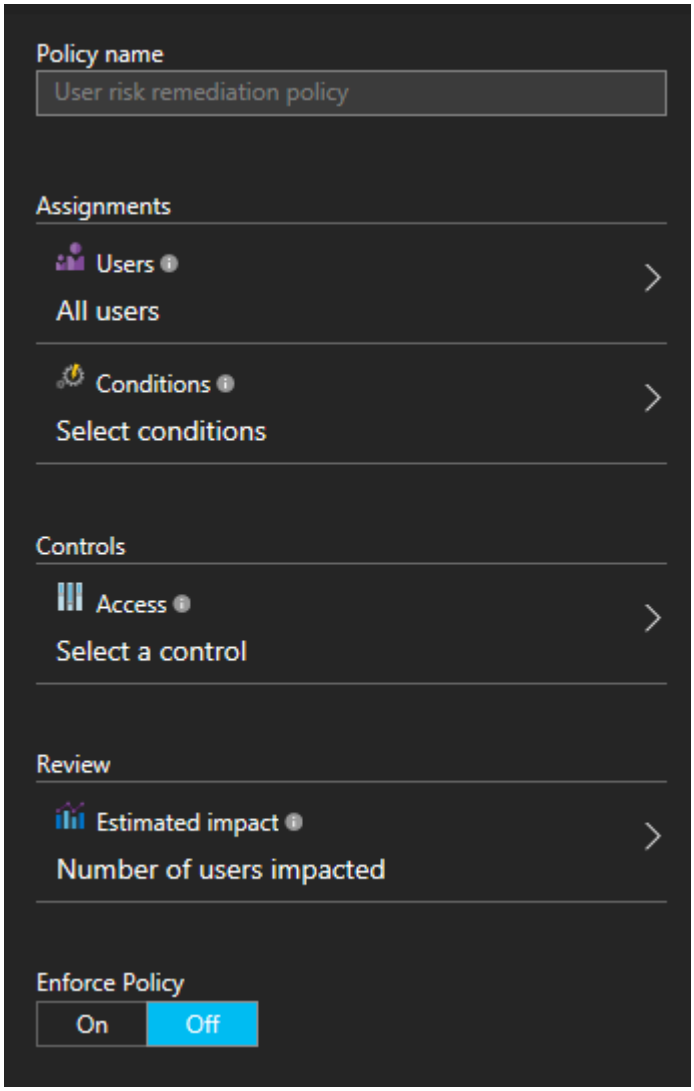

Privileged Identity Man...
Security + Identity
Reverify
Verification completed successfully. Click "Create" to start the Privileged Identity Management process
Protect your organization
Standardverzeichnis
1
Discover privileged roles
2
Convert users to eligible
3
Review the changes to your users in privileged roles


Privileged Identity Mana...
Standardverzeichnis
Activate my roles
Manage privileged roles
Review privileged access


Privileged Identity Management
Contoso
Settings
Refresh
Wizard
Activity
Add tiles
Alerts
2
Roles are being activated too frequently
Administrators aren't using their privileged roles
Users in admin roles
17 Users
Audit history
Quick start
Role summary
Add tiles
Roles
ROLE NAME
MFA ENABLED
USERS
ACTIVE
ELIGIBLE
Security Reader
Yes
1
1 (100%)
0 (0%)
Global Administrator
Yes
9
5 (56%)
4 (44%)
Privileged Role Administra...
Yes
11
3 (27%)
8 (73%)
Security Administrator
Yes
9
3 (33%)
7 (78%)
Password Administrator
Yes
2
0 (0%)
2 (100%)
User Administrator
Yes
2
1 (50%)
2 (100%)
Access reviews
Add tiles
Current access reviews
CLICK HERE TO VIEW ALL REVIEWS


Security Administrator
Save
Discard
Activations
Maximum Activation duration (hours)
6
Notifications
Send email notifying admins of activation
Enable
Disable
Incident/Request Ticket
Require Incident/Request ticket number during activation
Enable
Disable
Multi-Factor Authentication
Require Azure Multi-Factor Authentication for activation
Enable
Disable


Policy name
Sign-in risk remediation policy
Assignments
Users
All users
Conditions
Select conditions
Controls
Access
Select a control
Review
Estimated impact
Number of sign-ins impacted
Enforce Policy
On
Off


Policy name
User risk remediation policy
Assignments
Users
All users
Conditions
Select conditions
Controls
Access
Select a control
Review
Estimated impact
Number of users impacted
Enforce Policy
On
Off

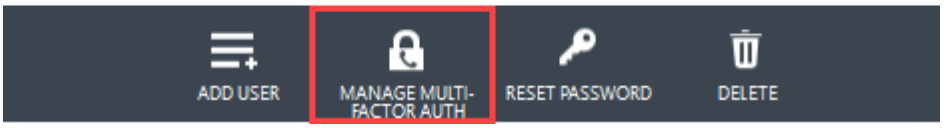
standardverzeichnis

DASHBOARD | USERS | GROUPS | APPLICATIONS | DOMAINS | DIRECTORY INTEGRATION | CONFIGURE

SECURITY AND HEALTH STATUS	STATUS (LAST 30 DAYS)	DETAILS
PRODUCTIVITY		
> Application Usage	6	View Application Usage
SECURITY		
> Users At Risk	0	View Users At Risk
> Risk Events	0	View Risk Events
MANAGEABILITY		
> Self-Service Password Resets out of Registrations	0 out of 0	View SSPR Activity
> Self-Service Group Management	0	View SSGM Activity

CONFIGURE SERVICE	STATUS	DETAILS
PRODUCTIVITY		
> Integrated Applications	3 application(s) used	Configure/Add/Remove
SECURITY		
> Cloud Multi-Factor Authentication	Enabled for 0 user(s)	Configure
> Security and Usage Reports	Opted In	View Reports
MANAGEABILITY		
> Connect Health	Disabled	Configure
> Tenant Branding	Not Configured	Configure
> Self Service Password Reset	Disabled	Configure

ee sync for user settings and app data. Enable Enterprise State Roaming. LEARN HOW TO ENABLE DON



Microsoft Azure

multi-factor authentication

users service settings

Note: only users licensed to use Microsoft Online Services are eligible for Multi-Factor Authentication. Learn more about how to
Before you begin, take a look at the multi-factor auth deployment guide.

View: Sign-in allowed users

Multi-Factor Auth status: Any

bulk update

DISPLAY NAME	USER NAME	MULTI-FACTOR AUTH STATUS
Frederik	[redacted]	Disabled
[redacted]		

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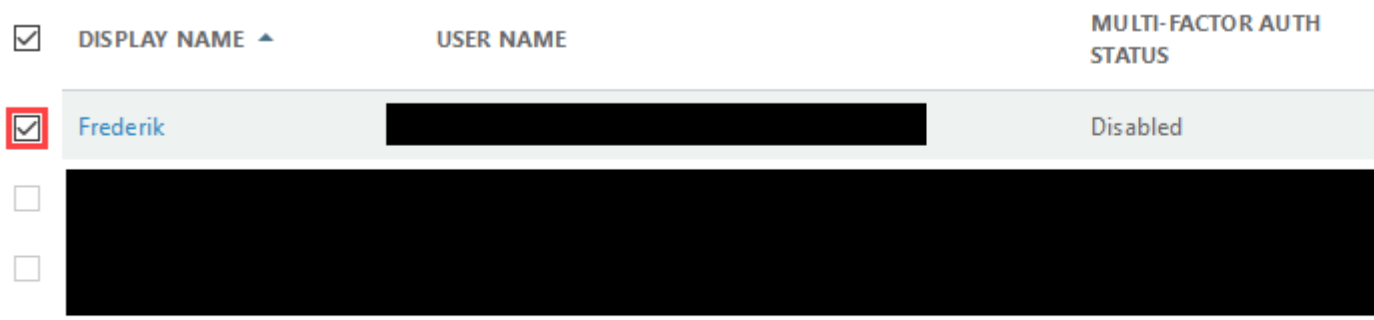
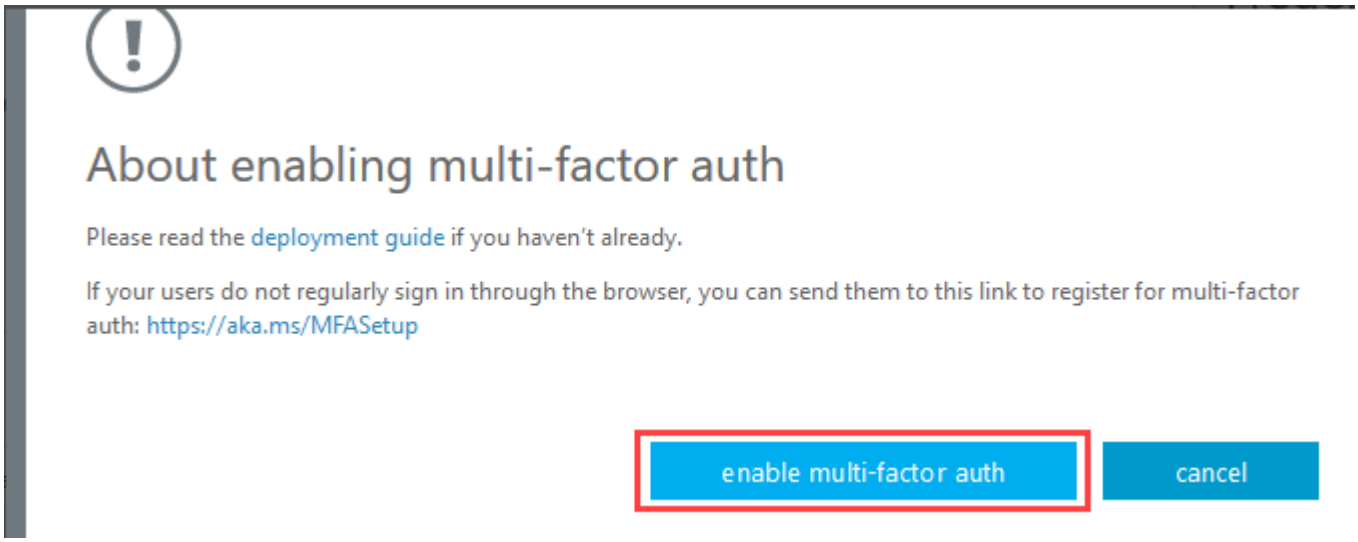
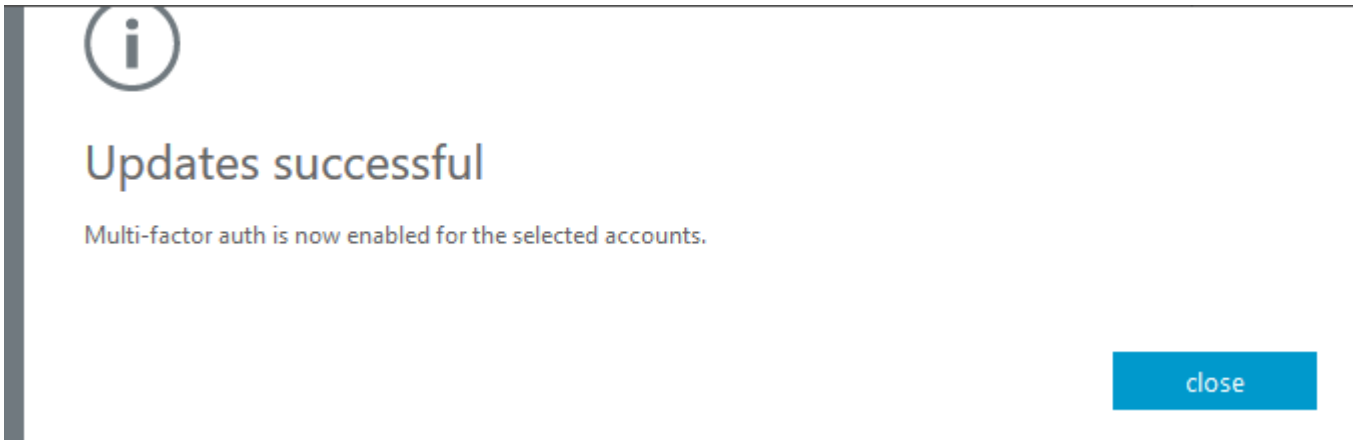
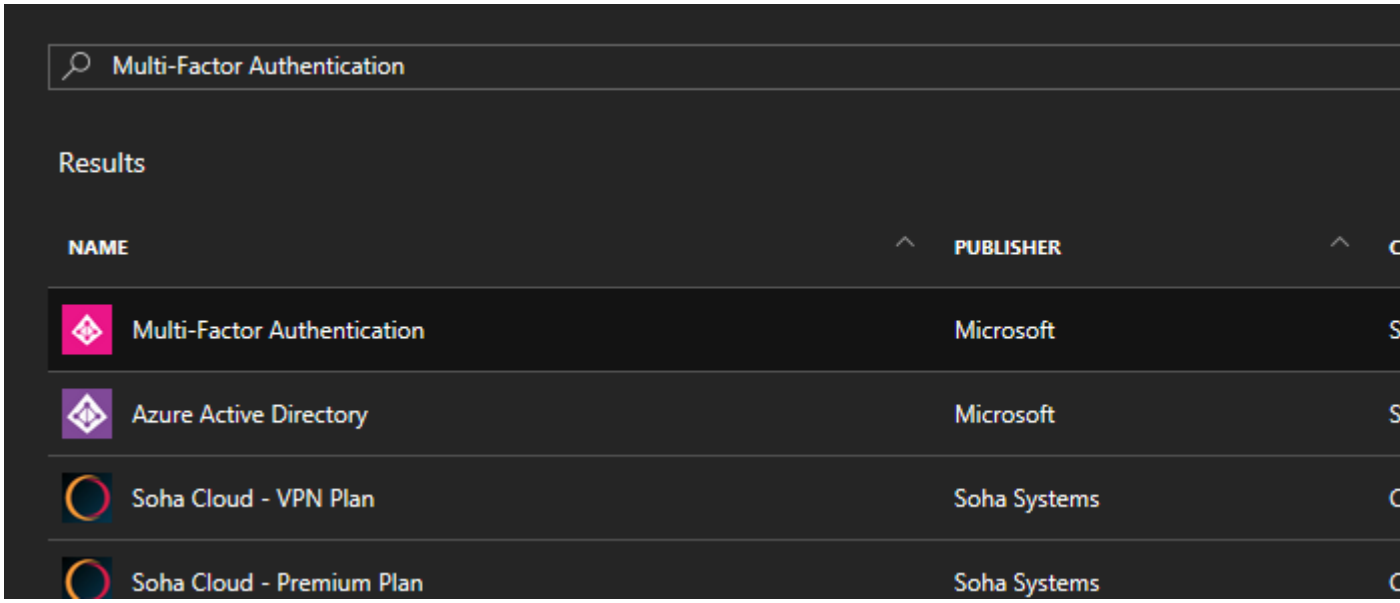
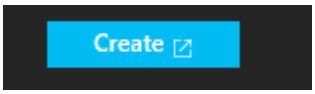
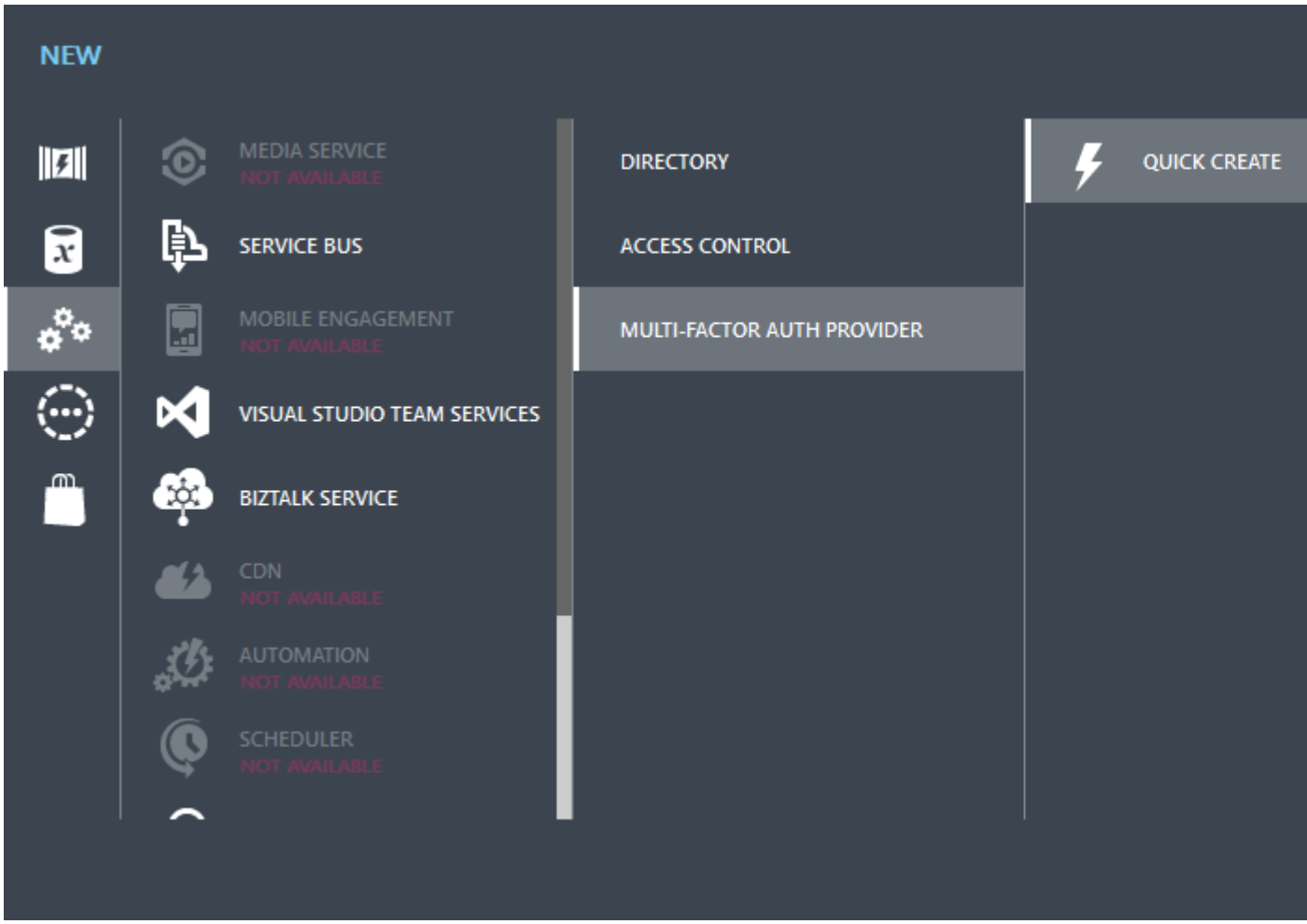

DISPLAY NAME
USER NAME
MULTI-FACTOR AUTH STATUS
Frederik
[redacted]
Disabled
[redacted]


About enabling multi-factor auth
Please read the deployment guide if you haven't already.
If your users do not regularly sign in through the browser, you can send them to this link to register for multi-factor auth: https://aka.ms/MFASetup
enable multi-factor auth
cancel


Updates successful
Multi-factor auth is now enabled for the selected accounts.
close


Multi-Factor Authentication
Results
NAME
PUBLISHER
Multi-Factor Authentication
Microsoft
Azure Active Directory
Microsoft
Soha Cloud - VPN Plan
Soha Systems
Soha Cloud - Premium Plan
Soha Systems


Create


NEW
MEDIA SERVICE
NOT AVAILABLE
SERVICE BUS
MOBILE ENGAGEMENT
NOT AVAILABLE
VISUAL STUDIO TEAM SERVICES
BIZTALK SERVICE
CDN
NOT AVAILABLE
AUTOMATION
NOT AVAILABLE
SCHEDULER
NOT AVAILABLE
DIRECTORY
ACCESS CONTROL
MULTI-FACTOR AUTH PROVIDER
QUICK CREATE

Konto schützen

Aufgrund der aktivierten Überprüfung in zwei Schritten muss die Anforderung 88ACD in Ihrer Microsoft Authenticator-App genehmigt werden.

Es wird auf die Genehmigung der Anforderung 88ACD gewartet.

☐ Ich melde mich häufig auf diesem Gerät an. Bitte keine Anforderungsgenehmigungen mehr anfordern.

Probleme?

