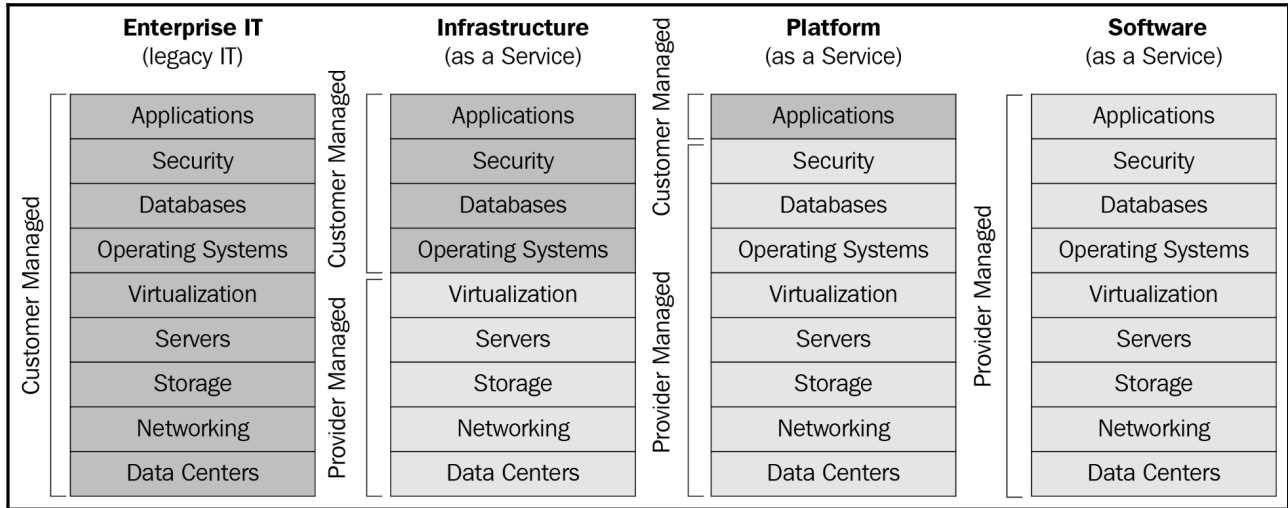
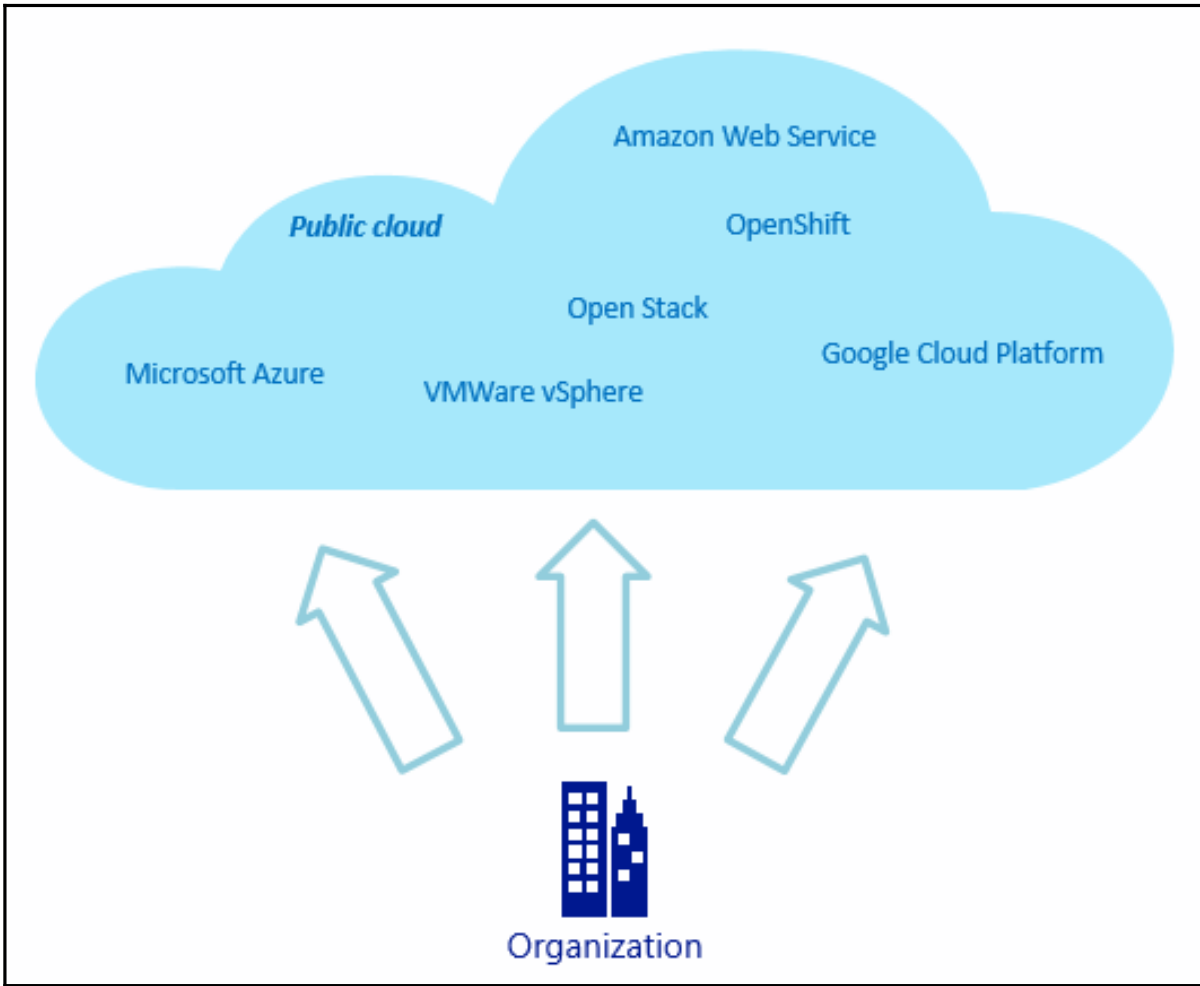
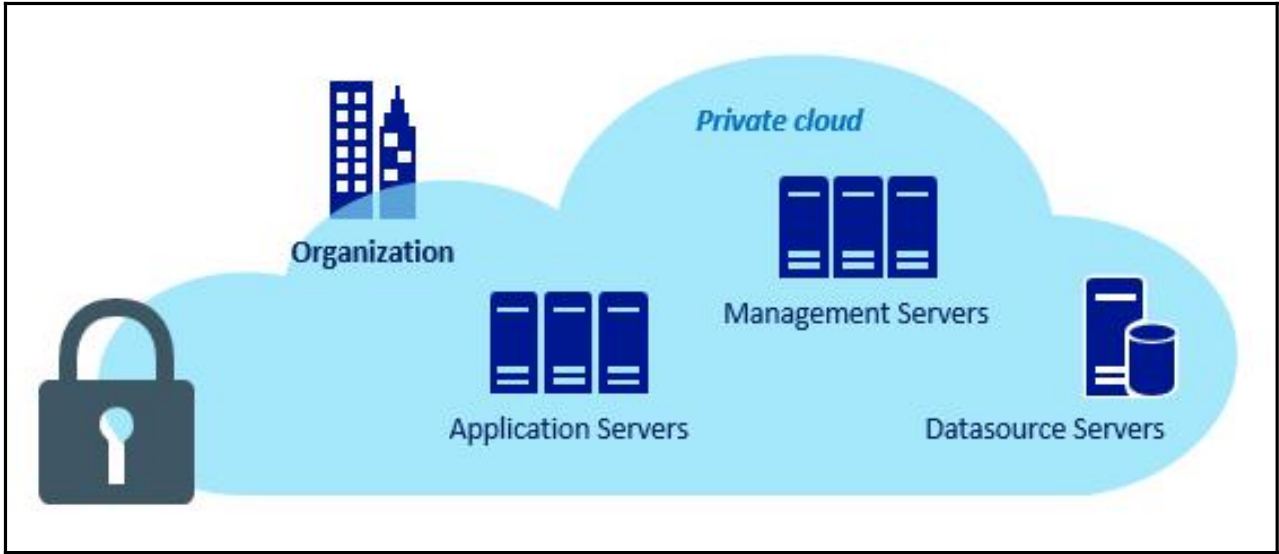
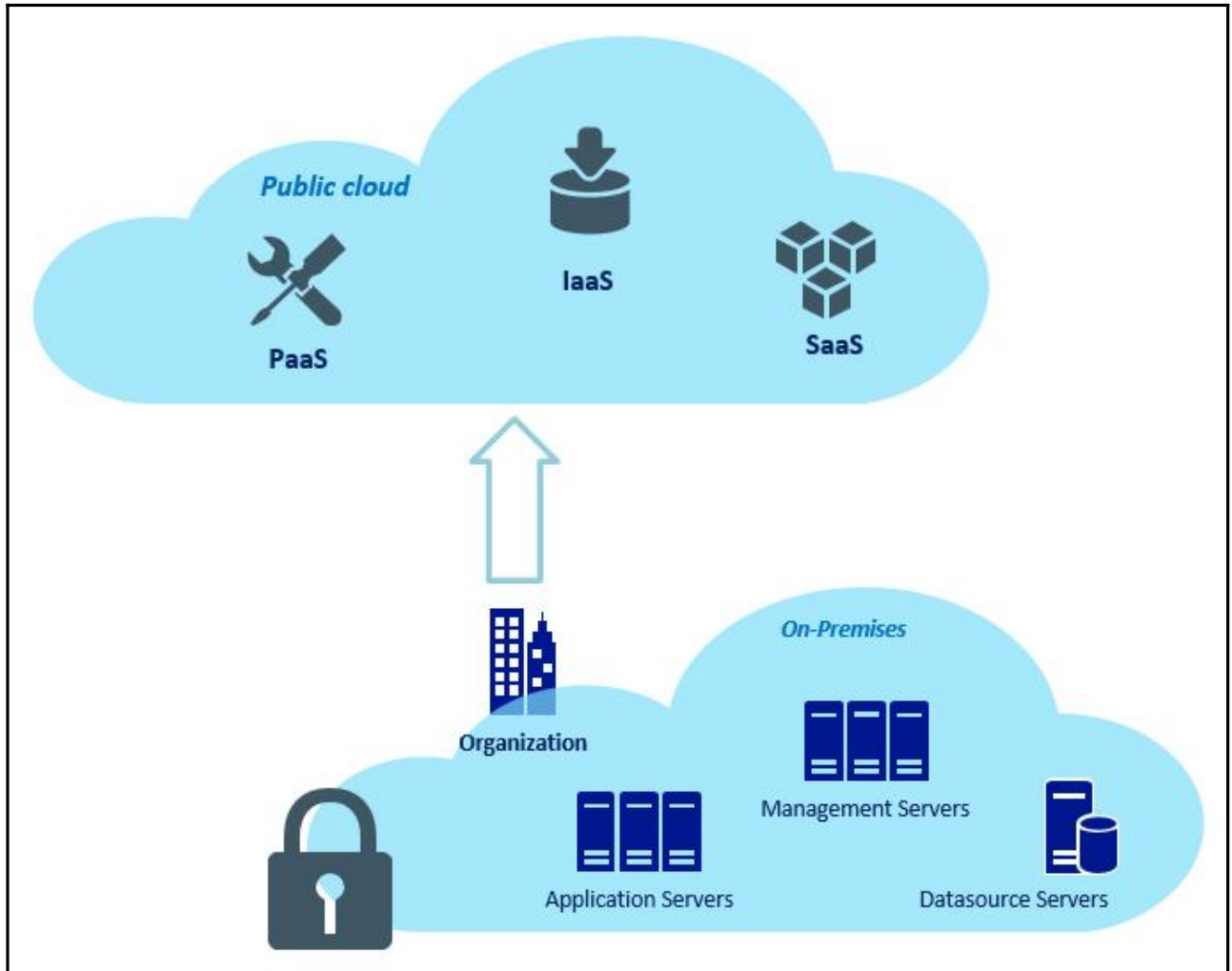


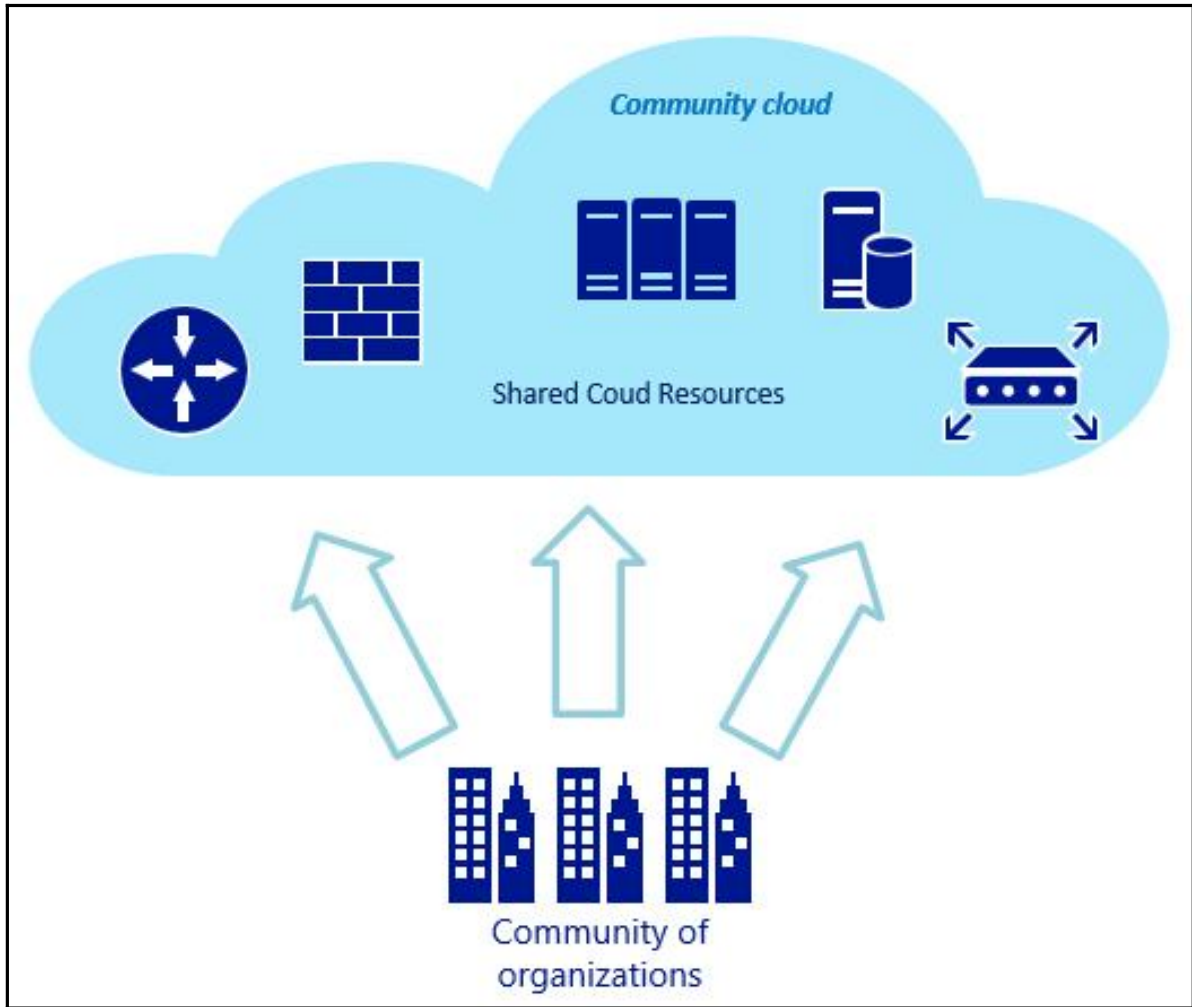
Chapter 01: Introduction to Cloud Computing



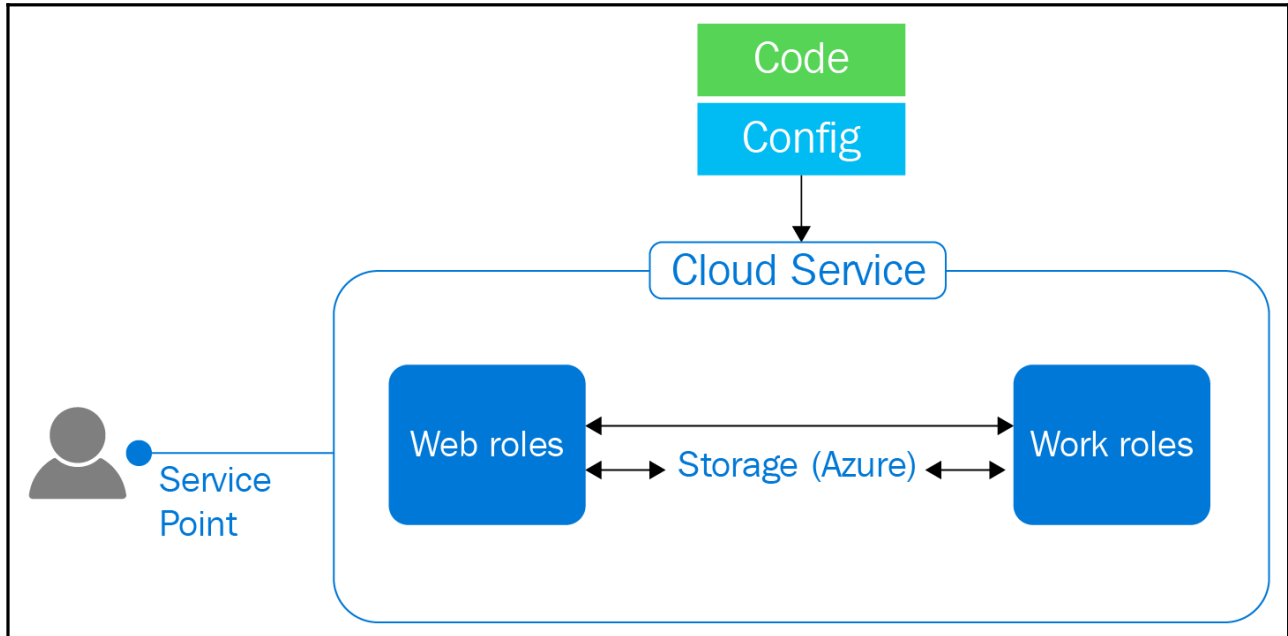


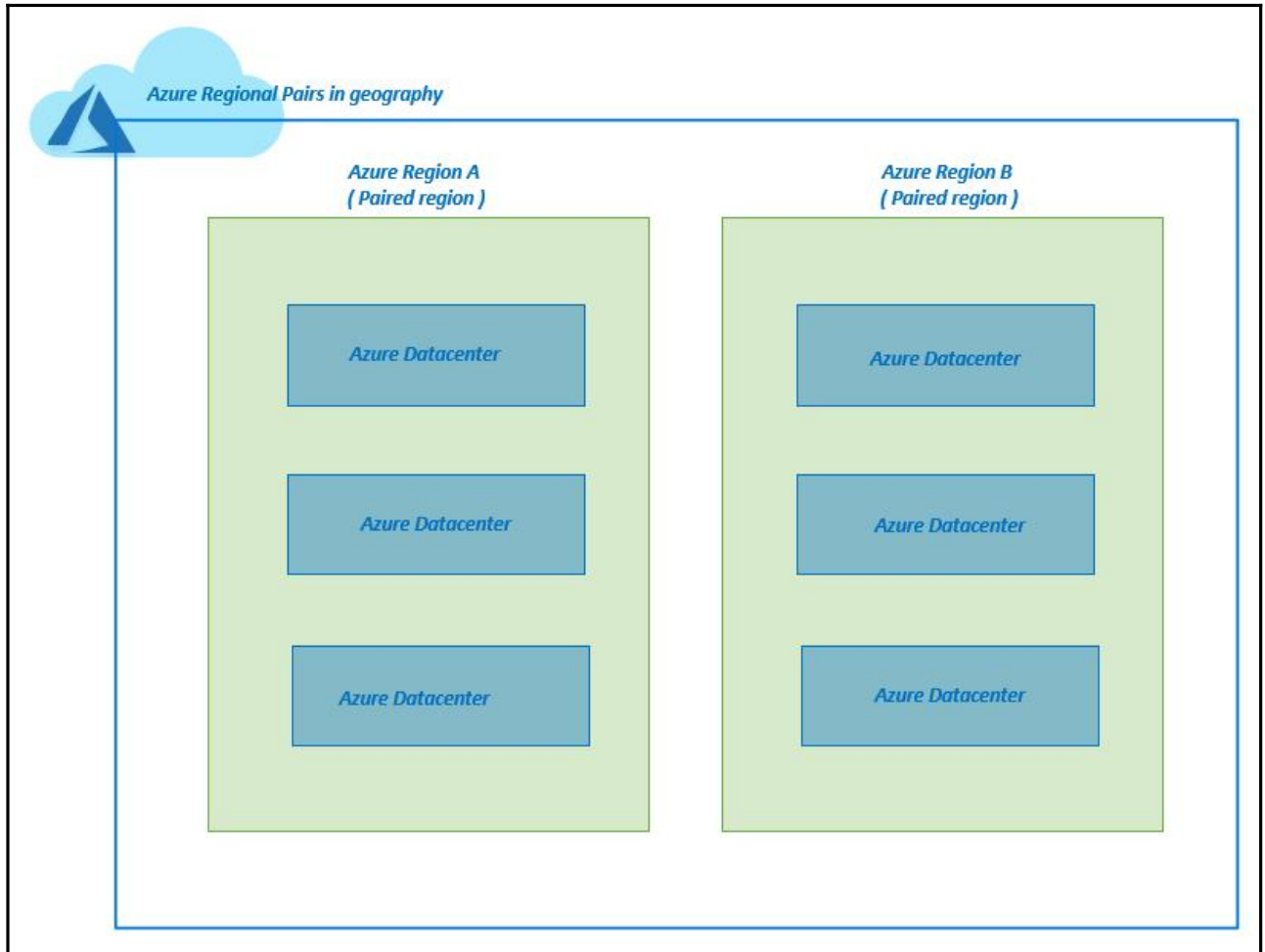


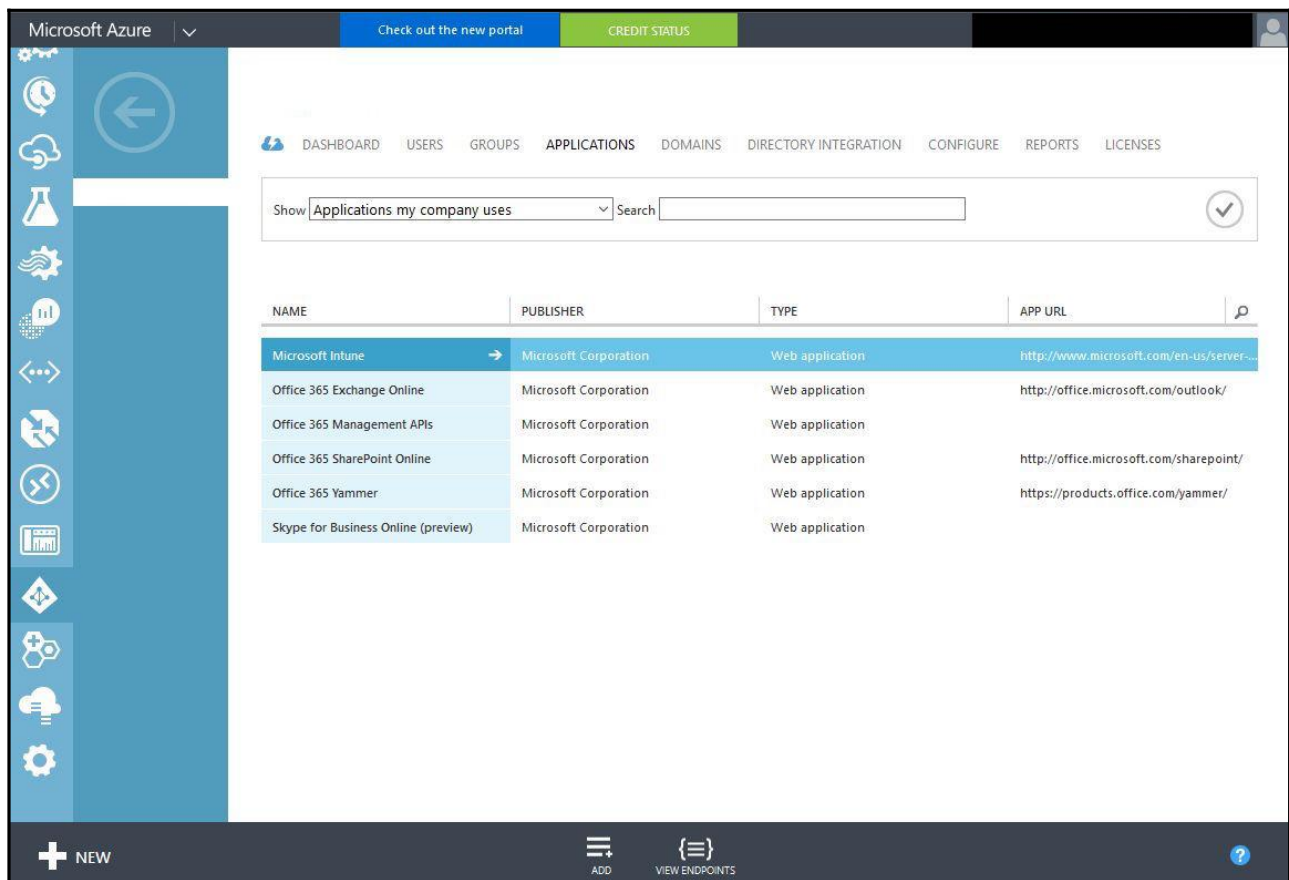
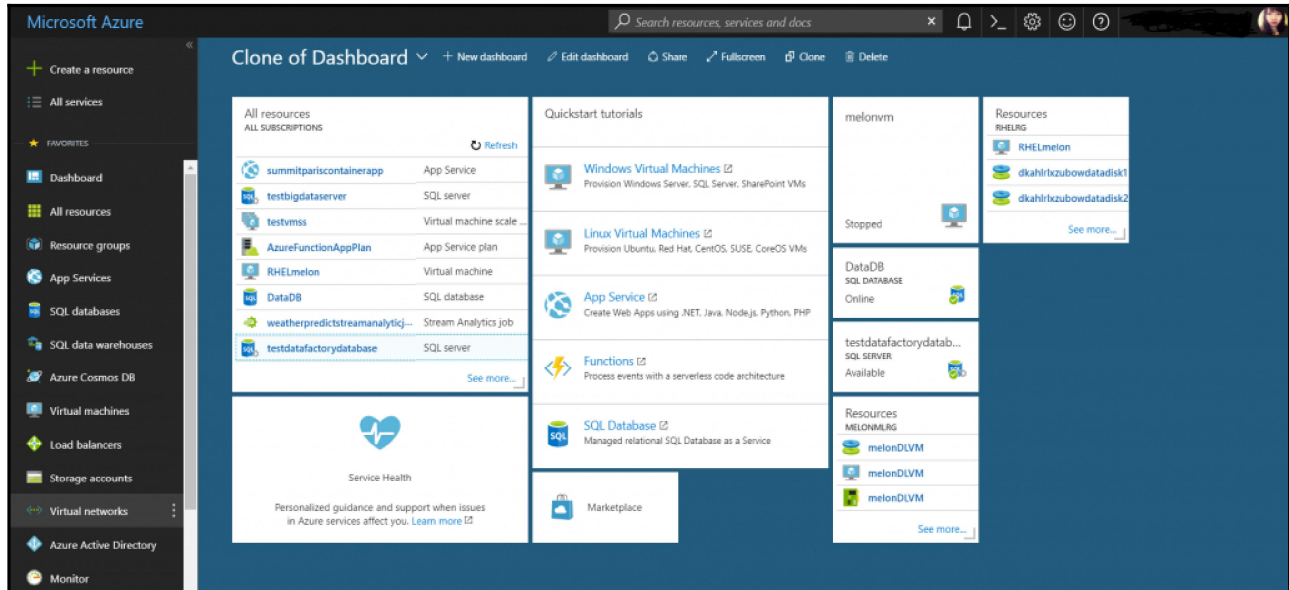




Chapter 02: Overview of Microsoft Azure







```
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.

PS C:\Users\mqin> az

Welcome to Azure CLI!
-----
Use `az -h` to see available commands or go to https://aka.ms/cli.
```

Telemetry

```
-----
The Azure CLI collects usage data in order to improve your experience.
The data is anonymous and does not include commandline argument values.
The data is collected by Microsoft.
```

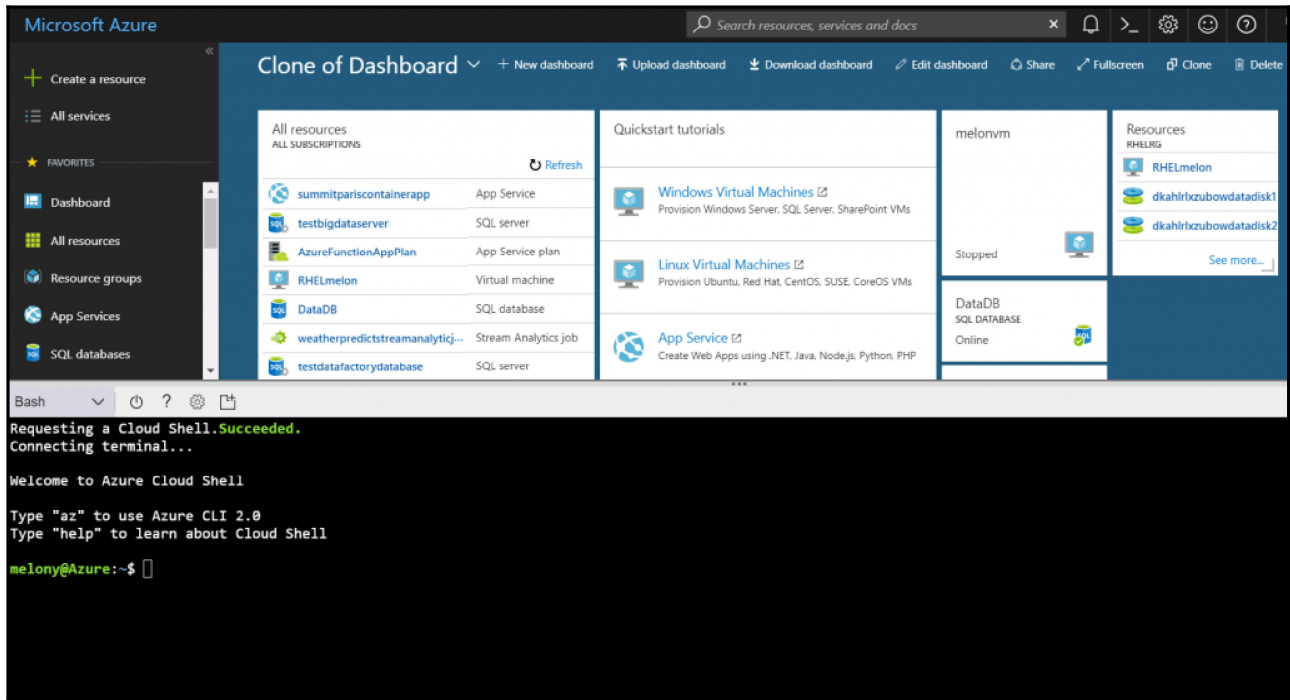
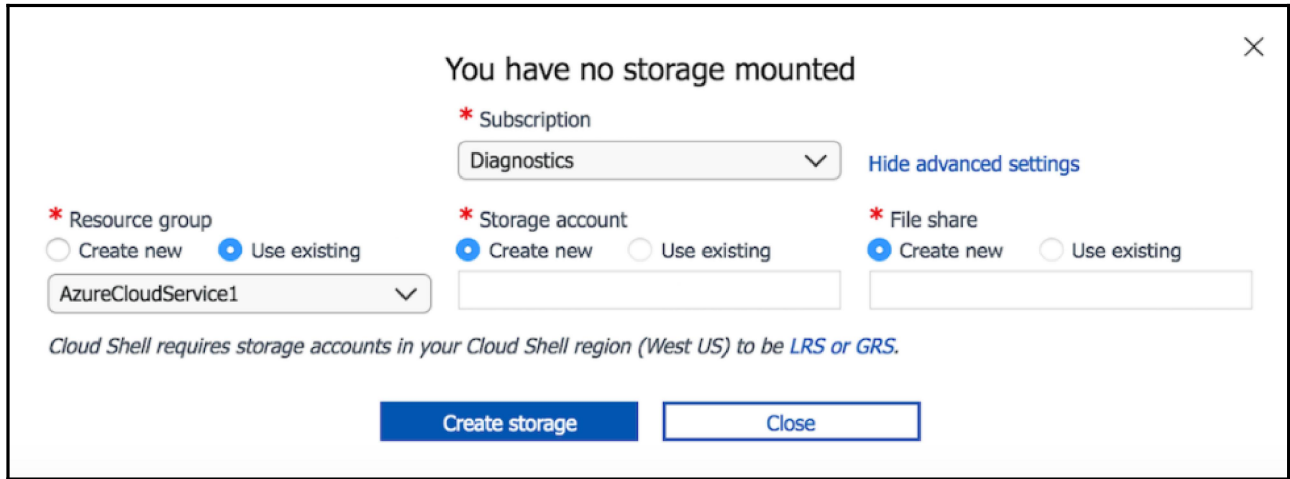
You can change your telemetry settings with `az configure`.



Welcome to the cool new Azure CLI!