Abbrechen

Nutzungsbedingungen Datenschutz und Cookies
Impressum

multi-factor authentication and location based access rules

ENABLE ACCESS RULES OFF ON

APPLY TO ALL USERS GROUPS

☐ Except

RULES

◉ Require multi-factor authentication

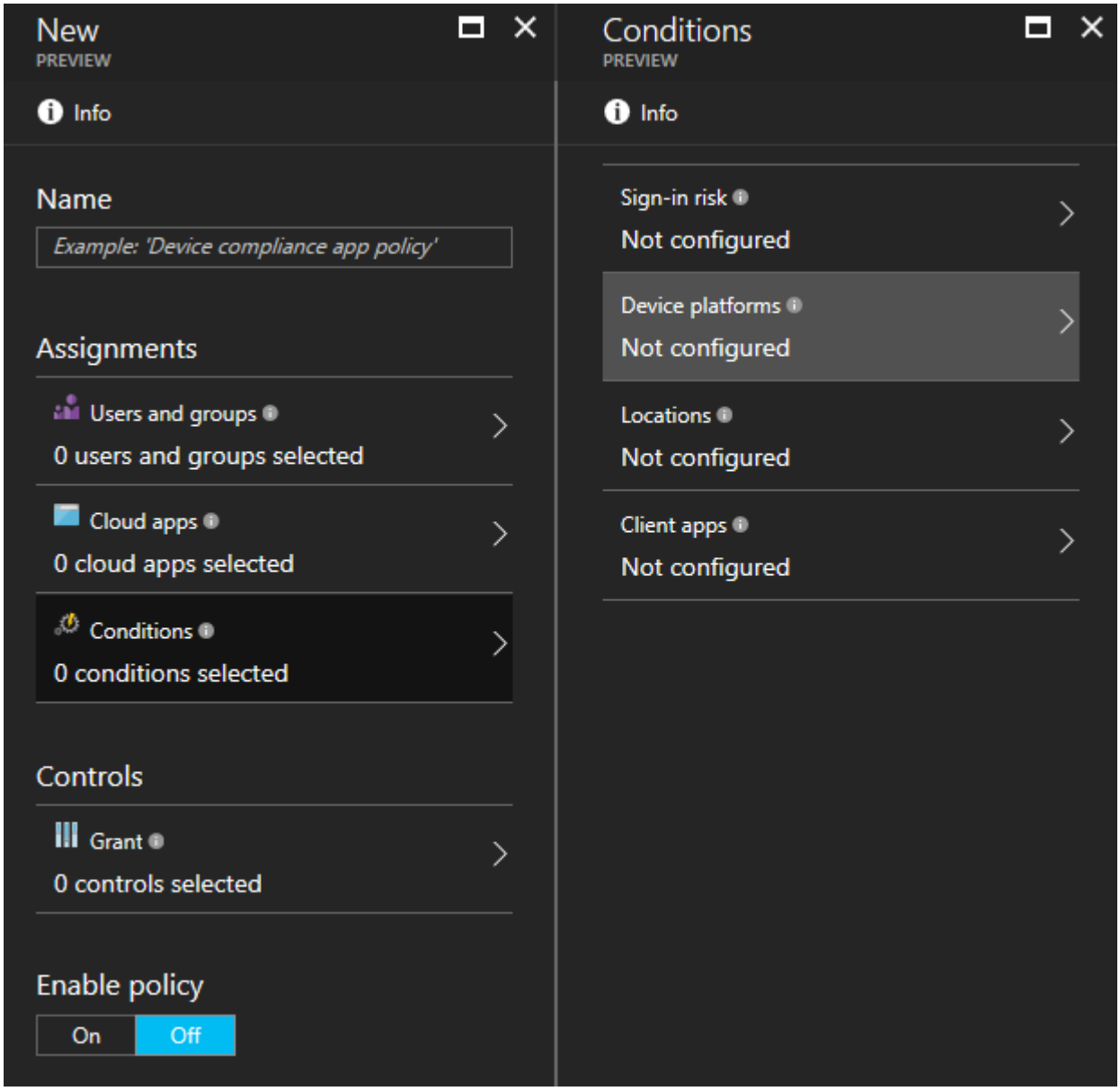
○ Require multi-factor authentication when not at work

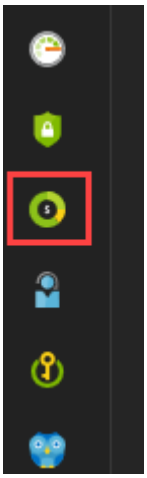
○ Block access when not at work

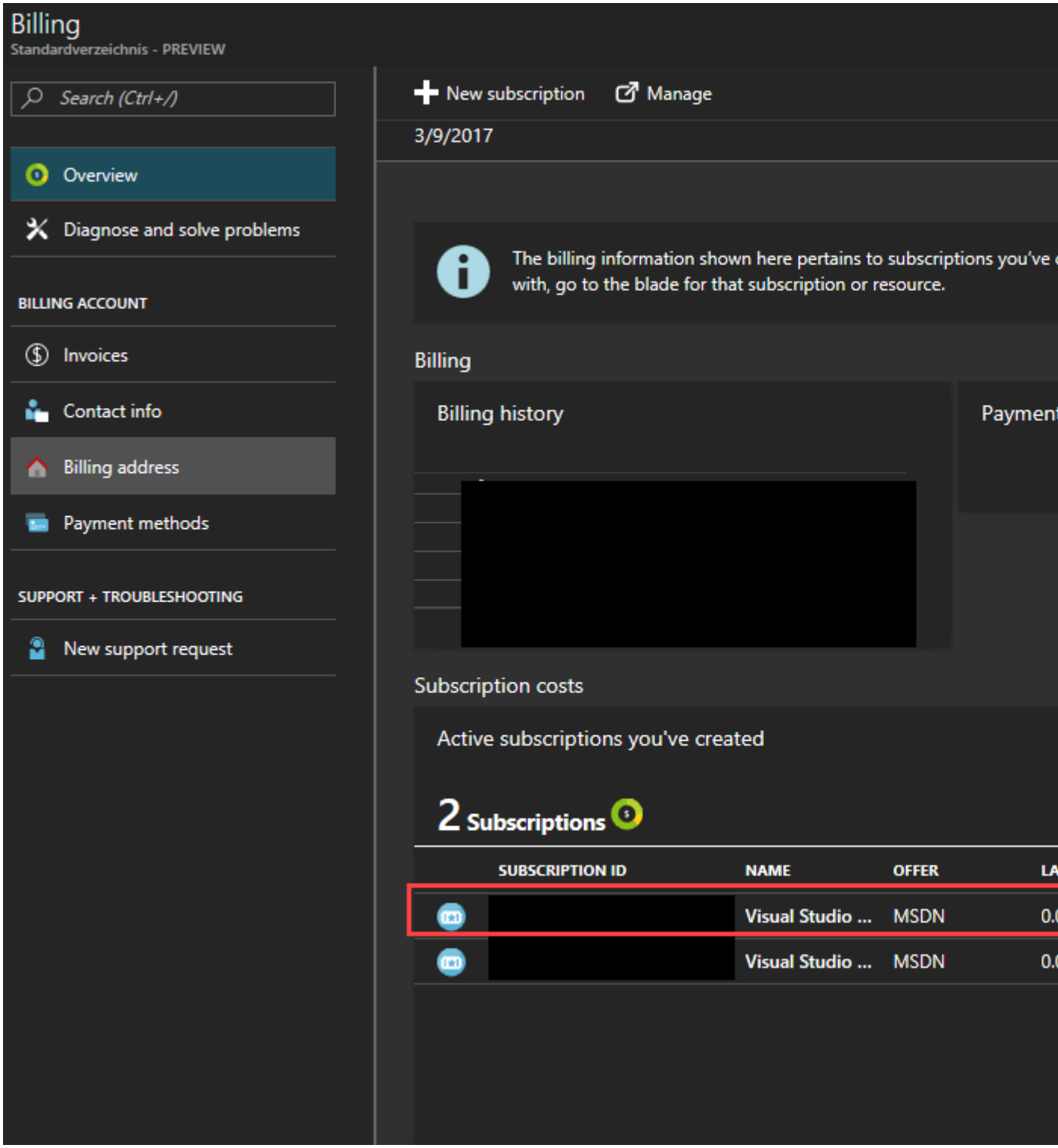
Click here to define/edit your work network location

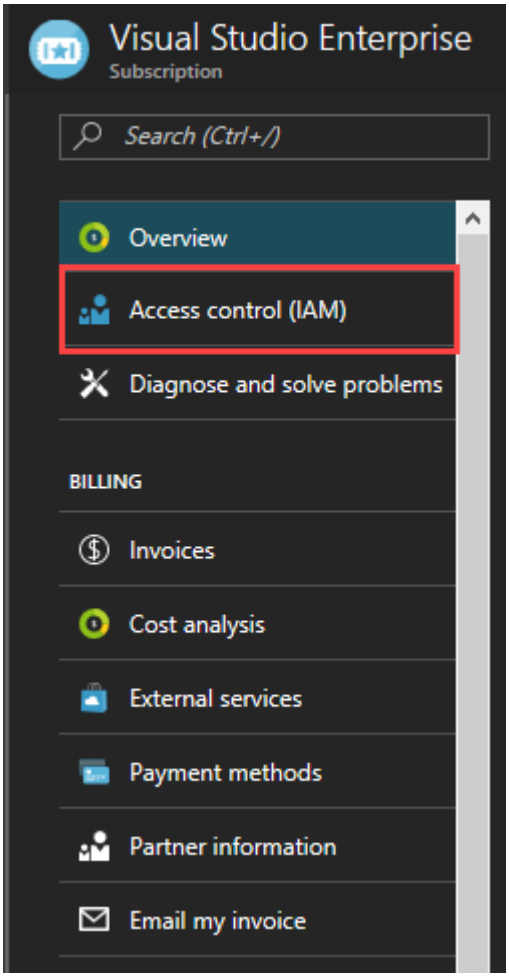
device based access rules

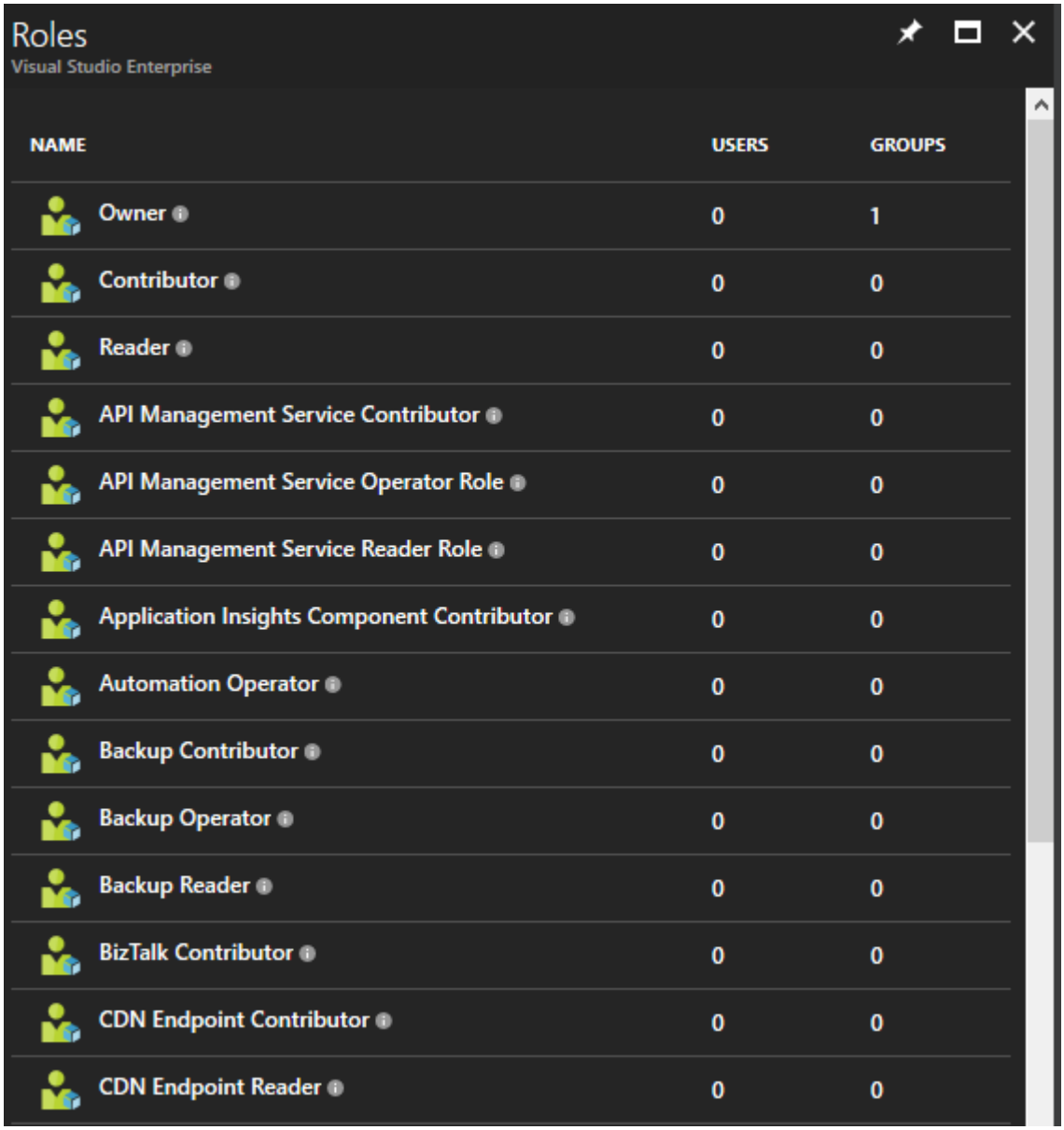
ENABLE ACCESS RULES OFF ON

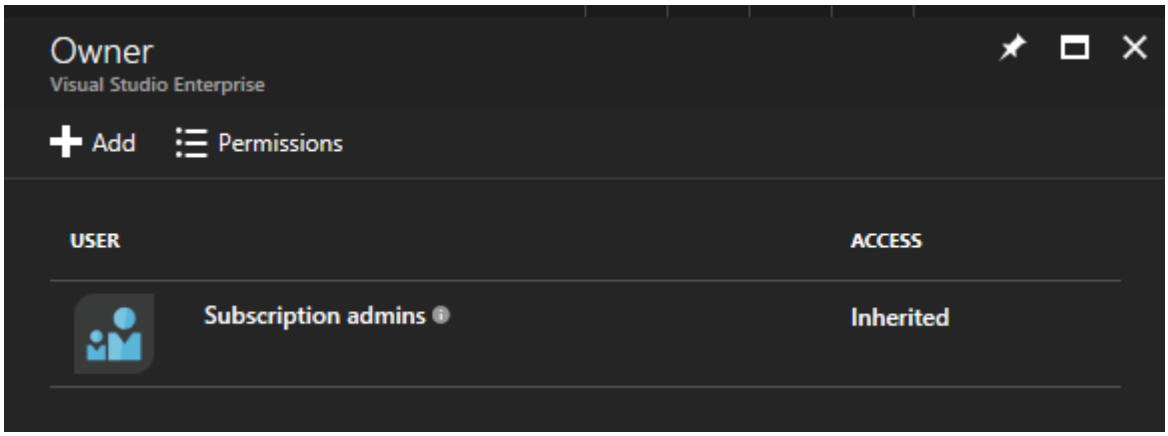

New
PREVIEW
Info
Name
Example: 'Device compliance app policy'
Assignments
Users and groups
0 users and groups selected
Cloud apps
0 cloud apps selected
Conditions
0 conditions selected
Controls
Grant
0 controls selected
Enable policy
On
Off
Conditions
PREVIEW
Info
Sign-in risk
Not configured
Device platforms
Not configured
Locations
Not configured
Client apps
Not configured

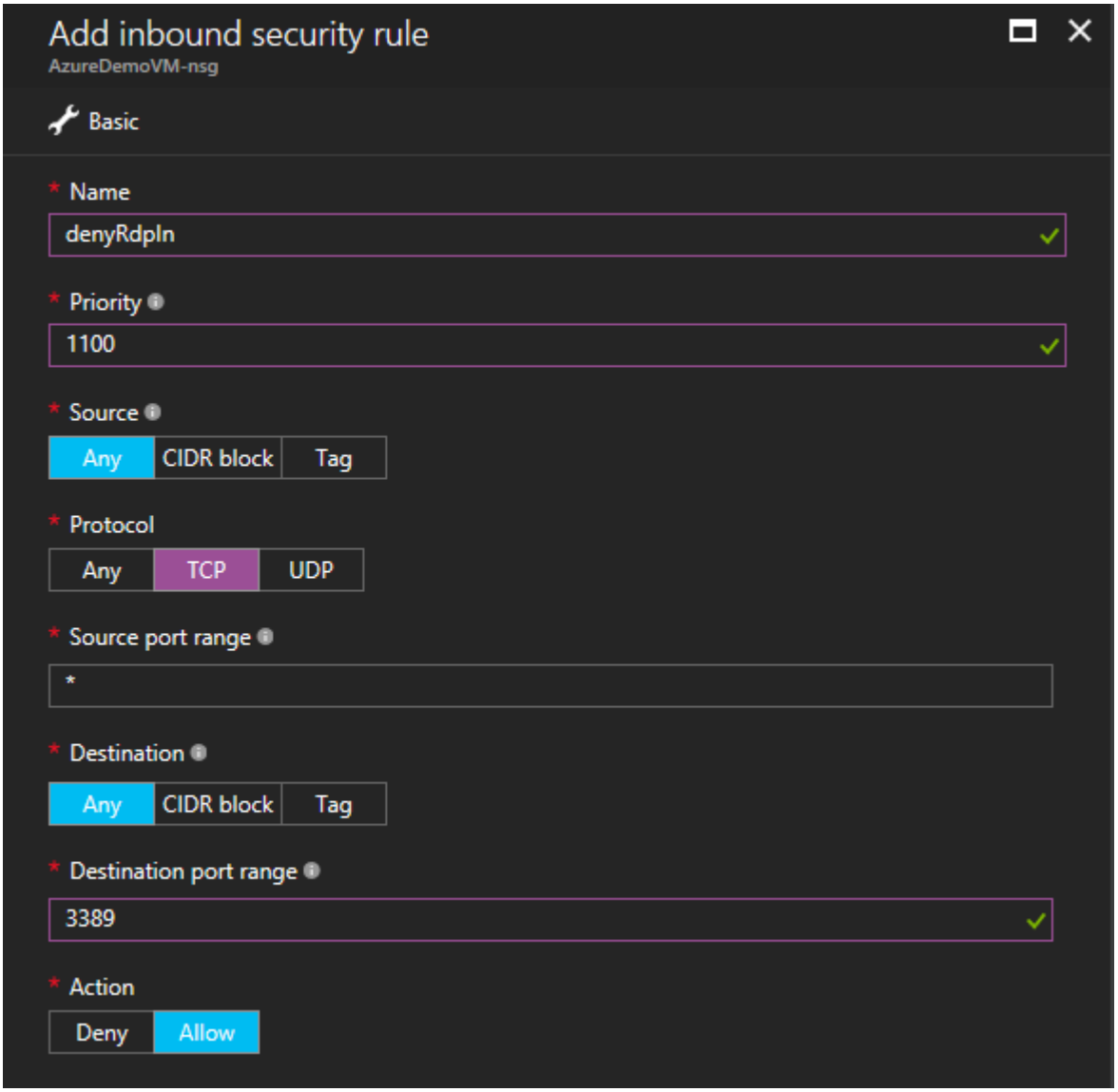


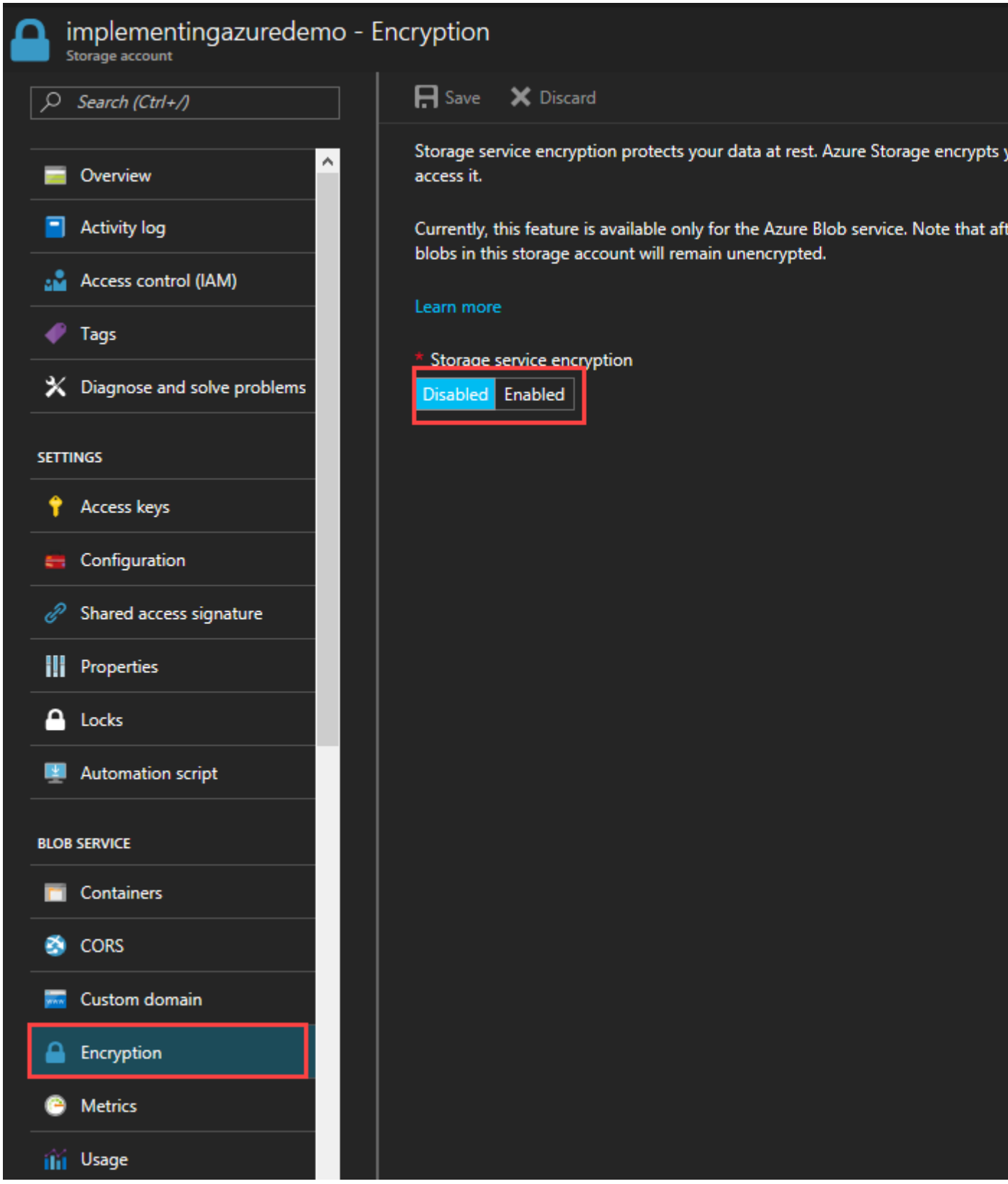

Billing
Standardverzeichnis - PREVIEW
Search (Ctrl+/)
Overview
Diagnose and solve problems
BILLING ACCOUNT
Invoices
Contact info
Billing address
Payment methods
SUPPORT + TROUBLESHOOTING
New support request
New subscription
Manage
3/9/2017
The billing information shown here pertains to subscriptions you've
with, go to the blade for that subscription or resource.
Billing
Billing history
Payment
Subscription costs
Active subscriptions you've created
2 Subscriptions
SUBSCRIPTION ID
NAME
OFFER
Visual Studio ...
MSDN
Visual Studio ...
MSDN