Here are the base commands:

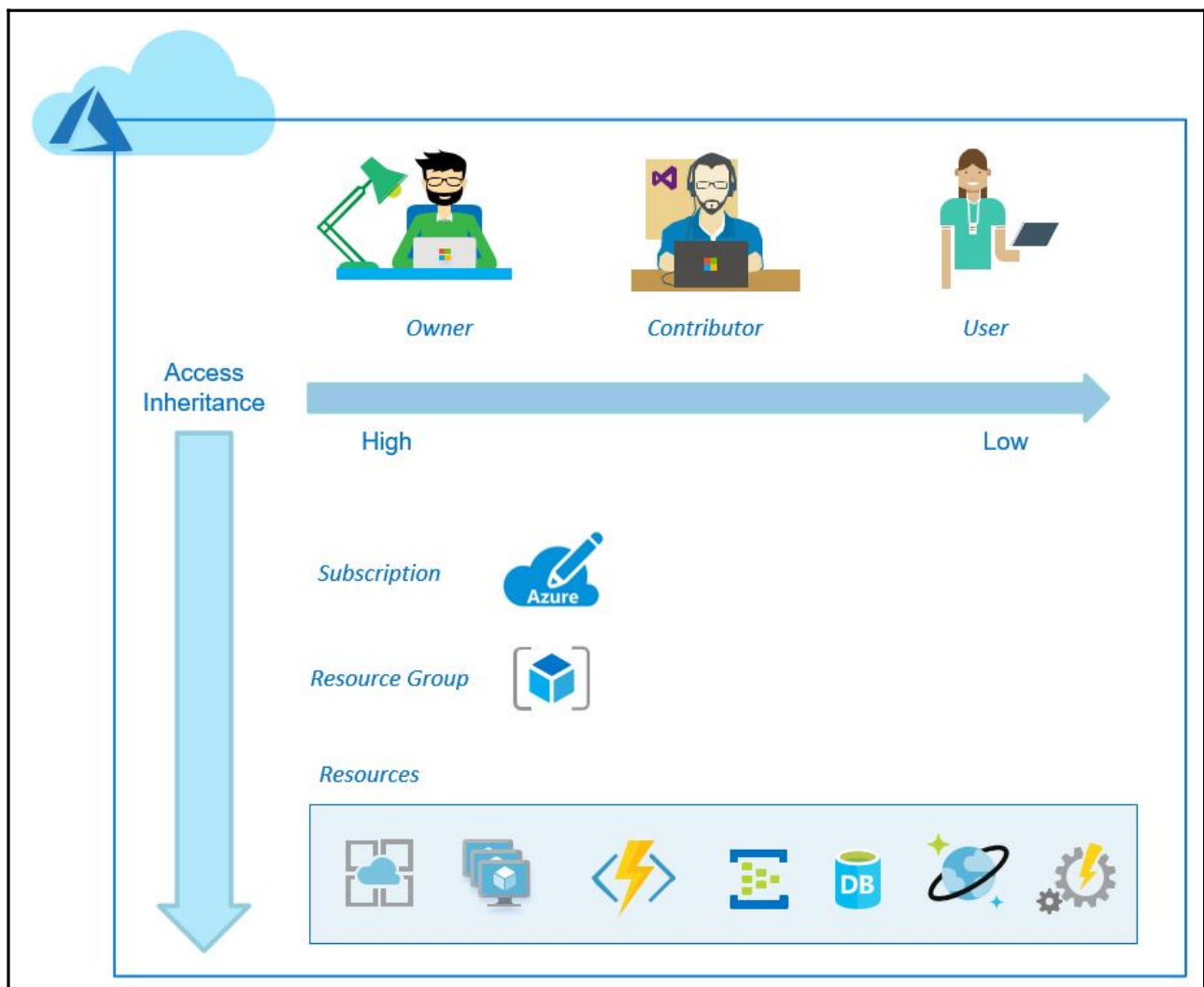
account	: Manage Azure subscription information.
acr	: Manage Azure Container Registries.
acs	: Manage Azure Container Services.
ad	: Manage Azure Active Directory Graph entities needed for Role Based Access Control.
advisor	: Manage Azure Advisor.
aks	: Manage Azure Kubernetes Services.
appservice	: Manage App Service plans.
backup	: Commands to manage Azure Backups.
batch	: Manage Azure Batch.
batchai	: Batch AI.
billing	: Manage Azure Billing.
cdn	: Manage Azure Content Delivery Networks (CDNs).
cloud	: Manage registered Azure clouds.
cognitiveservices	: Manage Azure Cognitive Services accounts.
configure	: Display and manage the Azure CLI 2.0 configuration. This command is interactive.
consumption	: Manage consumption of Azure resources.
container	: (PREVIEW) Manage Azure Container Instances.
cosmosdb	: Manage Azure Cosmos DB database accounts.
disk	: Manage Azure Managed Disks.



```
PS C:\Users\mqin> Get-Module AzureRM -ListAvailable
```


Répertoire : C:\Program Files\WindowsPowerShell\Modules

ModuleType	Version	Name	ExportedCommands
Script	6.2.1	AzureRM	
Script	5.7.0	AzureRM	



Chapter 03: Implementing and Managing Azure Virtual Machines

Series	VM Size Family	User case
A Series	Entry-level economical VMs for dev/test	Development and test servers, low traffic web servers, small to medium databases, servers for proof-of-concepts, and code repositories.
B Series	Base level performance for workload, ability to burst CPU performance up to 100% of the CPU	Ideal for workloads that do not need the full performance of the CPU continuously, like web servers, small databases and development and test environments
D Series	General purpose compute	most applications, relational databases, in-memory caching, and analytics
Dv2 Series	Next generation general purpose compute	Ideal for applications that demand faster CPUs, better local disk performance or higher memories, and offer a powerful combination for many enterprise-grade applications
E Series	Optimized for in-memory hyper-threaded applications	SAP HANA, SAP S/4 HANA, SQL Hekaton and other large in-memory business critical workloads
F Series	Compute optimized virtual machines	Batch processing, web servers, analytics, and gaming
G Series	Memory and storage optimized virtual machines	Large SQL and NoSQL databases, ERP, SAP, and data warehousing solutions
H Series	High performance virtual machines	High performance computing, batch processing, analytics, molecular modeling, and fluid dynamics
L Series	Storage optimized virtual machines	NoSQL databases such as Cassandra, MongoDB, Cloudera, and Redis. Data warehousing applications and large transactional databases are great use cases as well
M Series	Largest memory optimized virtual machines	SAP HANA, SAP S/4 HANA, SQL Hekaton and other large in-memory business critical workloads requiring massive parallel compute power
N Series	GPU enabled virtual machines	Graphics rendering, video editing, remote visualization, high performance computing, and analytics



Windows Server 2016 Datacenter







Microsoft

Windows Server 2016 is a comprehensive server operating system designed to run the applications and infrastructure that power your business. It includes built-in layers of security and innovation to help you run traditional and cloud-native applications with confidence. This Server with Desktop Experience image includes all roles including the graphical user interface (GUI).

This image can be used with [Azure Hybrid Benefit for Windows Server](#).

Legal Terms

By clicking the Create button, I acknowledge that I am getting this software from Microsoft and that the [legal terms](#) of Microsoft apply to it. Microsoft does not provide rights for third-party software. Also see the [privacy statement](#) from Microsoft.

PUBLISHER Microsoft

[Documentation](#)

Select a deployment model ⓘ

Resource Manager ▼

Create

Home > New > Marketplace > Compute > Windows Server 2016 Datacenter > Create virtual machine > Basics

Create virtual machine

- 1 Basics
Configure basic settings >
- 2 Size
Choose virtual machine size >
- 3 Settings
Configure optional features >
- 4 Summary
Windows Server 2016 Datacen... >

Basics

* Name
testinfracwinvm ✓

VM disk type ⓘ
SSD ▾

* User name
testcloudadmin ✓

* Password
..... ✓

* Confirm password
..... ✓

Subscription
Visual Studio Dev Essentials ▾

* Resource group ⓘ
 Create new Use existing

Home > New > Marketplace > Compute > Windows Server 2016 Datacenter > Create virtual machine > Basics

Create virtual machine

- 1 Basics**
Configure basic settings >
- 2 Size
Choose virtual machine size >
- 3 Settings
Configure optional features >
- 4 Summary
Windows Server 2016 Datacen... >

Basics

* Confirm password
..... ✓

Subscription
Visual Studio Dev Essentials ▾

* Resource group ⓘ
 Create new Use existing

infra-vm-sg ✓

* Location
West Europe ▾

Save money
Save up to 40% with a license you already own.

* Already have a Windows license? ⓘ

Home > New > Marketplace > Compute > Windows Server 2016 Datacenter > Create virtual machine > Choose a size

Create virtual machine

- 1 Basics Done ✓
- 2 Size Choose virtual machine size
- 3 Settings Configure optional features
- 4 Summary Windows Server 2016 Datacen...

Choose a size

Browse the available sizes and their features

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Recommended sizes are determined by the publisher of the selected image based on hardware and software requirements.

Supported disk type: Minimum vCPUs: Minimum memory (GiB):

★ Recommended | [View all](#)

DS1_V2 Standard ★	DS1 Standard ★	B1S Standard
1 vCPU	1 vCPU	1 vCPU
3.5 GB	3.5 GB	1 GB
4 Data disks	4 Data disks	2 Data disks
3200 Max IOPS	3200 Max IOPS	800 Max IOPS
7 GB Local SSD	7 GB Local SSD	4 GB Local SSD
Premium disk support	Premium disk support	Premium disk support

Select

Choose a size

Browse the available sizes and their features

Search: Compute type: Disk type: vCPUs:

SKU	TYPE	COMPUTE ...	VCPUS	GB RAM	DATA DISKS	MAX IOPS	LOCAL SSD	PREMIUM ...	ADDITION...	EUR/MO
B1s	Standard	General purpose	1	1	2	800	4 GB	SSD		€7.91
B1ms	Standard	General purpose	1	2	2	1600	4 GB	SSD		€15.25
B2s	Standard	General purpose	2	4	4	3200	8 GB	SSD		€30.49
B2ms	Standard	General purpose	2	8	4	4800	16 GB	SSD		€60.98
B4ms	Standard	General purpose	4	16	8	7200	32 GB	SSD		€121.97
B8ms	Standard	General purpose	8	32	16	10800	64 GB	SSD		€243.94
D2s_v3	Standard	General purpose	2	8	4	4000	16 GB	SSD		€75.29

Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Recommended sizes are determined by the publisher of the selected image based on hardware and software requirements.

Select

Storage

Use managed disks ⓘ

No Yes

* Storage account ⓘ >

(new) testmanageddisks

Network

* Virtual network ⓘ >

(new) testloTRG-vnet

* Subnet ⓘ >

default (10.1.0.0/24)

* Public IP address ⓘ >

(new) test-ip

* Network security group (firewall) ⓘ >

(new) test-nsg

Home > New > Marketplace > Compute > Windows Server 2016 Datacenter > Create virtual machine > Settings

Create virtual machine

- 1 Basics Done ✓
- 2 Size Done ✓
- 3 Settings** Configure optional features >
- 4 Summary Windows Server 2016 Datacen... >

Settings

High availability

Availability zone ⓘ
None ▾
Availability zones are not available for the chosen location and size.

* Availability set ⓘ
None >

Storage

Use managed disks ⓘ
 No Yes

Network

* Virtual network ⓘ
(new) infra-vm-sg-vnet >

* Subnet ⓘ
default (10.1.0.0/24) >

OK

Home > New > Marketplace > Compute > Windows Server 2016 Datacenter > Create virtual machine > Create

Create virtual machine

- 1 Basics Done ✓
- 2 Size Done ✓
- 3 Settings Done ✓
- 4 Summary Windows Server 2016 Datacenter >

i Validation passed

Offer details

Standard DS1 v2 by Microsoft 0.1138 EUR/hr
[Pricing for other VM sizes](#)

[Terms of use](#) | [privacy policy](#)

i **Azure resource**
You may use your Azure monetary commitment funds or subscription credits for these purchases. Prices presented are retail prices and may not reflect discounts associated with your subscription.

Terms of use

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with each Marketplace offering above, (b) authorize Microsoft to charge or bill my current payment method for the fees associated with my use of the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s), and (c) agree

I give Microsoft permission to use and share my contact information so that Microsoft or the Provider can contact me regarding this product and related products.

Create
[Download template and parameters](#)

infra-vm-sg
Resource group

Search (Ctrl+/)

+ Add Edit columns Delete resource group Refresh Move Assign Tags

Subscription (change) Visual Studio Dev Essentials Subscription ID 5efcdf8d-8da8-4993-9c36-4cc553... Deployments 1 Succeeded

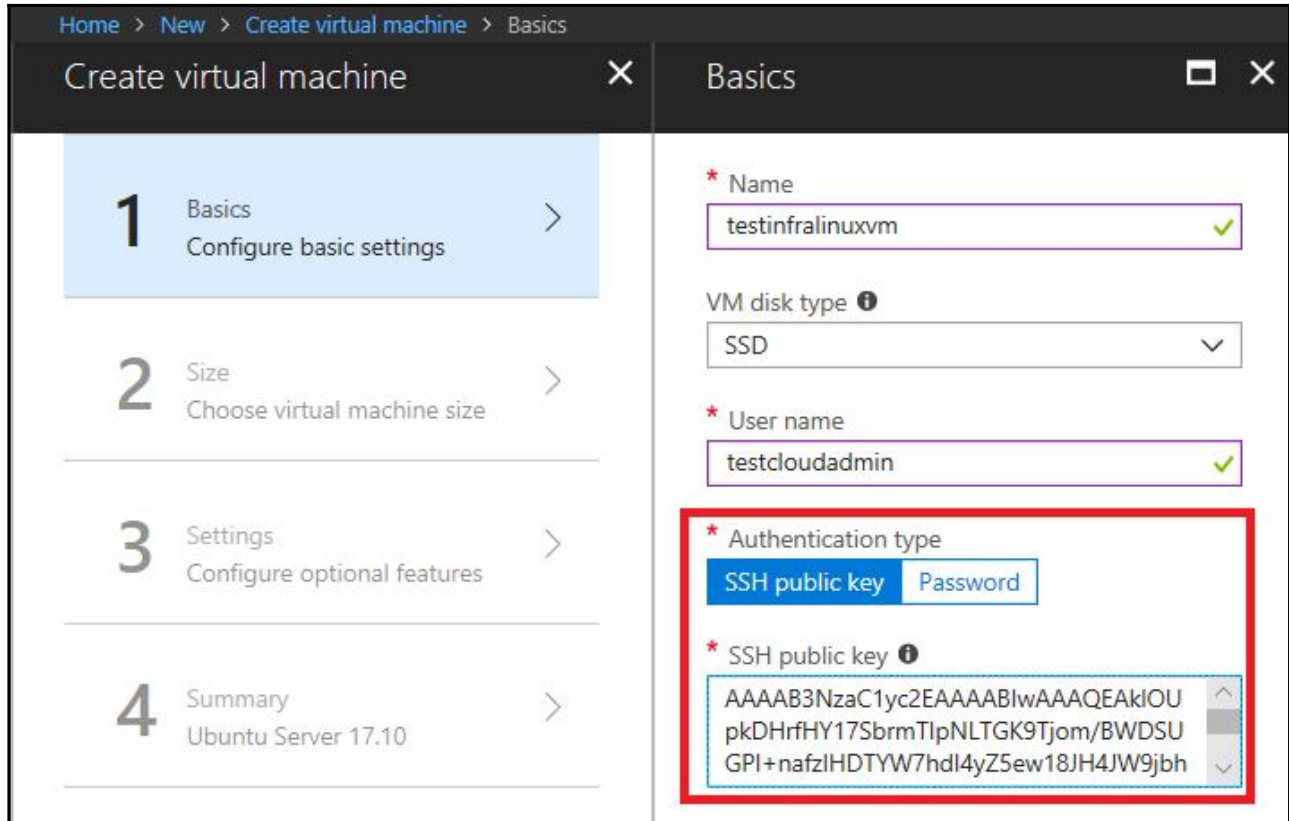
Tags (change) Click here to add tags

Filter by name... All types All locations No grouping

7 items Show hidden types

NAME	TYPE	LOCATION
infravmsgdiag469	Storage account	West Europe
infra-vm-sg-vnet	Virtual network	West Europe
testinfrawinvm	Virtual machine	West Europe
testinfrawinvm_OsDisk_1_a1f150110e85436d9b621dbae14feed2	Disk	West Europe
testinfrawinvm459	Network interface	West Europe
testinfrawinvm-ip	Public IP address	West Europe
testinfrawinvm-nsg	Network security group	West Europe

Navigation menu: Overview, Activity log, Access control (IAM), Tags, SETTINGS: Quickstart, Resource costs, Deployments, Policies, Properties, Locks, Automation script



```
PS C:\WINDOWS\system32> Login-AzureRmAccount

Account      : 
SubscriptionName : [REDACTED] - MPN
SubscriptionId : f38e1d90-3a11-460c-a4d2-186e1660d993
TenantId     : 6494460e-8600-4edc-850f-528e8faad290
Environment  : AzureCloud
```

```
PS C:\WINDOWS\system32> Get-AzureRmSubscription
```

```
Name      : Visual Studio Dev Essentials  
Id        : 5efcdf8d-8da8-4993-9c36-4cc5534b9563  
TenantId  : 6494460e-8600-4edc-850f-528e8faad290  
State     : Disabled
```

```
Name      : ████████████████████████████████████████████  
Id        : f38e1d90-3a11-460c-a4d2-186e1660d993  
TenantId  : 6494460e-8600-4edc-850f-528e8faad290  
State     : Enabled
```

```
Name      : Microsoft Azure ████████████████████████████████████████████  
Id        : 659714ac-e6c2-4fc2-84b8-e2cf5d1a6eba  
TenantId  : 8265bf70-d0b6-438b-b01d-fa623087ca84  
State     : Enabled
```

```
Name      : ████████████████████████████████████████████  
Id        : d9c16e03-bbea-45ed-b211-c99049536d51  
TenantId  : 933c9cbe-35d3-4416-abbd-ddd1bca5879c  
State     : Enabled
```

```
Name      : ████████████████████████████████████████████  
Id        : 0e95efb5-2252-441b-953e-9754cc7d5433  
TenantId  : 933c9cbe-35d3-4416-abbd-ddd1bca5879c  
State     : Enabled
```

```
Administrateur : Windows PowerShell ISE
Fichier Modifier Afficher Outils Débugger Composants supplémentaires Aide

Sans titre1.ps1* X
1 Login-AzureRmAccount
2
3 New-AzureRmVm
4 -ResourceGroupName "testinfra70533rg"
5 -Name "testinfra70533fr"
6 -Location "WEST Europe"
7 -VirtualNetworkName "testinfra70533Vnet"
8 -SubnetName "testinfra70533Subnet"
9 -SecurityGroupName "testinfra70533SecurityGroup"
10 -PublicIpAddressName "testinfra70533PublicIpAddress"
11 -OpenPorts 80,3389

Creating Azure resources.
1%: Creating 'testinfra70533SecurityGroup' network security group, 'testinfra70533Vnet' virtual network, 'testinfra70533PublicIpAddress' public IP address..

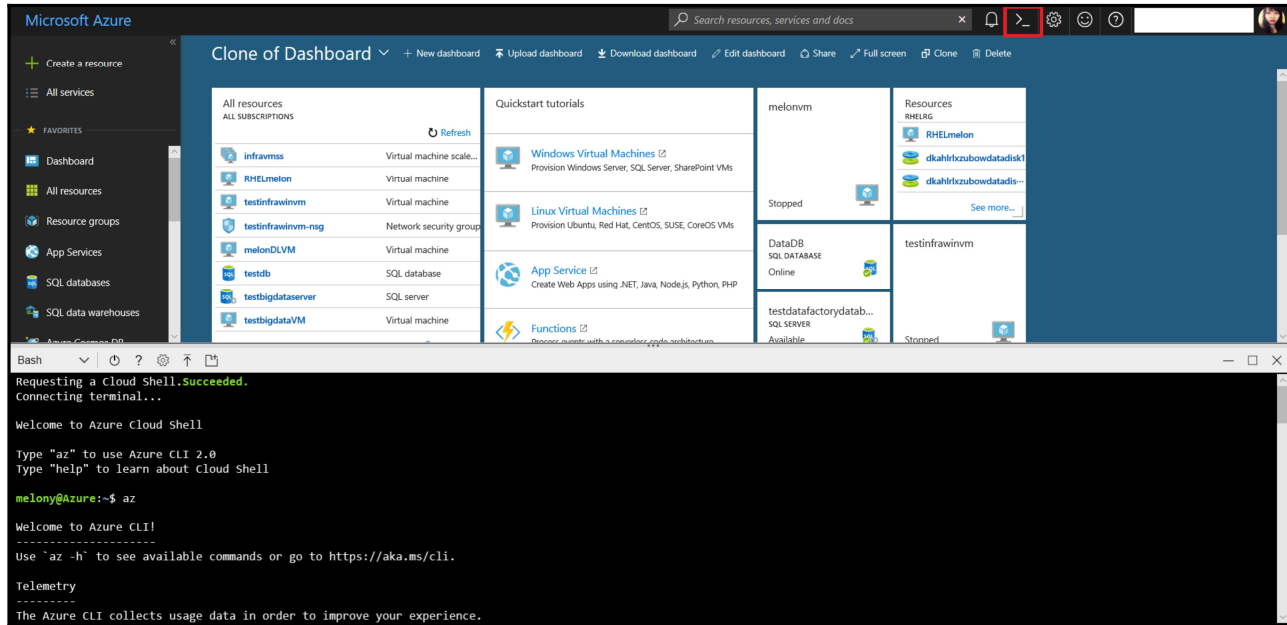
Name      : PR-Group-Solutions-Staging
Id        : 0e95efb5-2252-441b-953e-9754cc7d5433
TenantId  : 933c9cbe-35d3-4416-abbd-ddd1bca5879c
State     : Enabled

PS C:\WINDOWS\system32> Login-AzureRmAccount

New-AzureRmVm
-ResourceGroupName "testinfra70533rg"
-Name "testinfra70533fr"
-Location "WEST Europe"
-VirtualNetworkName "testinfra70533Vnet"
-SubnetName "testinfra70533Subnet"
-SecurityGroupName "testinfra/0533SecurityGroup"
-PublicIpAddressName "testinfra/0533PublicIpAddress"
-OpenPorts 80,3389

Account      :
SubscriptionName :
SubscriptionId : f38e1d90-3a11-460c-a4d2-18be1600d993
TenantId     : 6494460e-8600-4edc-850f-528e8faad290
Environment  : AzureCloud

applet de commande New-AzureRmVm à la position 1 du pipeline de la commande
Fournissez des valeurs pour les paramètres suivants :
```



```

melony@Azure:~$ az group create --name testinfravmazurecli --location 'West Europe'
{
  "id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/testinfravmazurecli",
  "location": "westeurope",
  "managedBy": null,
  "name": "testinfravmazurecli",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null
}

```

```

melony@Azure:~$ az vm create --resource-group testinfravmazurecli --name infravmazurecli --image 'centos' --generate-ssh-keys
{
  "fqdns": "",
  "id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/testinfravmazurecli/providers/Microsoft.Compute/virtualMachines/infravmazurecli",
  "location": "westeurope",
  "macAddress": "00-0D-3A-24-9B-81",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "51.144.166.90",
  "resourceGroup": "testinfravmazurecli",
  "zones": ""
}

```

The screenshot displays the Azure portal interface for the 'testinfraazurecli' resource group. The left sidebar shows navigation options like 'All services', 'Dashboard', and 'All resources'. The main area is divided into a 'Resource groups' list on the left, a central 'Overview' pane, and a right-hand pane showing deployment details and a resource table.

NAME	TYPE	LOCATION
infrazurecli	Virtual machine	West Europe
infrazurecli_OsDisk_1_8e4fb9241e344a962cc577c1e6b00	Disk	West Europe
infrazurecliNSG	Network security group	West Europe
infrazurecliPublicIP	Public IP address	West Europe
infrazurecliVMNIC	Network interface	West Europe
infrazurecliVNET	Virtual network	West Europe

```

melony@Azure:~$ az vm create --resource-group testinfraazurecli --name infrazurecli --image 'Centos' --generate-ssh-keys
{
  "fqdns": "",
  "id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/testinfraazurecli/providers/Microsoft.Compute/virtualMachines/infrazurecli",
  "location": "westeurope",
  "macAddress": "00-0D-3A-24-9B-81",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "51.144.166.90",

```

The screenshot shows the 'Template deployment' page in the Azure portal. The left sidebar is visible, and the main area is split into a 'New' section on the left and a 'Template deployment' details pane on the right.

Popular Templates:

- Windows Server 2016 VM (Quickstart tutorial)
- Ubuntu Server 17.10 VM (Learn more)
- Web App (Quickstart tutorial)
- SQL Database (Quickstart tutorial)
- Cosmos DB (Quickstart tutorial)
- DevOps Project (Quickstart tutorial)
- Storage Account (Quickstart tutorial)
- Serverless Function App (Quickstart tutorial)

Template Deployment Details:

- PUBLISHER:** Microsoft
- LOGICAPPSUPPORTED:** none
- USEFUL LINKS:** Documentation

Home > Virtual machines > melonDLVM

melonDLVM
Virtual machine

Search (Ctrl+/) << **Connect** Start Restart Stop Capture Move Delete Refresh

Starting

Resource group (change) melonMLRG	Computer name melonDLVM
Status Starting	Operating system Windows
Location West Europe	Size Standard NC6 (6 vcpus, 56 GB memory)
Subscription (change) Visual Studio Enterprise – MPN	Public IP address 51.136.35.32
Subscription ID f38e1d90-3a11-460c-a4d2-186e1660d993	Virtual network/subnet melonDLVM/Subnet
	DNS name dsvmrb4lzyeh15pty.westeurope.cloudapp.azure.com

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

RHELmelon
Virtual machine

Search (Ctrl+/) << Connect Start Restart Stop Capture Move Delete Refresh

Resource group (change) rheLRG	Computer name RHELmelon
Status Running	Operating system Linux
Location West Europe	Size Standard A2 (2 vcpus, 3.5 GB memory)
Subscription (change) Visual Studio Enterprise – MPN	Public IP address 51.144.101.101
Subscription ID f38e1d90-3a11-460c-a4d2-186e1660d993	Virtual network/subnet dkahlrlxzubowwnet/Subnet
	DNS name Configure

```

MelonyQins-MacBook-Pro:~ melony$ ssh testcloudadmin@51.144.101.101
The authenticity of host '51.144.101.101 (51.144.101.101)' can't be established.
ECDSA key fingerprint is SHA256:t+L03cEKtu5mJ0sq6SVrVTUEo+PjXBRWTzsBdoAUfhI.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '51.144.101.101' (ECDSA) to the list of known hosts.
Password:
Last login: Thu Mar  8 20:36:23 2018
[testcloudadmin@RHELmelon ~]$

```


Home > Resource groups > rhelRG > RHELMelon - Serial console (Preview)

RHELMelon - Serial console (Preview)
Virtual machine

Search (Ctrl+/) Feedback

- Alert rules
- Diagnostics settings
- Advisor recommendations
- Diagram

SUPPORT + TROUBLESHOOTING

- Resource health
- Boot diagnostics
- Reset password
- Redeploy
- Serial console (Preview)**
- Red Hat Customer Portal
- New support request

```

2018/04/15 09:22:50.311086 INFO Purging disk cache, current incarnation is 1
2018/04/15 09:22:50.366695 INFO Running Agent 2.2.22 was not found in the agent manifest - adding to list
2018/04/15 09:22:50.377796 INFO Wire server endpoint:168.63.129.16
2018/04/15 09:22:50.478051 INFO [Microsoft.OSTCExtensions.LinuxDiagnostic-2.3.9029] Target handler state: enabled
2018/04/15 09:22:50.485235 INFO [Microsoft.OSTCExtensions.LinuxDiagnostic-2.3.9029] [Enable] current handler state is: enabled
2018/04/15 09:22:50.486515 INFO [Microsoft.OSTCExtensions.LinuxDiagnostic-2.3.9029] Update settings file: 1.settings
2018/04/15 09:22:50.493242 INFO [Microsoft.OSTCExtensions.LinuxDiagnostic-2.3.9029] Enable extension [diagnostic.py -enable]
2018/04/15 09:22:56.517864 INFO Event: name=Microsoft.OSTCExtensions.LinuxDiagnostic, op=Enable, message=Launch command succeeded: diagnostic.py -enable, duration=6023
2018/04/15 09:22:56.652452 INFO Event: name=WALinuxAgent, op=ProcessGoalState, message=Incarnation 1, duration=6274
2018/04/15 09:37:49.783620 INFO Agent WALinuxAgent-2.2.22 launched with command 'python -u bin/WALinuxAgent-2.2.22-py2.7.egg -run-exhandlers' is successfully running
2018/04/15 09:37:49.786848 INFO Event: name=WALinuxAgent, op=Enable, message=Agent WALinuxAgent-2.2.22 launched with command 'python -u bin/WALinuxAgent-2.2.22-py2.7.egg -run-exhandlers' is successfully running

Red Hat Enterprise Linux
Kernel 3.10.0-327.59.1.el7.x86_64 on an x86_64

RHELMelon login: testcloudadmin
Password:
Last login: Sun Apr 15 09:31:57 from 92.184.105.59
[testcloudadmin@RHELMelon ~]$

```

Network Interface: testinfracwinnv459 Effective security rules Topology

Virtual network/subnet: infra-vm-sg-vnet/default Public IP: testinfracwinnv-ip Private IP: 10.1.0.4

INBOUND PORT RULES

Network security group testinfracwinnv-nsg (attached to network interface: testinfracwinnv459)
Impacts 0 subnets, 1 network interfaces

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
1000	default-allow-rdp	3389	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

OUTBOUND PORT RULES

Network security group testinfracwinnv-nsg (attached to network interface: testinfracwinnv459)
Impacts 0 subnets, 1 network interfaces

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Network Interface: infrvmazurecliVMNic Effective security rules Topology

Virtual network/subnet: infrvmazurecliVNET/infrvmazurecliSubnet Public IP: 51.144.166.90 Private IP: 10.0.0.4

INBOUND PORT RULES

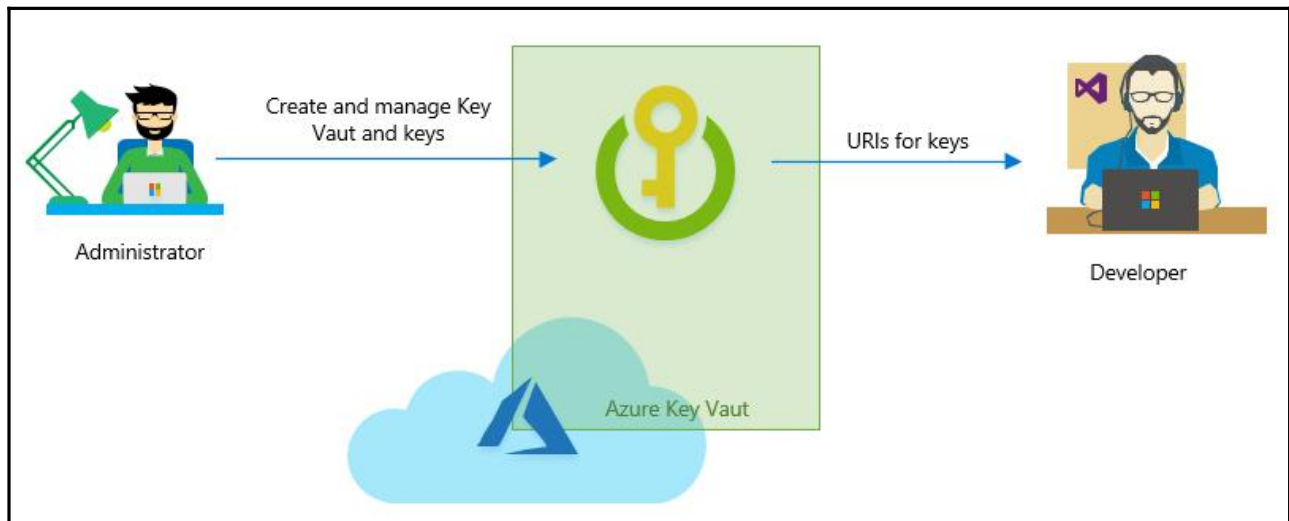
Network security group **infrvmazurecliNSG** (attached to network interface: **infrvmazurecliVMNic**)
 Impacts 0 subnets, 1 network interfaces Add inbound port rule

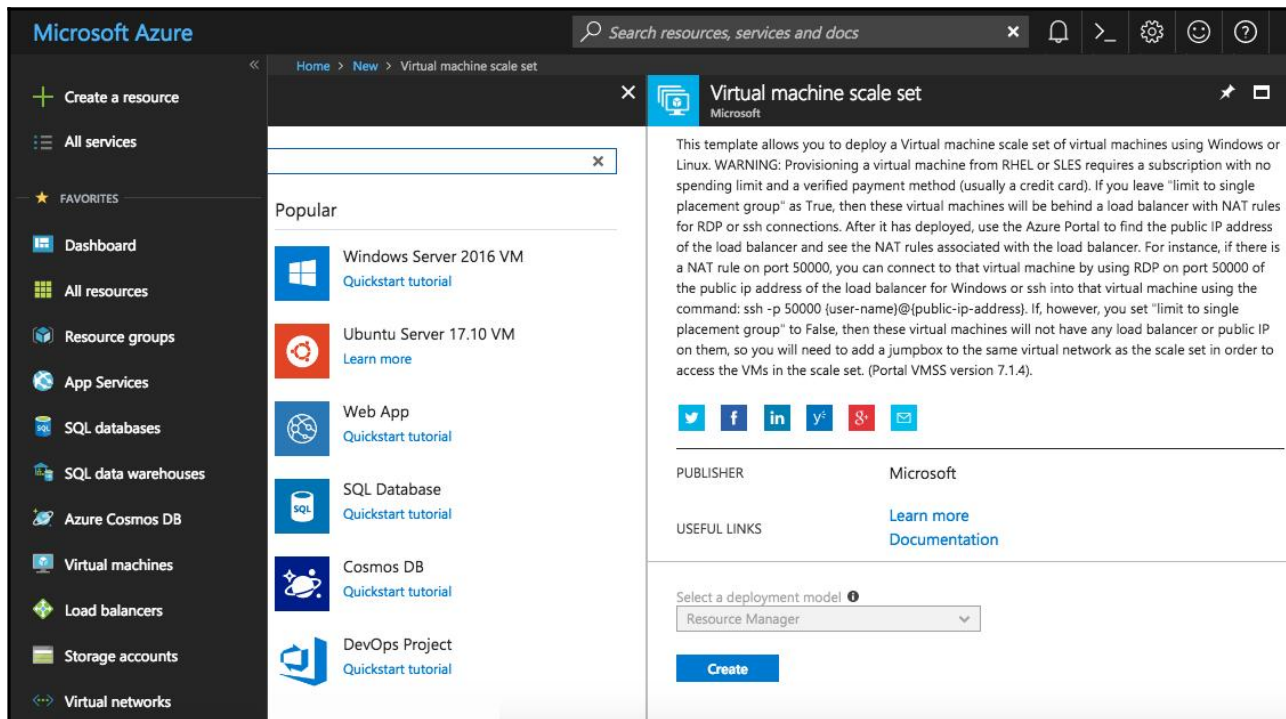
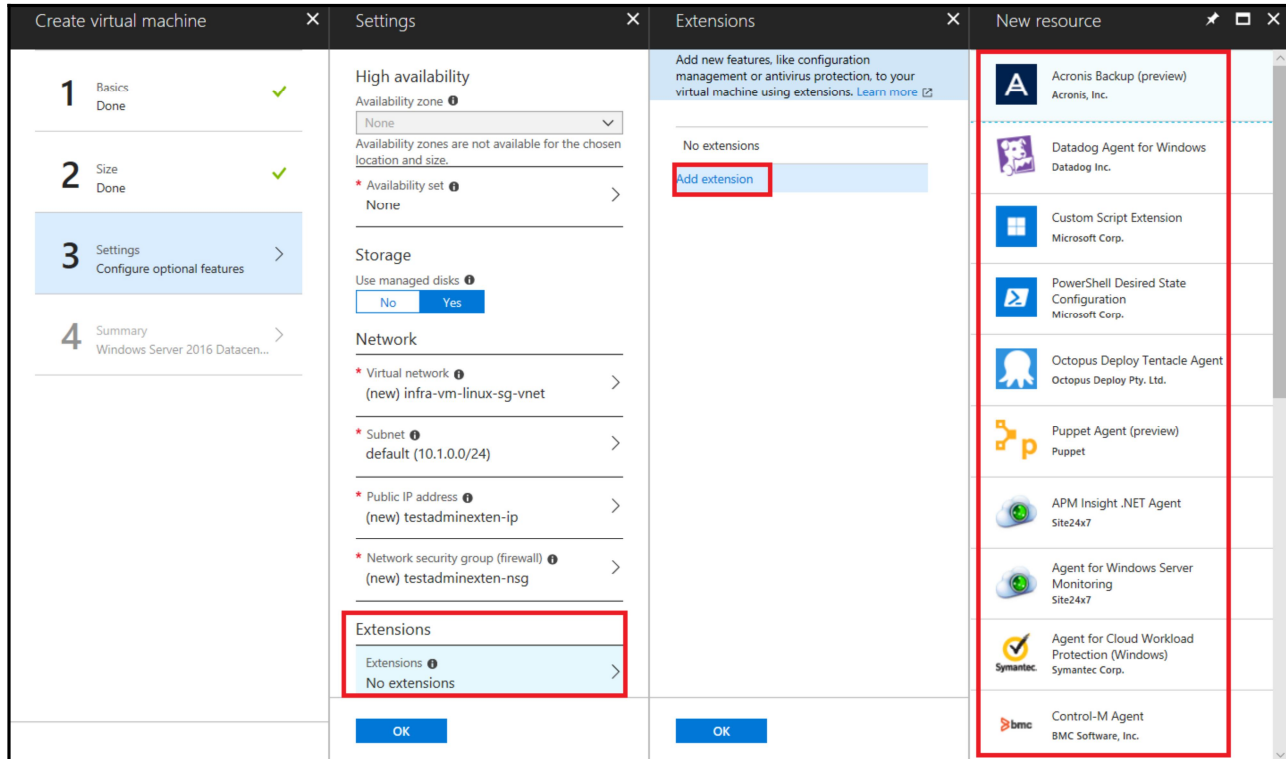
PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
1000	default-allow-ssh	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

OUTBOUND PORT RULES

Network security group **infrvmazurecliNSG** (attached to network interface: **infrvmazurecliVMNic**)
 Impacts 0 subnets, 1 network interfaces Add outbound port rule

PRIORITY	NAME	PORT	PROTOCOL	SOURCE	DESTINATION	ACTION
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny





Create virtual machine scale set

BASICS

* Virtual machine scale set name	infravmss	✓
* Operating system disk image ⓘ	Windows Server 2016 Datacenter	▼
Browse all images		
* Subscription	Visual Studio Enterprise – MPN	▼
* Resource group	<input checked="" type="radio"/> Create new <input type="radio"/> Use existing	
	testinfra70533	✓
* Location	West Europe	▼
Availability zone ⓘ	None	▼
* User name ⓘ	testcloudadmin	✓
* Password	✓

INSTANCES

* Instance count ⓘ	2	
* Instance size (View full pricing details) ⓘ	D1_v2 (1 vCPU, 3.5 GB)	▼
Deploy as low priority ⓘ	<input type="button" value="No"/> <input checked="" type="button" value="Yes"/>	
Use managed disks ⓘ	<input type="button" value="No"/> <input checked="" type="button" value="Yes"/>	
- Hide advanced settings		
Enable scaling beyond 100 instances ⓘ	<input type="button" value="No"/> <input checked="" type="button" value="Yes"/>	

INSTANCES

* Instance count ⓘ

* Instance size (View full pricing details) ⓘ

Deploy as low priority ⓘ

Use managed disks ⓘ

- Hide advanced settings

Enable scaling beyond 100 instances ⓘ

Choose Load balancing options Application Gateway Load balancer

* Public IP address name ⓘ ✓

* Domain name label ⓘ ✓

.westeurope.cloudapp.azure.com

Home > Resource groups > infra-vmss-sg

infra-vmss-sg
Resource group

Search (Ctrl+/) << + Add Edit columns Delete resource group Refresh Move Assign Tags

Subscription (change) Visual Studio Dev Essentials Subscription ID 5efcdf8d-8da8-4993-9c36-4cc553... Deployments 1 Succeeded

Filter by name... All types All locations No grouping

5 items Show hidden types ⓘ

<input type="checkbox"/>	NAME ↑↓	TYPE ↑↓	LOCATION ↑↓
<input type="checkbox"/>	inframss	Virtual machine scale set	West Europe
<input type="checkbox"/>	inframss	Public IP address	West Europe
<input type="checkbox"/>	inframsslb	Load balancer	West Europe
<input type="checkbox"/>	inframssnsg	Network security group	West Europe
<input type="checkbox"/>	inframssVnet	Virtual network	West Europe

SETTINGS

- Quickstart
- Resource costs
- Deployments
- Policies

Home > infra-vmss-sg > infravmss - Scaling

infravmss - Scaling

Virtual machine scale set

Search (Ctrl+/) Save Discard Disable autoscale Refresh

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS

- Instances
- Scaling
- Storage
- Operating system
- Size

Scale rule

infravmss

Criteria

- * Time aggregation: Average
- * Metric name: Percentage CPU (1 minute time grain)
- * Time grain statistic: Average
- * Operator: Greater than
- * Threshold: 70
- * Duration (in minutes): 10

Add

Default Auto created scale condition

Delete warning: The very last or default recurrence rule cannot be deleted.