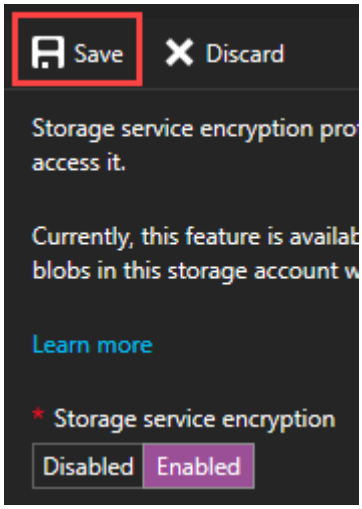

Visual Studio Enterprise
Subscription
Search (Ctrl+/)
Overview
Access control (IAM)
Diagnose and solve problems
BILLING
Invoices
Cost analysis
External services
Payment methods
Partner information
Email my invoice

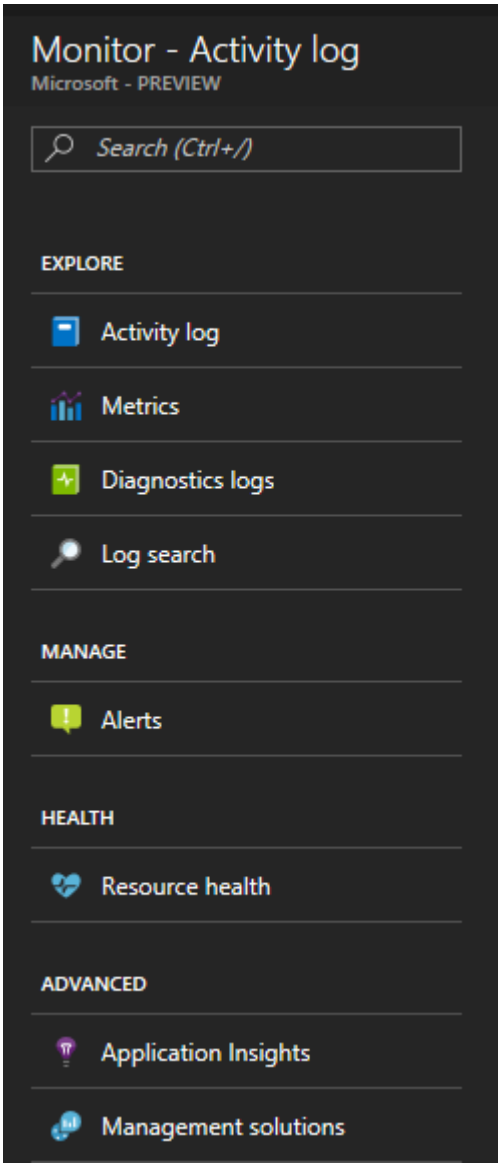

Roles
Visual Studio Enterprise
NAME
USERS
GROUPS
Owner 0 1
Contributor 0 0
Reader 0 0
API Management Service Contributor 0 0
API Management Service Operator Role 0 0
API Management Service Reader Role 0 0
Application Insights Component Contributor 0 0
Automation Operator 0 0
Backup Contributor 0 0
Backup Operator 0 0
Backup Reader 0 0
BizTalk Contributor 0 0
CDN Endpoint Contributor 0 0
CDN Endpoint Reader 0 0

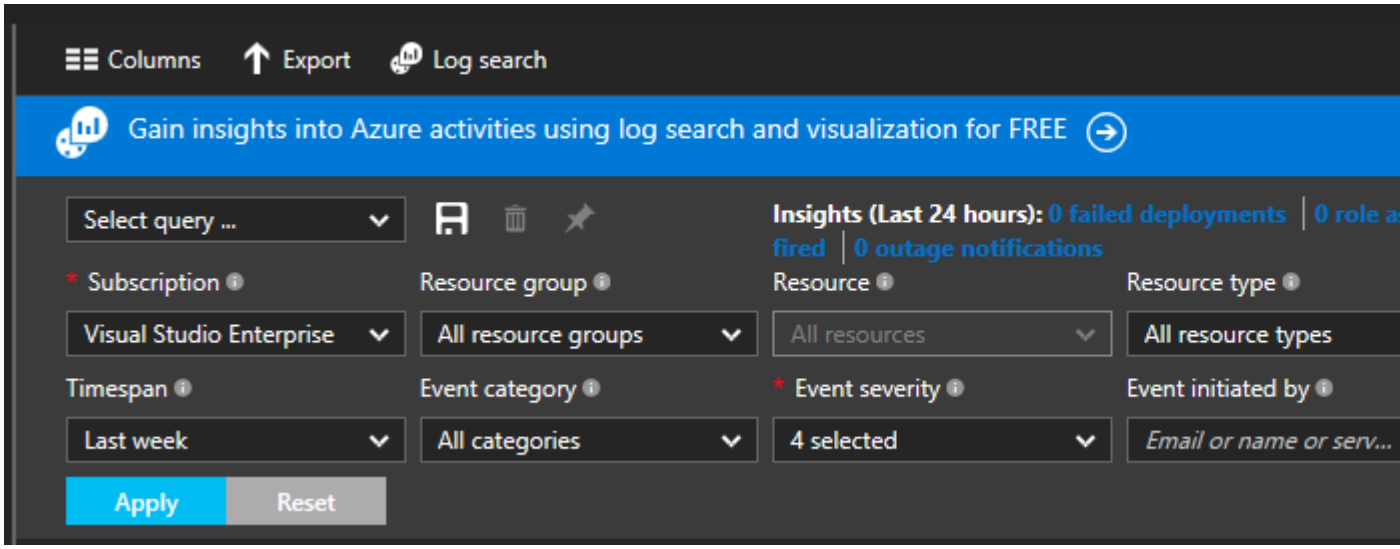

Owner
Visual Studio Enterprise
Add
Permissions
USER
ACCESS
Subscription admins
Inherited

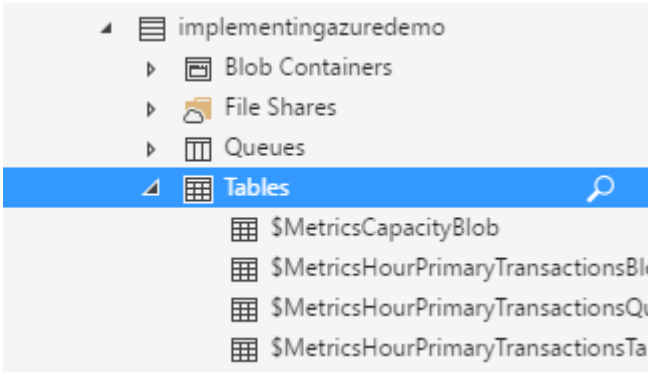

Add inbound security rule
AzureDemoVM-nsg
Basic
* Name
denyRdpIn
* Priority
1100
* Source
Any
CIDR block
Tag
* Protocol
Any
TCP
UDP
* Source port range
*
* Destination
Any
CIDR block
Tag
* Destination port range
3389
* Action
Deny
Allow

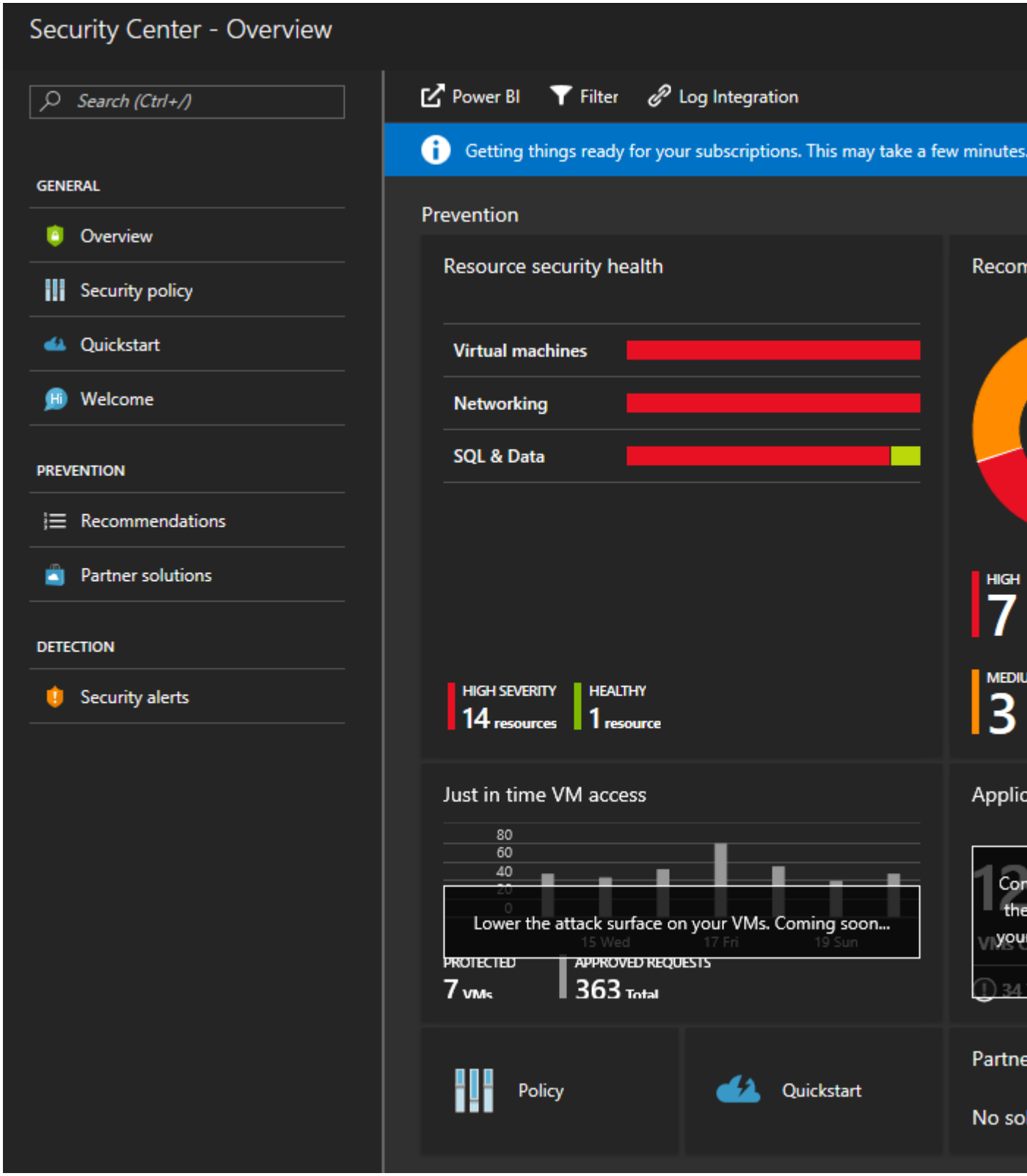

implementingazuredemo - Encryption
Storage account
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Access keys
Configuration
Shared access signature
Properties
Locks
Automation script
BLOB SERVICE
Containers
CORS
Custom domain
Encryption
Metrics
Usage
Save
Discard
Storage service encryption protects your data at rest. Azure Storage encrypts
access it.
Currently, this feature is available only for the Azure Blob service. Note that aft
blobs in this storage account will remain unencrypted.
Learn more
* Storage service encryption
Disabled
Enabled

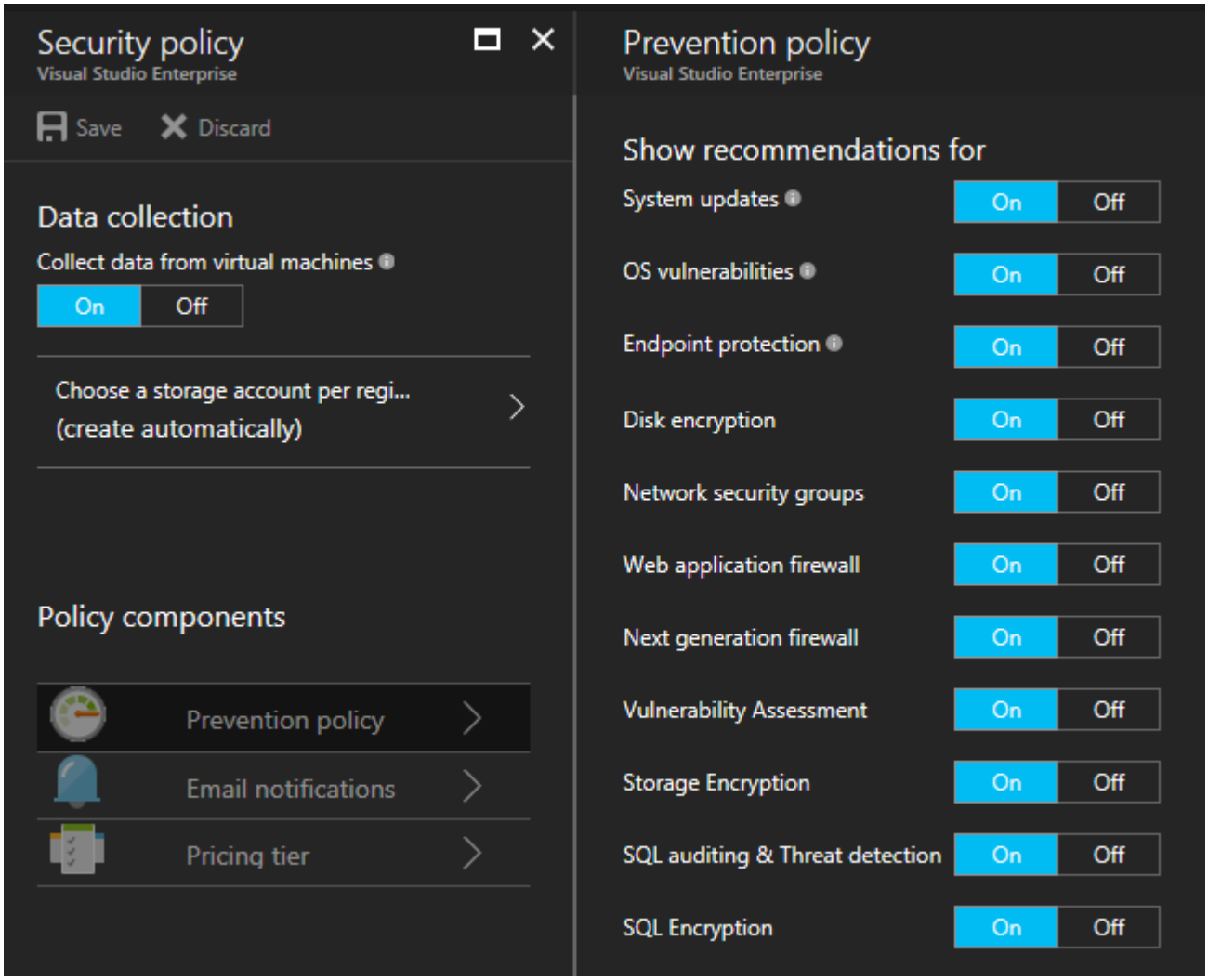

Save
Discard
Storage service encryption pro
access it.
Currently, this feature is availab
blobs in this storage account w
Learn more
* Storage service encryption
Disabled
Enabled

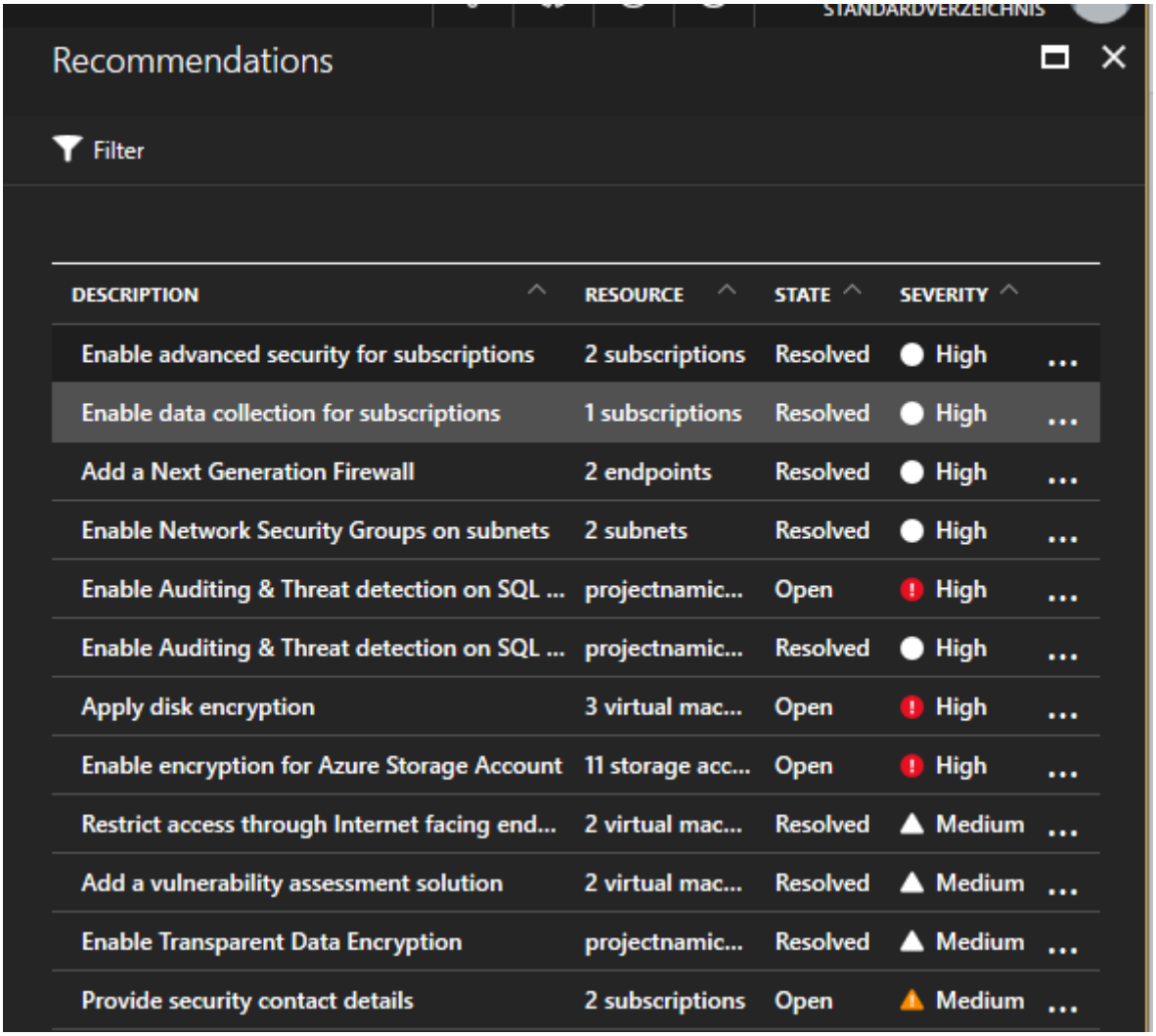

Monitor - Activity log
Microsoft - PREVIEW
Search (Ctrl+/)
EXPLORE
Activity log
Metrics
Diagnostics logs
Log search
MANAGE
Alerts
HEALTH
Resource health
ADVANCED
Application Insights
Management solutions


Columns
Export
Log search
Gain insights into Azure activities using log search and visualization for FREE
Select query ...
Insights (Last 24 hours): 0 failed deployments | 0 role a
fired | 0 outage notifications
Subscription
Resource group
Resource
Resource type
Visual Studio Enterprise
All resource groups
All resources
All resource types
Timespan
Event category
Event severity
Event initiated by
Last week
All categories
4 selected
Email or name or serv...
Apply
Reset

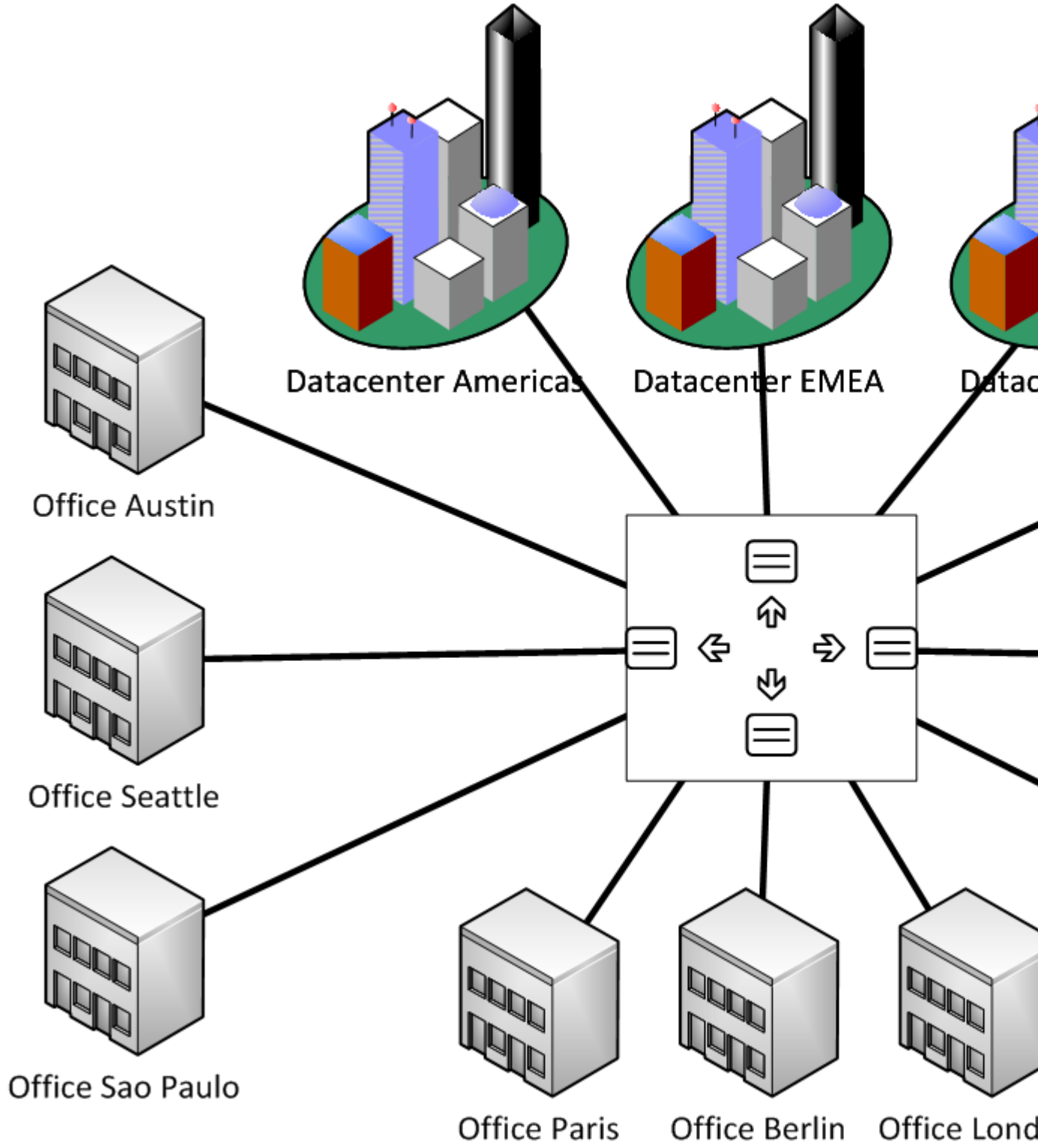

implementingazuredemo
Blob Containers
File Shares
Queues
Tables
$MetricsCapacityBlob
$MetricsHourPrimaryTransactionsBl
$MetricsHourPrimaryTransactionsQu
$MetricsHourPrimaryTransactionsTa

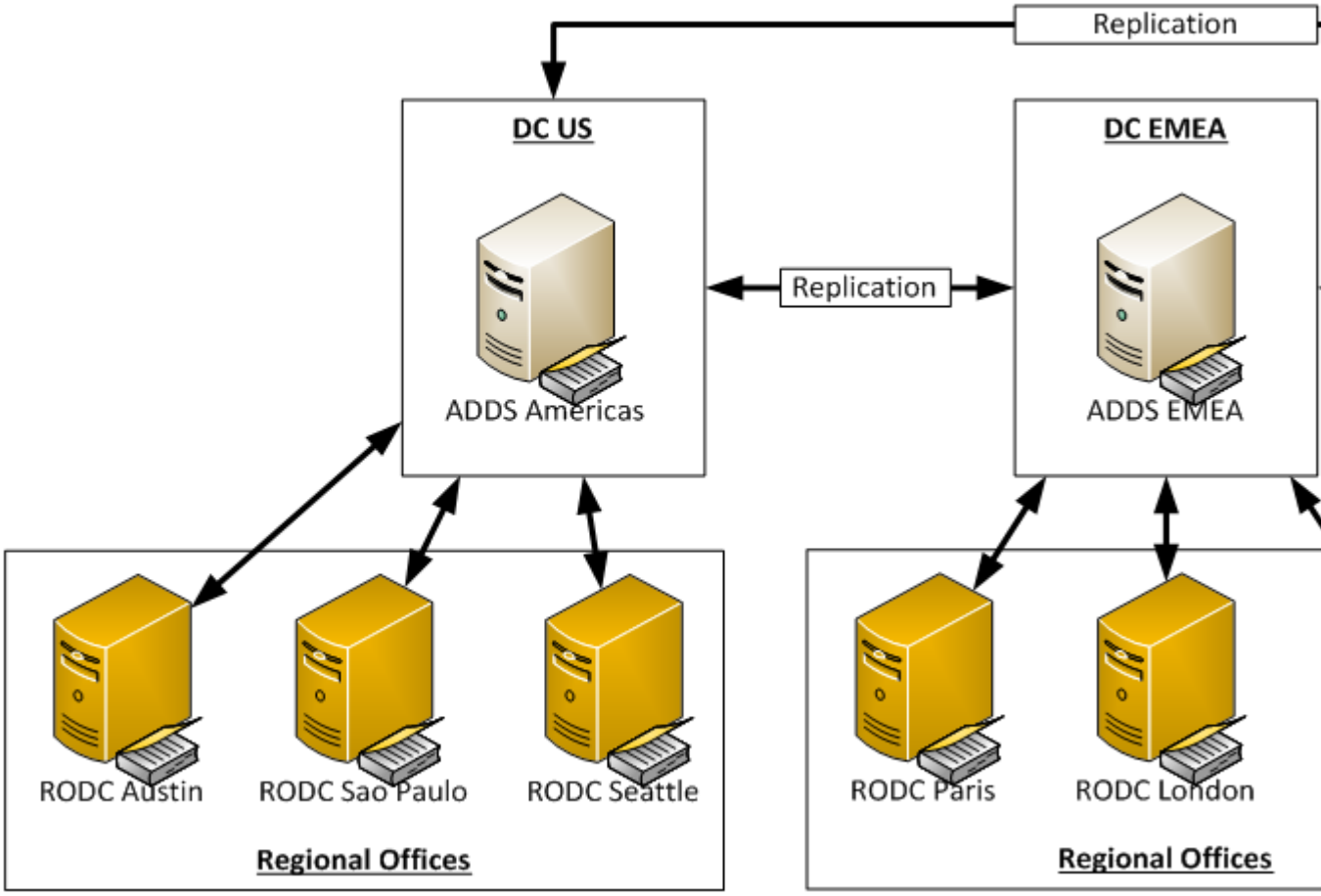

Security Center - Overview
Search (Ctrl+/)
GENERAL
Overview
Security policy
Quickstart
Welcome
PREVENTION
Recommendations
Partner solutions
DETECTION
Security alerts
Power BI
Filter
Log Integration
Getting things ready for your subscriptions. This may take a few minutes.
Prevention
Resource security health
Virtual machines
Networking
SQL & Data
HIGH SEVERITY
14 resources
HEALTHY
1 resource
HIGH
7
MEDIU
3
Just in time VM access
80
60
40
20
0
Lower the attack surface on your VMs. Coming soon...
15 Wed
17 Fri
19 Sun
PROTECTED
7 VMs
APPROVED REQUESTS
363 Total
Policy
Quickstart

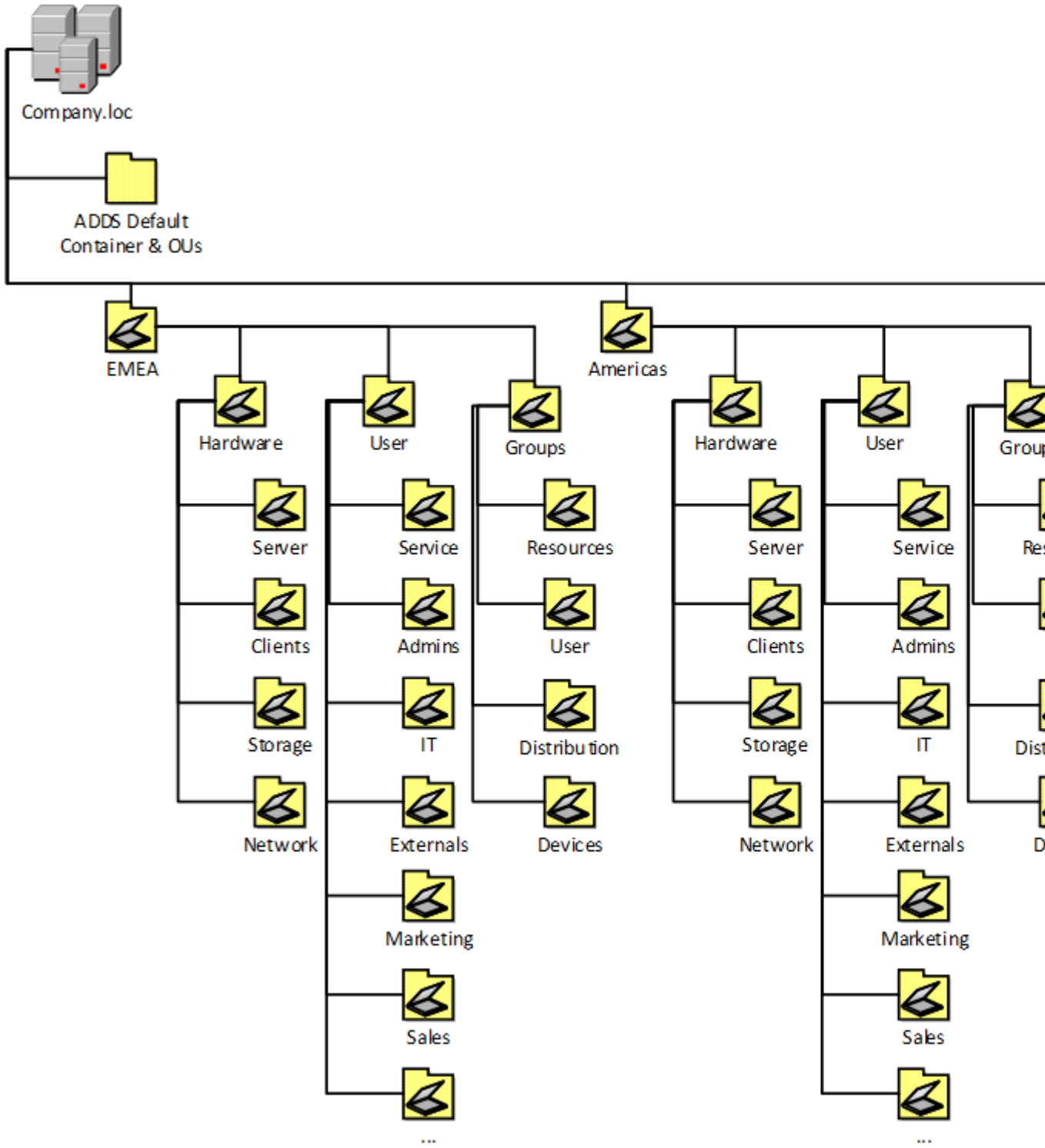

Security policy
Visual Studio Enterprise
Save
Discard
Data collection
Collect data from virtual machines
On
Off
Choose a storage account per regi...
(create automatically)
Policy components
Prevention policy
Email notifications
Pricing tier
Prevention policy
Visual Studio Enterprise
Show recommendations for
System updates
OS vulnerabilities
Endpoint protection
Disk encryption
Network security groups
Web application firewall
Next generation firewall
Vulnerability Assessment
Storage Encryption
SQL auditing & Threat detection
SQL Encryption
On
Off

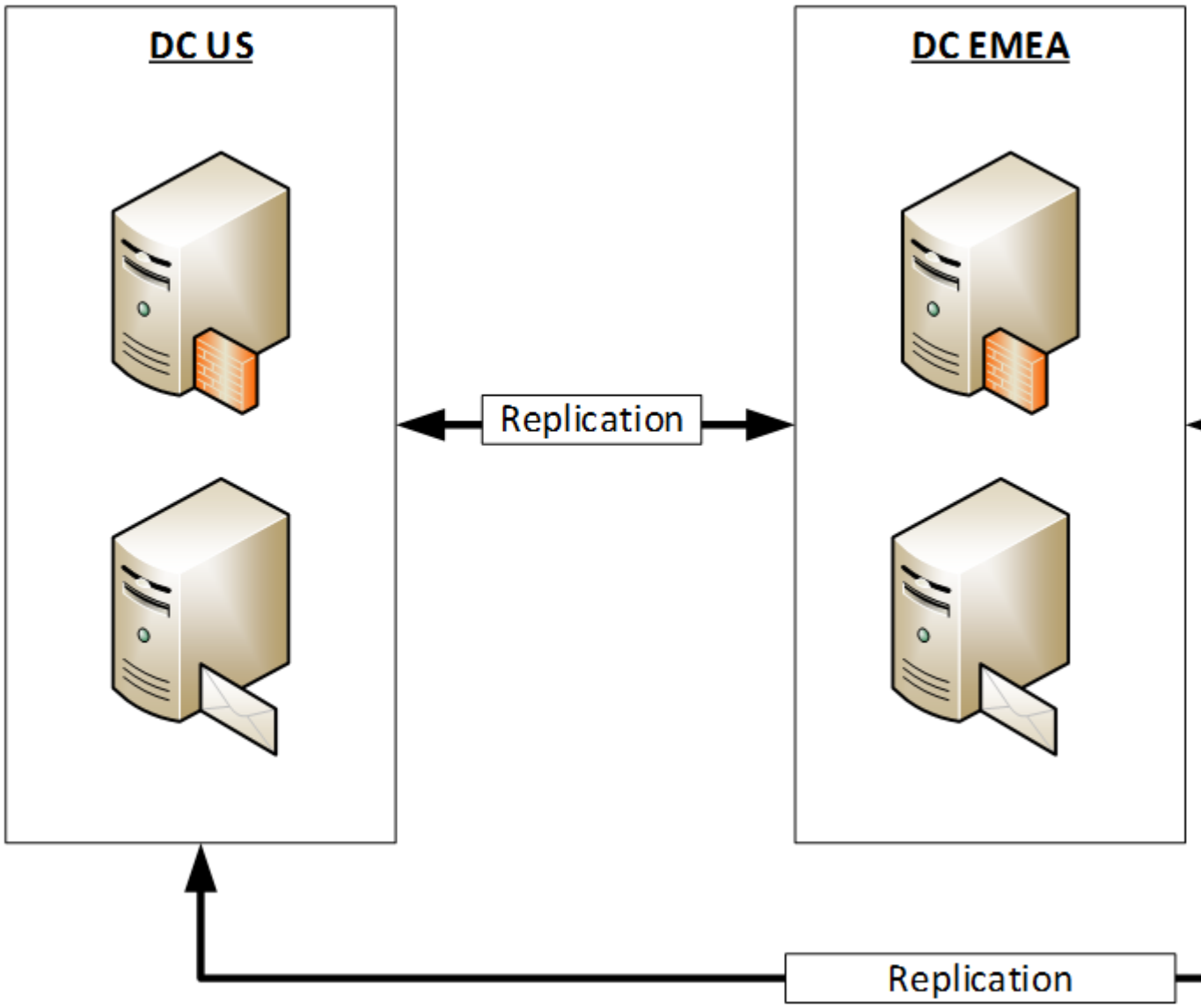

STANDARDVERZEICHNIS
Recommendations
Filter
DESCRIPTION
RESOURCE
STATE
SEVERITY
Enable advanced security for subscriptions
2 subscriptions
Resolved
High
Enable data collection for subscriptions
1 subscriptions
Resolved
High
Add a Next Generation Firewall
2 endpoints
Resolved
High
Enable Network Security Groups on subnets
2 subnets
Resolved
High
Enable Auditing & Threat detection on SQL ...
projectnamic...
Open
High
Enable Auditing & Threat detection on SQL ...
projectnamic...
Resolved
High
Apply disk encryption
3 virtual mac...
Open
High
Enable encryption for Azure Storage Account
11 storage acc...
Open
High
Restrict access through Internet facing end...
2 virtual mac...
Resolved
Medium
Add a vulnerability assessment solution
2 virtual mac...
Resolved
Medium
Enable Transparent Data Encryption
projectnamic...
Resolved
Medium
Provide security contact details
2 subscriptions
Open
Medium