Scale mode: Scale based on a metric Scale to a specific instance collection

Scale out and scale in your instances based on metric. For example, CPU percentage is above 70%.

Rules: It is recommended to have at least one scale in rule

+ Add a rule

Instance limits: Minimum: 1, Maximum: 1, Default: 1

Schedule: This scale condition is executed when none of the other scale conditions are active.

+ Add a scale condition

Create virtual machine

- 1 Basics Done ✓
- 2 Size Done ✓
- 3 Settings Configure optional features >
- 4 Summary Windows Server 2016 Datacenter... >

Settings

High availability

Availability zone: None

Availability zones are not available for the chosen location and size.

* Availability set: None

Storage

Use managed disks: Yes

Network

- * Virtual network: (new) infra-vm-linux-sg-vnet
- * Subnet: default (10.1.0.0/24)
- * Public IP address: (new) testadminexten-ip
- * Network security group (firewall): (new) testadminexten-nsg

Extensions

Extensions: No extensions

OK

Change availability set

You can create a new availability set or select an existing availability set in the same location and resource group as the VM.

+ Create new

None

Create new

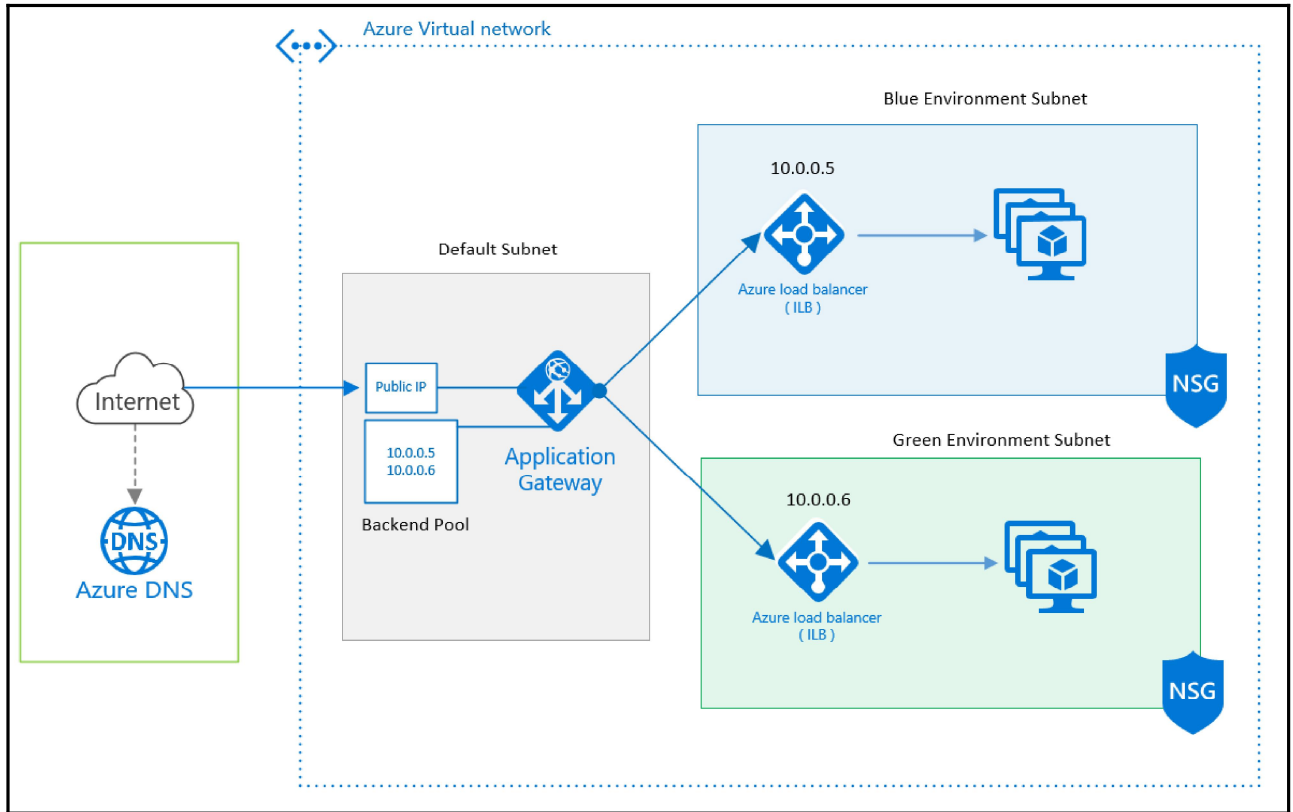
* Name: infra70533

Fault domains: 2

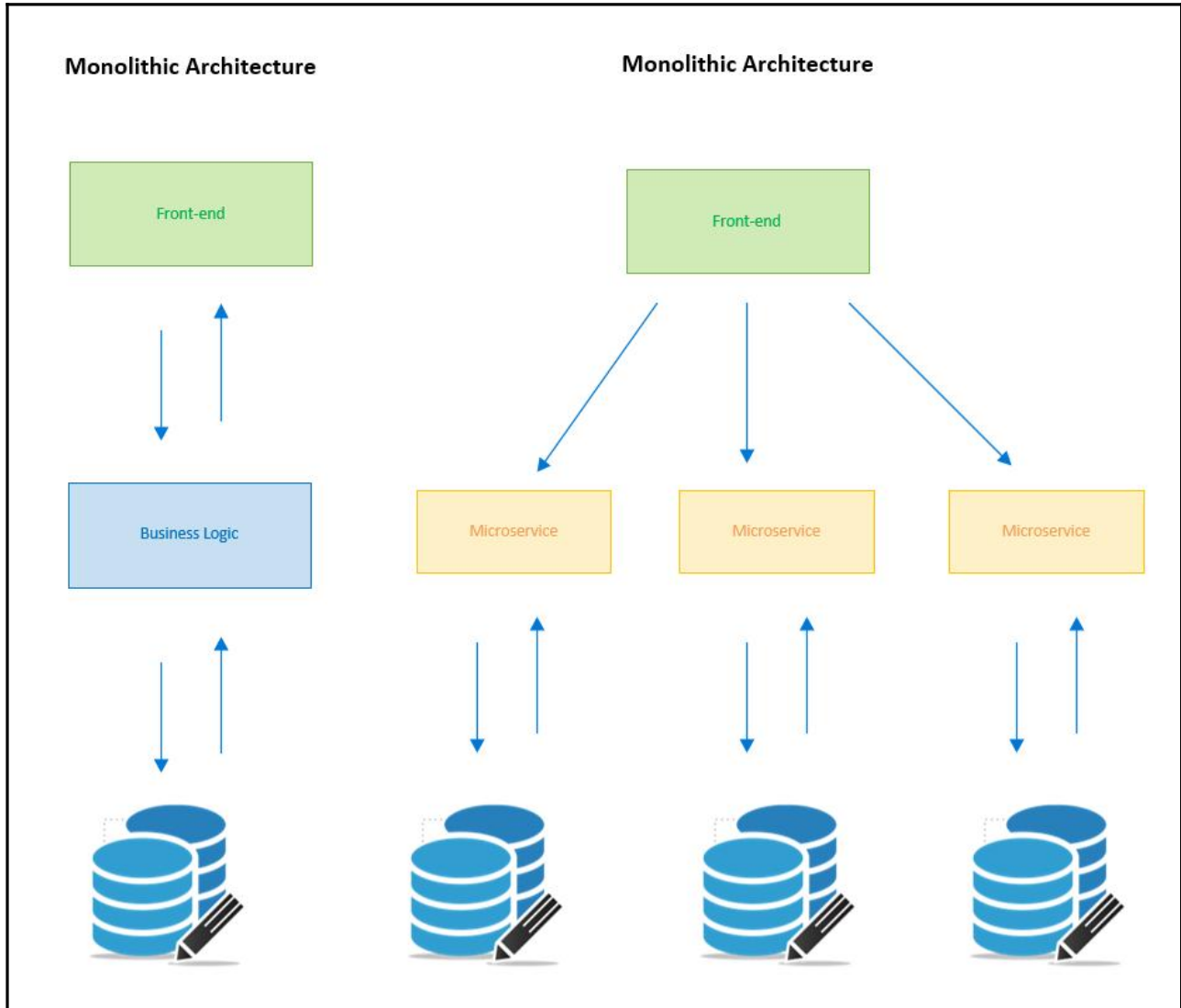
Update domains: 5

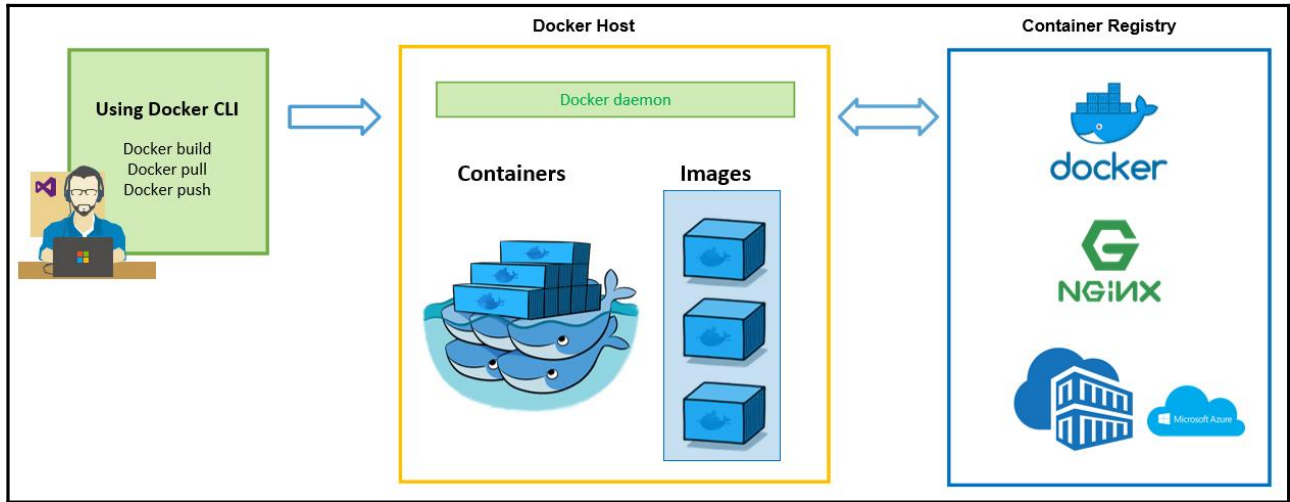
Use managed disks: Yes (Aligned)

OK



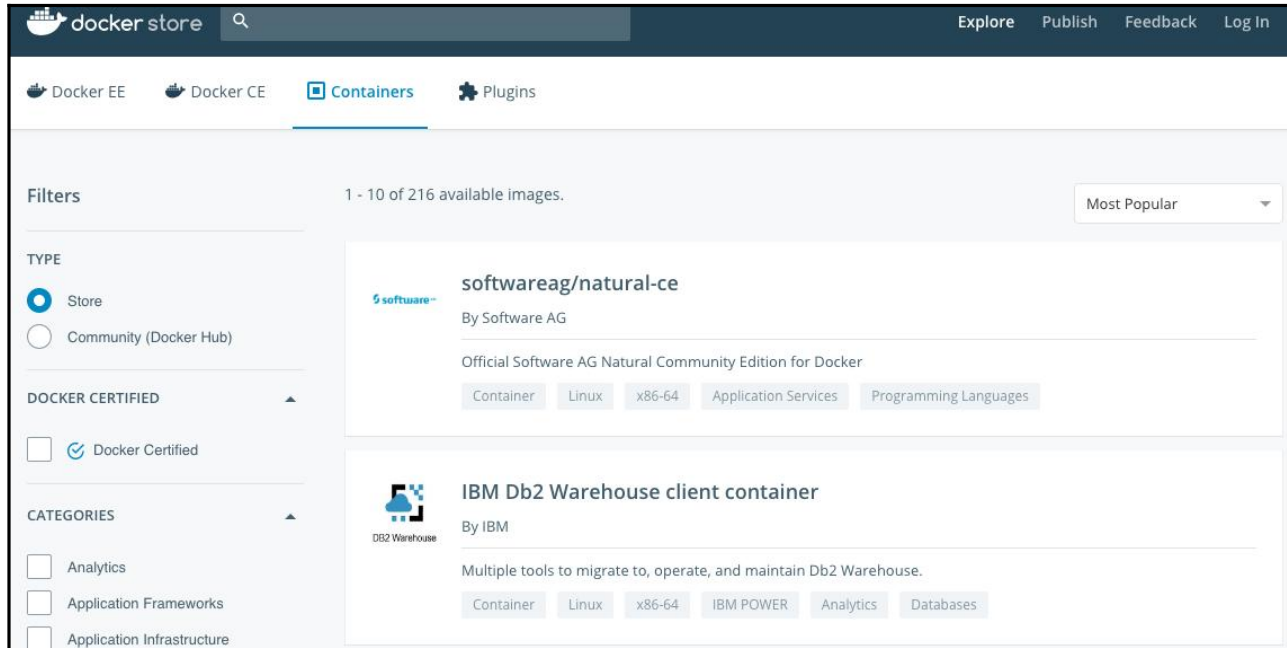
Chapter 04: Implementing and Managing Containers in Azure





Explore Official Repositories

Repository Name	Stars	Pulls	Action
alpine official	3.6K STARS	10M+ PULLS	DETAILS
nginx official	8.5K STARS	10M+ PULLS	DETAILS
httpd official	1.7K STARS	10M+ PULLS	DETAILS
busybox official	1.2K STARS	10M+ PULLS	DETAILS



```
MelonyQins-MacBook-Pro:~ melony$ docker -v
Docker version 17.12.0-ce, build c97c6d6
MelonyQins-MacBook-Pro:~ melony$ docker --version
Docker version 17.12.0-ce, build c97c6d6
MelonyQins-MacBook-Pro:~ melony$ docker

Usage:  docker COMMAND

A self-sufficient runtime for containers

Options:
  --config string      Location of client config files (default "/Users/melony/.docker")
  -D, --debug          Enable debug mode
  -H, --host list      Daemon socket(s) to connect to
  -l, --log-level string Set the logging level ("debug"|"info"|"warn"|"error"|"fatal") (default "info")
  --tls               Use TLS; implied by --tlsverify
  --tlscacert string  Trust certs signed only by this CA (default "/Users/melony/.docker/ca.pem")
```

```
MelonyQins-MacBook-Pro:docker-testinfra-70533 melony$ sudo docker build -t testinfraapp:latest .
Password:
Sending build context to Docker daemon  5.637MB
Step 1/13 : FROM python:3.4
----> 1300d6cf6b7f
Step 2/13 : RUN mkdir /code
----> Using cache
----> 170386279e03
Step 3/13 : WORKDIR /code
----> Using cache
----> 37aded611081
Step 4/13 : ADD requirements.txt /code/
----> Using cache
```

Microsoft Azure Search resources

Home > New > Marketplace > Everything > Containers

Create container registry

- * Registry name: testinfraacr ✓
.azurecr.io
- * Subscription: Visual Studio Dev Essentials
- * Resource group:
 Create new Use existing
testinfrarg ✓
- * Location: West Europe
- * Admin user ⓘ:
- * SKU ⓘ: Basic

Pin to dashboard

[Automation options](#)

Home > testinfraacr

testinfraacr
Container registry

Search (Ctrl+/)

Move Delete Update

Essentials ^

Resource group
testinfrafrag

Location
West Europe

Subscription name
Visual Studio Dev Essentials

Subscription ID
5efcdf8d-8da8-4993-9c36-4cc5534b9563

Login server
testinfraacr.azurecr.io

Creation date
5/10/2018, 10:12 PM GMT+8

SKU
Basic

Provisioning state
Succeeded

Registry metrics

Registry quota usages

USED
0.0 GiB

REMAINING
10.0 GiB

10 GiB
SIZE QUOTA

Container security integrations

Overview
Activity log
Access control (IAM)
Tags
Quick start

SETTINGS

Access keys
Locks
Automation script

SERVICES

Repositories
Webhooks

Home > Microsoft.ContainerRegistry - Overview > testinfraacr - Access keys

testinfraacr - Access keys
Container registry

Search (Ctrl+/)

Registry name
testinfraacr

Login server
testinfraacr.azurecr.io

Admin user ⁱ
Enable Disable

Username
testinfraacr

NAME	PASSWORD
password	/CrRT5p7cgh9pfW7YAWMdcAIFsUIGOMi
password2	RADeelUo=sW3jwlpYkCXREkOv213qP9P

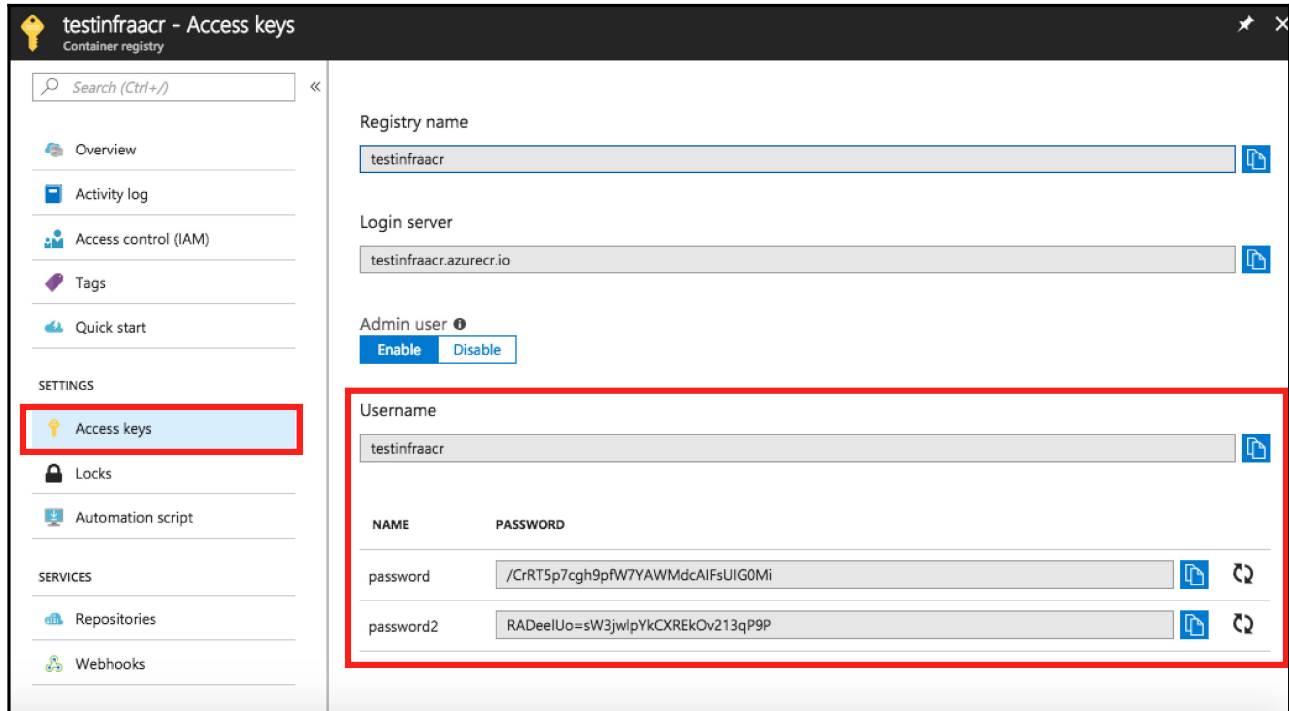
Overview
Activity log
Access control (IAM)
Tags
Quick start

SETTINGS

Access keys
Locks
Automation script

SERVICES

Repositories
Webhooks



```

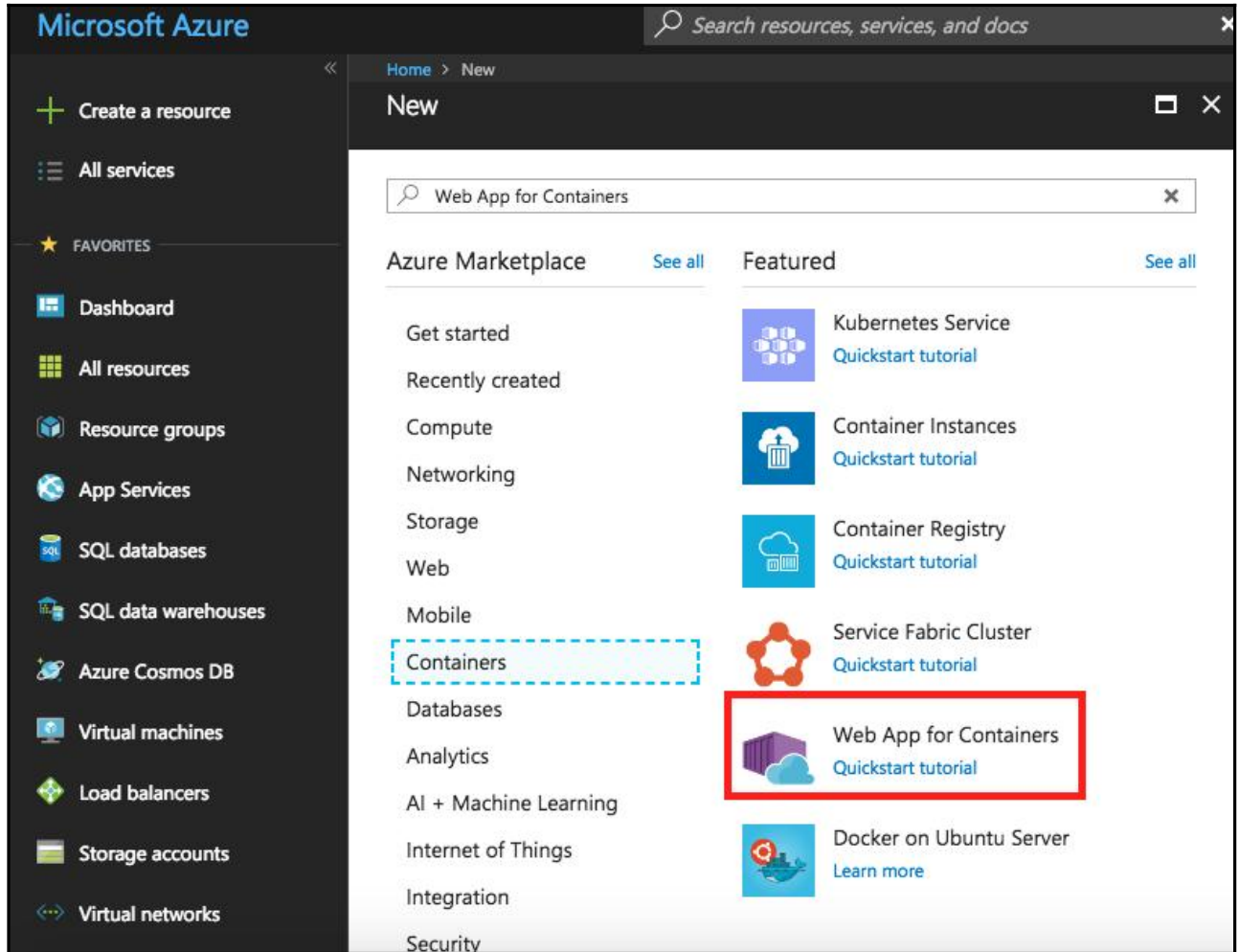
melonyqins-macbook-pro:Github melony$ docker login testinfraacr.azurecr.io -u testinfraacr -p /CrRT5p7cgh9pfW7YAW
dcAIFsUIG0Mi
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Warning: failed to get default registry endpoint from daemon (Cannot connect to the Docker daemon at unix:///var/
un/docker.sock. Is the docker daemon running?). Using system default: https://index.docker.io/v1/
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
melonyqins-macbook-pro:Github melony$ docker login testinfraacr.azurecr.io -u testinfraacr -p /CrRT5p7cgh9pfW7YAW
dcAIFsUIG0Mi
WARNING! Using --password via the CLI is insecure. Use --password-stdin.
Login Succeeded

```

```

melonyqins-macbook-pro:Github melony$ docker push testinfraacr.azurecr.io/starterapp:latest
The push refers to repository [testinfraacr.azurecr.io/starterapp]
f999ae22f308: Pushed
latest: digest: sha256:8072a54ebb3bc136150e2f2860f00a7bf45f13eeb917cca2430fcd0054c8e51b size: 524

```



```

melony@Azure:~$ az webapp config container set --name testinfrawebapp --resource-group testinfra --docker-custom-image-name testinfraacr.azurecr.iostarterapp --docker-registry-server-url https://testinfraacr.azurecr.io --docker-registry-server-user testinfraacr --docker-registry-server-password /CrRT5p7cgh9pfW7YAWMdcAIFsUIGOMi
[
  {
    "name": "WEBSITES_ENABLE_APP_SERVICE_STORAGE",
    "slotSetting": false,
    "value": "false"
  },
  {
    "name": "DOCKER_REGISTRY_SERVER_URL",
    "slotSetting": false,
    "value": "https://testinfraacr.azurecr.io"
  },
  {
    "name": "DOCKER_REGISTRY_SERVER_USERNAME",
    "slotSetting": false,
    "value": "testinfraacr"
  },
  {
    "name": "DOCKER_REGISTRY_SERVER_PASSWORD",
    "slotSetting": false,
    "value": null
  },
  {
    "name": "DOCKER_CUSTOM_IMAGE_NAME",
    "value": "DOCKER|testinfraacr.azurecr.iostarterapp"
  }
]

```

Home > Resource groups > testinfra

testinfra
Resource group

Search (Ctrl+/) << + Add Edit columns Delete resource group Refresh Move Assign Tags

Subscription (change) Visual Studio Enterprise – MPN Subscription ID f38e1d90-3a11-460c-a4d2-186e1... Deployments 1 Succeeded

Tags (change) Click here to add tags

Filter by name... All types All locations

4 items Show hidden types

NAME	TYPE	LOCATION
aci-infrastart-app	Container instances	West Europe
testinfraacr	Container registry	West Europe
testinfraServicePlan	App Service plan	West Europe
testinfrawebapp	App Service	West Europe

Home > Resource groups > testinfra > testinfrawebapp

testinfrawebapp

App Service

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

DEPLOYMENT

- Quickstart
- Deployment credentials
- Deployment slots
- Deployment options
- Deployment Center (Preview)

SETTINGS

Resource group (change)
testinfra

Status
Running

Location
West Europe

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

URL
<https://testinfrawebapp.azurewebsites.net>

App Service plan/pricing tier
testinfraServicePlan (Standard: 1 Small)

FTP/deployment username
testinfrawebapp\testmeanuser

FTP hostname
ftp://waws-prod-am2-085.ftp.azurewebsites.windows.net

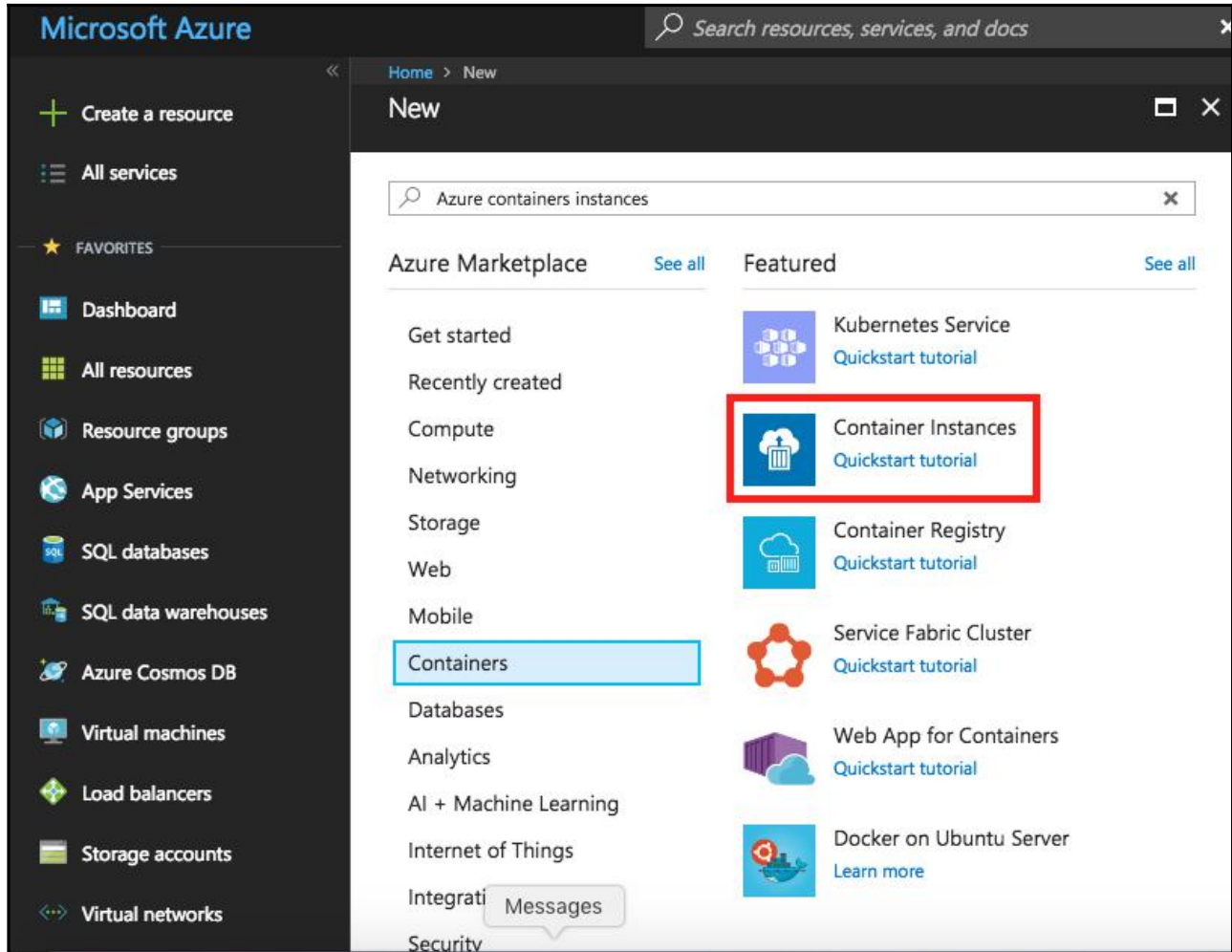
FTPS hostname
ftps://waws-prod-am2-085.ftp.azurewebsites.windows.net

Diagnose and solve problems
Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

App Service Advisor
App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

Http 5xx
3

Data In
6kB



```
melony@Azure:~$ az container create --resource-group testinfra --name aci-infrastart-app --image testinfraacr.azurecr.io/starterapp:latest --cpu 1 --memory 1 --registry-login-server testinfraacr.azurecr.io --registry-username testinfraacr --registry-password /CrRT5p7cgh9pFW7YAWMdcAIFaUIG0Mi --dns-name-label aci-start-app --ports 80
```

aci-infrastart-app
Container instances

Search (Ctrl+*/*)

Overview
Activity log
Access control (IAM)
Tags

SETTINGS
Containers
Properties
Locks
Automation script

Delete Refresh

Resource group (change)
testinfrag

Status
Creating

Location
West Europe

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

Tags (change)
[Click here to add tags](#)

OS type
Linux

IP address
40.114.208.171

FQDN
aci-start-app.westeurope.azurecontainer.io

Container count
1

CPU (aci-infrastart-app)

100
90
80

Microsoft Azure Search resources, services, and docs

Home > New > Container Service

Container Service

Microsoft

Azure Container Service (ACS) provides a way to simplify the creation, configuration, and management of a cluster of virtual machines that are preconfigured to run containerized applications. Using an optimized configuration of popular open-source scheduling and orchestration tools, ACS enables you to use your existing skills or draw upon a large and growing body of community expertise to deploy and manage container-based applications on Microsoft Azure.