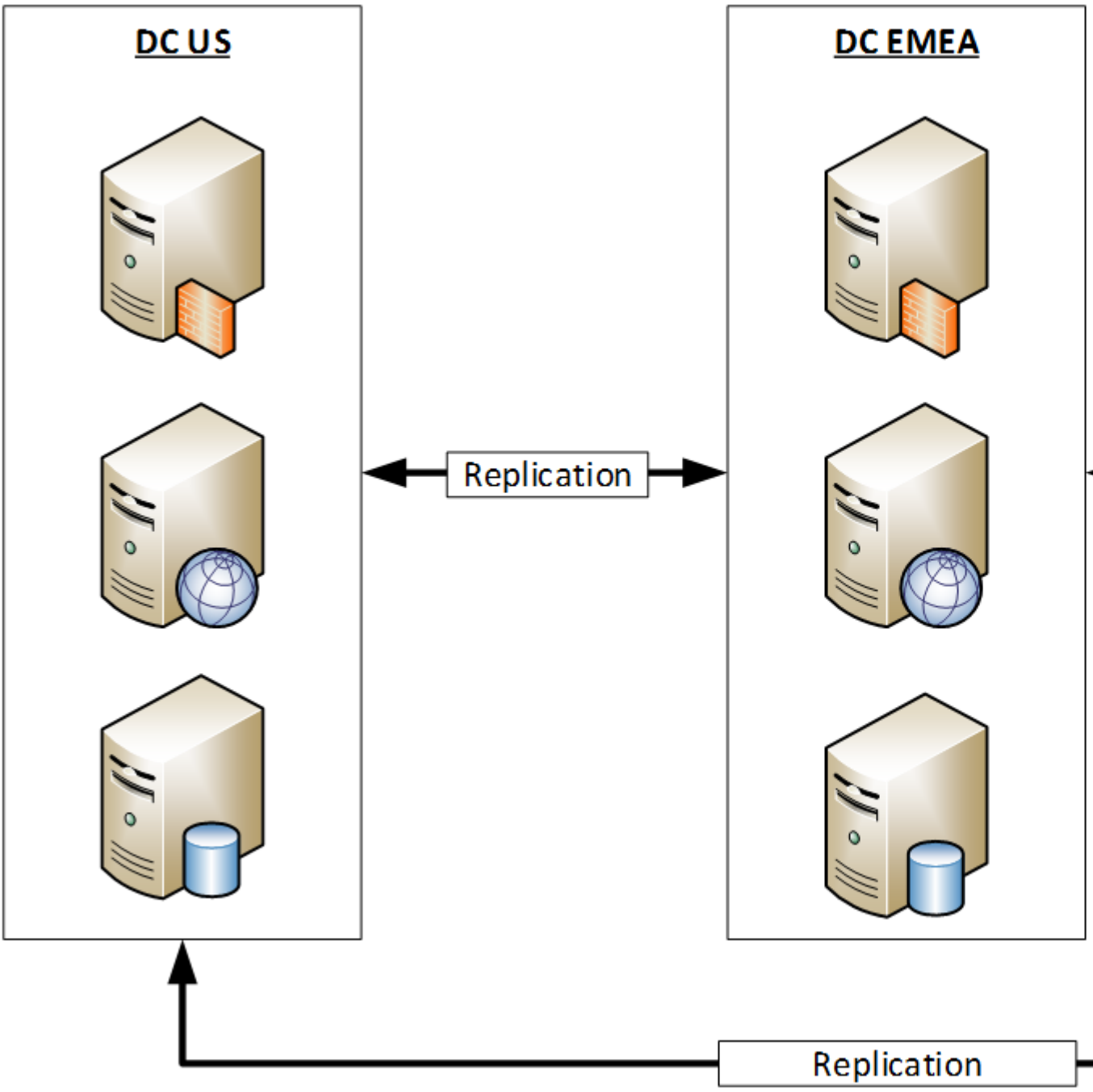
Chapter 10: Skill Wrap Up and Migration Scenario

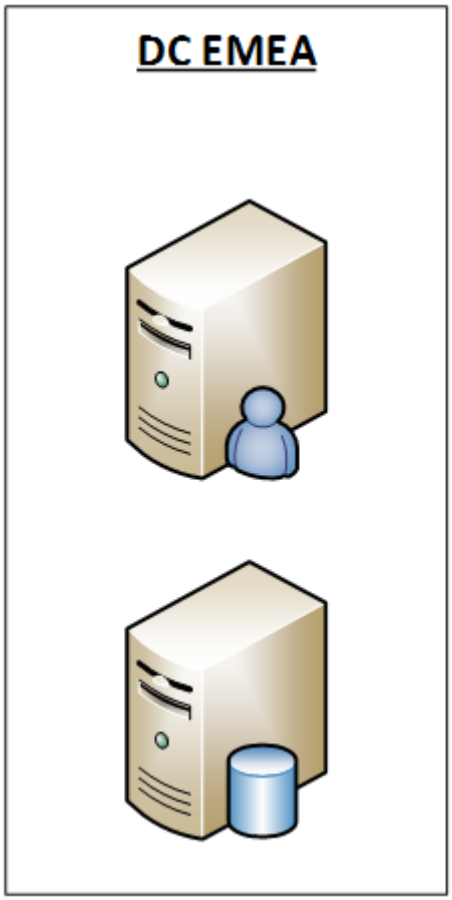


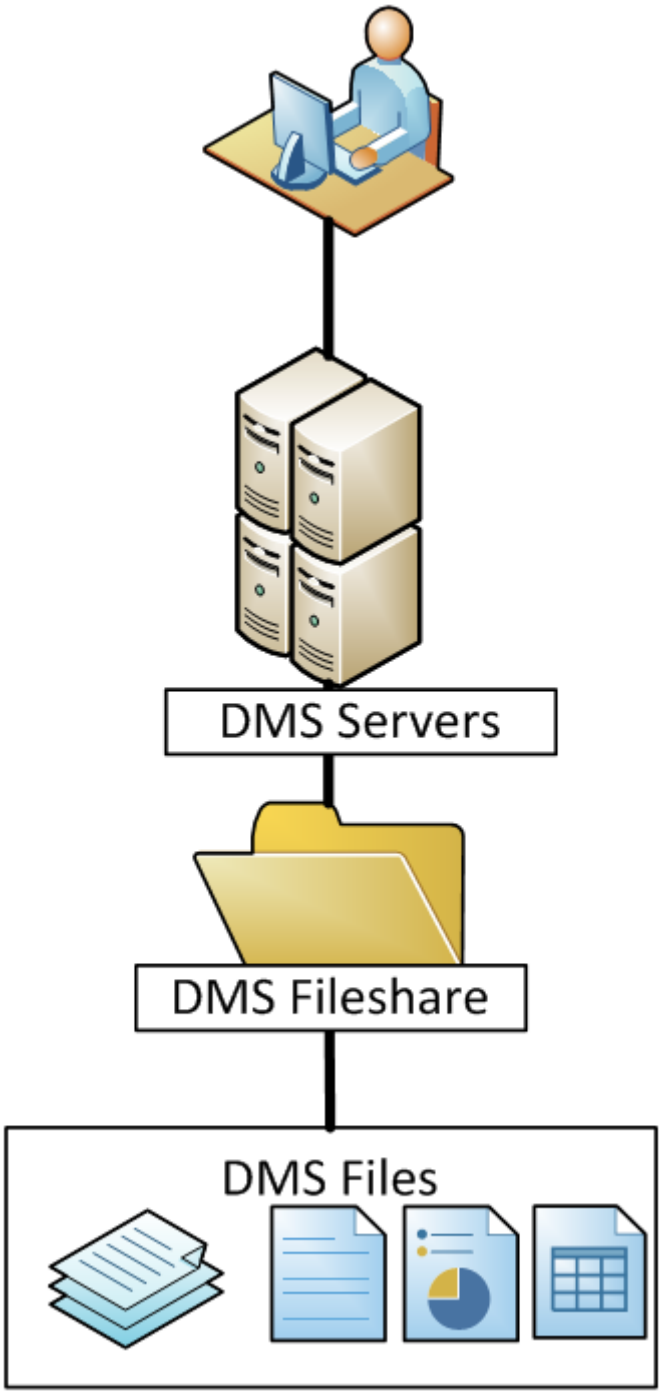

Replication
DC US
DC EMEA
Replication
ADDS Americas
ADDS EMEA
RODC Austin
RODC Sao Paulo
RODC Seattle
RODC Paris
RODC London
Regional Offices
Regional Offices

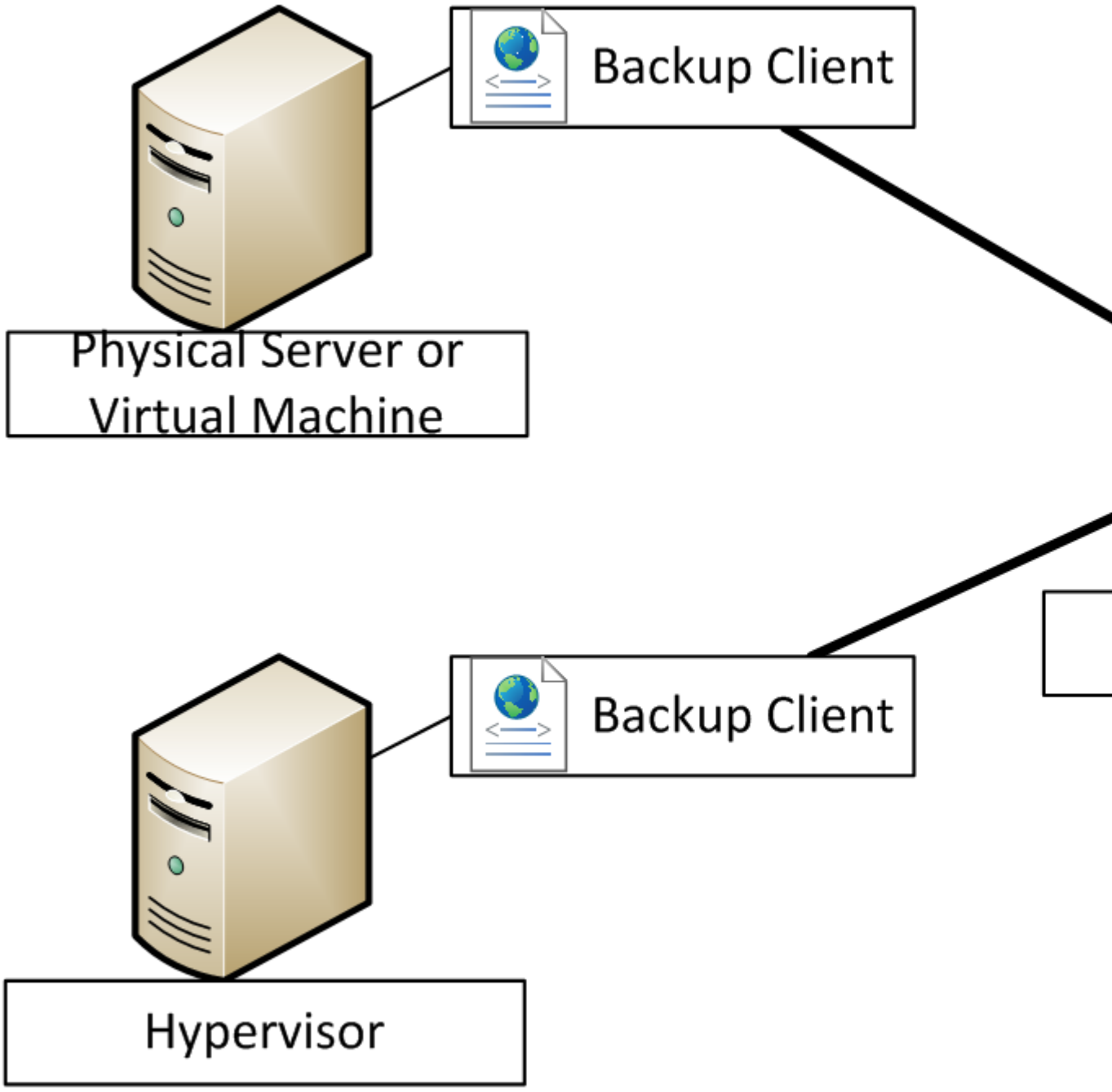

Company.loc
ADDS Default
Container & OUs
EMEA
Hardware
Server
Clients
Storage
Network
User
Service
Admins
IT
Externals
Marketing
Sales
...
Groups
Resources
User
Distribution
Devices
Americas
Hardware
Server
Clients
Storage
Network
User
Service
Admins
IT
Externals
Marketing
Sales
...
Group
Res
Dist
D