ACS leverages Docker images to ensure that your application containers are fully portable. It also supports your choice of Kubernetes, DC/OS (powered by Apache Mesos), or Docker Swarm for orchestration to ensure that these applications can be scaled to thousands, even tens of thousands of containers.

The Azure Container service enables you to take advantage of the enterprise grade features of Azure 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 default options are implemented by open source software.

ACS is currently available for Standard A, D, DS, G, GS, F, and FS series Linux virtual machines. You are only charged for the compute instances you choose, as well as the other underlying infrastructure resources consumed such as storage and networking. There are no incremental charges for the ACS itself.

Select a deployment model ⓘ

Resource Manager

Create

Navigation Sidebar:

- Create a resource
- All services
- FAVORITES
- Dashboard
- All resources
- Resource groups
- App Services
- SQL databases
- SQL data warehouses
- Azure Cosmos DB
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks

Home > New > Container Service > Create Container Service > Basics

Create Container Service

Basics

- 1** Basics
Configure basic settings >
- 2** Master configuration
Provide master information >
- 3** Agent configuration
Provide agent information >
- 4** Summary
Container Service >

* Name
testinfracos ✓

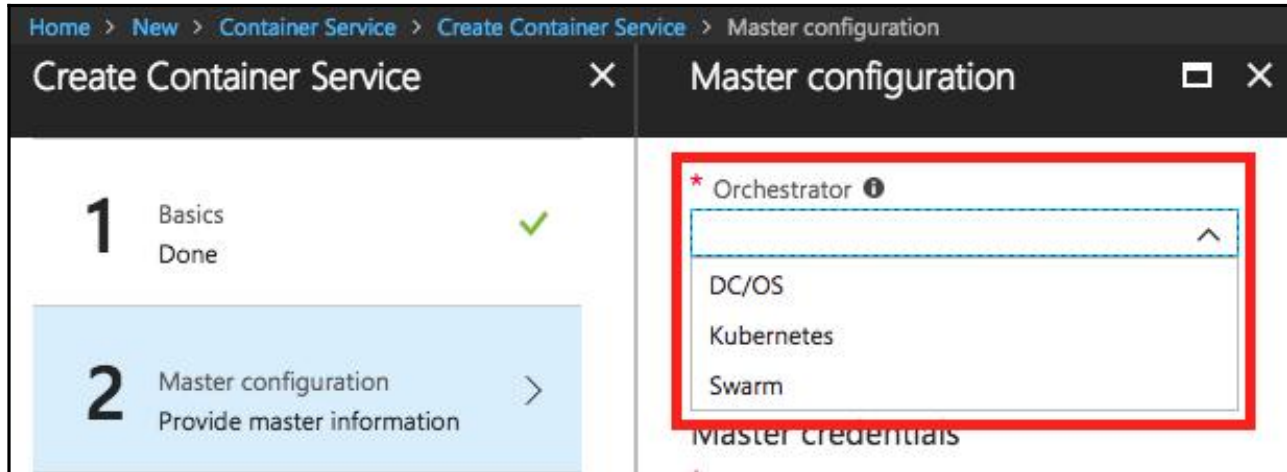
Subscription
[]

* Resource group ⓘ
 Create new Use existing

test-aks-infra-beta

* Location
West Europe

OK



```
melony@Azure:~$ ssh-keygen -t rsa -b 2048
Generating public/private rsa key pair.
Enter file in which to save the key (/home/melony/.ssh/id_rsa): testkeygen8s
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in testkeygen8s.
Your public key has been saved in testkeygen8s.pub.
The key fingerprint is:
SHA256:B6Iu3YjKpLWT0stbBqrGnjeKSy4RQxC0N2Cow0GKZi8 melony@cc-cdaace85-2228111606-9zfhv
The key's randomart image is:
+---[RSA 2048]-----+
|B*
|=oo
|*+.o . .
|B.o . . . .
|E . . S .
|o o+ o .
|o++++ .
|%=*=
|%&=..
+---[SHA256]-----+
melony@Azure:~$
```

```
melony@Azure:~$ ls
clouddrive testkeygen8s testkeygen8s.pub
```



```
melony@Azure:~$ cat testkeygenk8s.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCAwUdY6MUN3fC+W9RqNpPBL98xgb3BH2exATto0JOWrb1z/6+IAy29JgagPh5h115j0Bv07q9jgXkK31ujVcVv9dEjqUjJgaoeTup+t8X6wPaqrY+Mq3oBLGXOF+3otq1fDAW
6FEMQFGA7Lg92Umbk9SjivDyXkKwoa5wehR1S1JZsqmFXNXPqjB49Li2yB9FrD0qvnPgWpWIr2HA5j0+3C4jsCZjMytNoNgVrY6q3bBYO+C9o6nYi0QyqH2ok11DT29hMNCngF80/gNrVBMoeG1oJj/1xAfrD02mcgs0z++idps
1Fisc1c++fN+xUMpGjKzXS9WiZ7I8vm3o/Iz melony@cc-cdaace85-2228111606-9zfhv
melony@Azure:~$
```

```
melony@Azure:~$ ls
clouddrive testkeygenk8s testkeygenk8s.pub
melony@Azure:~$ cat testkeygenk8s
\-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEAsFHW0jFdD3wvvlvUajaTws/fMYJG9wR9nsQE7aNCTlq29c/+
viAMtvSYGoD4eYdZeYzgb9O6vY4MSpN9bo1XL7/XRI6lB44GqHk7qfrfF+sD2qq2
PjKt6ASxlzhft6LatX3QFuhRDEHxgOy4Pd1DG5PUo4rw8sVpFqGucHoUZUtSwbKp
hcTcT6owePS4tsgfRawzqr5z4FlqViK9hwOYzviQuI7AmcjMrTaDYFa20qt2wWdV
gvaBp2IjkMqh2aJNZQ08/YTAjYBfDv4Da1QTKFHhtaCY/9cQH6w9NpnILNM/vona
bNRYrHJXPvzfsVDKRoys10vVomeyPL5iaPyMwIDAQABAoIBAGAhTi5N+52ibJlZ
kbcS6H3UbticUbqNjTvJXXJ+p0D2/neInjfkW2pIcsFIfbAsliDKKpDvNYnxb0wd
m65xiw5yhphPOTSkP4cNCfWD3Kw6qtBGcLP6h4xPOs/aoX0KYjm/TXufz8hiD5yd
81ltIcRgVfeQYgvKi6AWKHgUZxhOD88yhtAU/yroc6eixueqdepg2QGnhJ8hAiQC
8XU1S5GEX09uwFKNETTz0Ivx5gzT1ksRrp/UucozATQ3+kGmBDQfsiqwq0tShP0v
YdyC8tRXbzS98e9yE6pONCdcQ7pb2SSr-fk1EJGWDRTV0v1bKjuPQFZCAvhuH2Jv/
HmkXgakCgYEA3RCQNCh0moLhqVLjfeYtk11IGf3n+dpIXud8zXhm8NZFez1IeoCC
mfXLMi0D7mB03vz6kHbb/ZgHWJ7A4GG03uqtco/80Xv8ifI2IiWQRKpnARCVu0ha
7aReAj3eXTrDqdyEFpC8WAsWPE5Nb+xBpTOYPoRa7Tlu4mB7zkinpXUCgYEAzC8P
XyvV+B009LlkDm08DhOER/gxGa0R6rQ3YG74llreuk6XzVYgwA+sVWES1+kLfU05
K/Ws/EawTp2hT11QYdwt84zXd/32x6NJhh/ogjchVCX5Ngv/vcXMH85vq1HOGqsZ
hMqEBON6P7fdnzWs5RRuMOgvIEXqIx1J74VLPACgYA1lCof0h7oxAgFjf1tKjip
mtY61ns+51TbC6gH9MKeZJB6iSuz5SnCPvx8sMRfJimtUgs4sFYpZiUDQxbkS0Dh
bmeTeKqB61cN6BK0vCP3QIWukGJ5/dNr/YZ7bJtUZUW/CZ9KCNJdVHKTMzc5hT1z
2MlxfYq8LEtFuprHKHzZcQKBgQDD790GbSB1YP9sJI05vGVG9L+Z+LfvddmdqrcB
WTw/vI/DpSvTJfVjmSa8/9x/SO13oqVcY/NOW99Qcb+bXbyHTCzkbKFQSmuIhE9H
4FLUsk3cGFyf2r/dsnQBia5qePoZaXSU12n87vYfMyf/Yhi58/MSB51BkRXwAGk0
6mqZ/QKBgQCGkp2sgSGNTWh12B0YIDeY4aLDdv+XyeyG/FscbT6t13EntDugUr1l
sR2g6NqQ8S58YtM9PcFSomZ8FXhgdjfUBsq6D7YSMReGp3DWkVGxwXrx3C5DC+xU
RMGT2fOKhblWh+QgmbY1lEwDfeqGkSgeStQHhNb+ZyQZUTts4tdTKw==
-----END RSA PRIVATE KEY-----
melony@Azure:~$
```

Search or jump to... Pull requests Issues Marketplace Explore

Azure / **acs-engine** Watch 169 Star 808 Fork 529

Code Issues 466 Pull requests 45 Projects 1 Wiki Insights

Azure Container Service Engine - a place for community to collaborate and build the best open Docker container infrastructure for Azure.

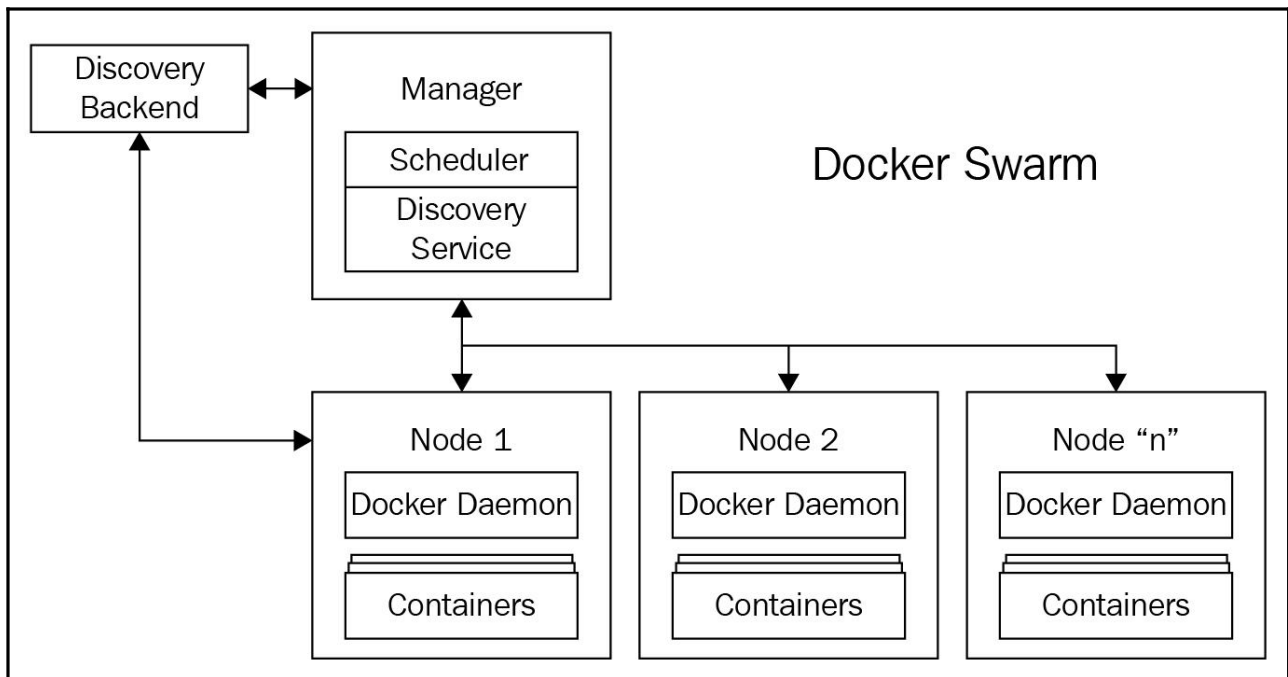
kubernetes dcos mesos docker swarm swarmmode orchestration containers azure

2,006 commits 44 branches 50 releases 160 contributors MIT

Branch: master New pull request Create new file Upload files Find file Clone or download

pweil- and CecileRobertMichon Use vars for nsg, ip, and lb openshift resources (#3089) Latest commit b7364fe 2 days ago

.circleci	cleanup openshift e2e, retain if fail for k8s (#3041)	5 days ago
.github	Update PULL_REQUEST_TEMPLATE.md (#2515)	2 months ago
.prosci	Setup prow CI (#2923)	4 days ago
cmd	Delete role assignments when deleting a VM (#2934)	4 days ago
docs	Update docs (#3050)	2 days ago
examples	Autofill ACI Connector credentials and enable logs (#2903)	4 days ago



Home > New > Container Service > Create Container Service > Master configuration

Create Container Service

- 1 Basics Done ✓
- 2 Master configuration Provide master information >**
- 3 Agent configuration Provide agent information >
- 4 Summary Container Service >

Master configuration

* Orchestrator ⓘ
Swarm

* DNS name prefix ⓘ
testinfrasdockerwarm ✓

Master credentials

* User name ⓘ
testcloudadmin ✓

* SSH public key ⓘ
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQBA
QCwUdY6MUN3fC++W9RqNpPBL98xgk ✓

Settings

Master count ⓘ
1

VM diagnostics ⓘ
Disabled Enabled

OK

Home > New > Container Service > Create Container Service > Agent configuration

Create Container Service

- 1 Basics Done ✓
- 2 Master configuration Done ✓
- 3 Agent configuration Provide agent information >
- 4 Summary Container Service >

Agent configuration

- * Agent count ⓘ ✓
- * Agent virtual machine size ⓘ 5x Standard DS2 >

OK

Home > New > Container Service > Create Container Service > Summary

Create Container Service

- 1 Basics Done ✓
- 2 Master configuration Done ✓
- 3 Agent configuration Done ✓
- 4 Summary Container Service >

Summary

i Validation passed

Basics

Subscription	
Resource group	test-aks-infra-beta
Location	West Europe
Name	testinfraacsswarm

Master configuration

Orchestrator	Swarm
DNS name prefix	testinfradockerwarm
User name	testcloudadmin
SSH public key	ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAwUdY6MUN3f...
Master count	1
VM diagnostics	Disabled

Agent configuration

Agent count	5
Agent virtual machine size	Standard DS2

OK Download template and parameters

Home > Resource groups > test-aks-infra-beta

test-aks-infra-beta
Resource group

Search (Ctrl+/) << + Add Edit columns Delete resource group Refresh Move Assign Tags

Subscription (change) Subscription ID 60bad1d7-71fd-4e40-b6b9-1016a... Deployments 1 Failed, 2 Succeeded

Tags (change)

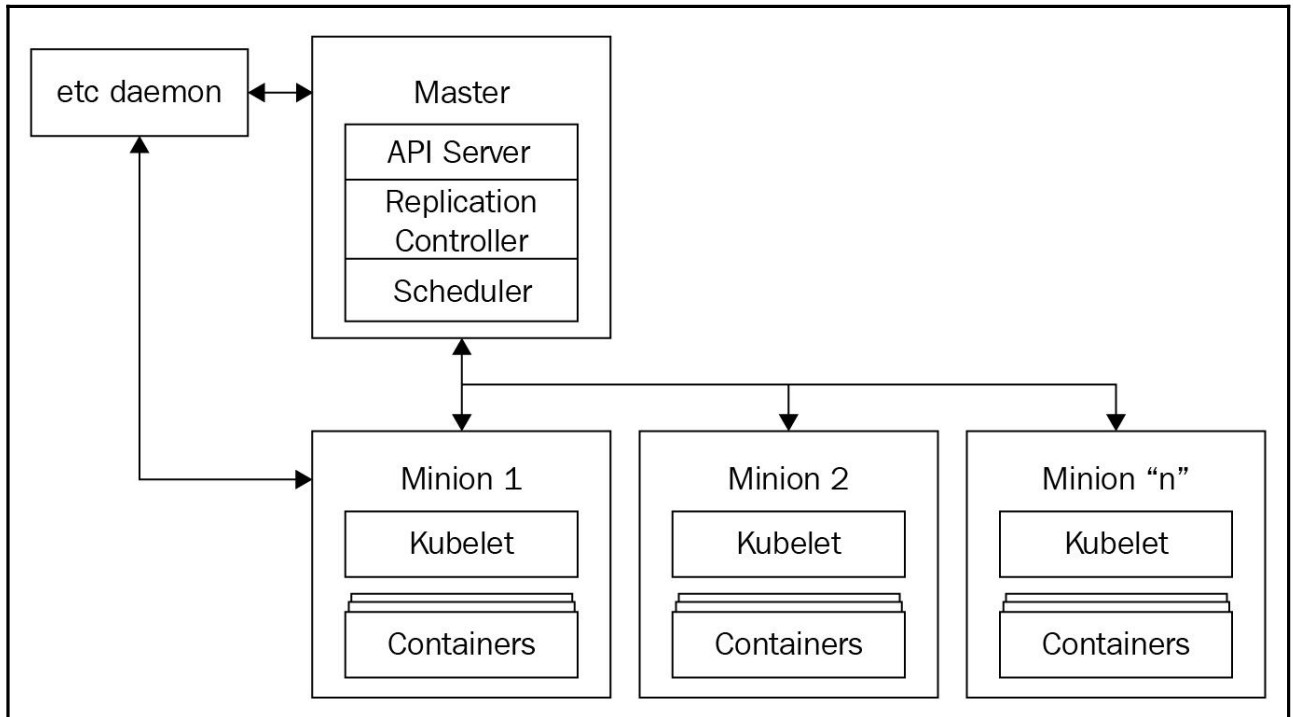
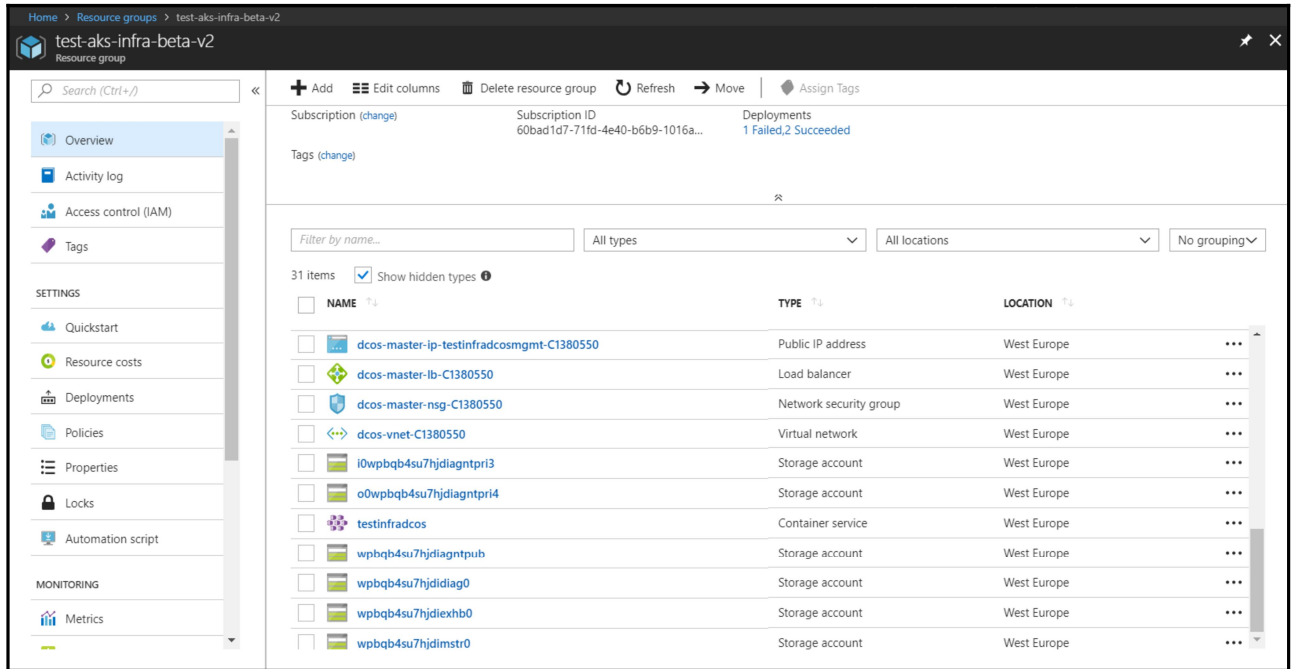
Filter by name... All types All locations No group

19 items Show hidden types

<input type="checkbox"/>	NAME ↑↓	TYPE ↑↓	LOCATION ↑↓
<input type="checkbox"/>	i0ng543tt634gkkswarm4	Storage account	West Europe
<input type="checkbox"/>	ng543tt634gkkswarm0	Storage account	West Europe
<input type="checkbox"/>	ng543tt634gkkswarmdiag0	Storage account	West Europe
<input type="checkbox"/>	o0ng543tt634gkkswarm5	Storage account	West Europe
<input type="checkbox"/>	swarm-agent-D604EB24-vmss	Virtual machine scale set	West Europe
<input type="checkbox"/>	swarm-agent-ip-testinfradockerwarmagents-D604EB24	Public IP address	West Europe
<input type="checkbox"/>	swarm-agent-lb-D604EB24	Load balancer	West Europe
<input type="checkbox"/>	swarm-master-availabilitySet-D604EB24	Availability set	West Europe
<input type="checkbox"/>	swarm-master-D604EB24-0	Virtual machine	West Europe
<input type="checkbox"/>	configuremaster (swarm-master-D604EB24-0/configurem...	Microsoft.Compute/virtualMac...	West Europe
<input type="checkbox"/>	linuxdiagnostic (swarm-master-D604EB24-0/linuxdiagnos...	Microsoft.Compute/virtualMac...	West Europe
<input type="checkbox"/>	swarm-master-D604EB24-nic-0	Network interface	West Europe
<input type="checkbox"/>	swarm-master-ip-testinfradockerwarmgmt-D604EB24	Public IP address	West Europe
<input type="checkbox"/>	swarm-master-lb-D604EB24	Load balancer	West Europe
<input type="checkbox"/>	swarm-vnet-D604EB24	Virtual network	West Europe
<input type="checkbox"/>	testinfraacsswarm	Container service	West Europe

MONITORING

- Metrics
- Alerts (classic)
- Diagnostics logs
- Application insights
- Log analytics (OMS)
- Log search

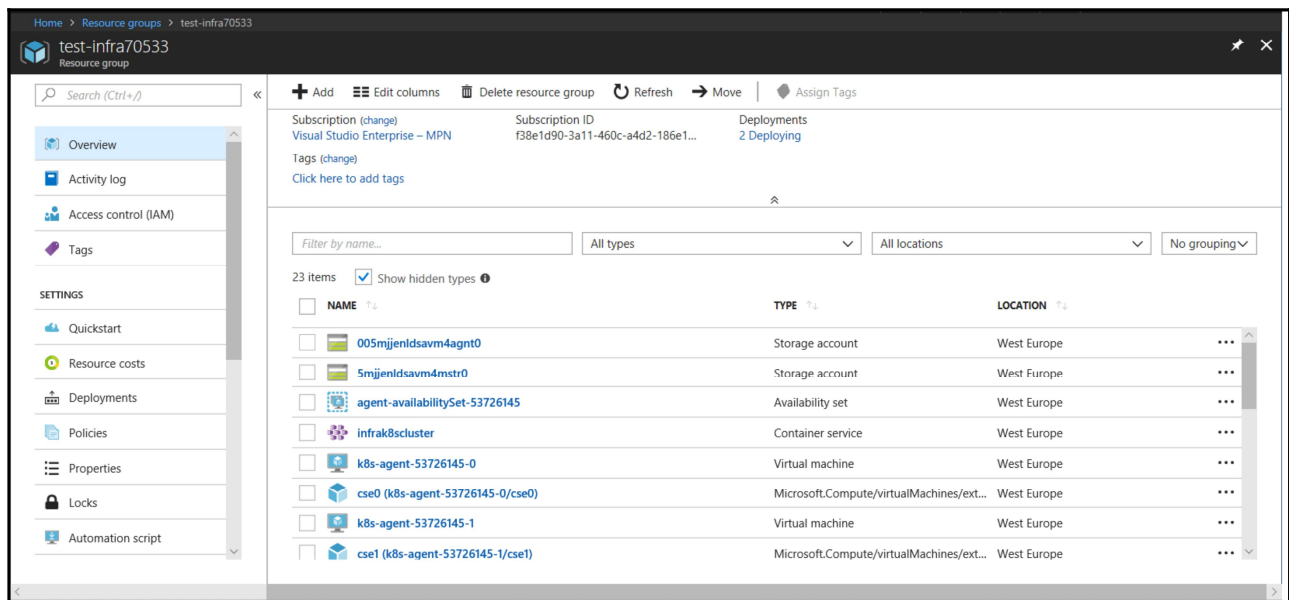


```

Bash
Type "az" to use Azure CLI 2.0
Type "help" to learn about Cloud Shell

me1ony@Azure:~$ az group create --name test-infra70533 --location westeurope
{
  "id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/test-infra70533",
  "location": "westeurope",
  "managedBy": null,
  "name": "test-infra70533",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null
}
me1ony@Azure:~$

```



```

me1ony@Azure:~$ az acs kubernetes get-credentials --resource-group=test-infra70533 --name=infrak8scluster
me1ony@Azure:~$ kubectl get nodes
NAME                STATUS    ROLES    AGE     VERSION
k8s-agent-53726145-0 Ready    agent    13m    v1.7.7
k8s-agent-53726145-1 Ready    agent    13m    v1.7.7
k8s-agent-53726145-2 Ready    agent    14m    v1.7.7
k8s-master-53726145-0 Ready    master   13m    v1.7.7
me1ony@Azure:~$

```

```
melony@Azure:~$ az aks scale --name testinfra70533aks --resource-group testinfraKubernetesRG --node-count 5
- Running ..
```

testinfra70533aks - Scale
Kubernetes service

Search (Ctrl+/) Save Discard Refresh

Overview
Activity log
Access control (IAM)
Tags

SETTINGS
Upgrade
Scale
Properties
Locks
Automation script

You can scale the number of nodes in your cluster to increase the total amount of cores and memory available for your container applications. Having at least 3 nodes is recommended for a more resilient cluster.
[Learn more about scaling your AKS cluster.](#)

Total cluster capacity

Cores 10 vCPUs
Memory 20 GB

5 x Standard F2s_v2 (2 vcpus, 4 GB memory)

```
melony@Azure:~$ az aks get-upgrades --name testinfra70533aks --resource-group testinfraKubernetesRG --output table
Name ResourceGroup MasterVersion NodePoolVersion Upgrades
-----
default testinfraKubernetesRG 1.9.6 1.9.6 None available
```

testinfra70533aks - Upgrade
Kubernetes service

Search (Ctrl+/) Save Discard

Update in progress...

You can upgrade your cluster to a newer version of Kubernetes. The upgrade will roll out safely in stages so your container applications can continue to run smoothly while the upgrade is taking place. Upgrading your cluster may take up to 10 minutes per node.
[Learn more about upgrading your AKS cluster.](#)
[View the Kubernetes changelog.](#)

Kubernetes Version

1.9.6 (current) This cluster is using the latest available version of Kubernetes.

SETTINGS
Upgrade
Scale

```
melony@Azure:~$ kubectl get nodes
NAME                                STATUS    ROLES    AGE     VERSION
k8s-agent-53726145-0               Ready    agent    13m     v1.7.7
k8s-agent-53726145-1               Ready    agent    13m     v1.7.7
k8s-agent-53726145-2               Ready    agent    14m     v1.7.7
k8s-master-53726145-0              Ready    master   13m     v1.7.7
melony@Azure:~$ az group delete --name test-infra70533 --yes --no-wait
melony@Azure:~$ az group delete --name test-infra70533
Are you sure you want to perform this operation? (y/n): y
█- Running ..
```

Microsoft Azure Search resources, services, and docs

Home > New > Kubernetes Service

Kubernetes Service

Microsoft

Azure Kubernetes Service is the quickest path from zero to Kubernetes on Azure. This new service features an Azure-hosted control plane, automated upgrades, self-healing, easy scaling, and a simple user experience for both developers and cluster operators. With AKS, customers get the benefits of open source Kubernetes without complexity or operational overhead.

To help you get started with AKS, the managed Kubernetes service is free. You only pay for the VMs in your cluster, and any infrastructure resources consumed like storage and networking. This means on Azure, you will pay nothing for the management of your Kubernetes cluster.

AKS is currently available for Linux virtual machines.

Creating an AKS cluster typically takes a few minutes. Once complete, you can access and manage your cluster through "az aks" and "kubectl".

[Save for later](#)

PUBLISHER: Microsoft

USEFUL LINKS: [Learn more](#), [Documentation](#)

Select a deployment model ⓘ
Resource Manager

[Create](#)

Create Kubernetes cluster

PROJECT DETAILS

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription ⓘ ✓

* Resource group ⓘ Create new Use existing

✓

CLUSTER DETAILS

* Kubernetes cluster name ⓘ ✓

* Region ⓘ ✓

* Kubernetes version ⓘ ✓

* DNS name prefix ⓘ ✓

AUTHENTICATION

* Service principal ⓘ

[Config my service principal](#)

SCALE

The number and size of nodes in your cluster. For production workloads, at least 3 nodes are recommended for resiliency. For development or test workloads, only one node is required. You will not be able to change the node size after cluster creation, but you will be able to change the number of nodes in your cluster after creation. [Learn more about scaling in Azure Kubernetes Service](#)

* Node size ⓘ ✓

[Change size](#)

* Node count ⓘ 3

[Review + create](#) [Next: Networking »](#) [Download a template for automation](#)

Create Kubernetes cluster

Basics Networking Monitoring Tags Review + create

You can enable HTTP application routing and choose between two networking options: "Basic" or "Advanced".

- **"Basic"** networking creates a new VNet for your cluster using default values.
- **"Advanced"** networking allows clusters to use a new or existing VNet with customizable addresses. Application pods are connected directly to the VNet, which allows for native integration with VNet features.

[Learn more about networking in Azure Kubernetes Service](#)

HTTP application routing ⓘ No Yes

Network configuration ⓘ Basic Advanced

Create Kubernetes cluster

Basics Networking Monitoring Tags Review + create

With Azure Kubernetes Service, you will get CPU and memory usage metrics for each node. In addition, you can enable container monitoring capabilities and get insights into the performance and health of your entire Kubernetes cluster. You will be billed based on the amount of data ingested and your data retention settings.

[Learn more about container performance and health monitoring](#)

[Learn more about pricing](#)


AZURE MONITOR

Enable container monitoring

Log Analytics workspace ⓘ ▼

[Create new](#)

Create Kubernetes cluster

 Validation passed

[Basics](#) [Networking](#) [Monitoring](#) [Tags](#) [Review + create](#)

BASICS

Subscription	Visual Studio Enterprise – MPN
Resource group	testinfraKubernetesRG
Kubernetes cluster name	testinfra70533aks
Region	West Europe
Kubernetes version	1.9.6
DNS name prefix	testinfra70533aksdns
Node count	3
Node size	Standard_F2s_v2

NETWORKING

HTTP application routing	No
Network configuration	Basic

MONITORING

Enable container monitoring	Yes
Log Analytics workspace	(new) testinfra70533OMSworkspace

[Create](#)

[« Previous: Tags](#)

[Download a template for automation](#)

Home > Resource groups > testinfraKubernetesRG > testinfra70533aks

testinfra70533aks
Kubernetes service - PREVIEW

Search (Ctrl+/) << → Move Delete Refresh

Resource group (change)
testinfraKubernetesRG

Status
Succeeded

Location
West Europe

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

Tags (change)
APP : ONECFR BUD : FR_B03630

Kubernetes version
1.9.6

API server address
testinfra70533aksdns-e477dae1.hcp.westeurope.azmk8s.io

Total cores
6

Total memory
12

Monitor container health
Get health and performance insights
Go to Azure Monitor container health

Search logs
Search and analyze logs using ad-hoc queries
Go to Azure Monitor logs

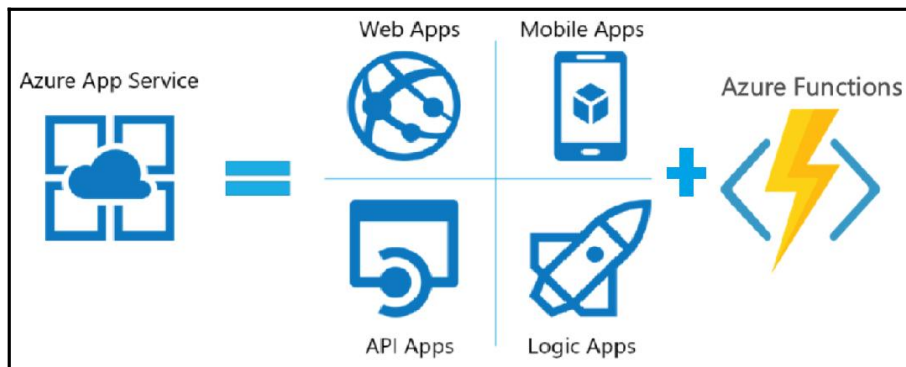
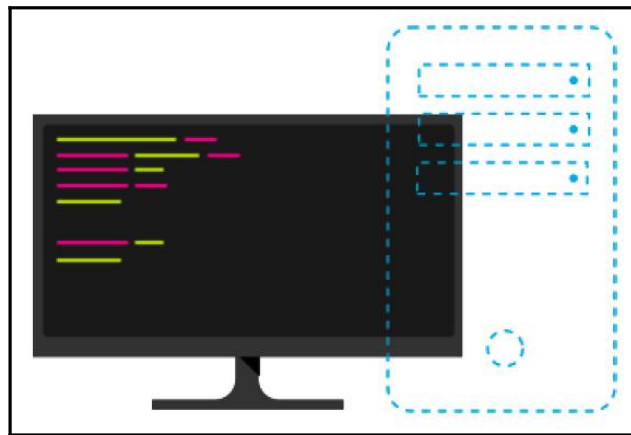
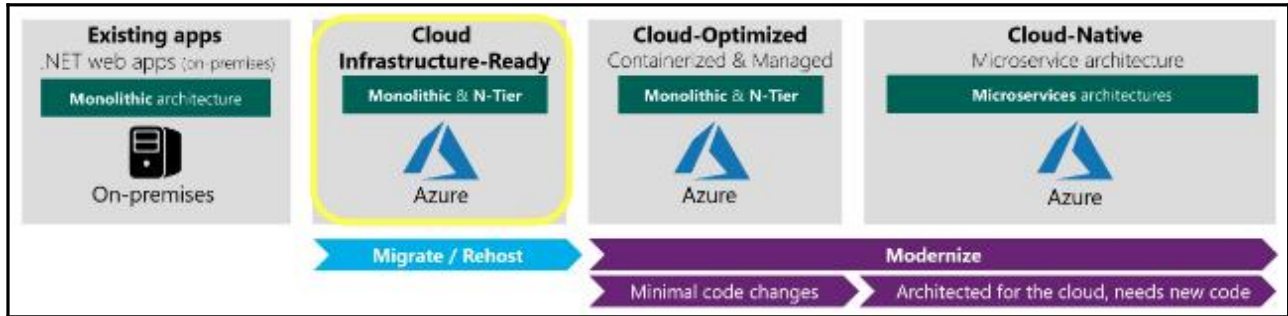
View Kubernetes dashboard
Learn how to connect to the Kubernetes dashboard
View connection steps

Monitoring

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

Node status (testinfra70533aks)

Chapter 05: Designing and Implementing Azure App Service Apps



Microsoft Azure








Search resources

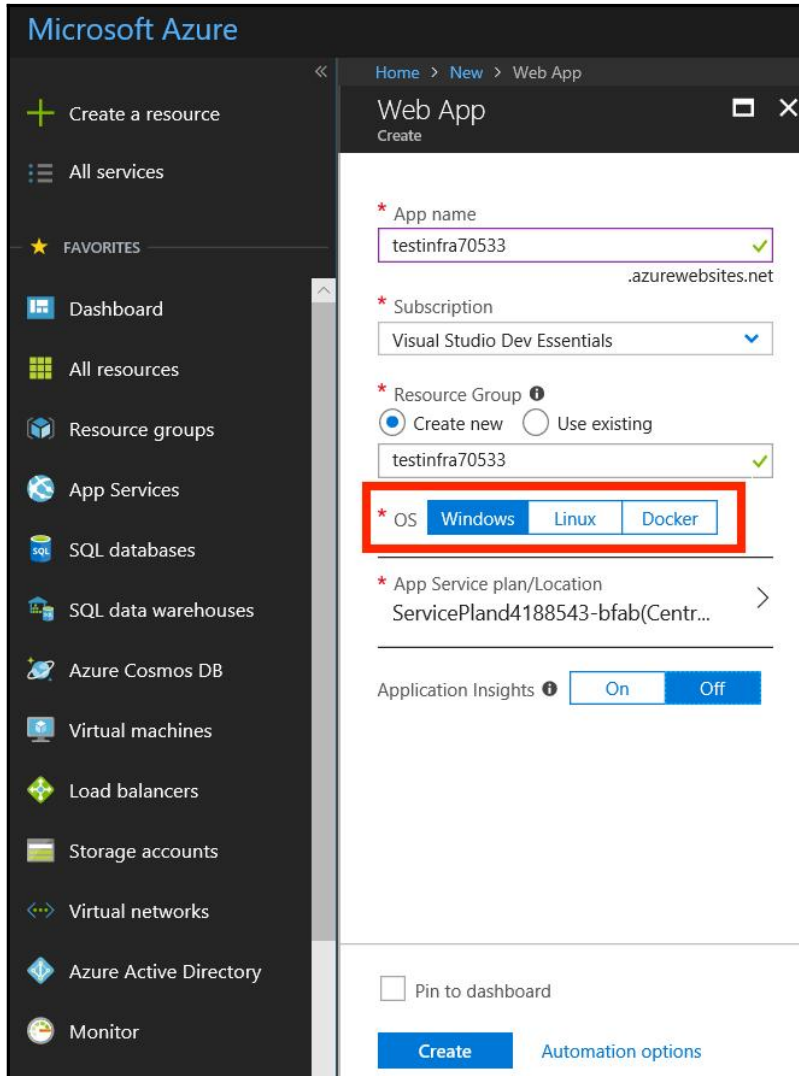
Home > New

New

Search the Marketplace

Azure Marketplace [See all](#) Popular

Get started		Windows Server 2016 VM Quickstart tutorial
Recently created		
Compute		Ubuntu Server 17.10 VM Learn more
Networking		
Storage		
Web		Web App Quickstart tutorial
Mobile		
Containers		SQL Database Quickstart tutorial
Databases		
Analytics		Serverless Function App Quickstart tutorial
AI + Machine Learning		
Internet of Things		Cosmos DB Quickstart tutorial
Integration		
Security		Kubernetes Service Quickstart tutorial
Identity		



Home > New > Web App > App Service plan > New App Service Plan

Web App

Create

* App name
testinfra70533
azurewebsites.net

* Subscription
Visual Studio Dev Essentials

* Resource Group
 Create new Use existing
testinfra70533

* OS
Windows Linux Docker

* App Service plan/Location
ServicePlan4188543-bfab(Centr... >

Application Insights On Off

Pin to dashboard

Create Automation options

App Service plan

Select a plan for the web app

An App Service plan is the container for your app. The App Service plan settings w... determine the location, features, cost and compute resources associated with your app.

+ Create new

ServicePlan4188543-bfab(S1) (New)
Central US
New Plan

New App Service Plan

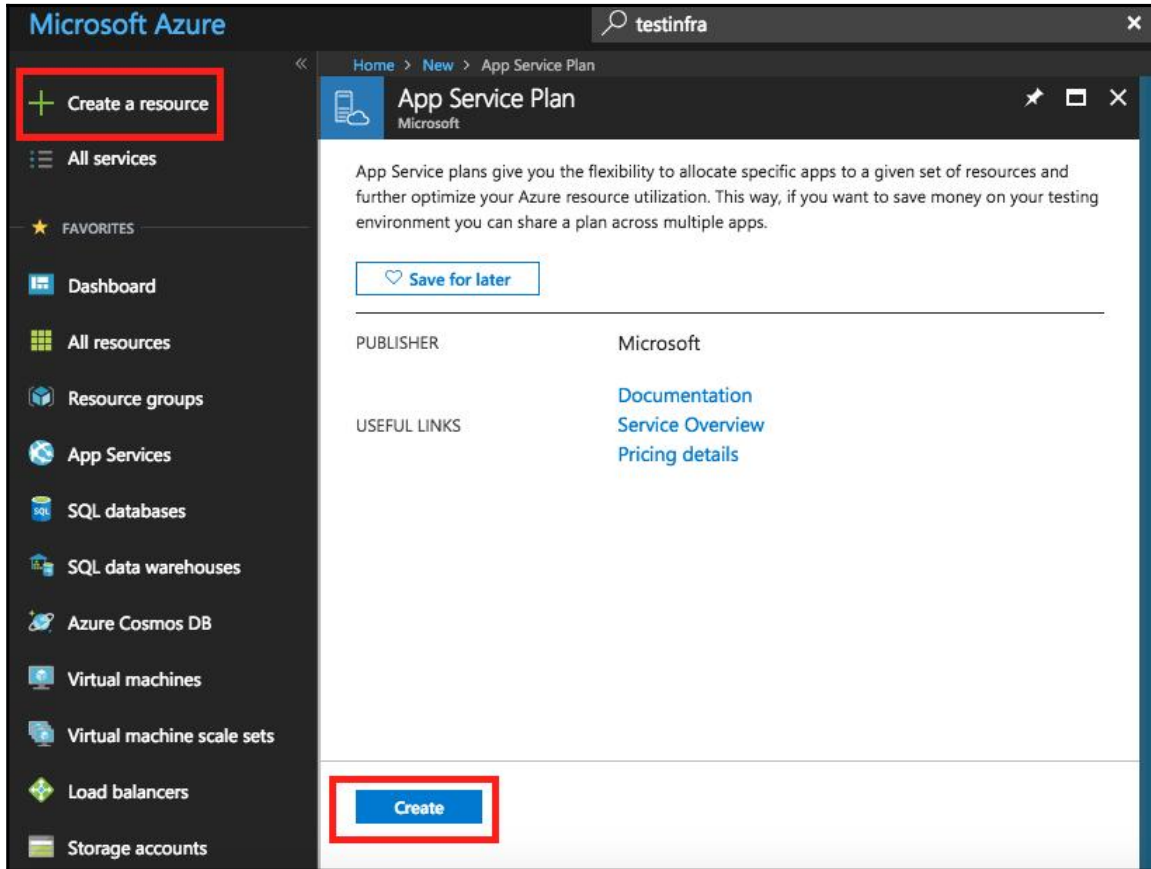
Create a plan for the web app

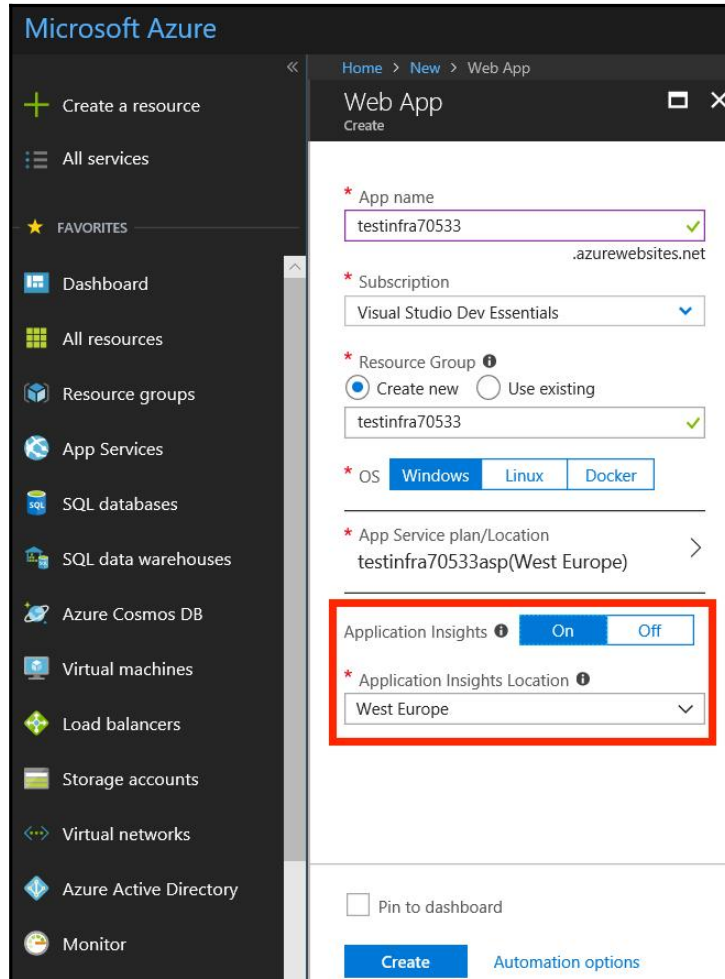
* App Service plan
testinfra70533asp

* Location
West Europe

* Pricing tier
S1 Standard >

OK





Home > Resource groups > testinfra70533rg

testinfra70533rg

Resource group

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags

SETTINGS

- Quickstart
- Resource costs
- Deployments
- Policies
- Properties
- Locks
- Automation script

+ Add Edit columns Delete resource group Refresh Move Assign Tags

Subscription (change) Visual Studio Enterprise – MPN Subscription ID f38e1d90-3a11-460c-a4d2-186e1... Deployments 1 Succeeded

Tags (change) [Click here to add tags](#)

Filter by name... All types All locations No

3 items Show hidden types

NAME	TYPE	LOCATION
<input type="checkbox"/> testinfra70533	Application Insights	West Europe
<input type="checkbox"/> testinfra70533	App Service plan	West Europe
<input type="checkbox"/> testinfra70533	App Service	West Europe

Home > Resource groups > testinfra70533rg > testinfra70533

testinfra70533

App Service

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

DEPLOYMENT

- Quickstart
- Deployment credentials
- Deployment slots
- Deployment options
- Deployment Center (Preview)

SETTINGS

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

[Click here to access our Quickstart guide for deploying code to your app](#)

Resource group (change) testinfra70533rg URL <https://testinfra70533.azurewebsites.net>

Status Running App Service plan/pricing tier testinfra70533 (Free: 0 Small)

Location West Europe FTP/deployment username testinfra70533\testmeanuser

Subscription (change) Visual Studio Enterprise – MPN FTP hostname ftp://waws-prod-am2-149.ftp.azurewebsites.windows.net

Subscription ID f38e1d90-3a11-460c-a4d2-186e1660d993 FTPS hostname ftps://waws-prod-am2-149.ftp.azurewebsites.windows.net

Diagnose and solve problems

Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

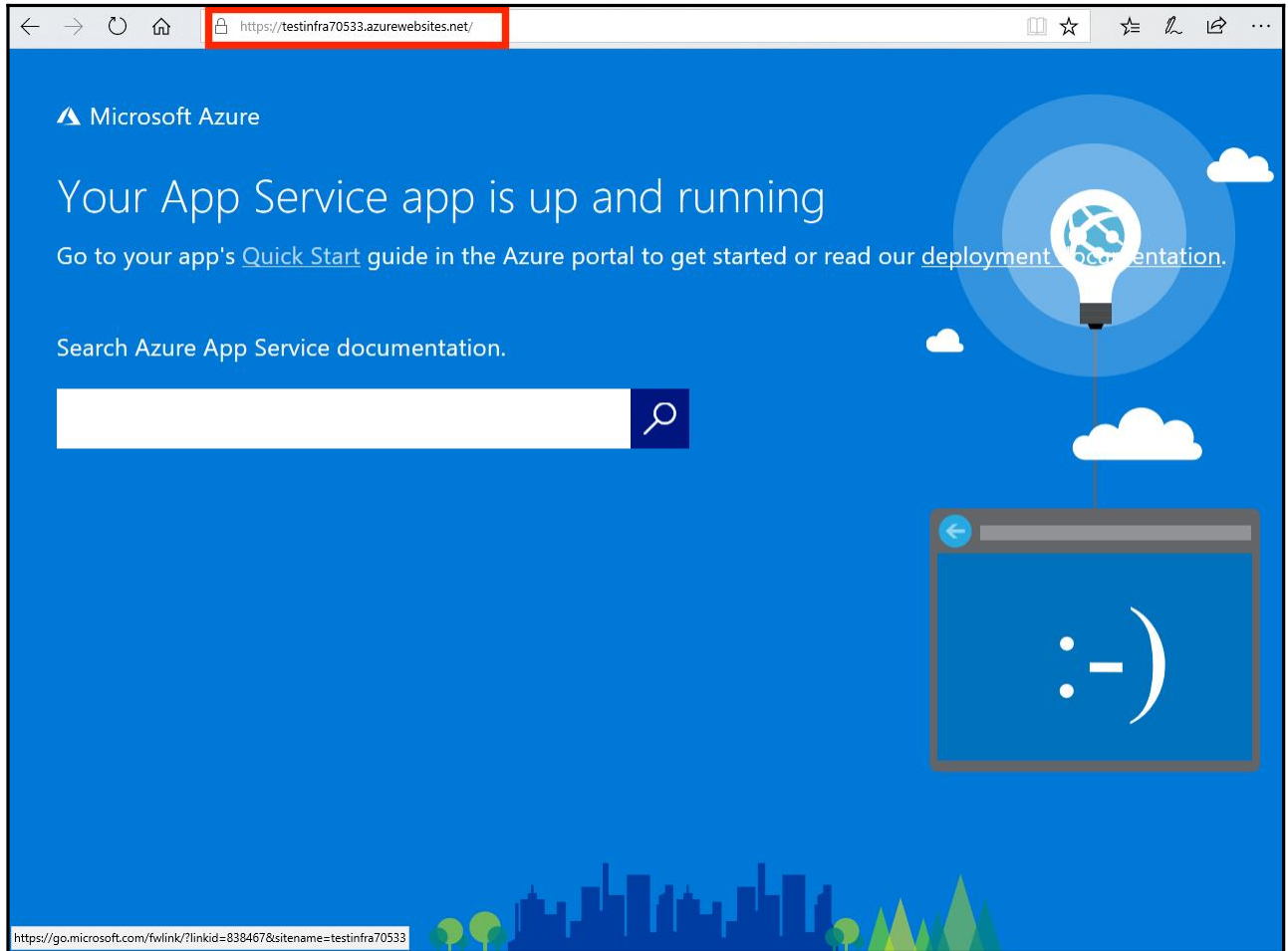
Application Insights

Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

App Service Advisor

App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

Http 5xx Data In



Home > Resource groups > testinfra70533clone > testinfra70533clone > Deployment option > Choose source

Deployment option








Set up deployment option

Choose Source >

Configure required settings

OK

Choose source

-  Visual Studio Team Services
By Microsoft
-  OneDrive
By Microsoft
-  Local Git Repository
By Git
-  GitHub
By GitHub
-  Bitbucket
By Atlassian
-  Dropbox
By Dropbox
-  External Repository

Home > Resource groups > testinfra70533rg > testinfra70533 - Application settings

testinfra70533 - Application settings

App Service

Search (Ctrl+/) Save Discard

General settings

.NET Framework version ⓘ	v4.7
PHP version ⓘ	5.6
i App Service supports installing newer versions of Python. Click here to learn more. ↗	
Python version ⓘ	Off
Java version ⓘ	Off
Java minor version ⓘ	
Java web container ⓘ	
Platform ⓘ	Upgrade to enable ↗
Web sockets ⓘ	<input type="radio"/> Off <input checked="" type="radio"/> On
Always On ⓘ	Upgrade to enable ↗
Managed Pipeline Version	<input checked="" type="radio"/> Integrated <input type="radio"/> Classic
HTTP Version	<input checked="" type="radio"/> 1.1 <input type="radio"/> 2.0
i You can improve the performance of your stateless applications by turning off the Affinity Cookie, stateful applications should keep the Affinity Cookie turned on for increased compatibility. Click to learn more. ↗	
ARR Affinity	<input type="radio"/> Off <input checked="" type="radio"/> On
Auto Swap	Upgrade to enable ↗
FTP based deployment can be disabled or configured to accept FTP (plain text) or FTPS ↗	

Home > Resource groups > testinfra70533rg > testinfra70533 - Authentication / Authorization

testinfra70533 - Authentication / Authorization
App Service

Search (Ctrl+/) Save Discard

Authentication / Authorization

Anonymous access is enabled on the App Service app. Users will not be prompted for login.

App Service Authentication
Off On

Action to take when request is not authenticated
Allow Anonymous requests (no action)

Authentication Providers

- Azure Active Directory
Not Configured
- Facebook
Not Configured
- Google
Not Configured
- Twitter
Not Configured
- Microsoft
Not Configured

Advanced Settings

Token Store Off On

ALLOWED EXTERNAL REDIRECT URLS

Application settings
Authentication / Authorization

Home > testinfra70533rg > testinfra70533 - Custom domains

testinfra70533 - Custom domains

App Service

Search (Ctrl+/)

Refresh FAQs

Custom Hostnames

Configure and manage custom hostnames assigned to your app [Learn more](#)

IP address: 52.232.26.228

HTTPS Only: Off On

+ Add hostname

HOSTNAMES ASSIGNED TO SITE	SSL BINDING
testinfra70533.azurewebsites.net	

App Service Domains

Purchase and manage domains for your Azure services with auto-renew and privacy protection. [Learn more](#)

+ Buy Domain

DOMAINS	EXPIRES	STATUS
No results		



Certificates

Certificates must be associated with your application before you can use them to create a binding. You can upload a certificate you purchased externally, or import an App Service Certificate.



Import App Service Certificate



Upload Certificate

Client Certificates

Incoming client certificates ⓘ

Off

On

Public Certificates

You have no certificates. Upload a certificate now to get started.

Private Certificates



Private certificates list includes all valid private certificates from your subscription.



SSL Configuration

SSL Configuration lets you configure the TLS version used by all bindings in this app and HTTPS only setting

HTTPS Only: Off On

Minimum TLS Version 1.0 1.1 1.2



Bindings

Bindings let you specify which certificate to use when responding to requests to a specific hostname over HTTPS [Learn more](#)

SSL bindings

Add binding

HOST NAME

CERTIFICATE

SSL TYPE

No results

infra70533StartApp
App Service

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

DEPLOYMENT

Quickstart
Deployment credentials
Deployment slots
Deployment options
Deployment Center (Preview)

SETTINGS

Application settings
Authentication / Authorization
Application Insights

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

Http 5xx

1 AM
HTTP SERVER ERRORS
-

Data In

400B
300B
200B
100B
0B

10 AM 10:15 AM 10:30 AM

DATA IN
801 B

Data Out

4kB
3kB
2kB
1kB
0kB

10 AM 10:15 AM 10:30 AM

DATA OUT
6.84 kB

Home > testinfra70533rg > testinfra70533 - Diagnostics logs

testinfra70533 - Diagnostics logs
App Service

Search (Ctrl+/) Save Discard

Advanced Tools
App Service Editor (Preview)
Performance test
Resource explorer
Testing in production
Extensions

MOBILE
Easy tables
Easy APIs
Data connections

API
API definition
CORS

MONITORING
Alerts (Classic)
Diagnostics logs
Log stream
Process explorer

SUPPORT + TROUBLESHOOTING

Application Logging (Filesystem) **Off** **On**

Application Logging (Blob) **Off** **On**

Level
Error

Storage Settings
melonassets(c4esvmsstest)

Retention Period (Days) **5**

Web server logging **Off** **Storage** **File System**

Detailed error messages **Off** **On**

Failed request tracing **Off** **On**

Download logs

FTP/deployment username
testinfra70533\testmeanuser

FTP
ftp://waws-prod-am2-149.ftp.azurewebsites.windows.net

FTPS
ftps://waws-prod-am2-149.ftp.azurewebsites.windows.net

Home > testinfra70533rg > testinfra70533 - Alerts (Classic)

testinfra70533 - Alerts (Classic)
App Service

Search (Ctrl+/) << **+ Add alert**

NAME	CONDITION	LAST ACTIVE
TESTINFRA70533 (SERVERFARMS)		
You haven't created any alert rules.		
TESTINFRA70533 (SITES)		
<input checked="" type="checkbox"/> testsinfraalerts	AverageMemoryWorkingSet > 1	Never

Advanced Tools

App Service Editor (Preview)

Performance test

Resource explorer

Testing in production

Extensions

MOBILE

Easy tables

Easy APIs

Data connections

API

API definition

CORS

MONITORING

Alerts (Classic)

Diagnostics logs

Log stream

Process explorer

Add an alert rule

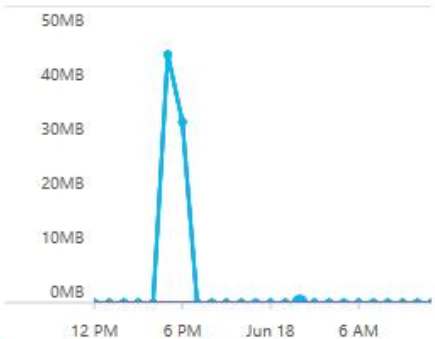
* Resource ⓘ
testinfra70533 (sites) ▼

* Name ⓘ
testinfraalerts ✓

Description
testinfraalerts

Alert on
Metrics Events

* Metric ⓘ
Average memory working set ▼



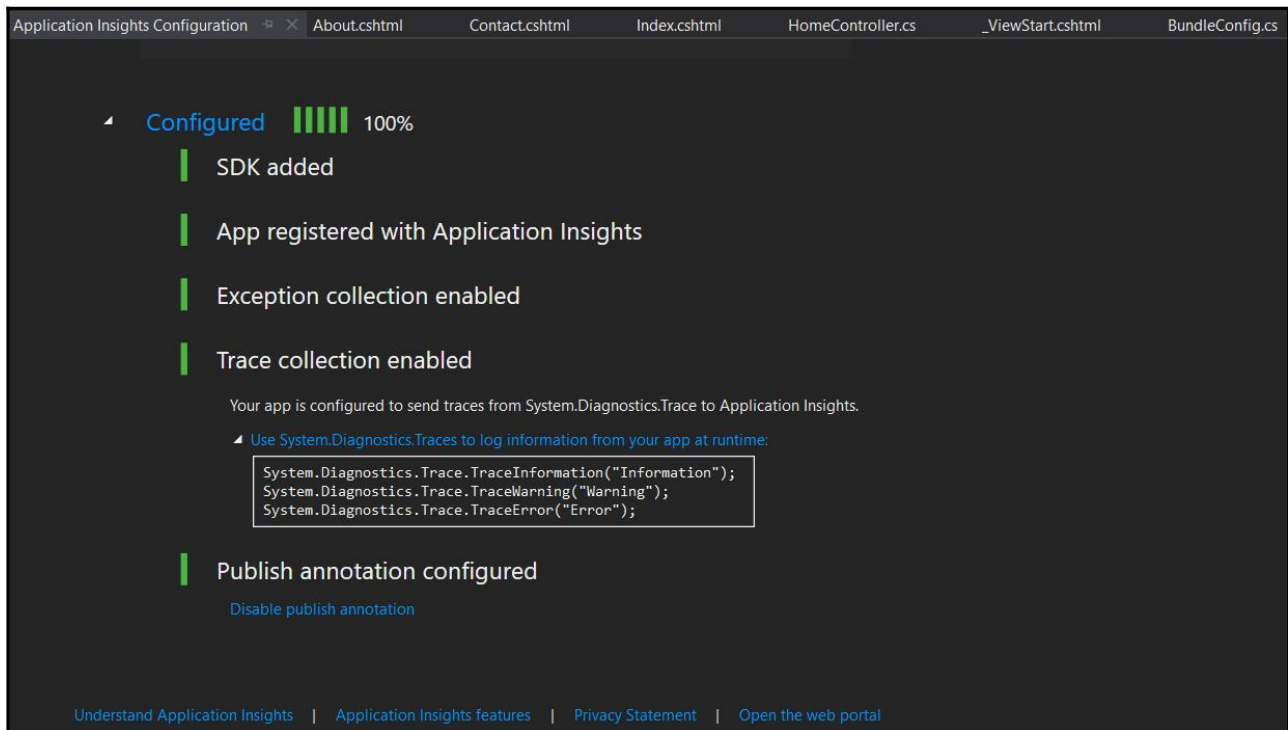
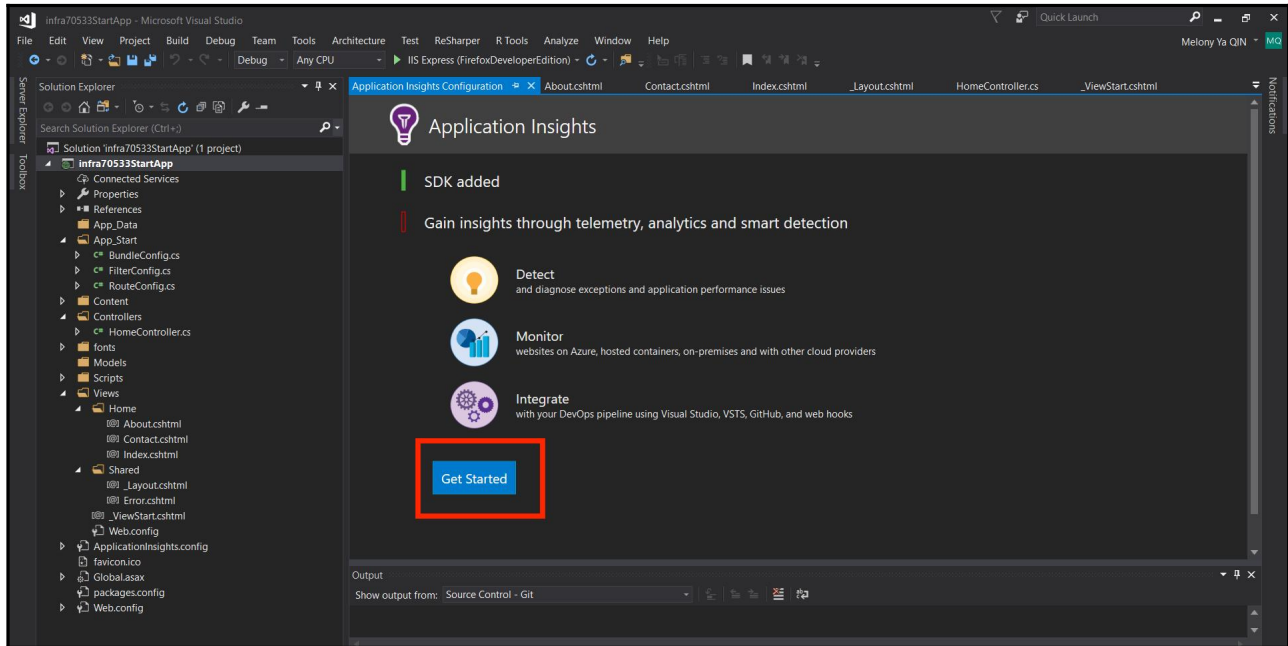
* Condition
greater than ▼

* Threshold ⓘ
1 bytes

* Period ⓘ
Over the last 5 minutes ▼

Email owners, contributors, and readers

OK



infra70533StartApp (Running) - Microsoft Visual Studio (Administrator)

File Edit View Project Build Debug Team Tools Architecture Test ReSharper R Tools Analyze Window Help

Process: [8672] iisexpress.exe Lifecycle Events Thread: Stack Frame:

Application Insights Configuration Application Insights Search About.cshtml Contact.cshtml Index.cshtml HomeController.cs _ViewStart.cshtml BundleConfig.cs

Enter search terms, or click the Search icon to show all Time range: Last 30 minutes

All 6
 Availability 0
 Custom Event 0
 Dependency 0
 Exception 0
 Metric 1
 Page View 0
 Request 4
 Trace 1

5

0

12:17 12:19 12:21 12:23 12:25 12:27 12:29 12:31 12:33 12:35 12:37 12:39 12:41 12:43 12:45

Results between 18/06/2018 12:17:01 and 18/06/2018 12:47:01.

Refine by

Search Fields

- _MS.AggregationInterv...
 - 60000
- _MS.IsAutocollected
 - True
- _MS.MetricId
 - requests/duration
- _MS.ProcessedByMetri...
 - (Name:'Requests', Veri...
- Client IP address
 - ::1
 - 127.0.0.1
- DeveloperMode
 - true
- Event time
 - 18/06/2018 10:46:01
 - 18/06/2018 10:46:02

6/18/2018 12:46:43 PM - Request
 GET Home/Index
 Request URL: http://localhost:64618/ Response code: 200 Response time: 6ms

6/18/2018 12:46:41 PM - Request
 GET Home/About
 Request URL: http://localhost:64618/Home/About Response code: 200 Response time: 31ms

6/18/2018 12:46:39 PM - Request
 GET Home/Index
 Request URL: http://localhost:64618/ Response code: 200 Response time: 8ms

6/18/2018 12:46:07 PM - Request
 GET Home/Index
 Request URL: http://localhost:64618/Home/Index Response code: 200 Response time: 4.751s

6/18/2018 12:46:02 PM - Trace
 AI: Diagnostic message: Performance counters are unavailable when the application is running under IIS Express. Use EnableIISExpressPerformanceCounters element with a value of 'true' within the Performance Collector Module element to override this behavior.
 Operation name: GET / Operation ID: GWV/MXl3M+I=

6/18/2018 12:46:01 PM - Metric
 Server response time
 Value: 4796,0745 Kind: Aggregation

Home > New > Application Insights > Application

Application Insights

Monitor web app performance and usage

Name ⓘ
testinfra70533AppInsights ✓

* Application Type ⓘ
ASP.NET web application ▼

* Subscription
Visual Studio Enterprise – MPN ▼

* Resource Group ⓘ
 Create new Use existing
CloudmelonGitHubRG ▼

* Location
West Europe ▼

infra70533StartApp - Application Insights
App Service

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

DEPLOYMENT

- Quickstart
- Deployment credentials
- Deployment slots
- Deployment options
- Deployment Center (Preview)

SETTINGS

- Application settings
- Authentication / Authorization
- Application Insights
- Managed service identity (Pr...
- Backups
- Custom domains
- SSL settings

Application Insights

Application Insights helps you detect and diagnose quality issues in your web apps and web services, and helps you understand what your users actually do with it.
[Getting started with Application Insights monitoring](#)

Link your application to Application Insights

Select existing resource

Search...

testinfra70533	testinfra70533rg	West Europe
infra70533StartApp	Default-ApplicationInsights-618tUS	
testCloudNotesBots53mn4x	melonMLRG	West Europe

Create new resource

* New resource name: infra70533StartApp

* Location: North Europe

Instrument your application

* Runtime/Framework: ASP.NET

Code level diagnostics
Identify code that slowed down your web app and debug runtime exceptions with local variables

On Off

Advanced Settings

OK

Home > Resource groups > CloudmelonGitHubRG > testinfra70533AppInsights - Performance

testinfra70533AppInsights - Performance
Application Insights

Search (Ctrl+/) << Time range = Last 24 hours Roles = All client_Type != "Browser" >>

View in Analytics Feedback Profiler Refresh

Operations Dependencies

Operation times: zoom into a range Avg 50th 95th 99th

2.0 sec

1000 ms

0.0ms

Request count 5

06 PM Mon 18 06 AM 12 PM

02:28 02:28

Select operation Search to filter items...

OPERATION NAME	DURATION (AVG)	COUNT	PIN
Overall	855 ms	8	
GET Home/Contact	3.39 sec	2	
GET Home/About	19.8 ms	2	
GET Home/Index	4.66 ms	4	

Overall

Distribution of durations: zoom in... Scale

Request count

Duration 1.0ms 18ms 130ms 520ms 2.0sec

1.0ms 1.0ms 6.2sec

Insights (2)

- 88% COMMON PROPERTIES: resultCode, client_City, client_CountryOr...
- 13% COMMON PROPERTIES: resultCode, client_City, client_CountryOr...

Home > Resource groups > CloudmelonGitHubRG > infra70533StartApp - WebJobs

infra70533StartApp - WebJobs
App Service

Search (Ctrl+/) << + Add Refresh Logs Delete Properties >>

Continuous and scheduled CRON webjobs require 'Always on' to be enabled for

WebJobs

WebJobs provide an easy way to run scripts or programs as background

NAME	TYPE	STATUS	SCHEDULE
ApplicationInsigh...	Continuous	Running	n/a

Add WebJob
infra70533startapp

* Name testinfra70533webjob ✓

* File Upload Select a file

Type Continuous

Scale Multi Instance

Secure | <https://testinfra70533.scm.azurewebsites.net>

Apps

Kudu Environment Debug console Process explorer Tools Site extensions

Environment

Build	74.10611.3437.0 (a2dc809b8a)
Azure App Service	74.0.8598.41 (rd_websites_stable.180604-1306)
Site up time	00:00:05:02
Site folder	D:\home
Temp folder	D:\local\Temp\

REST API

(works best when using a JSON viewer extension)

- [App Settings](#)
- [Deployments](#)
- [Source control info](#)
- [Files](#)
- [Log streaming](#) (use curl, not browser!)
- [Processes and mini-dumps](#)
- [Runtime versions](#)
- [Site Extensions: installed | feed](#)
- [Web hooks](#)
- [WebJobs: all | triggered | continuous](#)
- [Functions: list | host config](#)

More information about Kudu can be found on the [wiki](#).