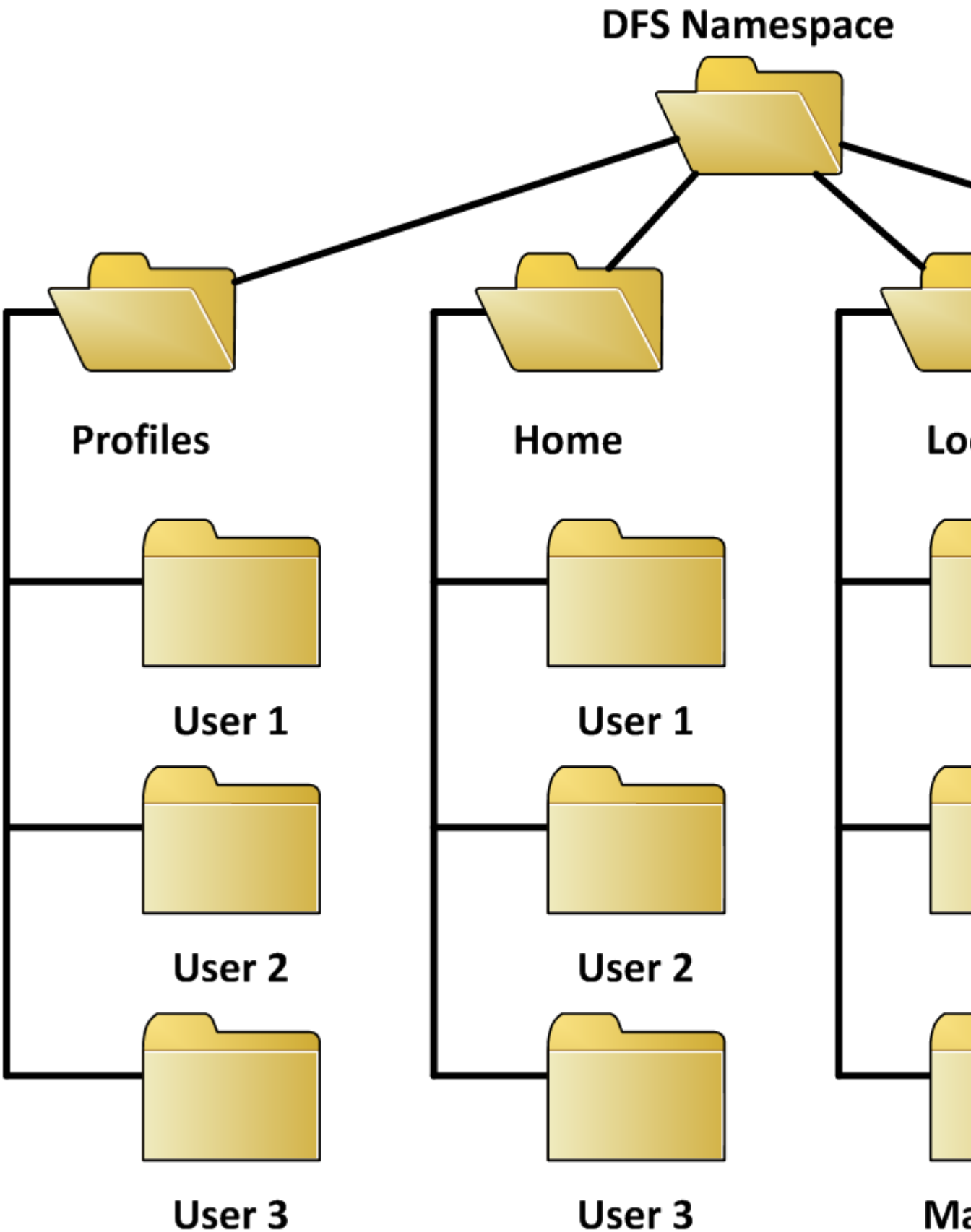

DC US
DC EMEA
Replication
Replication

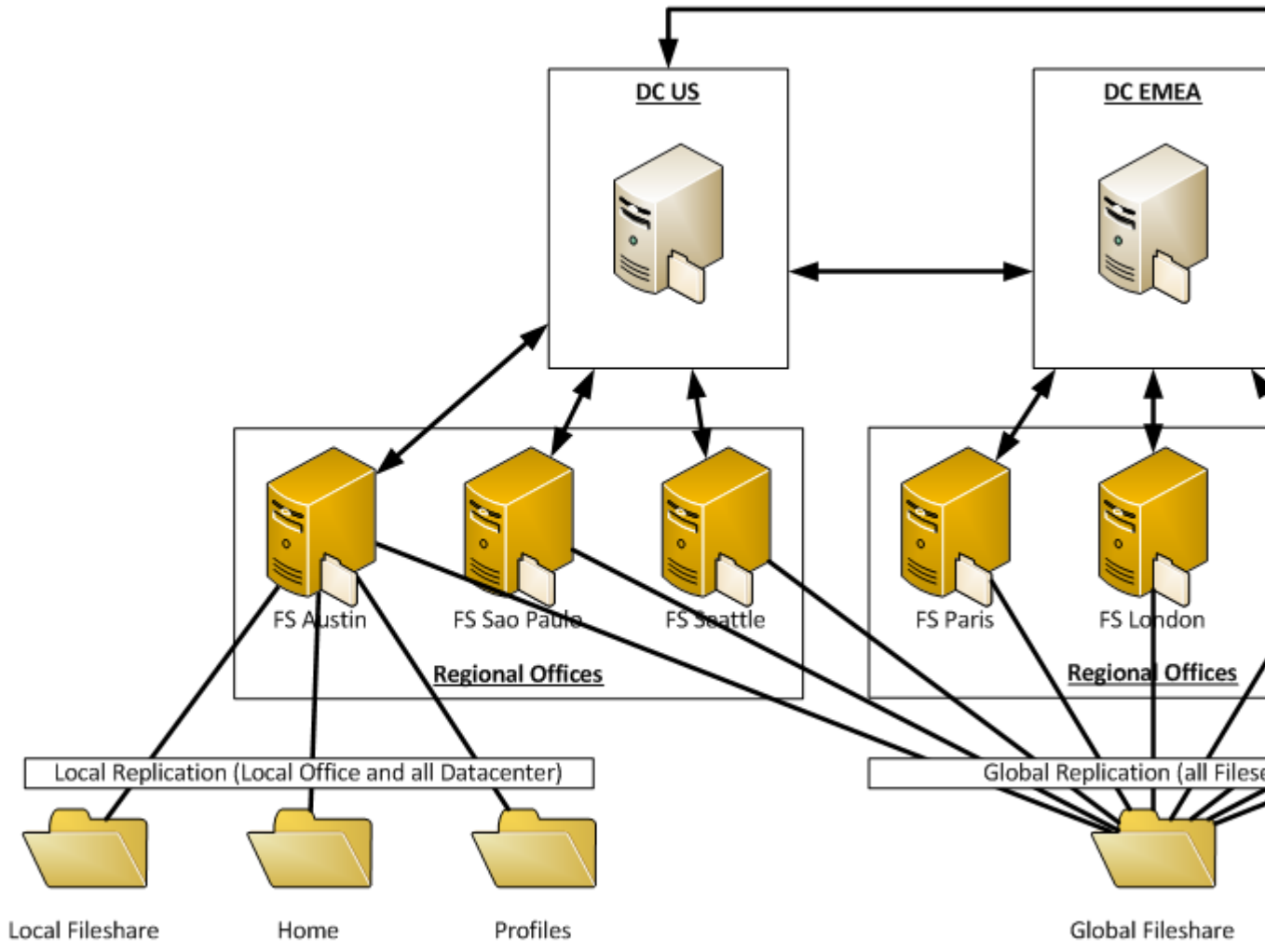

DC US
DC EMEA
Replication
Replication


DC EMEA

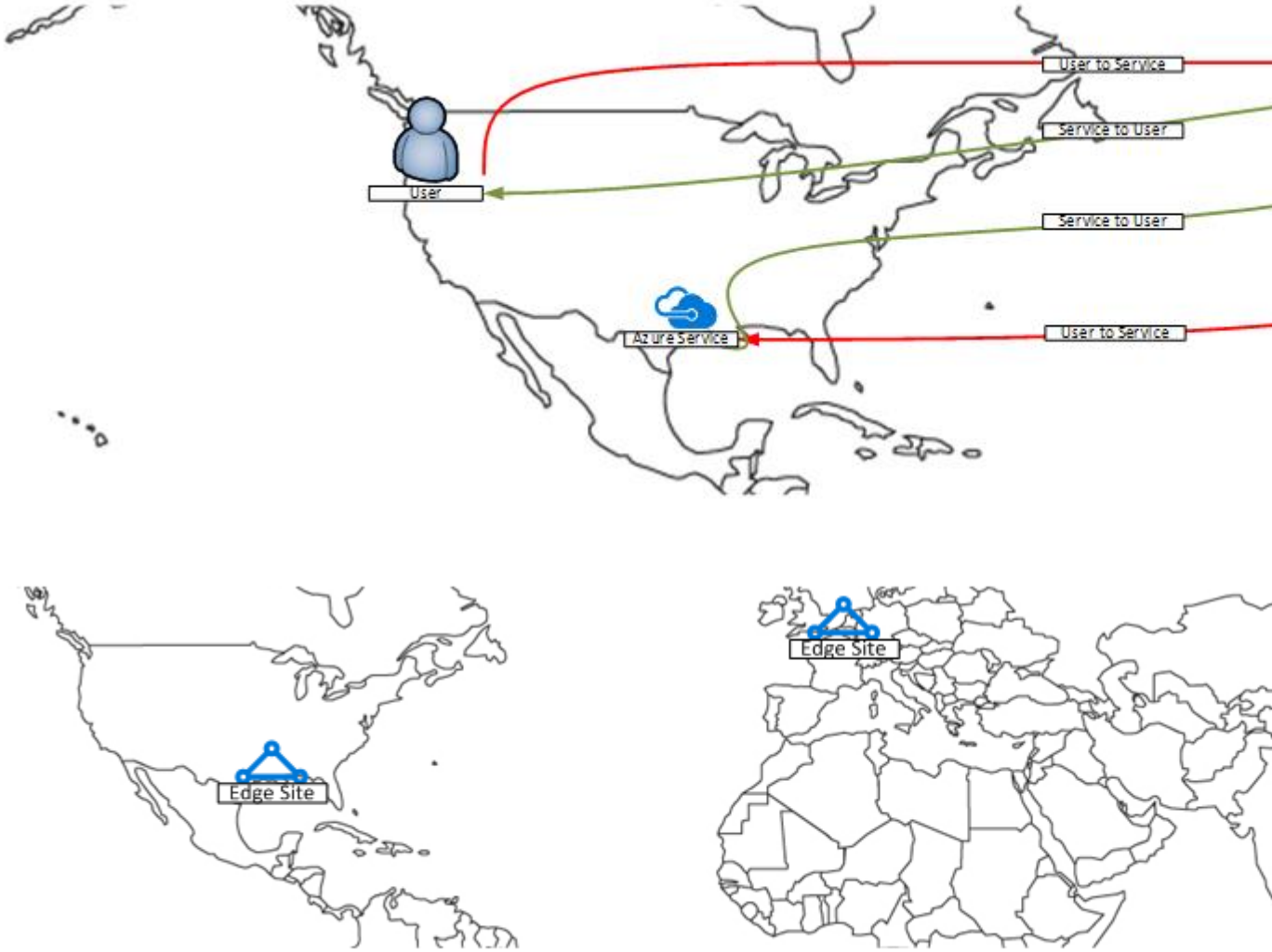

DMS Servers
DMS Fileshare
DMS Files

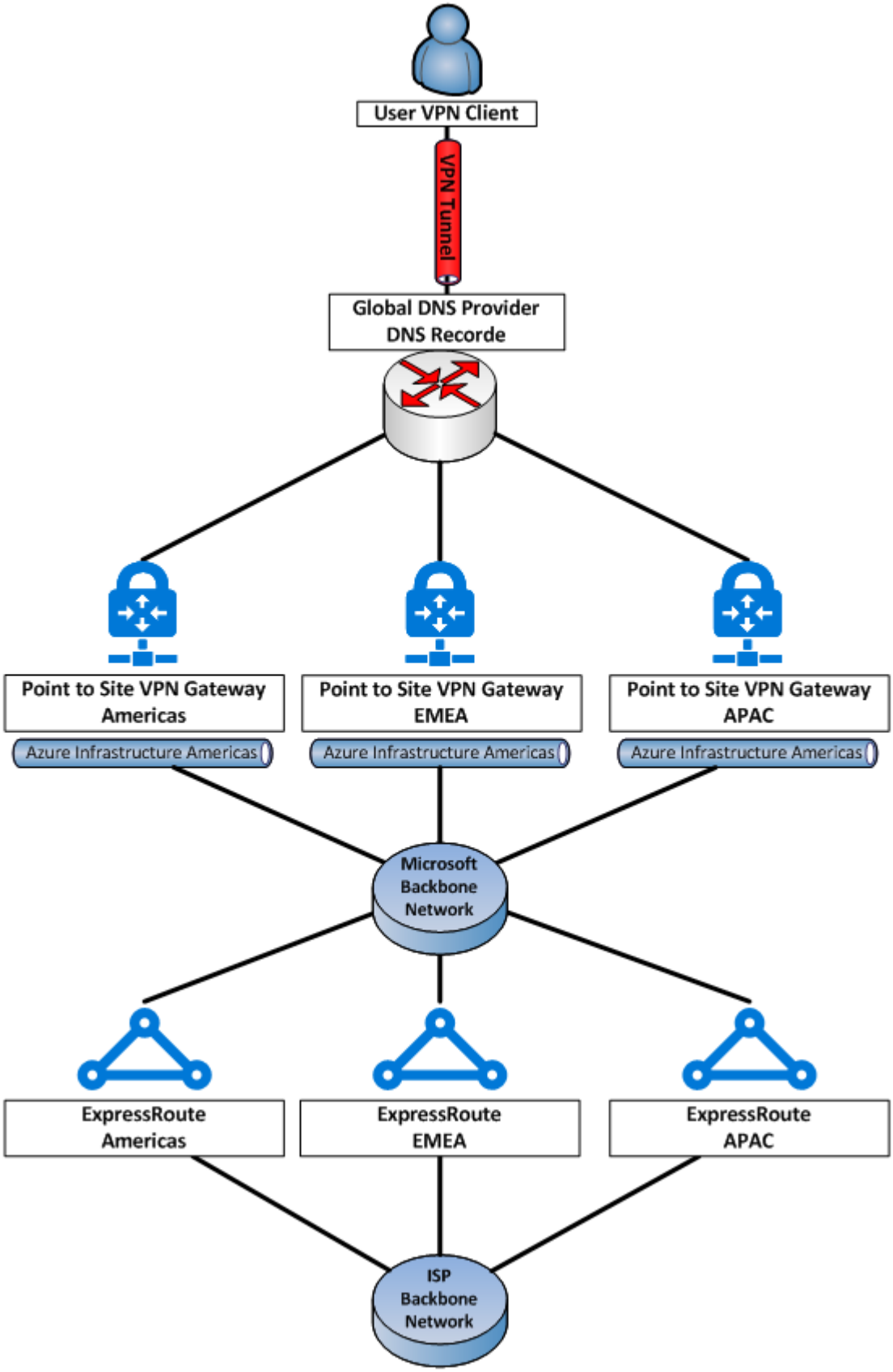

Backup Client
Physical Server or Virtual Machine
Backup Client
Hypervisor

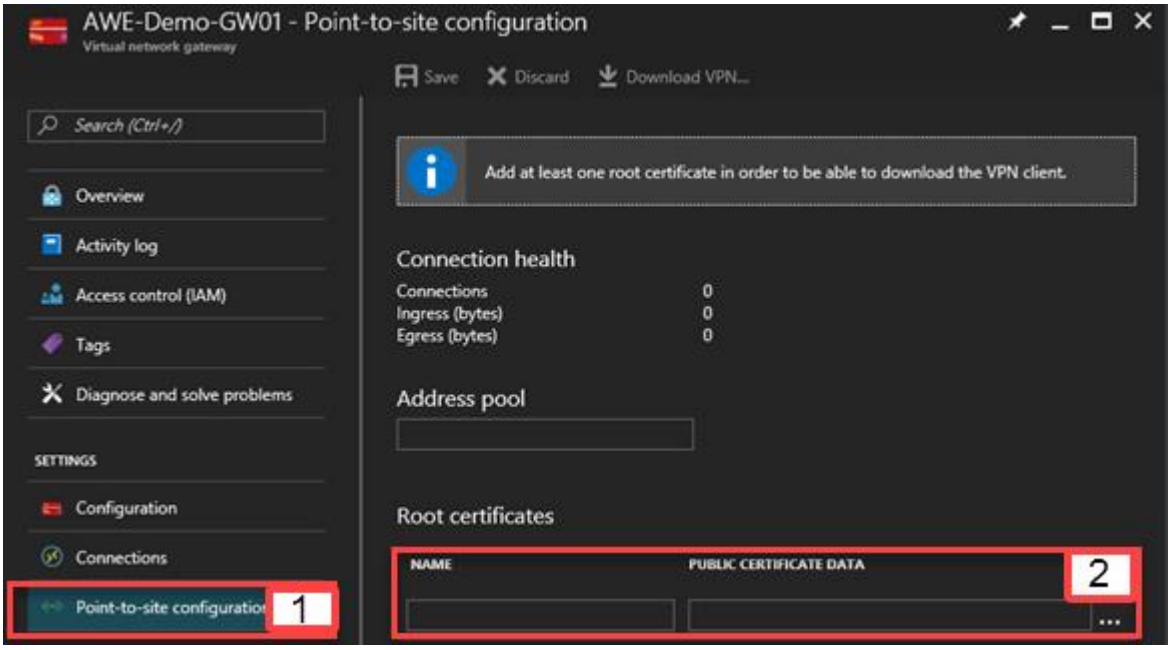

DFS Namespace
Profiles
Home
User 1
User 2
User 3
User 1
User 2
User 3

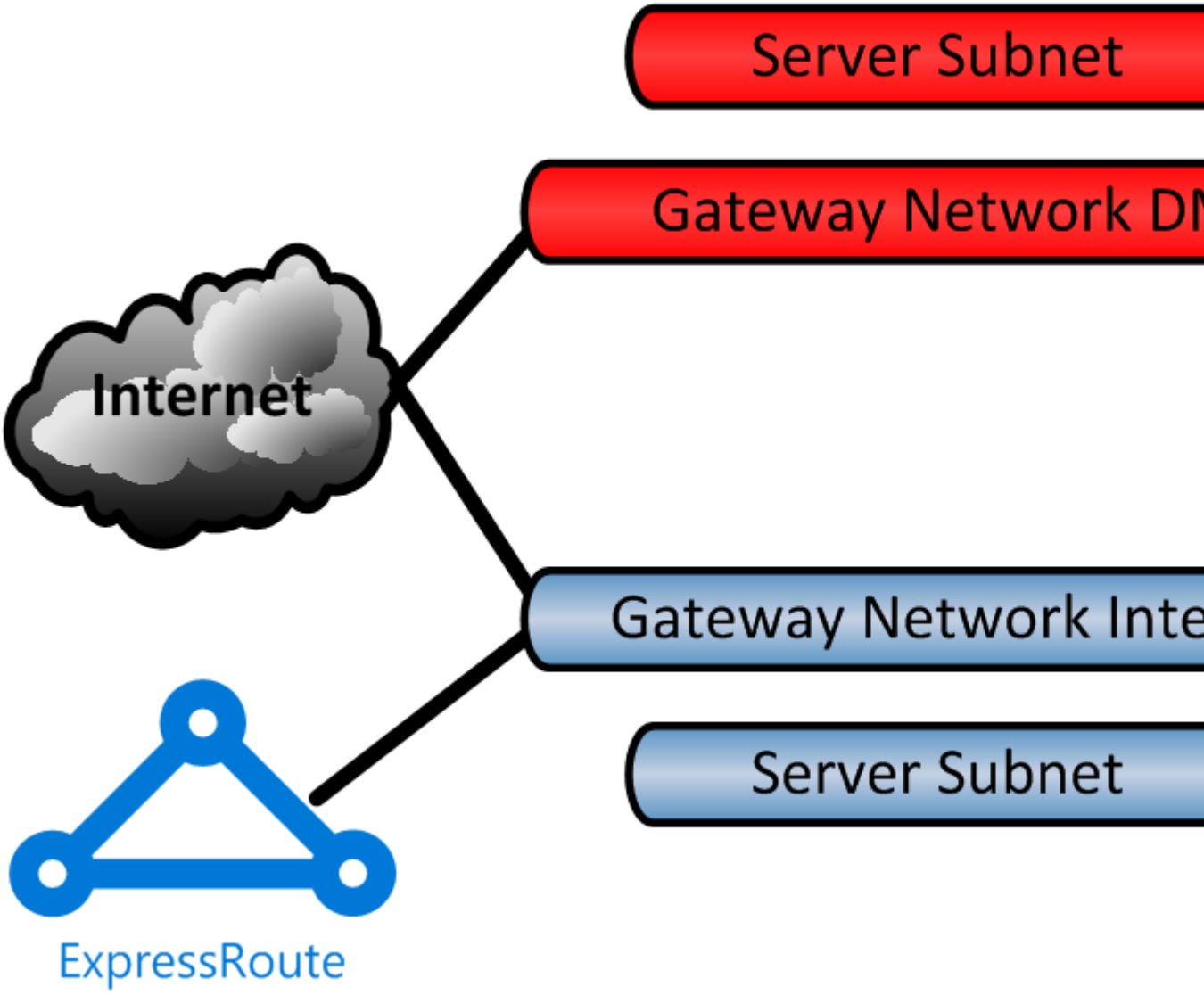

DC US
DC EMEA
FS Austin
FS Sao Paulo
FS Seattle
FS Paris
FS London
Regional Offices
Regional Offices
Local Replication (Local Office and all Datacenter)
Global Replication (all Filese
Local Fileshare
Home
Profiles
Global Fileshare

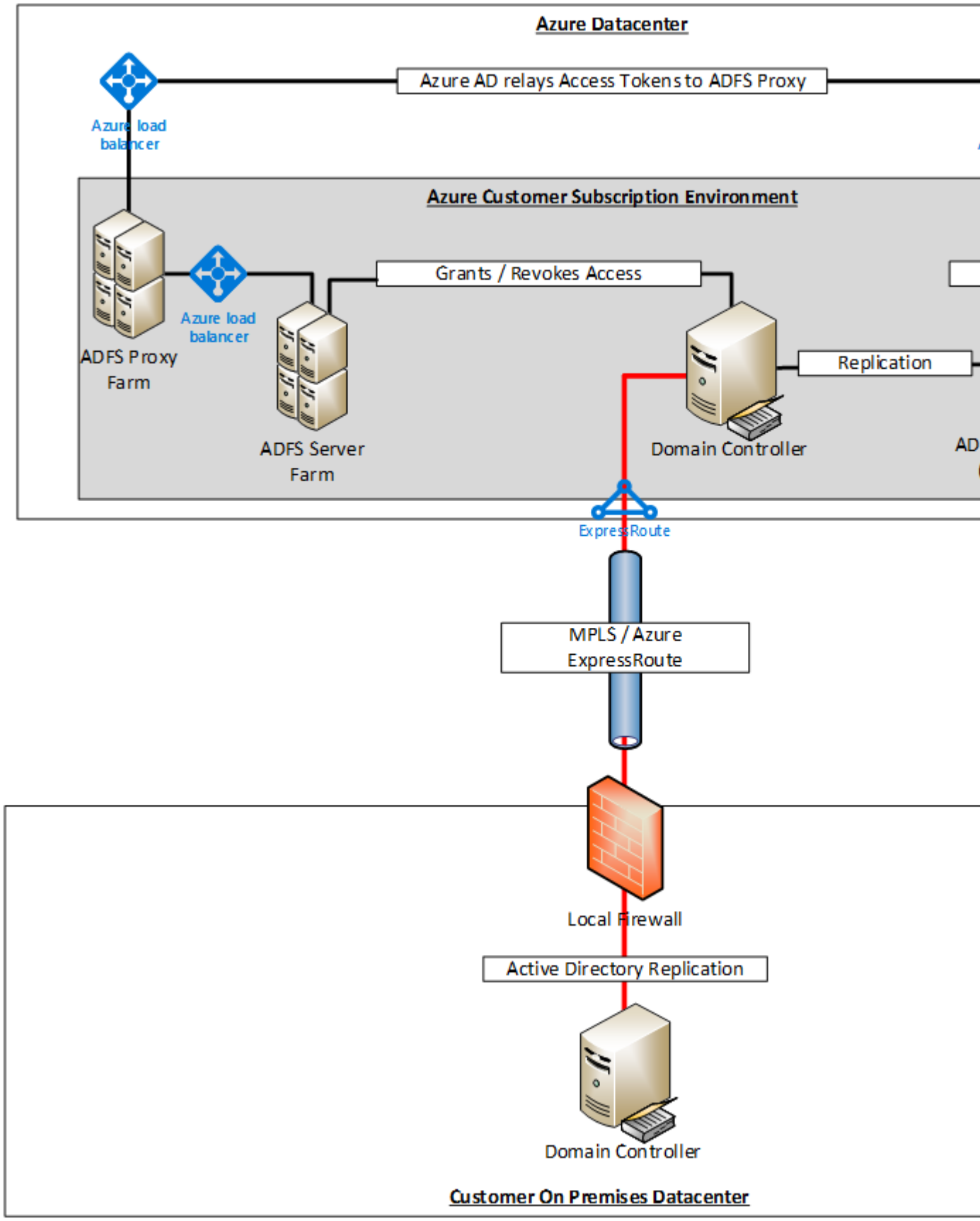
Canada East
Canada Central
US Gov Iowa
Central US
West US 2
West US
US Gov Arizona
West Central US
US Gov Texas
South Central US
North Central US
US DoD East
East US
East US 2
US Gov Virginia
US DoD Central
UK South
North Europe
UK West
France Central
France South
West Europe
Germany Northeast
Germany Central
Korea Central
Korea South
China North
Japan East
Japan West
China East
East Asia
West India
Central India
South India
Southeast Asia
Brazil South
Australia East
Australia Southeast

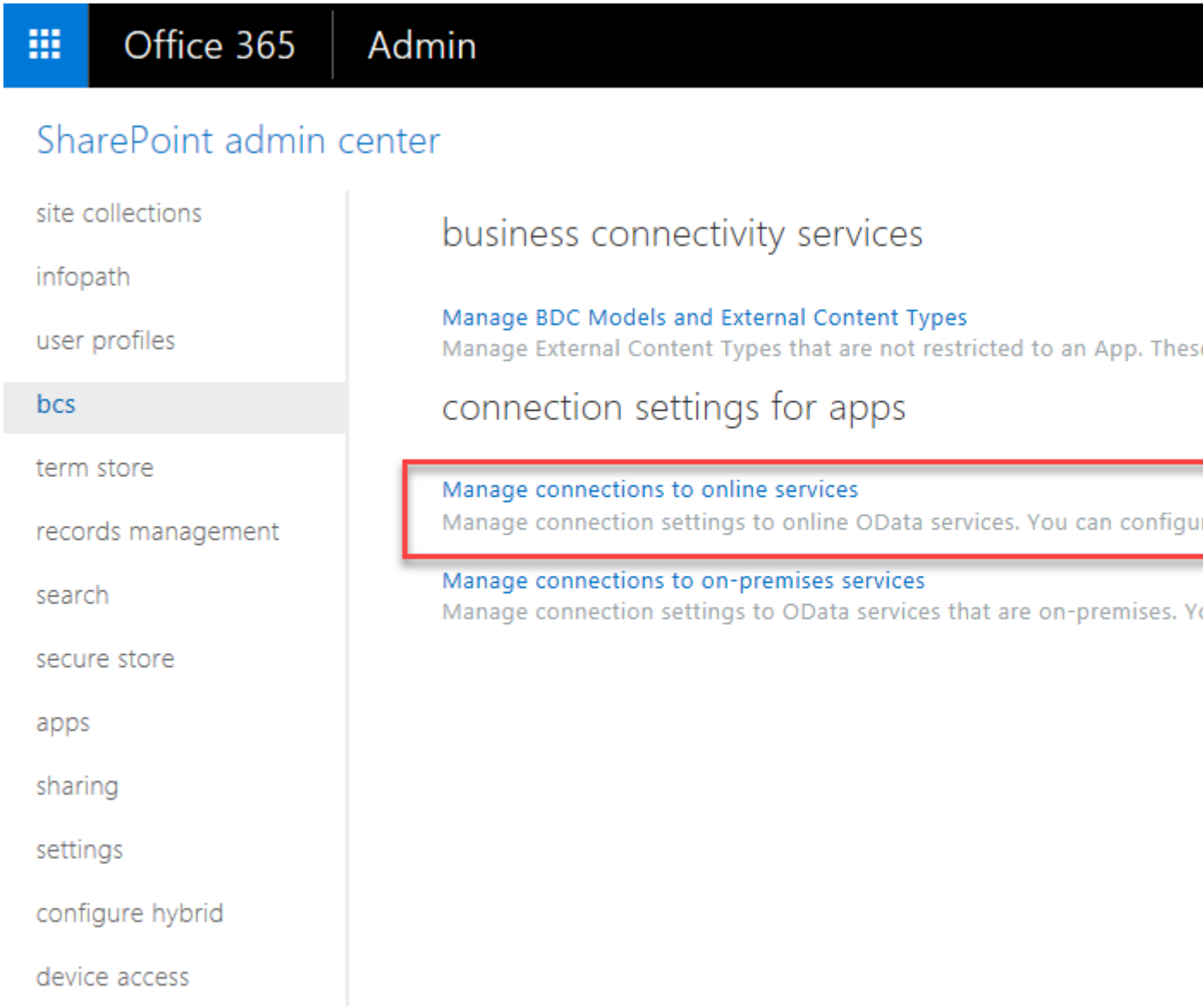

User to Service
Service to User
Service to User
User
Azure Service
User to Service
Edge Site
Edge Site