Home > testinfra70533rg > testinfra70533 - Deployment slots

testinfra70533 - Deployment slots

App Service

Search (Ctrl+/) << **+ Add Slot** <=> Swap

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

DEPLOYMENT

Quickstart

Deployment credentials

Deployment slots

Deployment options

Deployment Center (Preview)

SETTINGS

Application settings

Authentication / Authorization

Application Insights

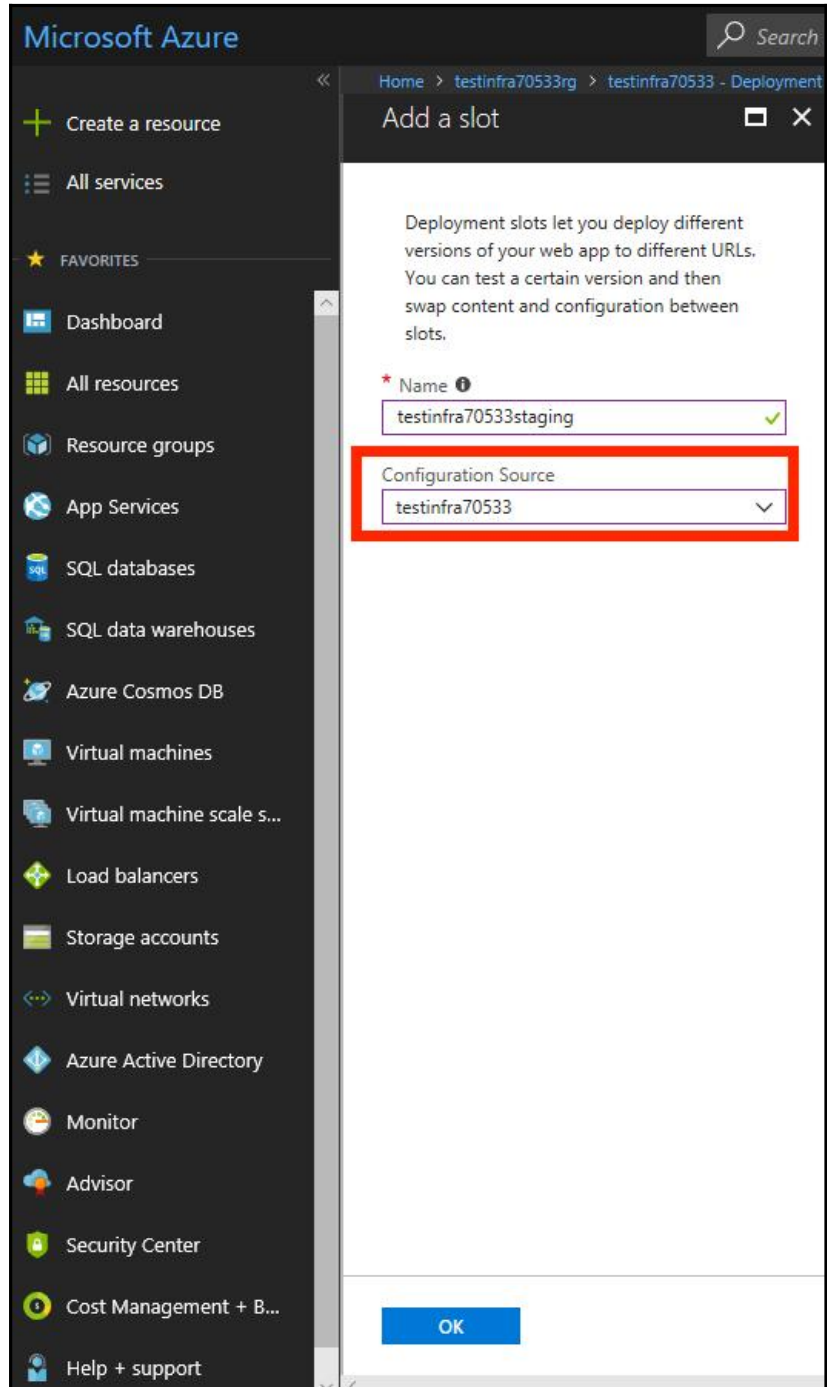
Managed service identity (Pr...

Backups

Custom domains

SSL settings

NAME	STATUS	APP SERVICE PLAN
You haven't added any deployment slots. Click ADD SLOT to get started.		



Home > testinfra70533rg > testinfra70533 - Deployment slots > Swap

testinfra70533rg
Resource group

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags

SETTINGS

Quickstart
Resource costs
Deployments
Policies
Properties
Locks
Automation script

MONITORING

+ Add Edit columns Delete resource group Refresh Move Assign Tags

Subscription (change) Visual Studio Enterprise – MPN Subscription ID f38e1d90-3a11-460c-a4d2-186e1... Deployments 1 Succeeded

Tags (change)
Click here to add tags

Filter by name... All types All locations

4 items Show hidden types

<input type="checkbox"/>	NAME	TYPE	LOCATION
<input type="checkbox"/>	testinfra70533	Application Insights	West Europe
<input type="checkbox"/>	testinfra70533	App Service plan	West Europe
<input checked="" type="checkbox"/>	testinfra70533	App Service	West Europe
<input type="checkbox"/>	testinfra70533staging (testinfra70533/testinfra70533staging)	Web App	West Europe

Home > testinfra70533rg > testinfra70533 - Deployment slots > testinfra70533staging

testinfra70533staging
Web App

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

DEPLOYMENT
Quickstart
Deployment credentials
Deployment slots
Deployment options
Deployment Center (Preview)

SETTINGS
Application settings
Authentication / Authorization
Application Insights
Managed service identity (Pr...
Backups
Custom domains
SSL settings

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

Click here to access our Quickstart guide for deploying code to your app →

Resource group (change)
testinfra70533rg

Status
Running

Location
West Europe

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

URL
https://testinfra70533-testinfra70533staging.azurewebsites.net

App Service plan/pricing tier
testinfra70533 (Standard; 1 Small)

FTP/deployment username
testinfra70533__testinfra70533staging/testmeanuser

FTP hostname
ftp://waws-prod-am2-149.ftp.azurewebsites.windows.net

FTPS hostname
ftps://waws-prod-am2-149.ftp.azurewebsites.windows.net

Diagnose and solve problems
Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

Application Insights
Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

App Service Advisor
App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

Http 5xx
1 AM
HTTP SERVER ERRORS

Data In
1 AM
DATA IN

Home > testinfra70533rg > testinfra70533 - Deployment

Swap

Choose which slots to swap

Swap type ⓘ
Swap

Source
production

Destination
testinfra70533staging

Preview Changes
No Warnings

OK

Home > Resource groups > testinfra70533rg > testinfra70533 - Scale up (App Service plan)

testinfra70533 - Scale up (App Service plan)
App Service

Search (Ctrl+/)

- Application settings
- Authentication / Authorization
- Application Insights
- Managed service identity (Previ...
- Backups
- Custom domains
- SSL settings
- Networking
- Scale up (App Service plan)**
- Scale out (App Service plan)
- WebJobs
- Push

Dev / Test
For less demanding workloads

Production
For most production workloads

Isolated
Advanced networking and scale

Recommended pricing tiers

<p>S1</p> <p>1x cores 1.75 GB memory A-Series compute 37.57 EUR/Month (Estimated)</p>	<p>P1v2</p> <p>1x cores 3.5 GB memory Dv2-Series compute 125.44 EUR/Month (Estimated)</p>
<p>P2v2</p> <p>2x cores 7 GB memory Dv2-Series compute 250.95 EUR/Month (Estimated)</p>	<p>P3v2</p> <p>4x cores 14 GB memory Dv2-Series compute 501.90 EUR/Month (Estimated)</p>

[See additional options](#)

Included features

Every app hosted on this App Service plan will have access to these features:

- Custom domains / SSL**
Configure and purchase custom domains with SNI and IP

Included hardware

Every instance of your App Service plan will include the following hardware configuration:

- CPU**
Dedicated A-series compute resources used to run

[Apply](#)

Home > Resource groups > CloudmelonGitHubRG > infra70533StartApp - Scale out (App Service plan)

infra70533StartApp - Scale out (App Service plan)

App Service

Search (Ctrl+/) Save Discard Disable autoscale Refresh

Configure Run history JSON Notify

Autoscale setting name testingfraas
Resource group CloudmelonGitHubRG
Instance count 2

Default Auto created scale condition

Delete warning **i** The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off

Scale mode Scale based on a metric Scale to a specific instance count

i It is recommended to have at least one scale in rule

Rules	Scale out
When	infra70533StartAp... (Average) CpuPercentage > 70 Increase instance count by 1

+ Add a rule

Instance limits Minimum Maximum Default

Schedule **This scale condition is executed when none of the other scale condition(s) match**



+ Add a scale condition

SETTINGS

- Application settings
- Authentication / Authorization
- Application Insights
- Managed service identity (Pr...
- Backups
- Custom domains
- SSL settings
- Networking
- Scale up (App Service plan)
- Scale out (App Service plan)**
- WebJobs
- Push
- MySQL In App
- Properties
- Locks
- Automation script

APP SERVICE PLAN



- App Service plan

Default Auto created scale condition  

Scale mode Scale based on a metric Scale to a specific instance count

Instance count


Schedule **This scale condition is executed when none of the other scale condition(s) match**


Auto created scale condition 1  


Scale mode Scale based on a metric Scale to a specific instance count

Instance count


Schedule Specify start/end dates Repeat specific days










Timezone 

Start date 

End date 

[+ Add a scale condition](#)

6 items Show hidden types 

<input type="checkbox"/> NAME 	TYPE 	LOCATION 	
<input type="checkbox"/>  cloudmelongithub	Storage account	West Europe	...
<input type="checkbox"/>  Failure Anomalies - testinfra70533AppInsights	microsoft.insights/alertrules	West Europe	...
<input type="checkbox"/>  infra70533StartApp	App Service	North Europe	...
<input type="checkbox"/>  infra70533StartAppPlan	App Service plan	North Europe	...
<input type="checkbox"/>  testinfra70533AppInsights	Application Insights	West Europe	...
<input type="checkbox"/>  testingfraas	microsoft.insights/autoscalesettings	North Europe	...

Home > Resource groups > testinfrawebbasicaprg

testinfrawebbasicaprg
Resource group

Search (Ctrl+F)

Overview
Activity log
Access control (IAM)
Tags

SETTINGS

Quickstart
Resource costs
Deployments
Policies
Properties
Locks
Automation script

MONITORING

Metrics
Alerts (classic)

+ Add Edit columns Delete resource group Refresh Move Assign Tags

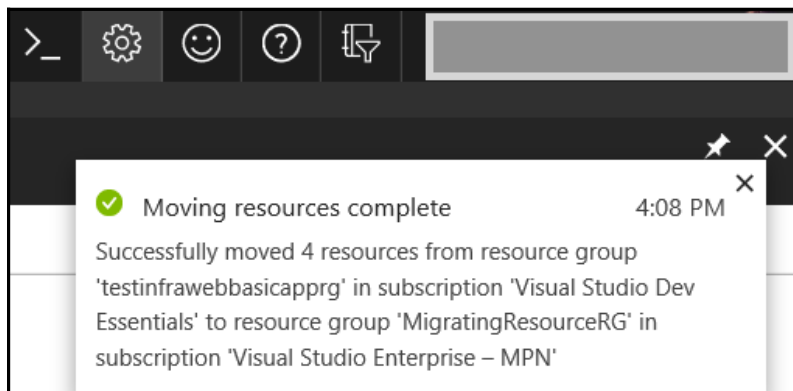
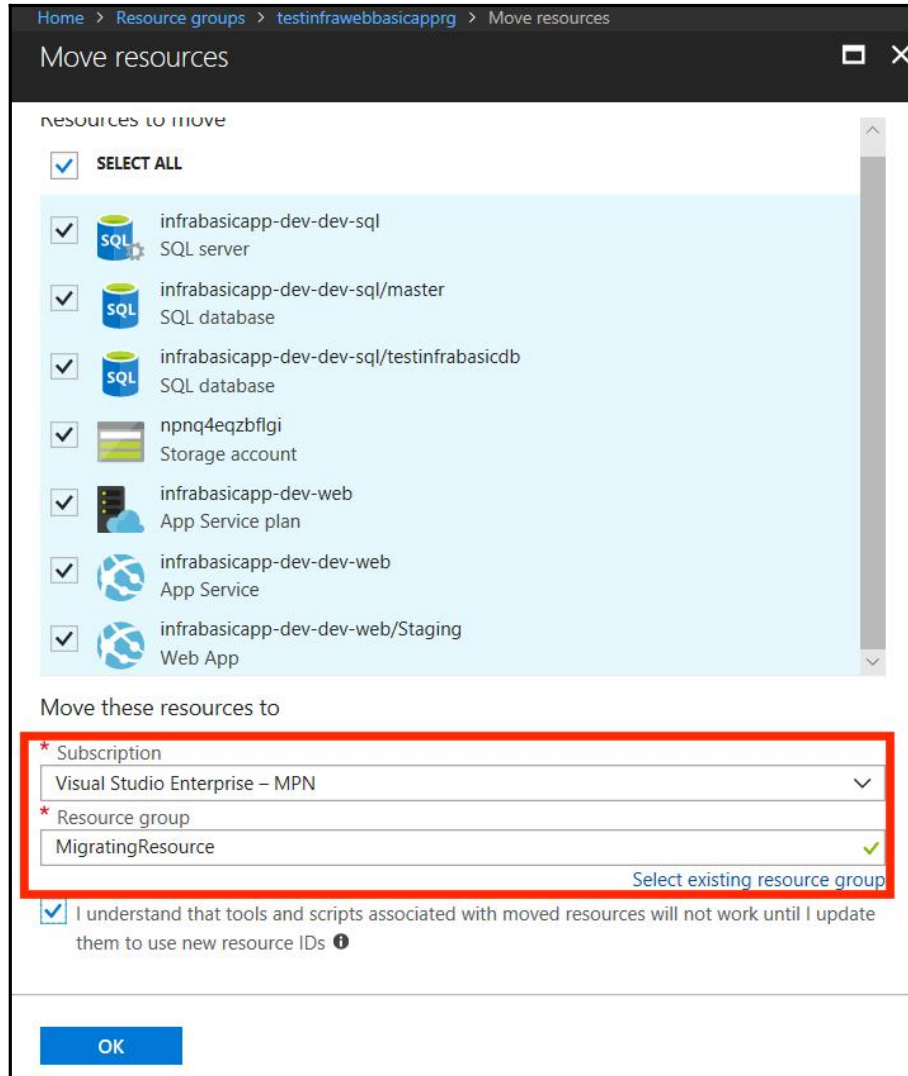
Subscription (change) Subscription ID
Visual Studio Dev Essentials 5efcd8d-8da8-4993-9c36-4cc58

Tags (change) Move to another resource group
Click here to add tags Move to another subscription

Filter by name... All types All locations No grouping

7 of 7 items selected Show hidden types

<input checked="" type="checkbox"/>	NAME	TYPE	LOCATION
<input checked="" type="checkbox"/>	infrabasicapp-dev-dev-sql	SQL server	West Europe
<input checked="" type="checkbox"/>	master (infrabasicapp-dev-dev-sql/master)	SQL database	West Europe
<input checked="" type="checkbox"/>	testinfrabasicdb (infrabasicapp-dev-dev-sql/testinfrabasicdb)	SQL database	West Europe
<input checked="" type="checkbox"/>	infrabasicapp-dev-dev-web	App Service	West Europe
<input checked="" type="checkbox"/>	Staging (infrabasicapp-dev-dev-web/Staging)	Web App	West Europe
<input checked="" type="checkbox"/>	infrabasicapp-dev-web	App Service plan	West Europe
<input checked="" type="checkbox"/>	npnq4eqzbflgi	Storage account	West Europe



Home > Resource groups > MigratingResourceRG

MigratingResourceRG
Resource group

Search (Ctrl+/)

Add
 Edit columns
 Delete resource group
 Refresh
 Move
 Assign Tags

Subscription (change) **Visual Studio Enterprise – MPN** Subscription ID f38e1d90-3a11-460c-a4d2-186e1... Deployments No deployments

Tags (change)
Click here to add tags

Filter by name... All types All locations No grouping

7 items Show hidden types

<input type="checkbox"/>	NAME	TYPE	LOCATION	
<input type="checkbox"/>	infrabasicapp-dev-dev-sql	SQL server	West Europe	...
<input type="checkbox"/>	master (infrabasicapp-dev-dev-sql/master)	SQL database	West Europe	...
<input type="checkbox"/>	testinfrabasicdb (infrabasicapp-dev-dev-sql/testinfrabasicdb)	SQL database	West Europe	...
<input type="checkbox"/>	infrabasicapp-dev-dev-web	App Service	West Europe	...
<input type="checkbox"/>	Staging (infrabasicapp-dev-dev-web/Staging)	Web App	West Europe	...
<input type="checkbox"/>	infrabasicapp-dev-web	App Service plan	West Europe	...
<input type="checkbox"/>	npnq4eqzbfjgi	Storage account	West Europe	...

Home > Resource groups > testinfra70533

testinfra70533
Resource group

Search (Ctrl+/)

Add
 Edit columns
 Delete resource group
 Refresh
 Move
 Assign Tags

Subscription (change) Visual Studio Dev Essentials Subscription ID 5efcd8d-8da8-4993-9c36-4cc5

Tags (change)
Click here to add tags

Filter by name... All types All locations No grouping

3 of 3 items selected Show hidden types

<input checked="" type="checkbox"/>	NAME	TYPE	LOCATION
<input checked="" type="checkbox"/>	testinfra70533	Application Insights	West Europe
<input checked="" type="checkbox"/>	testinfra70533	App Service	West Europe
<input checked="" type="checkbox"/>	testinfra70533asp	App Service plan	West Europe




Move to another resource group
Move to another subscription

Home > Resource groups > testinfra70533 > Move resources

Move resources

Resources to move

SELECT ALL

-  testinfra70533 Application Insights
-  testinfra70533asp App Service plan
-  testinfra70533 App Service

Move these resources to

* Resource group

ToHostResourceGroup [Create a new group](#)

I understand that tools and scripts associated with moved resources will not work until I update them to use new resource IDs ⓘ

OK

Home > Resource groups > ToHostResourceGroup

ToHostResourceGroup
Resource group

Search (Ctrl+/)

[Add](#)
[Edit columns](#)
[Delete resource group](#)
[Refresh](#)
[Move](#)
[Assign Tags](#)

Subscription (change)
 Visual Studio Dev Essentials
 Subscription ID: 5efcd18d-8da8-4993-9c36-4cc553...
 Deployments: No deployments
 Tags (change)
[Click here to add tags](#)

Filter by name... | All types | All locations | No grouping

3 items Show hidden types

<input type="checkbox"/>	NAME	TYPE	LOCATION	
<input type="checkbox"/>	testinfra70533	Application Insights	West Europe	...
<input type="checkbox"/>	testinfra70533	App Service	West Europe	...
<input type="checkbox"/>	testinfra70533asp	App Service plan	West Europe	...

Subscription (change)
Visual Studio Enterprise – MPN
Subscription ID: f38e1d90-3a11-460c-a4d2-186e1...
Deployments: 1 Succeeded
Tags (change)
[Click here to add tags](#)

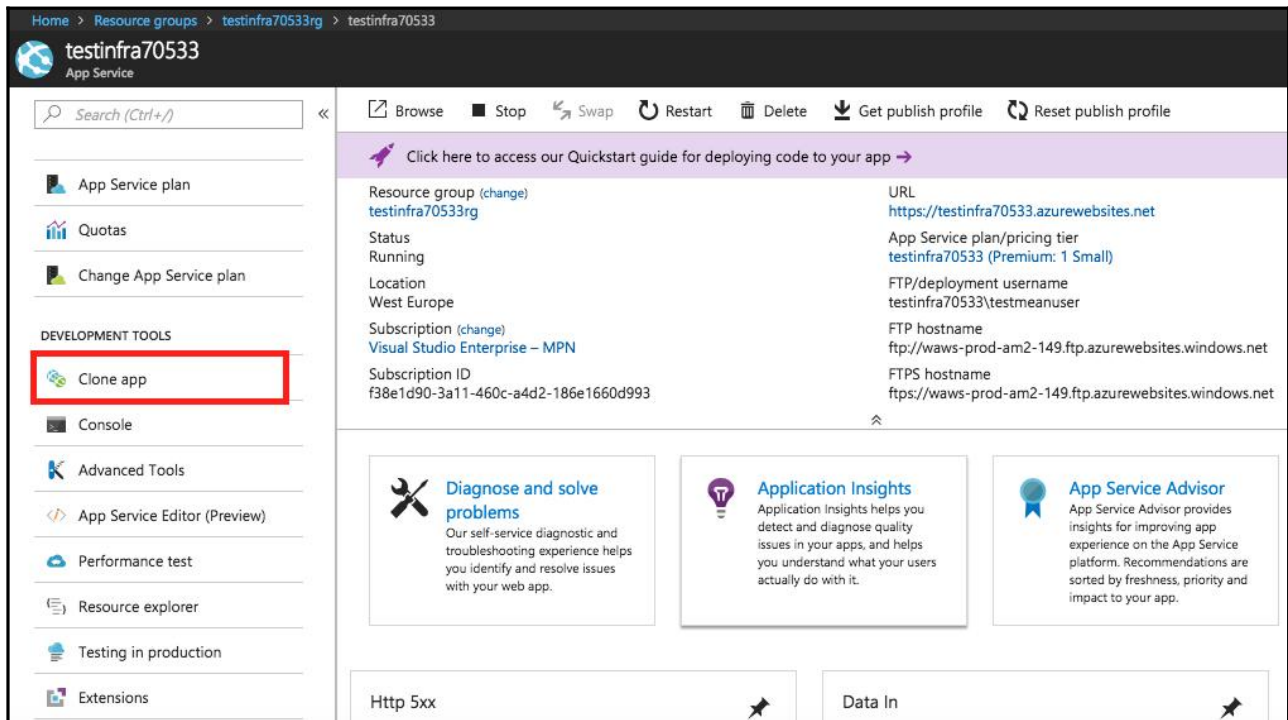
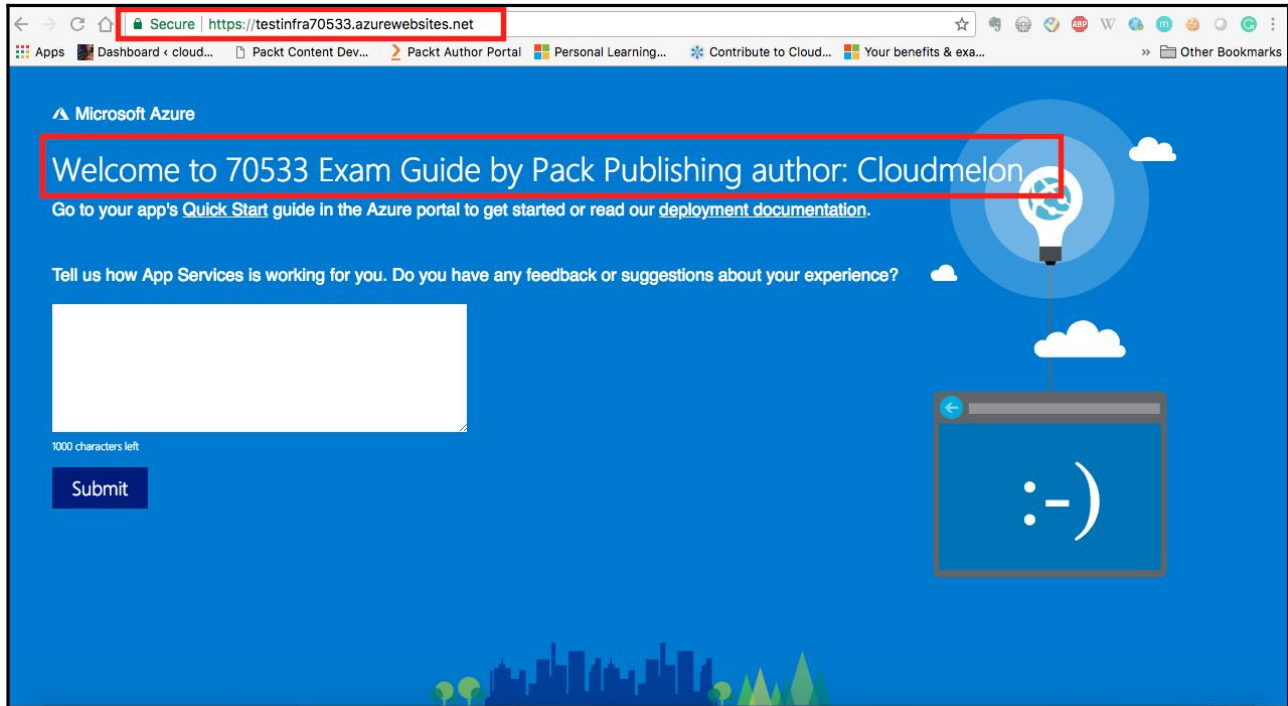
Filter by name... | All types | All locations | No grouping

8 items Show hidden types

<input type="checkbox"/>	NAME	TYPE	LOCATION	
<input type="checkbox"/>	infrabasicapp-dev-dev-sql	SQL server	West Europe	...
<input type="checkbox"/>	master (infrabasicapp-dev-dev-sql/master)	SQL database	West Europe	...
<input type="checkbox"/>	testinfrabasicdb (infrabasicapp-dev-dev-sql/testinfrabasicdb)	SQL database	West Europe	...
<input type="checkbox"/>	infrabasicapp-dev-dev-web	App Service	West Europe	...
<input type="checkbox"/>	Staging (infrabasicapp-dev-dev-web/Staging)	Web App	West Europe	...
<input type="checkbox"/>	infrabasicapp-dev-web	App Service plan	West Europe	...
<input type="checkbox"/>	npnq4eqzbf1gi	Storage account	West Europe	...
<input type="checkbox"/>	testMigratingServiceplan	App Service plan	West Europe	...

The screenshot shows the Azure portal interface for an App Service plan. The left-hand navigation pane includes a search bar and several categories of tools. The 'APP SERVICE PLAN' category is expanded, and the 'Change App Service plan' option is highlighted with a red rectangular border. The main content area on the right features an information box at the top explaining that an App Service plan is the container for an app and that its settings determine location, features, cost, and compute resources. Below this, a table lists the current App Service plan:

App Service Plan Name	Location	Instances
testMigratingServiceplan(S1)	West Europe	1 instance(s)



Home > Resource groups > testinfra70533rg > testinfra70533 > Clone app > App Service plan

Clone app

Create

* App name
testinfra70533clone ✓
.azurewebsites.net

* Resource Group ⓘ
 Create new Use existing
testinfra70533clone ✓

* App Service plan/Location
testinfra70533(West Europe) >

Clone Settings >

Application Insights ⓘ

Pin to dashboard


Automation options

App Service plan

Select a plan for the web app

An App Service plan is the container for your app. The App Service plan settings will determine the location, features, cost and compute resources associated with your app. ⓘ

Create new

	testinfra70533(P1) West Europe	1 instance(s)
---	-----------------------------------	---------------

Home > Resource groups > testinfra70533rg > testinfra70533 > Clone app > Clone Settings

Clone app

Create

* App name
testinfra70533clone ✓
.azurewebsites.net

* Resource Group ⓘ
 Create new Use existing
testinfra70533clone ✓

* App Service plan/Location
testinfra70533(West Europe) >

Clone Settings >

Application Insights ⓘ On Off

Pin to dashboard

Create Automation options

Clone Settings

Clone Settings

i App service clone will copy the content and certificates of your app into a newly created application. Some settings can also be included in the clone operation by using the toggles below

App Settings ⓘ	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Connection Strings ⓘ	<input type="checkbox"/> No <input type="checkbox"/> Yes
Deployment source ⓘ	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Custom Domains ⓘ	<input type="checkbox"/> No <input type="checkbox"/> Yes

OK

Microsoft Azure testinfra

Home > Resource groups > testinfra70533rg > testinfra

Clone app

Create

* App name
testinfra70533clone ✓
.azurewebsites.net

* Resource Group ⓘ
 Create new Use existing
testinfra70533clone ✓

* App Service plan/Location >
testinfra70533(West Europe)

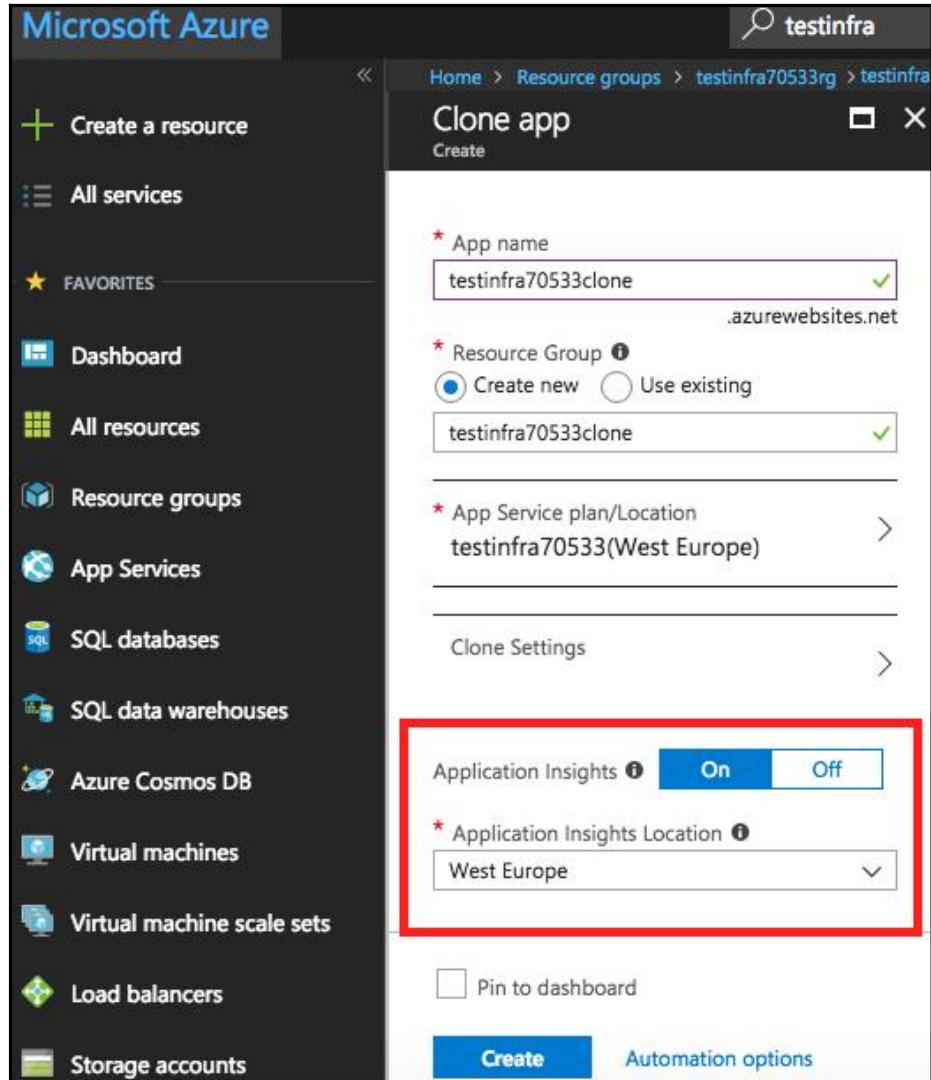
Clone Settings >

Application Insights ⓘ On Off

* Application Insights Location ⓘ
West Europe ▼

Pin to dashboard

[Create](#) [Automation options](#)



Home > Resource groups > testinfra70533clone

testinfra70533clone

Resource group

Search (Ctrl+/)

Locks

Automation script

MONITORING

- Metrics
- Alerts (classic)
- Diagnostics logs
- Application insights
- Log analytics (OMS)
- Log search
- Advisor recommendations

SUPPORT + TROUBLESHOOTING

- New support request

Subscription (change): Visual Studio Enterprise – MPN
Subscription ID: f38e1d90-3a11-460c-a4d2-186e1...
Deployments: 1 Succeeded

Tags (change): [Click here to add tags](#)

Filter by name... All types All locations No

1 of 2 items selected Show hidden types

NAME	TYPE	LOCATION
<input type="checkbox"/> testinfra70533clone	Application Insights	West Europe
<input checked="" type="checkbox"/> testinfra70533clone	App Service	West Europe