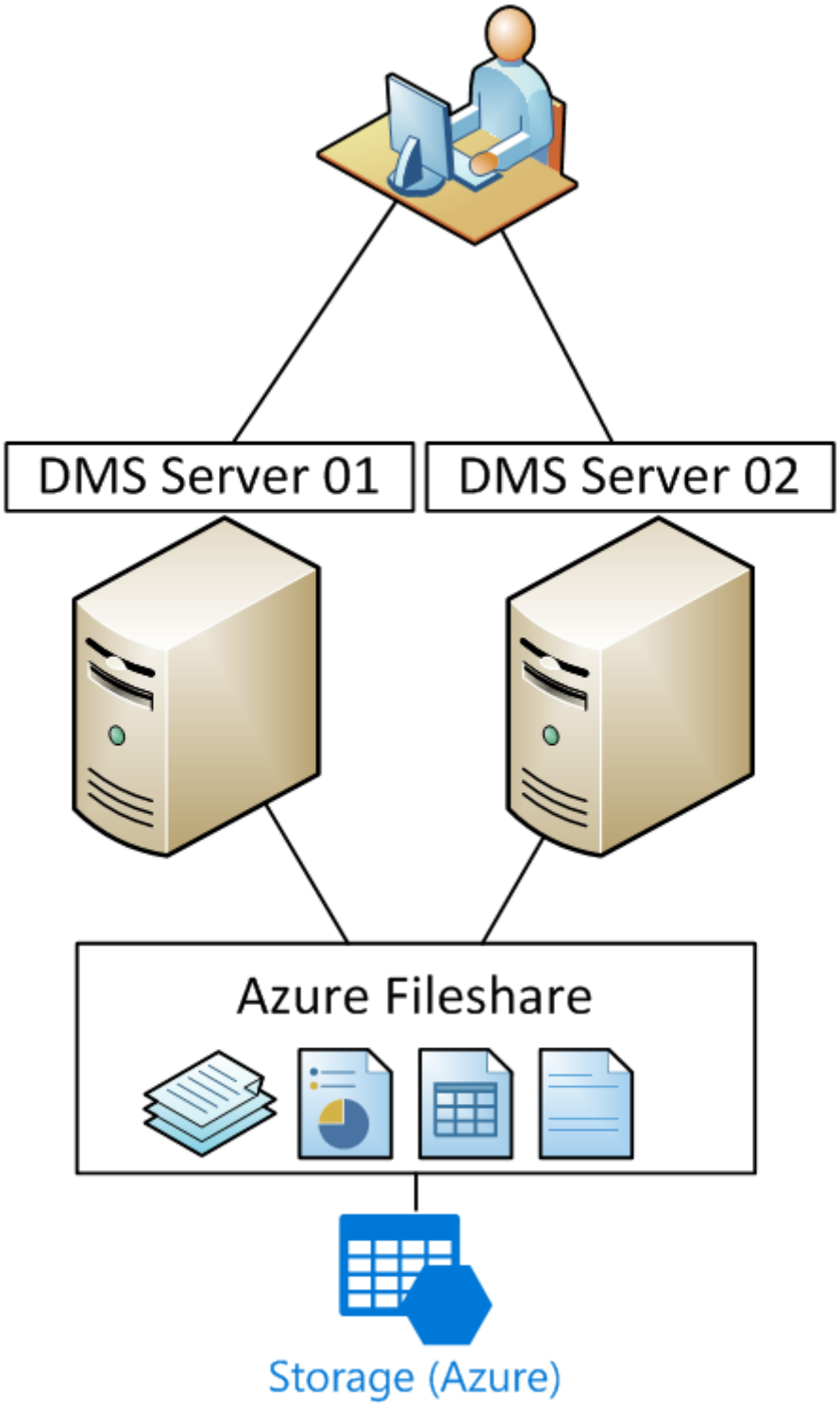

User VPN Client
VPN Tunnel
Global DNS Provider
DNS Recorde
Point to Site VPN Gateway
Americas
Point to Site VPN Gateway
EMEA
Point to Site VPN Gateway
APAC
Azure Infrastructure Americas
Azure Infrastructure Americas
Azure Infrastructure Americas
Microsoft
Backbone
Network
ExpressRoute
Americas
ExpressRoute
EMEA
ExpressRoute
APAC
ISP
Backbone
Network

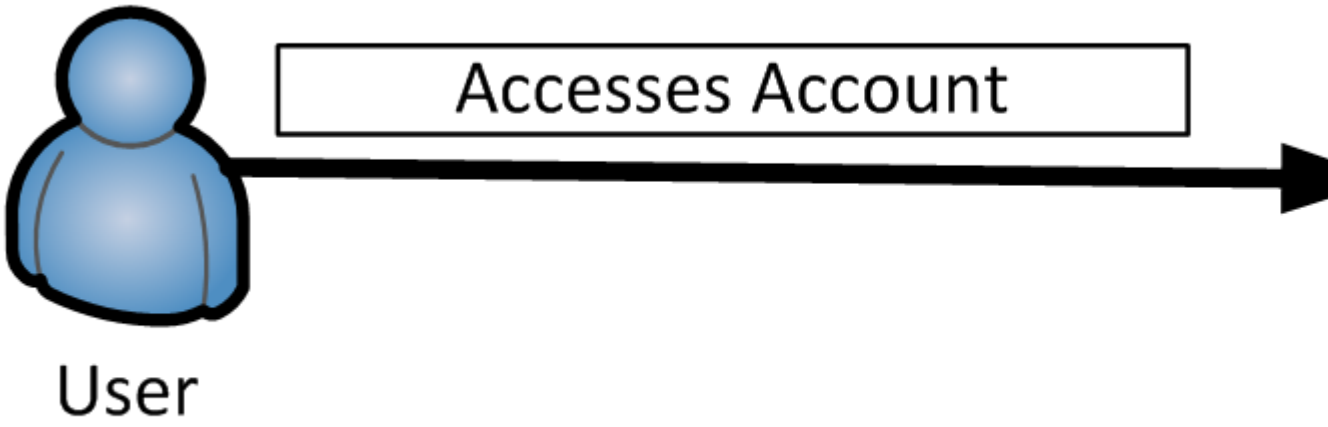

AWE-Demo-GW01 - Point-to-site configuration
Virtual network gateway
Save
Discard
Download VPN...
Search (Ctrl+/)
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Configuration
Connections
Point-to-site configuratio
1
Add at least one root certificate in order to be able to download the VPN client.
Connection health
Connections 0
Ingress (bytes) 0
Egress (bytes) 0
Address pool
Root certificates
NAME
PUBLIC CERTIFICATE DATA
2

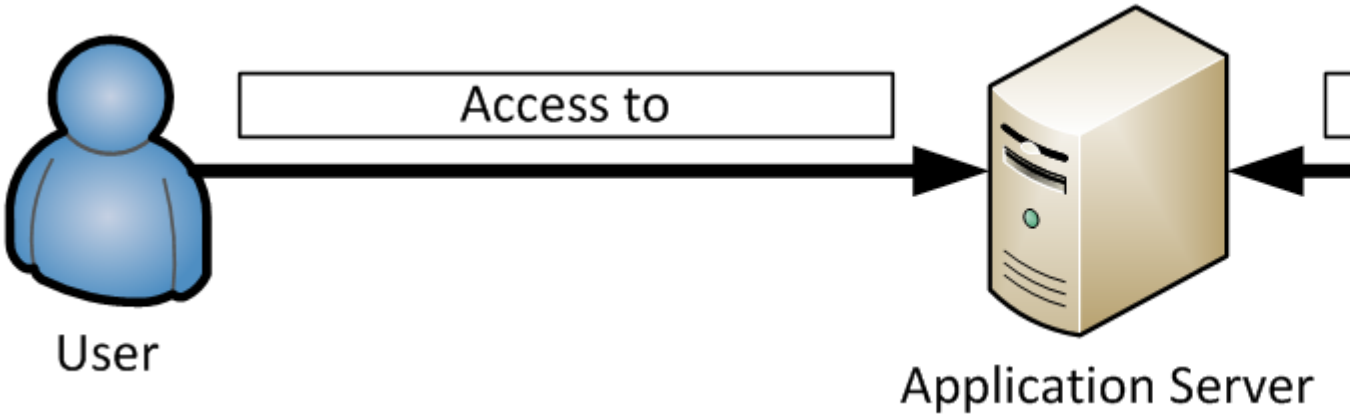

Server Subnet
Gateway Network DM
Internet
Gateway Network Inte
Server Subnet
ExpressRoute

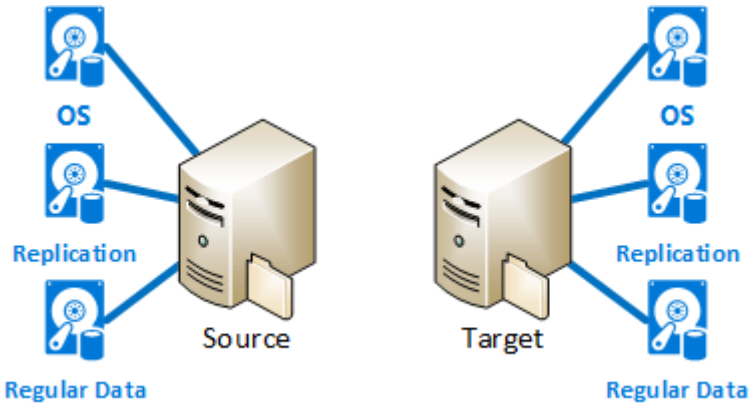

Azure Datacenter
Azure AD relays Access Tokens to ADFS Proxy
Azure load balancer
Azure Customer Subscription Environment
Grants / Revokes Access
Azure load balancer
ADFS Proxy Farm
ADFS Server Farm
Domain Controller
Replication
ExpressRoute
MPLS / Azure ExpressRoute
Local Firewall
Active Directory Replication
Domain Controller
Customer On Premises Datacenter


Office 365
Admin
SharePoint admin center
site collections
infopath
user profiles
bcs
term store
records management
search
secure store
apps
sharing
settings
configure hybrid
device access
business connectivity services
Manage BDC Models and External Content Types
Manage External Content Types that are not restricted to an App. Thes
connection settings for apps
Manage connections to online services
Manage connection settings to online OData services. You can configu
Manage connections to on-premises services
Manage connection settings to OData services that are on-premises. Yo


DMS Server 01
DMS Server 02
Azure Fileshare
Storage (Azure)

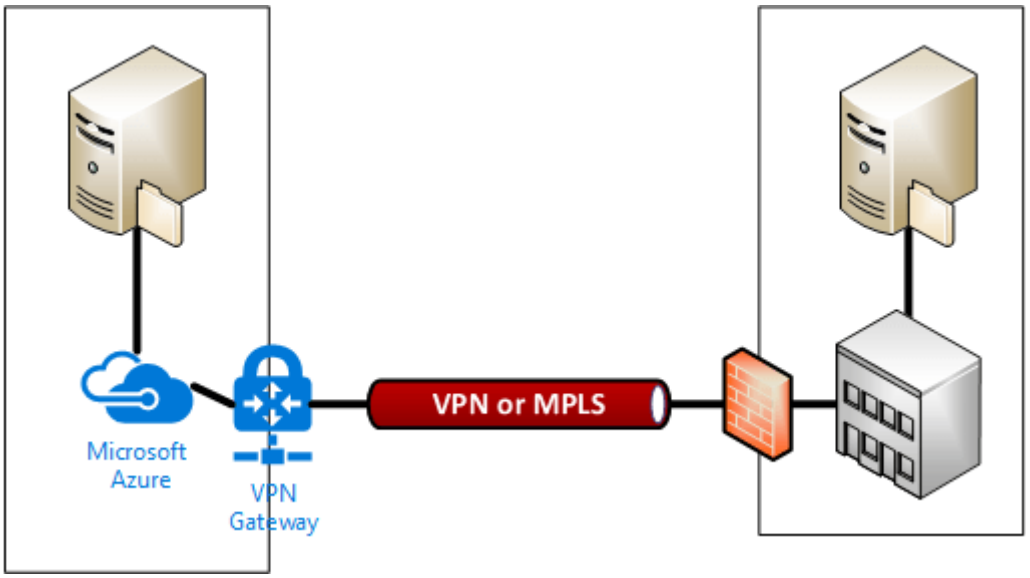

Accesses Account
User

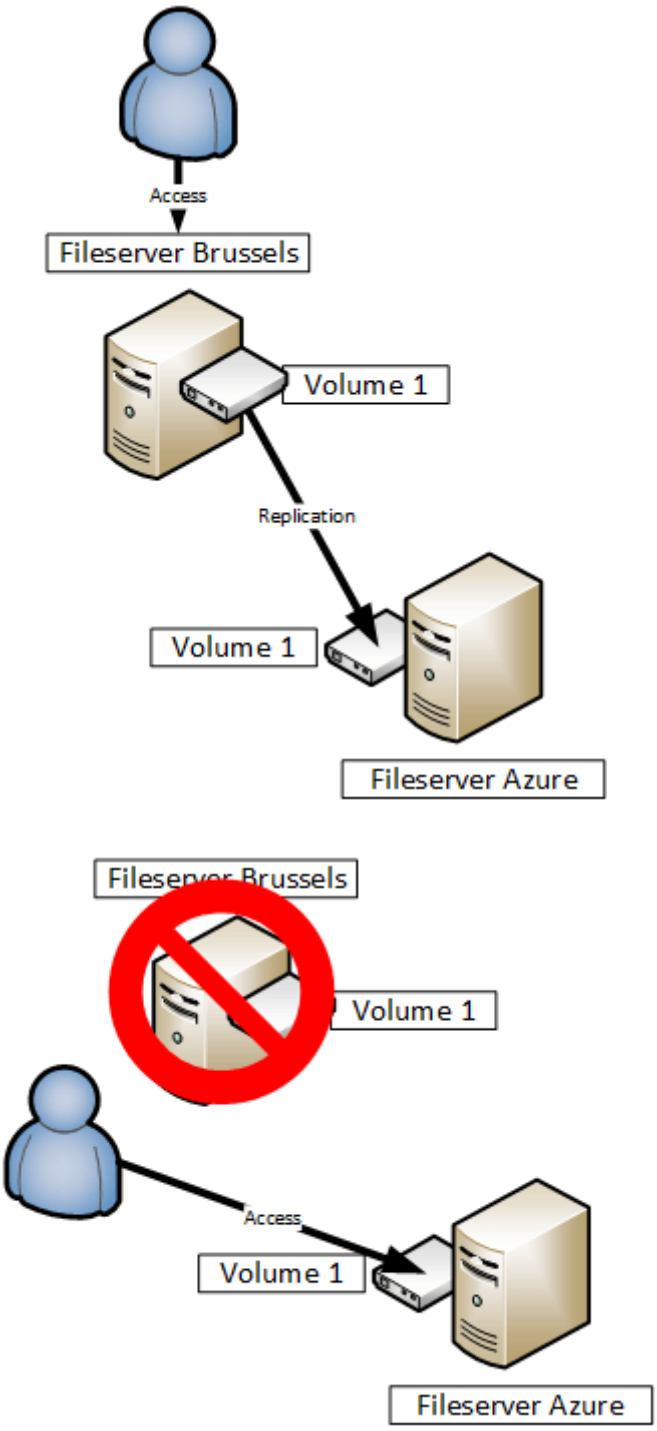

Access to
User
Application Server

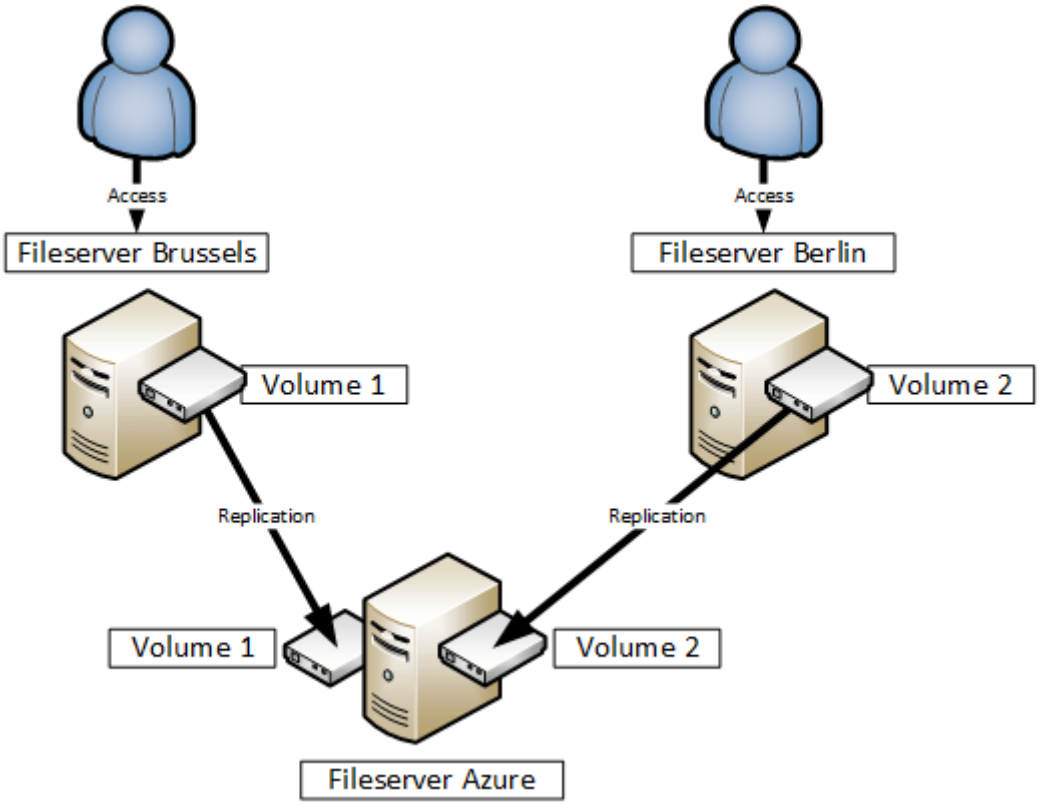

OS
Replication
Regular Data
Source
Target
OS
Replication
Regular Data

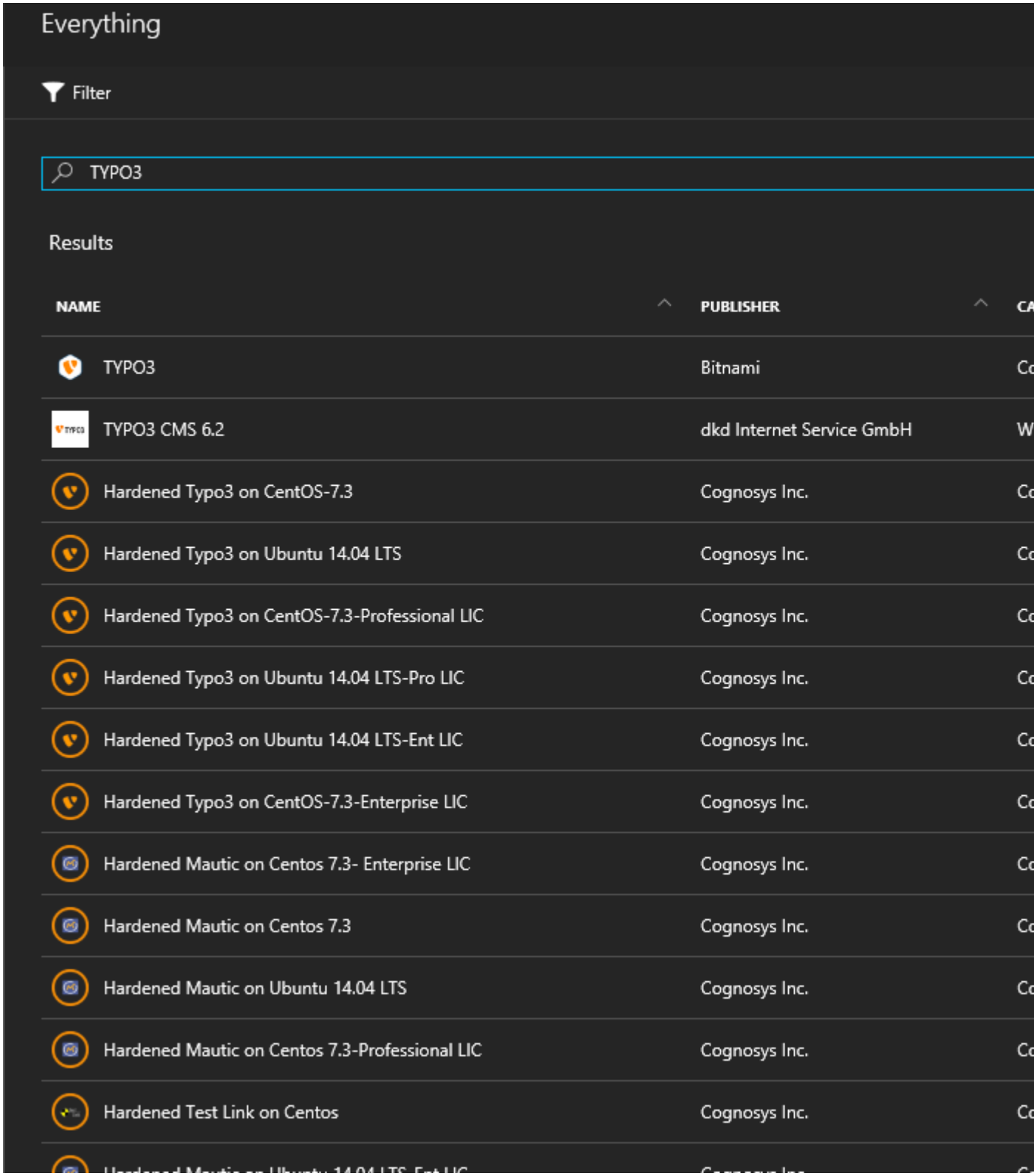
DS1_V2 Standard ★	DS2_V2 Standard ★	DS3_V2 Standard
1 Core	2 Cores	4 Cores
3.5 GB	7 GB	14 GB
2 Data disks	4 Data disks	8 Data disks
3200 Max IOPS	6400 Max IOPS	12800 Max IOPS
7 GB Local SSD	14 GB Local SSD	28 GB Local SSD
Load balancing	Load balancing	Load balancing
Premium disk support	Premium disk support	Premium disk support
59,60 EUR/MONTH (ESTIMATED)	119,21 EUR/MONTH (ESTIMATED)	238,42 EUR/MONTH (ESTIMATED)