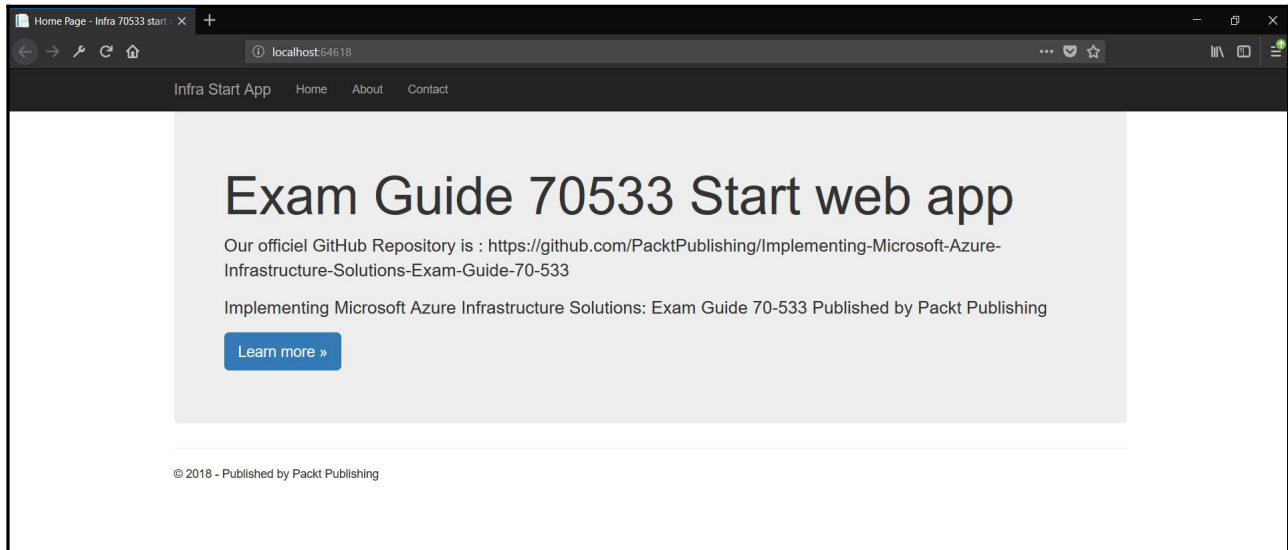
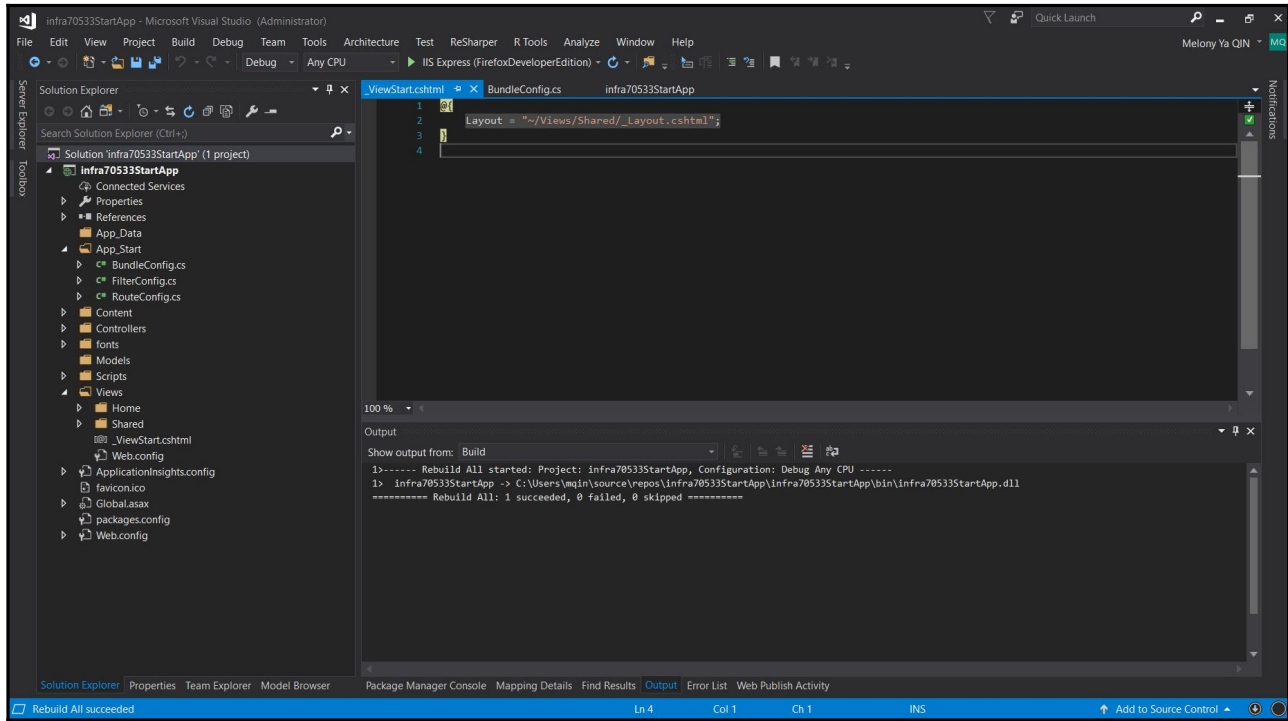
Secure | <https://testinfra70533clone.azurewebsites.net>

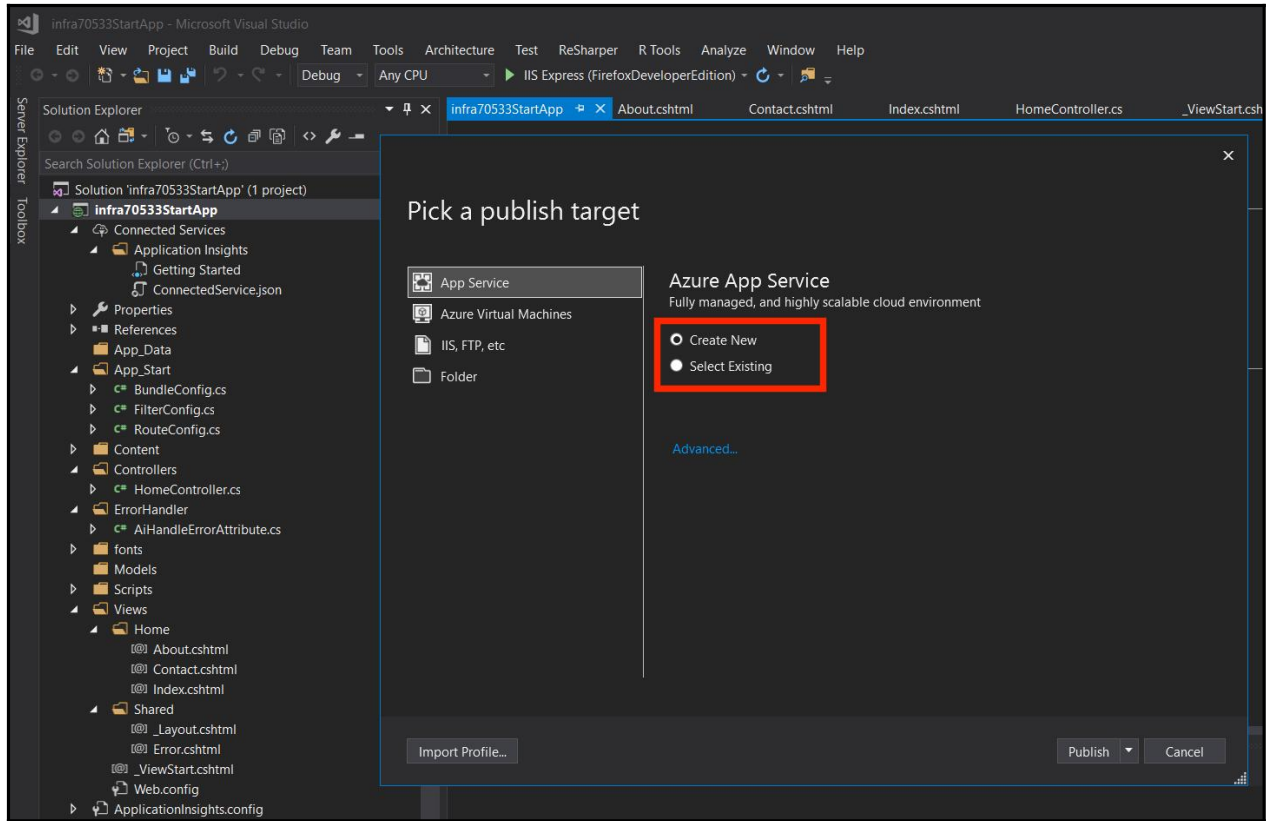
Microsoft Azure

Welcome to 70533 Exam Guide by Pack Publishing author: Cloudmelon

Go to your app's [Quick Start](#) guide in the Azure portal to get started or read our [deployment documentation](#).

Search Azure App Service documentation.





Configure Hosting Plan ✕

A hosting plan is the container for your app. The hosting plan settings will determine the location, features, cost and compute resources...

App Service Plan

Location

North Europe ▾

Size

S1 (1 core, 1,75 GB RAM) ▾

OK Cancel ⌵

Create App Service

Host your web and mobile applications, REST APIs, and more in Azure



App Name
infra70533StartApp

Subscription
Visual Studio Enterprise – MPN



Resource Group
CloudmelonGitHubRG (westeurope) [New...](#)

Hosting Plan
infra70533StartAppPlan* (North Europe, S1) [New...](#)

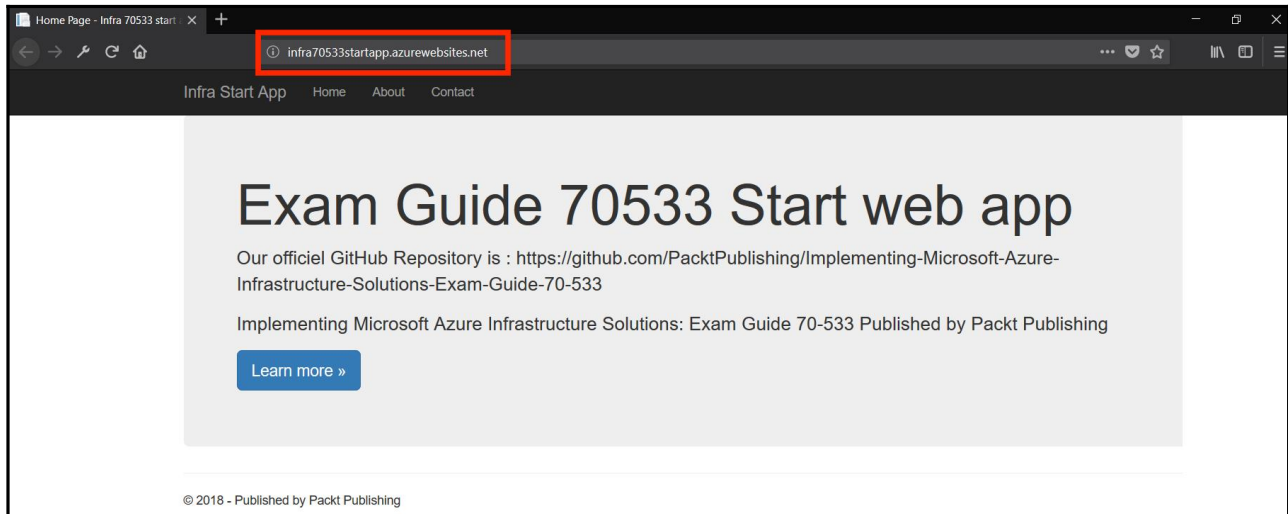
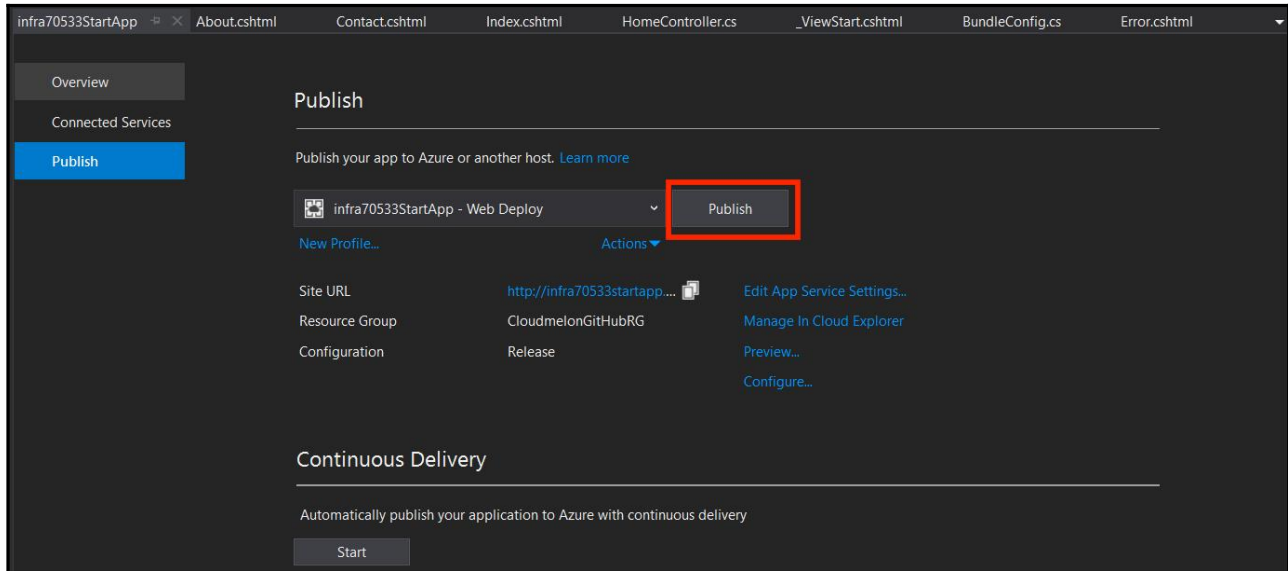
Explore additional Azure services

-  Create a SQL Database
-  Create a storage account

Clicking the Create button will create the following Azure resources

- Hosting Plan - infra70533StartAppPlan  
- App Service - infra70533StartApp

[Export...](#) [Create](#) [Cancel](#)



infra70533StartApp About.cshhtml Contact.cshhtml Index.cshhtml HomeController.cs _ViewStart.cshhtml BundleConfig.cs Error.cshhtml

Overview

Connected Services

Publish

Publish your app to Azure or another host. [Learn more](#)

infra70533StartApp - Web Deploy Publish

New Profile... Actions

Site URL <http://infra70533startapp...> Edit App Service Settings...

Resource Group CloudmelonGitHubRG Manage In Cloud Explorer

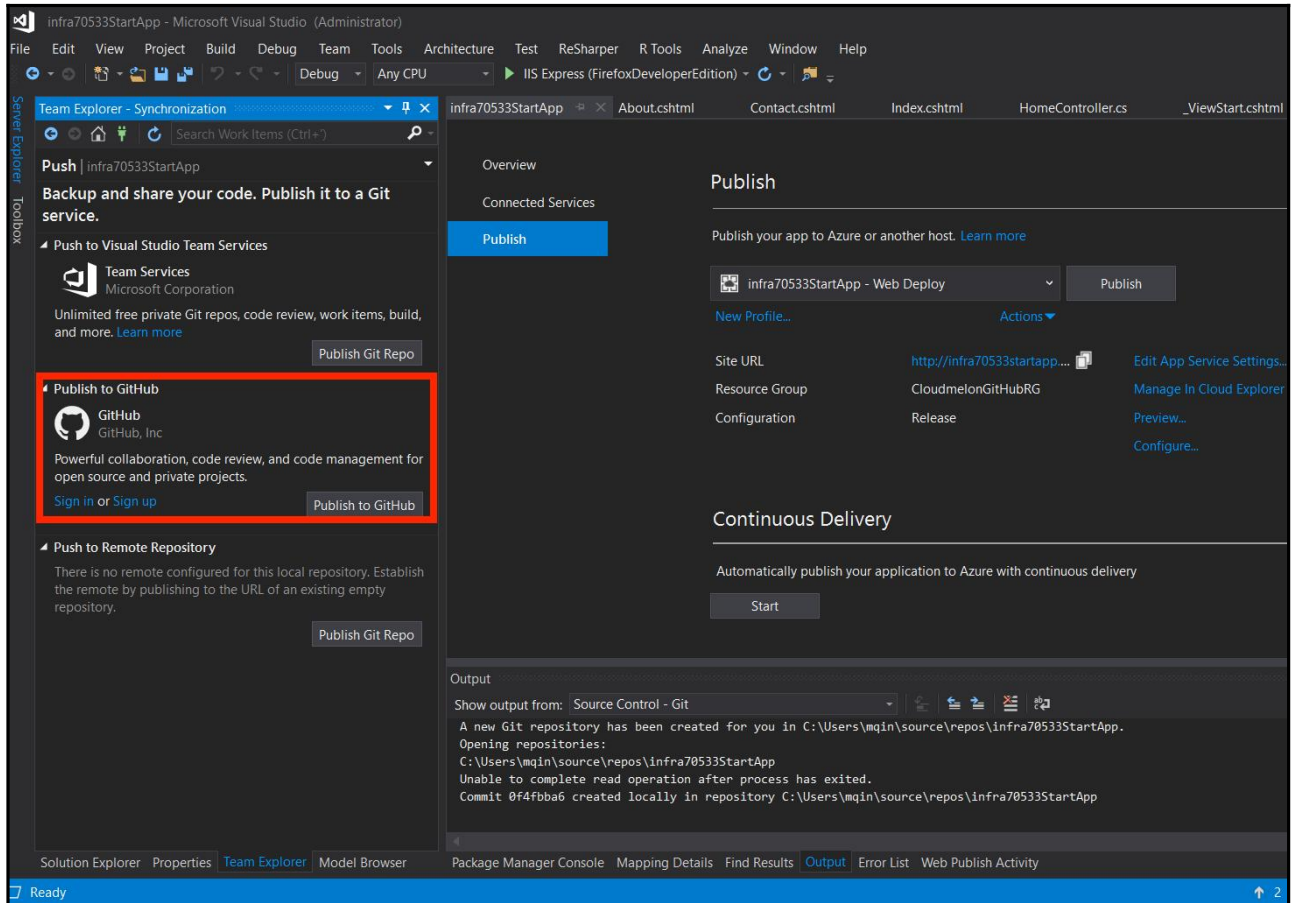
Configuration Release Preview...

Configure...

Continuous Delivery

Automatically publish your application to Azure with continuous delivery

Start



← → ↻ 🏠 🔒 https://github.com/settings/tokens/new 📖 ☆ ⌵ 📌 📄 ⋮

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input type="checkbox"/> admin:org	Full control of orgs and teams
<input type="checkbox"/> write:org	Read and write org and team membership
<input type="checkbox"/> read:org	Read org and team membership
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input type="checkbox"/> admin:org_hook	Full control of organization hooks
<input type="checkbox"/> gist	Create gists
<input checked="" type="checkbox"/> notifications	Access notifications
<input type="checkbox"/> user	Update all user data
<input type="checkbox"/> read:user	Read all user profile data
<input type="checkbox"/> user:email	Access user email addresses (read-only)
<input type="checkbox"/> user:follow	Follow and unfollow users
<input type="checkbox"/> delete_repo	Delete repositories
<input type="checkbox"/> write:discussion	Read and write team discussions
<input type="checkbox"/> read:discussion	Read team discussions
<input type="checkbox"/> admin:pgp_key	Full control of user gpg keys (Developer Preview)
<input type="checkbox"/> write:pgp_key	Write user gpg keys
<input type="checkbox"/> read:pgp_key	Read user gpg keys

Generate token Cancel

Settings / Developer settings

OAuth Apps
GitHub Apps
Personal access tokens

Personal access tokens

Generate new token Revoke all

Tokens you have generated that can be used to access the GitHub API.

Make sure to copy your new personal access token now. You won't be able to see it again!

✓ 013d32c85afd6d815949be7589611dfd9a68f535	Delete
git: https://github.com/ on LAP-20150413A at 22-mai-2018 18:21 — gist, repo	Last used within the last week Delete
git: https://github.com/ on LAP-20150413A at 13-avr.-2018 22:53 — gist, repo	Last used within the last 3 months Delete
git: https://github.com/ on LAP-20150413A at 16-juin-2017 14:16 — gist, repo	Last used within the last 10 months Delete

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

Configure Continuous Delivery to Azure

Start a build and release now or whenever you check in code.

Select a Repository Branch

Repository: infra70533StartApp

GitHub PAT: 013d32c85afd6d815949be7589611dfd9a68f535

Branch: master

Select a VSTS Team Project

Team Services Domain: testinfra70533.visualstudio.com

Team Project: infra70533StartApp (new)

Select Target Azure Resources

Subscription: Visual Studio Enterprise – MPN

App Service: infra70533StartApp- [redacted] Edit...

Enabling continuous delivery will:

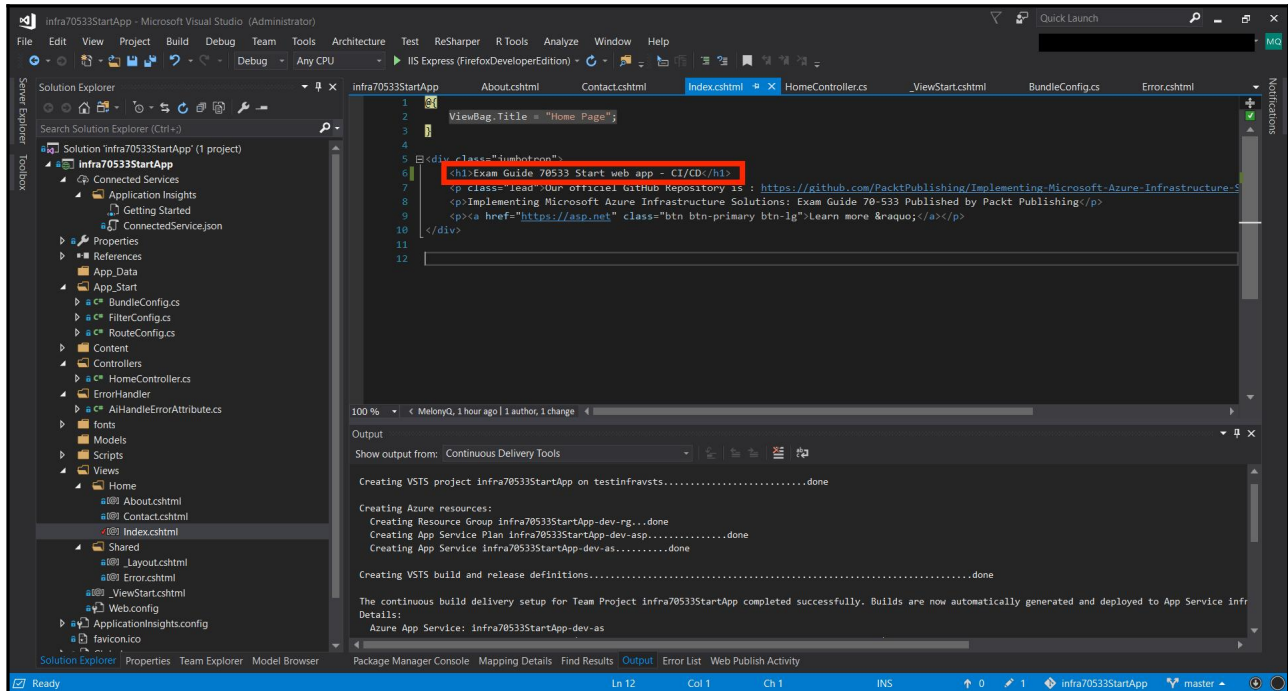
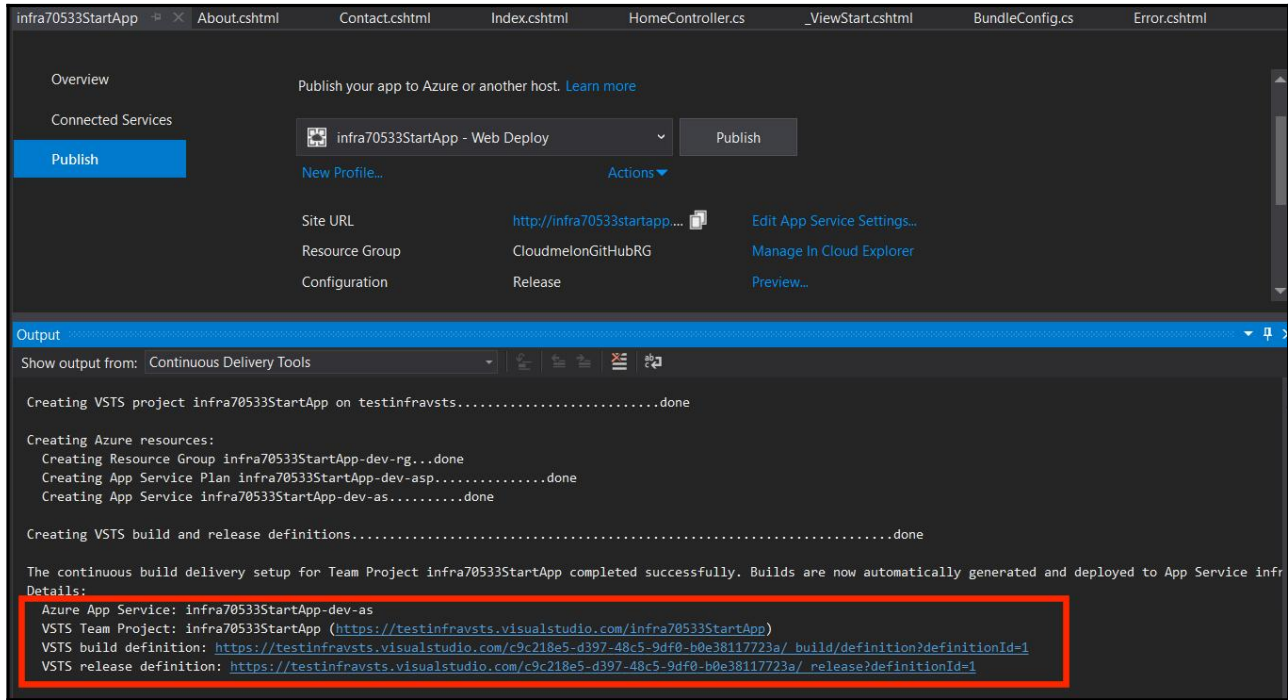
- Create an Azure App Service with the S1 Service Plan
- Create a build definition on Visual Studio Team Services that targets the selected repository.
- Create a release definition targeting your selected Azure App Service

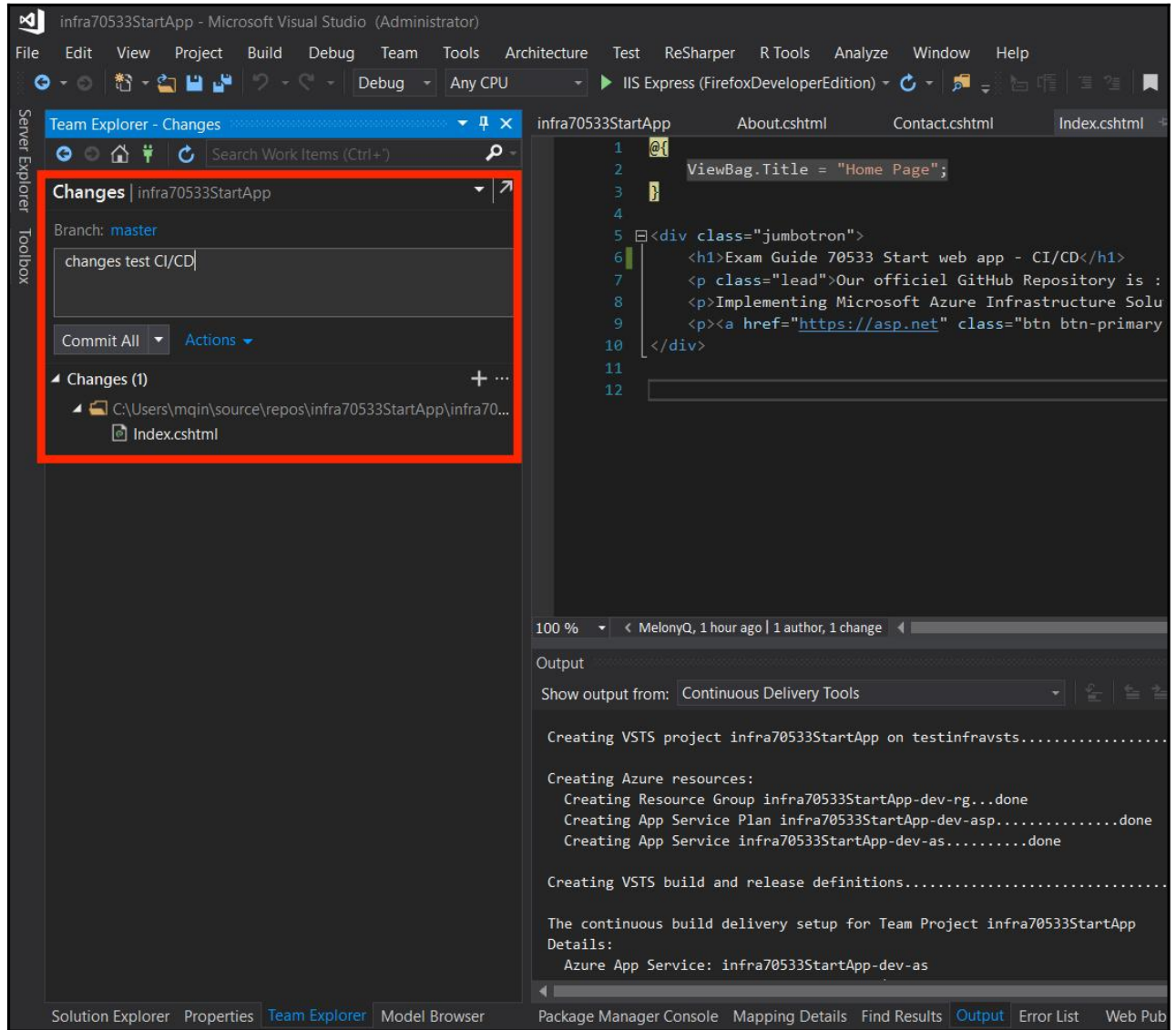
Visual Studio Team Services continuous delivery is a free service

[What is continuous delivery?](#)

[Review Azure App Service pricing](#)

OK Cancel





Build Definitions / infra70533StartApp-dev-as - CI

in progress Queue new build... Edit Security Help

Summary History Deleted

Details

Repository: cloudmelon/infra70533StartApp
 Default queue: Hosted VS2017 | Manage
 Queue status: Enabled
 Last updated by: mqjn | Monday, June 18, 2018 9:13 AM

Branches

master in progress 2 minutes ago

Queued & running

#20180618.2	in progress	master	Microsoft.VisualStudio.S...
-------------	-------------	--------	-----------------------------

Recently completed

#20180618.1	succeeded	master	mqjn
-------------	-----------	--------	------

Analytics

Number of builds: 1
 Success rate: 100.00%

All release definitions

Overview Releases Deleted State All

	Title	Release Definition	Environments	Build	Branch	Created	Created By
↑	Release-2	infra70533StartApp-dev-as ...		20180618.2 (Build)	master	a minute ago	Microso...
↑	Release-1	infra70533StartApp-dev-as ...		20180618.1 (Build)	master	15 minutes ago	mqjn

infra70533startapp.azurewebsites.net

Infra Start App Home About Contact

Exam Guide 70533 Start web app - CI/CD

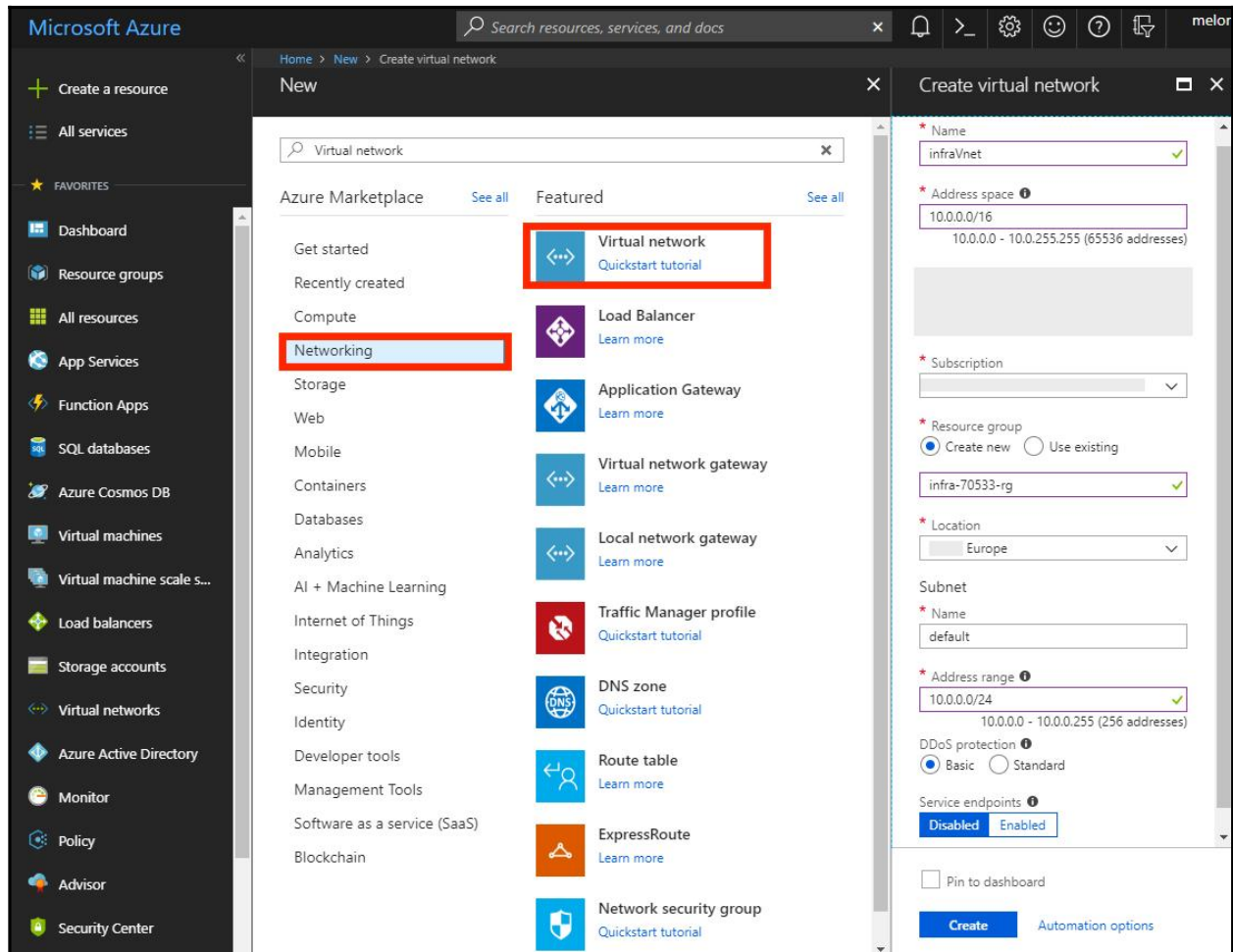
Our official GitHub Repository is : <https://github.com/PacktPublishing/Implementing-Microsoft-Azure-Infrastructure-Solutions-Exam-Guide-70-533>

Implementing Microsoft Azure Infrastructure Solutions: Exam Guide 70-533 Published by Packt Publishing

[Learn more »](#)

© 2018 - Published by Packt Publishing

Chapter 06: Implementing and Managing Azure Virtual Networks



Home > Resource groups > infra-70533-rg

infra-70533-rg
Resource group

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Events

SETTINGS
Quickstart
Resource costs
Deployments
Policies
Properties
Locks
Automation script

+ Add Edit columns Delete resource group Refresh Move Assign tags

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1...