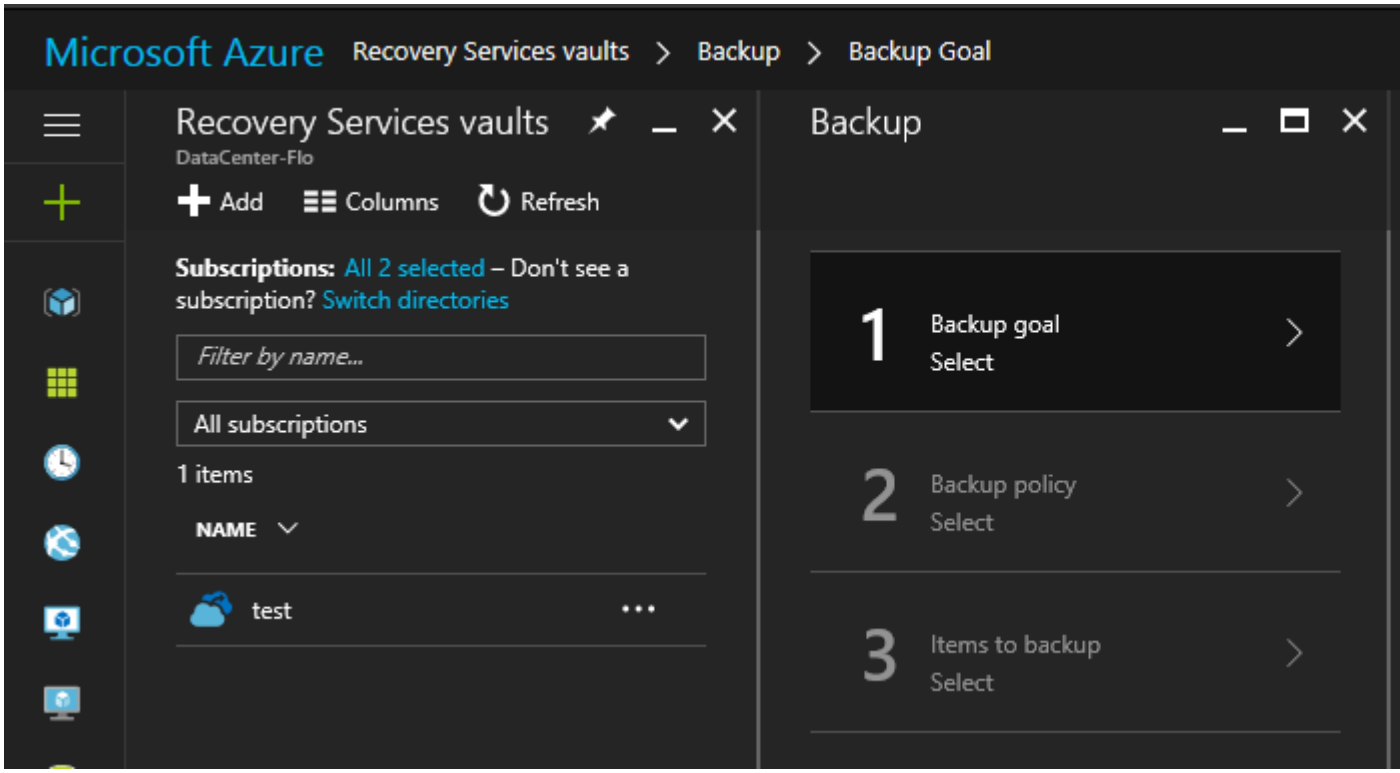
DS4_V2 Standard	DS5_V2 Standard	DS11_V2 Standard ★
8 Cores	16 Cores	2 Cores
28 GB	56 GB	14 GB
16 Data disks	32 Data disks	4 Data disks
25600 Max IOPS	51200 Max IOPS	6400 Max IOPS
56 GB Local SSD	112 GB Local SSD	28 GB Local SSD
Load balancing	Load balancing	Load balancing
Premium disk support	Premium disk support	Premium disk support

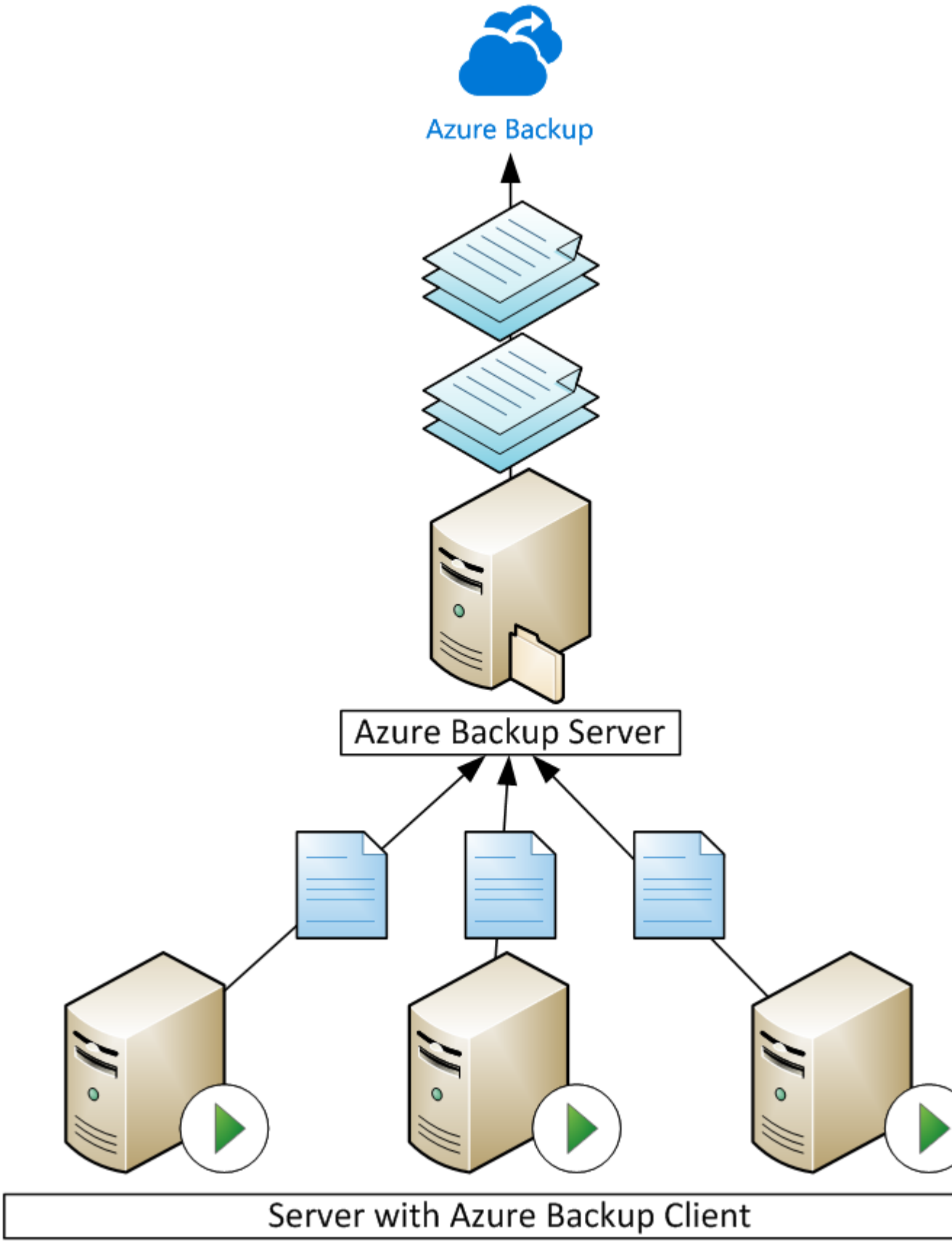



Access
Fileserver Brussels
Volume 1
Replication
Volume 1
Fileserver Azure
Fileserver Brussels
Volume 1
Access
Volume 1
Fileserver Azure


Access
Fileserver Brussels
Access
Fileserver Berlin
Volume 1
Volume 2
Replication
Replication
Volume 1
Volume 2
Fileserver Azure


Everything
Filter
TYPO3
Results
NAME
PUBLISHER
TYPO3
Bitnami
TYPO3 CMS 6.2
dkd Internet Service GmbH
Hardened Typo3 on CentOS-7.3
Cognosys Inc.
Hardened Typo3 on Ubuntu 14.04 LTS
Cognosys Inc.
Hardened Typo3 on CentOS-7.3-Professional LIC
Cognosys Inc.
Hardened Typo3 on Ubuntu 14.04 LTS-Pro LIC
Cognosys Inc.
Hardened Typo3 on Ubuntu 14.04 LTS-Ent LIC
Cognosys Inc.
Hardened Typo3 on CentOS-7.3-Enterprise LIC
Cognosys Inc.
Hardened Mautic on Centos 7.3- Enterprise LIC
Cognosys Inc.
Hardened Mautic on Centos 7.3
Cognosys Inc.
Hardened Mautic on Ubuntu 14.04 LTS
Cognosys Inc.
Hardened Mautic on Centos 7.3-Professional LIC
Cognosys Inc.
Hardened Test Link on Centos
Cognosys Inc.


Microsoft Azure
Recovery Services vaults > Backup > Backup Goal
Recovery Services vaults
DataCenter-Flo
Add
Columns
Refresh
Subscriptions: All 2 selected – Don't see a subscription? Switch directories
Filter by name...
All subscriptions
1 items
NAME
test
Backup
1
Backup goal
Select
2
Backup policy
Select
3
Items to backup
Select


Azure Backup
Azure Backup Server
Server with Azure Backup Client

Products

- Featured
- Compute
- Networking
- Storage
- Web + Mobile
- Databases
- Intelligence + Analytics
- Internet of Things
- Enterprise Integration
- Security + Identity
- Developer Tools
- Monitoring + Management

SQL Database
Managed relational SQL Database-as-a-service

SQL Data Warehouse
Elastic data warehouse-as-a-service with enterprise-cla

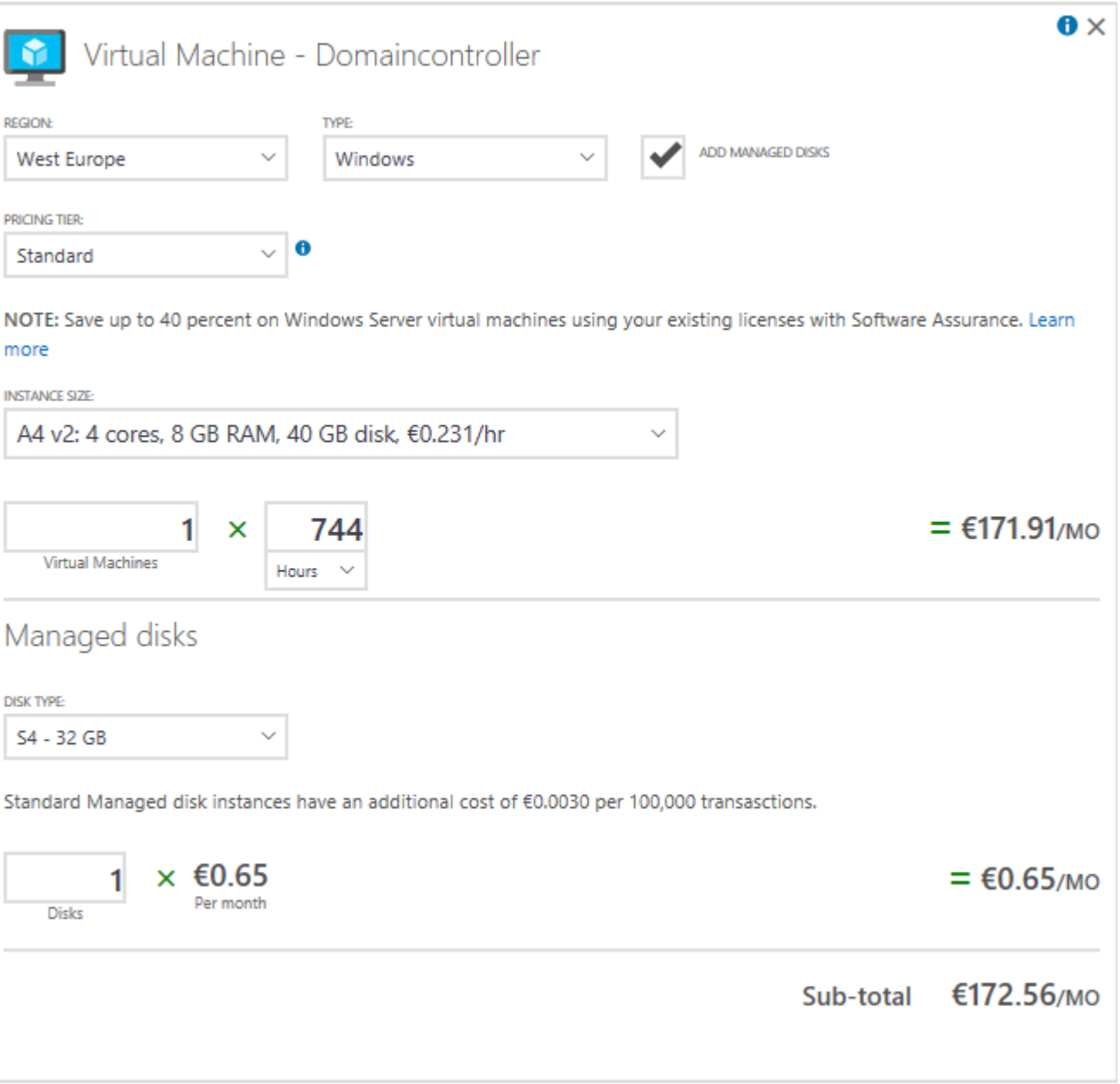
SQL Server Stretch Database
Dynamically stretch on-premises SQL Server databases

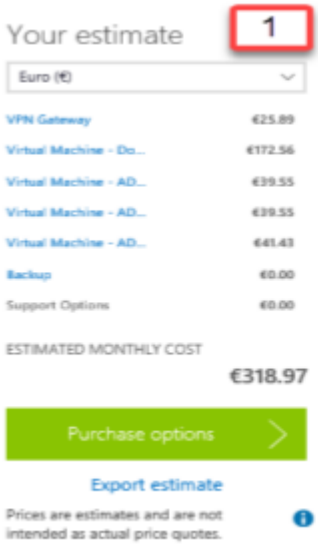
DocumentDB
Managed NoSQL document database-as-a-service

Storage
Durable, highly available, and massively scalable cloud

Redis Cache
Access to a secure, dedicated cache for your Azure app

Data Factory
Orchestrate and manage data transformation and mov


Virtual Machine - Domaincontroller
REGION:
West Europe
TYPE:
Windows
ADD MANAGED DISKS
PRICING TIER:
Standard
NOTE: Save up to 40 percent on Windows Server virtual machines using your existing licenses with Software Assurance. Learn more
INSTANCE SIZE:
A4 v2: 4 cores, 8 GB RAM, 40 GB disk, €0.231/hr
1
Virtual Machines
×
744
Hours
= €171.91/MO
Managed disks
DISK TYPE:
S4 - 32 GB
Standard Managed disk instances have an additional cost of €0.0030 per 100,000 transasctions.
1
Disks
×
€0.65
Per month
= €0.65/MO
Sub-total
€172.56/MO



Your estimate

Service type	Custom name	Region	Description	Estimated Cost
VPN Gateway	VPN Gateway	West Europe	static-dynamic tier, 744 gateway hour(s), 50 GB outbound vpn	€25.89
Virtual Machines	Virtual Machine - Domaincontroller	West Europe	1 Standard virtual machine(s), A4 v2 (4 cores, 8 GB RAM, 40 GB disk) size, 744 hours , Managed disks: standard-s4 Disk type with 1 disks	€172.56
Virtual Machines	Virtual Machine - AD Connect	West Europe	1 Standard virtual machine(s), A1 v2 (1 cores, 2 GB RAM, 10 GB disk) size, 744 hours , Managed disks: standard-s4 Disk type with 1 disks	€39.55
Virtual Machines	Virtual Machine - ADFS Server	West Europe	1 Standard virtual machine(s), A1 v2 (1 cores, 2 GB RAM, 10 GB disk) size, 744 hours , Managed disks: standard-s4 Disk type with 1 disks	€39.55
Virtual Machines	Virtual Machine - ADFS Proxy	West US	1 Standard virtual machine(s), A1 v2 (1 cores, 2 GB RAM, 10 GB disk) size, 744 hours , Managed disks: standard-s4 Disk type with 1 disks	€41.43
Backup	Backup	East US	1 instance(s), 0 GB, 0 GB LRS of storage	€0.00
Support			Support	€0.00
			Monthly Total	€318.97
			Annual Total	€3,827.67
Disclaimer				

All prices shown are in Euro (€). This is a summary estimate, not a quote. For up to date pricing information please visit https://azure.microsoft.com/pricing/calculator/
This estimate was created at 4/17/2017 6:49:39 PM UTC.

Total Cost of Ownership (TCO) Calculator PREVIEW

Inputs & Assumptions

Inputs | Assumptions

Region: Europe West — Currency: Euro

Compute

(•) Manual Input ( ) Bulk Input

Environment	Operating system	Server count	Proc(s) per server	Core(s) per proc	RAM (GB)
Physical Servers	Windows	20	4	4	112

Storage

Storage type	Disk Type	Capacity	Backup	Archive	
DAS/SAN	HDD	1 TB	0 TB	0 TB	☐ Enable GRS

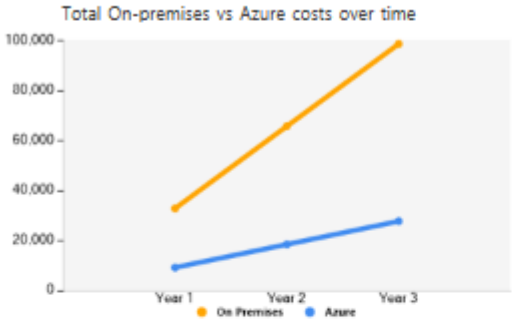
Networking

Outbound bandwidth (GB)/Month: 5 GB

Total Cost of Ownership (TCO) Calculator PREVIEW

Inputs & Assumptions

Export | Print | Get started with Azure



Your estimated cost savings could be as much as

$71,072 (72%)

over 3 years with Microsoft Azure

Estimated cost savings over 3 years by category

Compute	$43,459
Data center	$9,169
Networking	$19,338
Storage	$410
IT labor	$1,514

On-premises costs breakdown summary

Category	Costs
Compute	$69,696
Hardware	$55,078
Software	$9,261
Electricity	$5,357
Data center	$9,169
Networking	$19,338
Storage	$1,331
IT labor	$2,429
Total	$98,906

Azure costs breakdown summary

Category	Web direct costs	CPP costs with EA pricing
Compute	$41,654	$26,237
Data center	$0	$0
Networking	$0	$0
Storage	$921	$921
IT labor	$915	$915
Total	$43,491	$27,834

Estimated On-premises costs (3 Years)		Estimated Azure costs (3 Years)	
Compute costs	$69,696	Azure compute costs	$26,237
Data center costs	$9,169	Azure data center costs	$0
Networking costs	$19,338	Azure networking costs	$0
Storage costs	$1,331	Azure storage costs	$921
IT labor costs	$2,429	IT labor costs	$915
Total on-premises costs over 3 years	**$98,906**	**Total Azure web direct costs**	**$43,491**