Deployments
No deployments

Tags (change)
Click here to add tags

Filter by name... All types All locations No grouping

1 items Show hidden types

NAME	TYPE	LOCATION
infraVnet	Virtual network	West Europe

Home > Resource groups > infra-70533-rg > infraVnet - Subnets

infraVnet - Subnets
Virtual network

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS
Address space
Connected devices
Subnets
DDoS protection
DNS servers
Peerings
Service endpoints
Properties
Locks
Automation script

+ Subnet + Gateway subnet

Search subnets

NAME	ADDRESS RANGE	AVAILABLE ADDRESSES	SECURITY GROUP
default	10.0.0.0/24	251	-

```

ResourceGroupName : infra-70533-rg
Location           : westeurope
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/infra-70533-rg

AVERTISSEMENT : The output object type of this cmdlet will be modified in a future release.

AddressSpace       : Microsoft.Azure.Commands.Network.Models.PSAddressSpace
DhcpOptions        : Microsoft.Azure.Commands.Network.Models.PSDhcpOptions
Subnets           : {default}
VirtualNetworkPeerings :
ProvisioningState  : Succeeded
EnableDdosProtection : False
EnableVmProtection : False
DdosProtectionPlan :
AddressSpaceText   : {
  "AddressPrefixes": [
    "10.0.0.0/16"
  ]
}

DhcpOptionsText    : {
  "DnsServers": []
}

SubnetsText       : {
  "Name": "default",
  "Etag": "W/\4bd35b1a-bec2-46cb-bba4-8b3478987c24\"",
  "Id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/infra-70533-rg/providers/Microsoft.Network/virtualNetworks/infraVnet/subnets/default",
  "AddressPrefix": "10.0.0.0/24",
  "IpConfigurations": [],
  "ResourceNavigationLinks": [],
  "ServiceEndpoints": [],
  "ProvisioningState": "Succeeded"
}

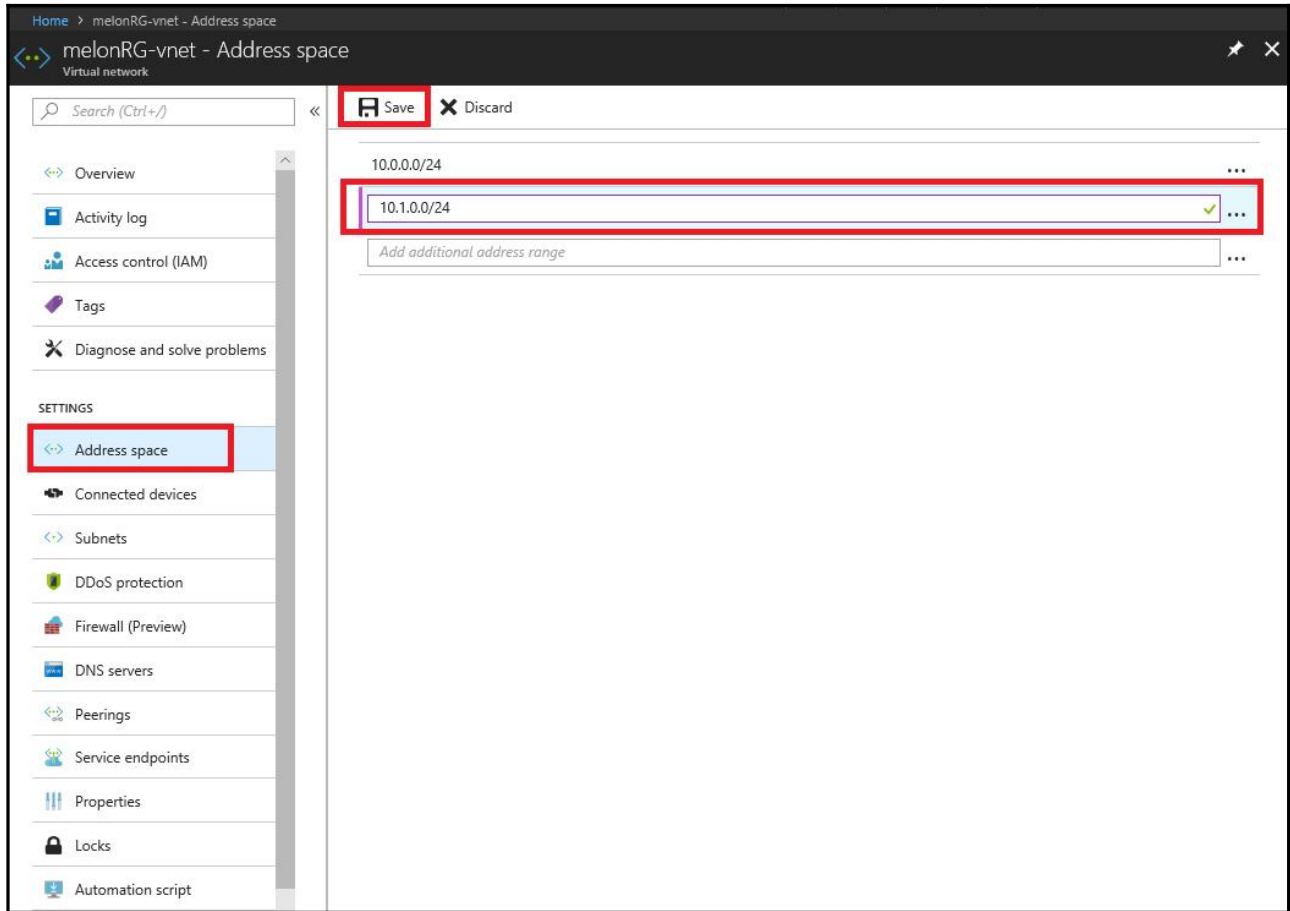
VirtualNetworkPeeringsText : []
EnableDdosProtectionText   : false
DdosProtectionPlanText     : null
EnableVmProtectionText     : false
ResourceGroupName          : infra-70533-rg
Location                   : westeurope
ResourceGuid               : a185b59f-dde2-4a5d-89b2-4640c93e67f4
Type                       : Microsoft.Network/virtualNetworks
Tag                         :
TagsTable                  :
Name                       : infraVnet
Etag                       : W/\4bd35b1a-bec2-46cb-bba4-8b3478987c24"
Id                         : /subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/infra-70533-rg/providers/Microsoft.Network/virtualNetworks/infraVnet

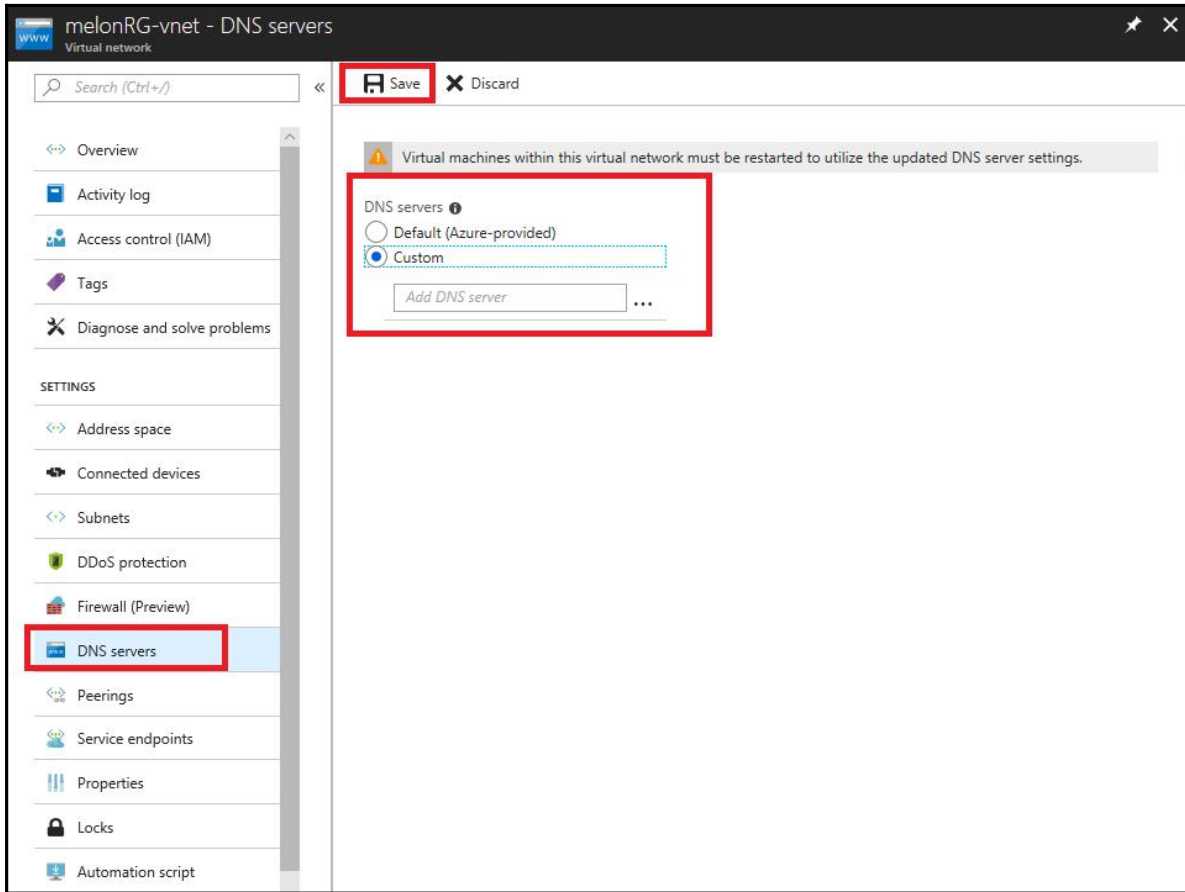
```

```

melony@Azure:~$ az network vnet create --name infraVnet --resource-group infra-70533-rg --subnet-name default
{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.0.0.0/16"
      ]
    },
    "ddosProtectionPlan": null,
    "dhcpOptions": {
      "dnsServers": []
    },
    "enableDdosProtection": false,
    "enableVmProtection": false,
    "etag": "W/\57caacda-1173-44c6-9133-e739d7a11b9f\"",
    "id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/infra-70533-rg/providers/Microsoft.Network/virtualNetworks/infraVnet",
    "location": "westeurope",
    "name": "infraVnet",
    "provisioningState": "Succeeded",
    "resourceGroup": "infra-70533-rg",
    "resourceGuid": "de842aab-1fcd-4468-9d60-d078d2c7d0a6",
    "subnets": [
      {
        "addressPrefix": "10.0.0.0/24",
        "etag": "W/\57caacda-1173-44c6-9133-e739d7a11b9f\"",
        "id": "/subscriptions/f38e1d90-3a11-460c-a4d2-186e1660d993/resourceGroups/infra-70533-rg/providers/Microsoft.Network/virtualNetworks/infraVnet/subnet
s/default",
        "ipConfigurations": null,
        "name": "default",
        "networkSecurityGroup": null,
        "provisioningState": "Succeeded",
        "resourceGroup": "infra-70533-rg",
        "resourceNavigationLinks": null,
        "routeTable": null,
        "serviceEndpoints": null
      }
    ],
    "tags": {},
    "type": "Microsoft.Network/virtualNetworks",
    "virtualNetworkPeerings": []
  }
}

```





Home > melonRG-vnet

melonRG-vnet
Virtual network

Search (Ctrl+/) Refresh Move Delete

Resource group [\(change\)](#) melonRG
Location West Europe
Subscription [\(change\)](#) Visual Studio Enterprise – MPN
Subscription ID f38e1d90-3a11-460c-a4d2-186e1660d993
Tags [\(change\)](#)
[Click here to add tags](#)

Address space 10.0.0.0/24
DNS servers Azure provided DNS service

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS
Address space
Connected devices
Subnets
DDoS protection
Firewall (Preview)

Connected devices

Search connected devices

DEVICE	TYPE	IP ADDRESS	SUBNET
melonvm229	Network interface	10.0.0.4	default

Home > Resource groups > testinfra70533rg > testinfra-routetb - Routes

testinfra-routetb - Routes
Route table

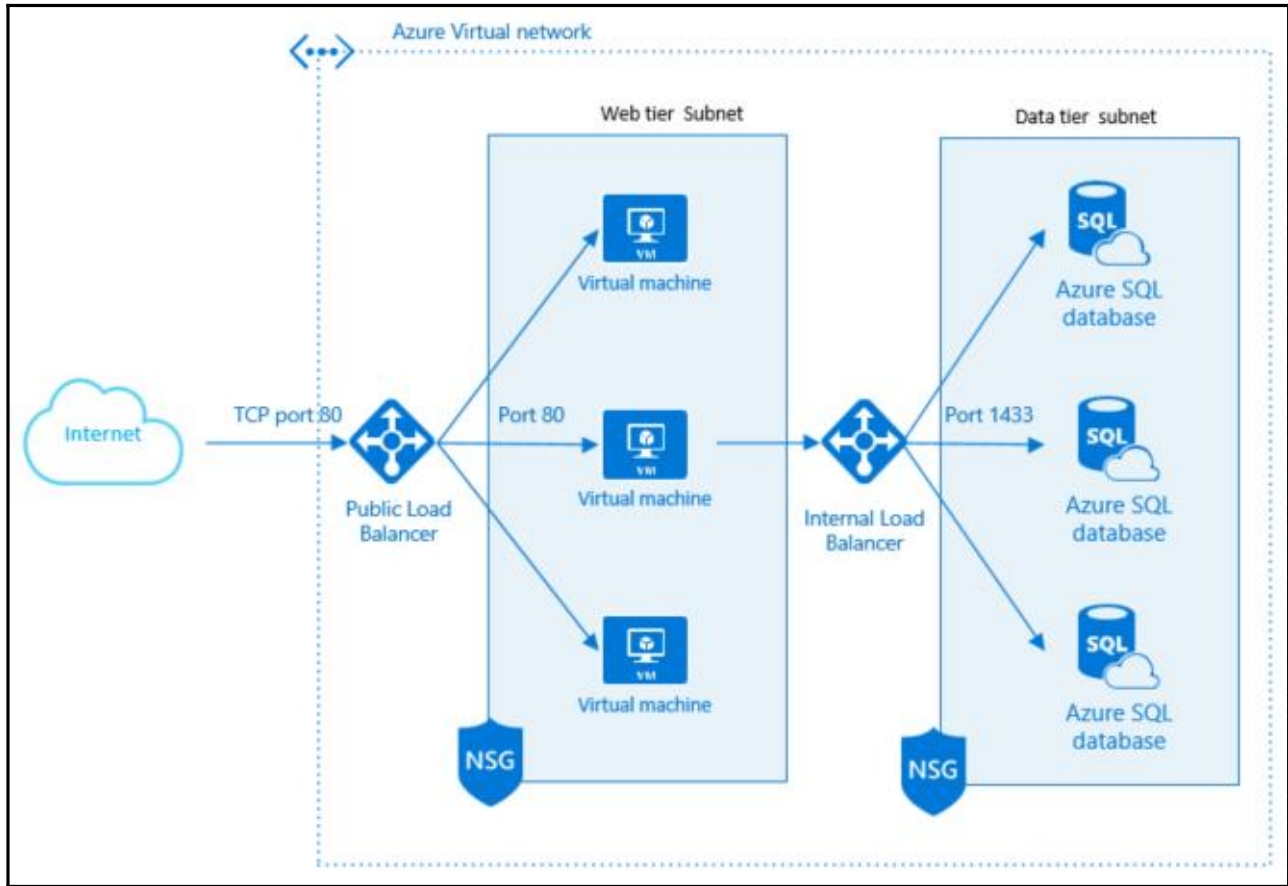
Search (Ctrl+/) + Add

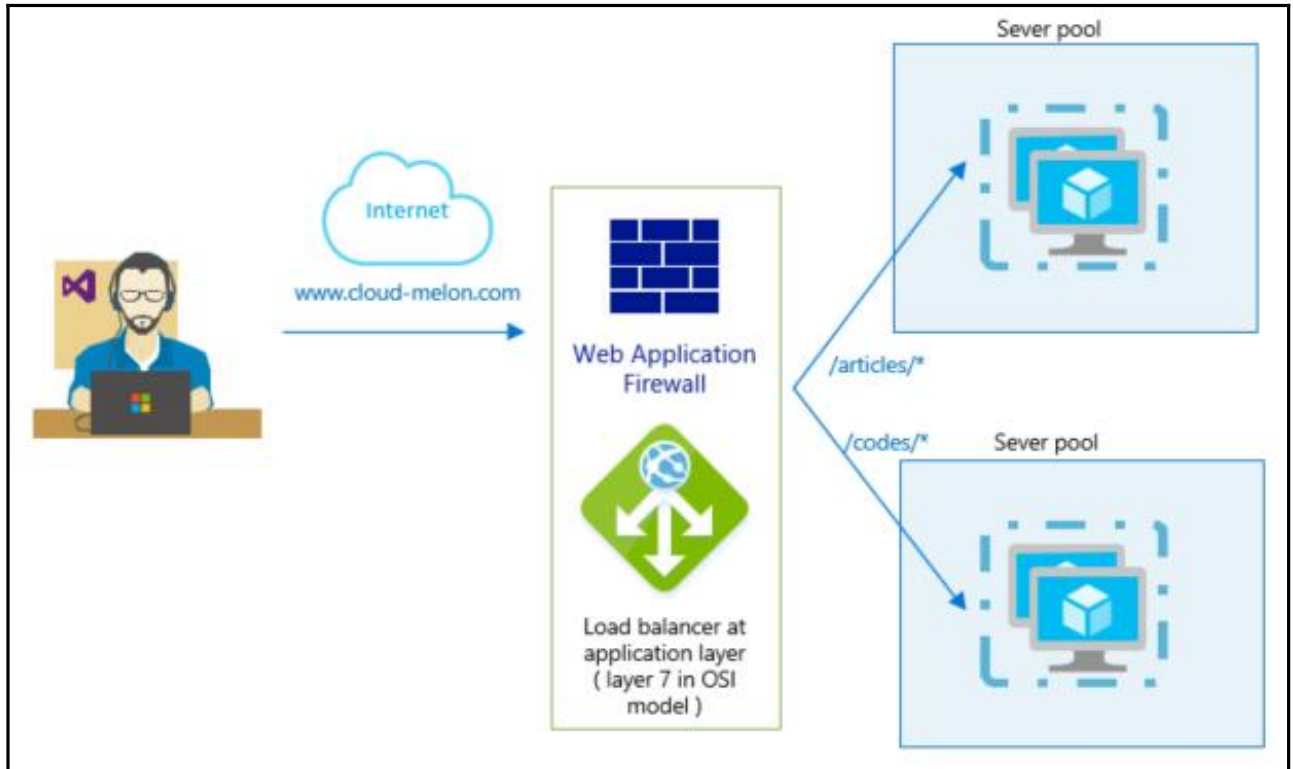
Search routes

NAME	ADDRESS PREFIX	NEXT HOP
ToPrivateSubnetInfra	10.0.1.0/24	10.0.2.4

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS
Configuration
Routes
Subnets





Home > New > Application Gateway > Create application gateway > Basics

Create application gateway

- 1 Basics**
Configure basic settings >
- 2 Settings
Configure application gateway... >
- 3 Summary
Review and create >

Basics

* Name
testinfra-app-gw ✓

* Tier
 Standard WAF

* SKU size ⓘ
Medium ▾

Instance count ⓘ
 2

* Subscription
Visual Studio Enterprise – MPN ▾

* Resource group
 Create new Use existing
testinfra70533rg ▾

* Location
West Europe ▾

OK

Home > New > Application Gateway > Create application gateway > Settings

Create application gateway

- 1 Basics
Configure basic settings ✓
- 2 Settings
Configure application gateway... >
- 3 Summary
Review and create >

Settings

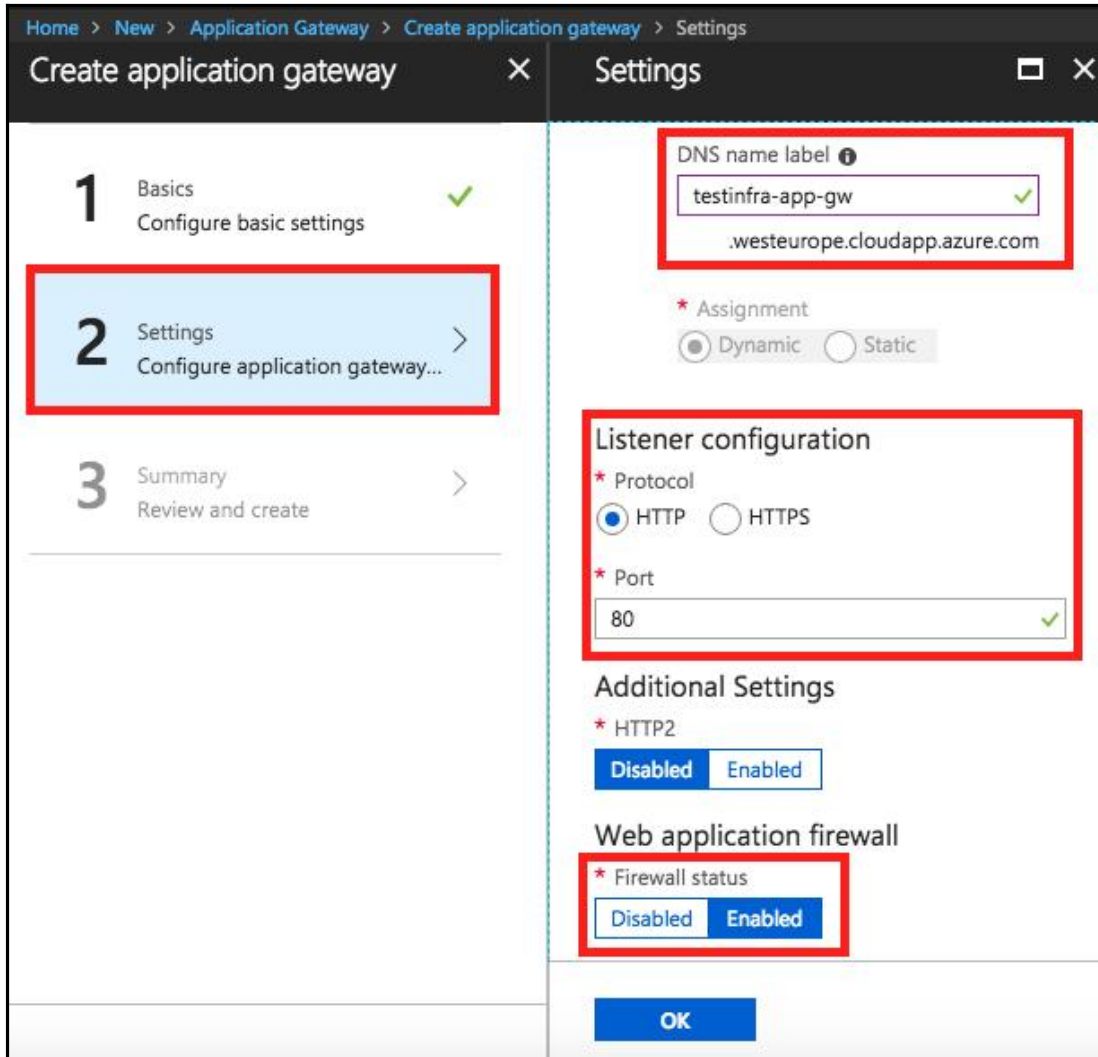
Subnet configuration

- * Virtual network ⓘ
testinfraVNet-1 >
- * Subnet ⓘ
default (10.0.0.0/24) ▾

Frontend IP configuration

- * IP address type
 Public Private
- * Public IP address ⓘ
 Create new Use existing
- testinfra-app-gw-ip
- ^ Configure public IP address
- SKU ⓘ
Basic
- * Idle timeout (minutes) ⓘ

OK



Home > testinfra-app-gw

testinfra-app-gw
Application gateway

Search (Ctrl+/) Save Discard

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS

Configuration
Web application firewall
Backend pools
HTTP settings
Frontend IP configurations
Listeners
Rules

* Firewall status
Enabled Disabled

* Firewall mode
Detection Prevention

To view your detection logs, you must have diagnostics enabled.

* Rule set
OWASP 3.0

Advanced rule configuration ⓘ

Search rules

ENA...	NAME	DESCRIPTION
<input checked="" type="checkbox"/>	▶ General	
<input checked="" type="checkbox"/>	▶ REQUEST-910-IP-REPUTATION	
<input checked="" type="checkbox"/>	▶ REQUEST-911-METHOD-ENFORCEMENT	
<input checked="" type="checkbox"/>	▶ REQUEST-912-DOS-PROTECTION	
<input checked="" type="checkbox"/>	▶ REQUEST-913-SCANNER-DETECTION	

Home > testinfra-app-gw - Backend pools

testinfra-app-gw - Backend pools
Application gateway

Search (Ctrl+/) **+ Add**

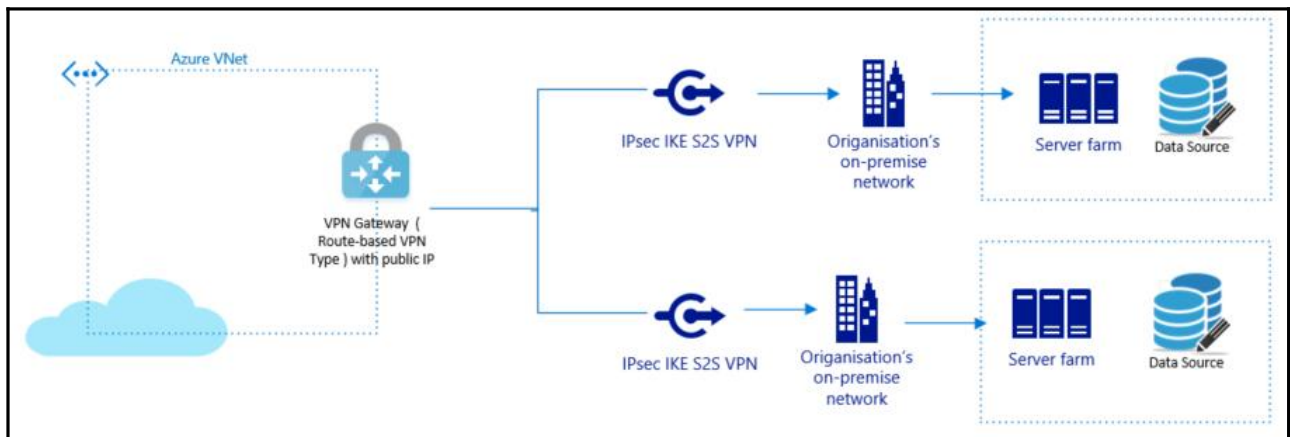
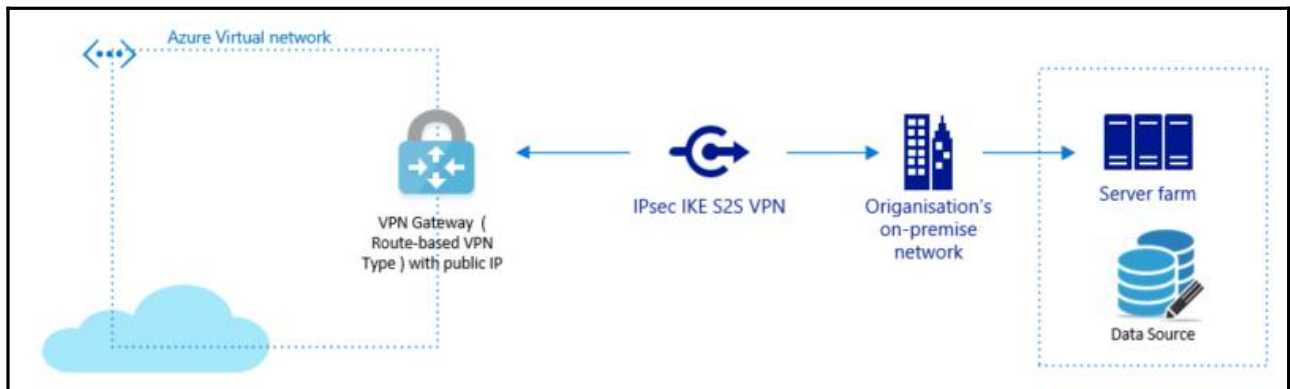
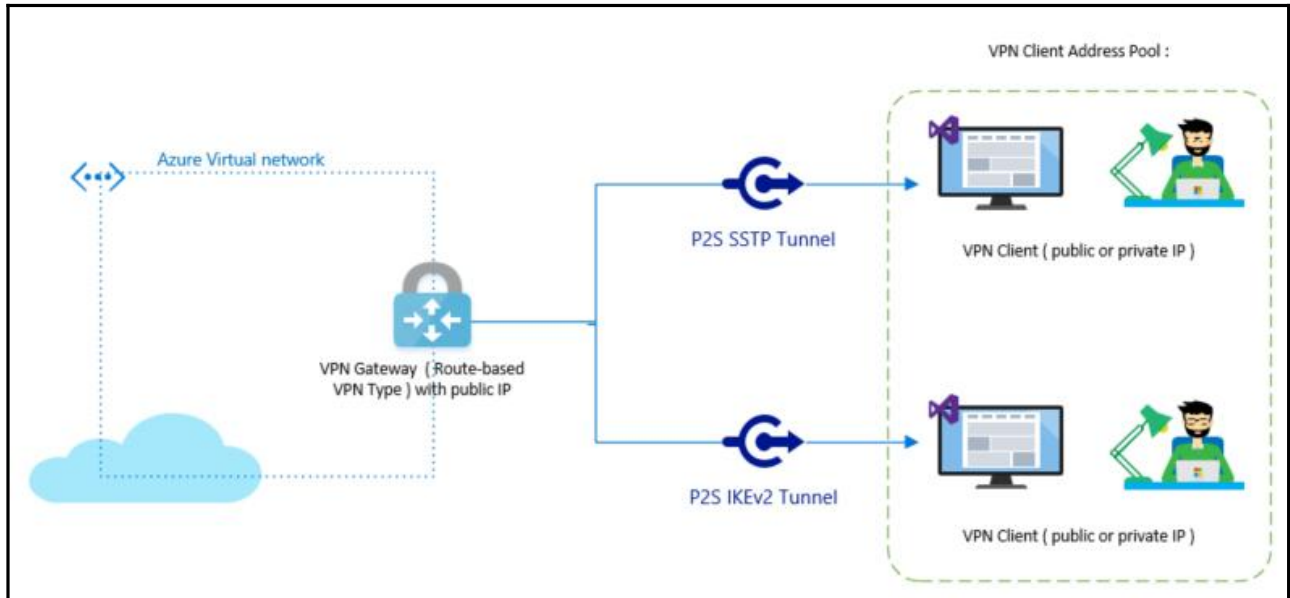
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

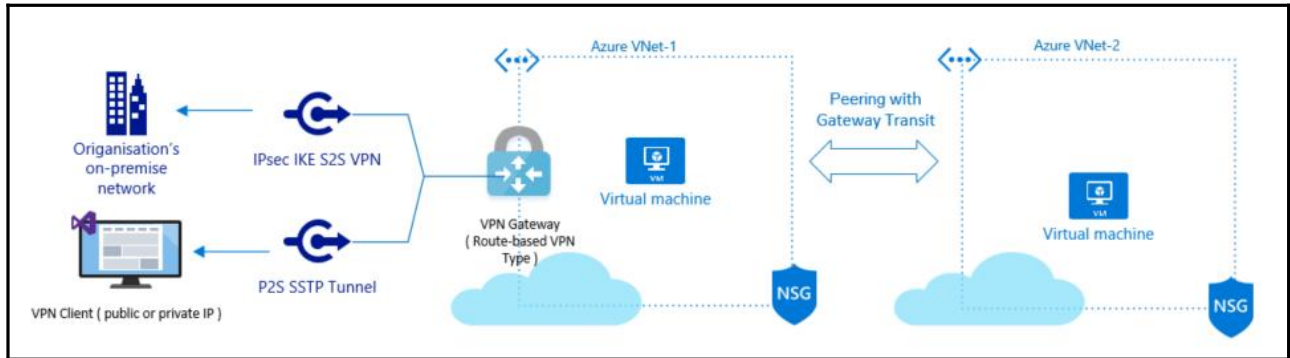
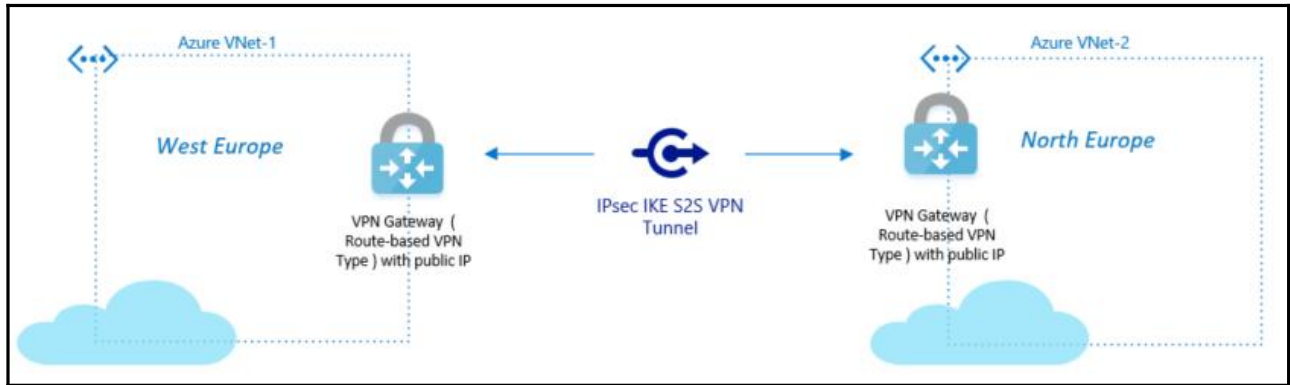
SETTINGS

Configuration
Web application firewall
Backend pools
HTTP settings
Frontend IP configurations
Listeners
Rules

Search backend pools

NAME	RULES ASSOCIATED	TARGETS	
appGatewayBackendPool	1	0	...





testinfraVNet-1 - Peerings
Virtual network

Search (Ctrl+/) << **+ Add**

Tags

Diagnose and solve problems

SETTINGS

- Address space
- Connected devices
- Subnets
- DDoS protection
- Firewall (Preview)
- DNS servers
- Peerings**
- Service endpoints
- Properties

Search peerings

NAME	PEERING STATUS	PEER	GATEWAY TRANSIT
No results.			

Home > Resource groups > testinfra70533rg > testinfraVNet-1 - Peerings > Add peering

Add peering

testinfraVNet-1

* Name
peering-vnet1tovnet2 ✓

Peer details

Virtual network deployment model ⓘ
 Resource manager Classic

I know my resource ID ⓘ

* Subscription ⓘ
Visual Studio Enterprise – MPN

* Virtual network
testinfraVNet-2 (testinfra70533rg)

Configuration

Allow virtual network access ⓘ

Allow forwarded traffic ⓘ

Allow gateway transit ⓘ

Use remote gateways ⓘ

Virtual network 'testinfraVNet-1' has a gateway; peerings created from this virtual network can't enable 'use remote gateways'.

OK

Home > Resource groups > testinfra70533rg > testinfraVNet-2 - Peerings > Add peering

Add peering

testinfraVNet-2

* Name
peering-vnet2tovnet1

Peer details

Virtual network deployment model ⓘ
 Resource manager Classic

I know my resource ID ⓘ

* Subscription ⓘ
Visual Studio Enterprise – MPN

* Virtual network
testinfraVNet-1 (testinfra70533rg)

Configuration

Allow virtual network access ⓘ
 Disabled Enabled

Allow forwarded traffic ⓘ

Allow gateway transit ⓘ

Use remote gateways ⓘ

i To use a remote gateway, the peer virtual network must use the resource manager deployment model, have a gateway, and enable 'allow gateway transit'. Ensure this setting is enabled on your peer before selecting this setting.

OK

Home > Resource groups > testinfra70533rg > testinfraVNet-1 - Peerings

testinfraVNet-1 - Peerings
Virtual network

Search (Ctrl+/) << + Add

Search peerings

NAME	PEERING STATUS	PEER	GATEWAY TRANSIT	
peering-vnet1tovnet2	Connected	testinfraVnet-2	Enabled	...

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

SETTINGS

- Address space
- Connected devices
- Subnets
- DDoS protection
- Firewall (Preview)
- DNS servers
- Peerings**
- Service endpoints
- Properties

Home > Resource groups > testinfra70533rg > testinfraVnet-2 - Peerings

testinfraVnet-2 - Peerings
Virtual network

Search (Ctrl+*/*)

+ Add

Search peerings

NAME	PEERING STATUS	PEER	GATEWAY TRANSIT	
peering-vnet2tovnet1	Connected	testinfraVNet-1	Disabled	...

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Address space

Connected devices

Subnets

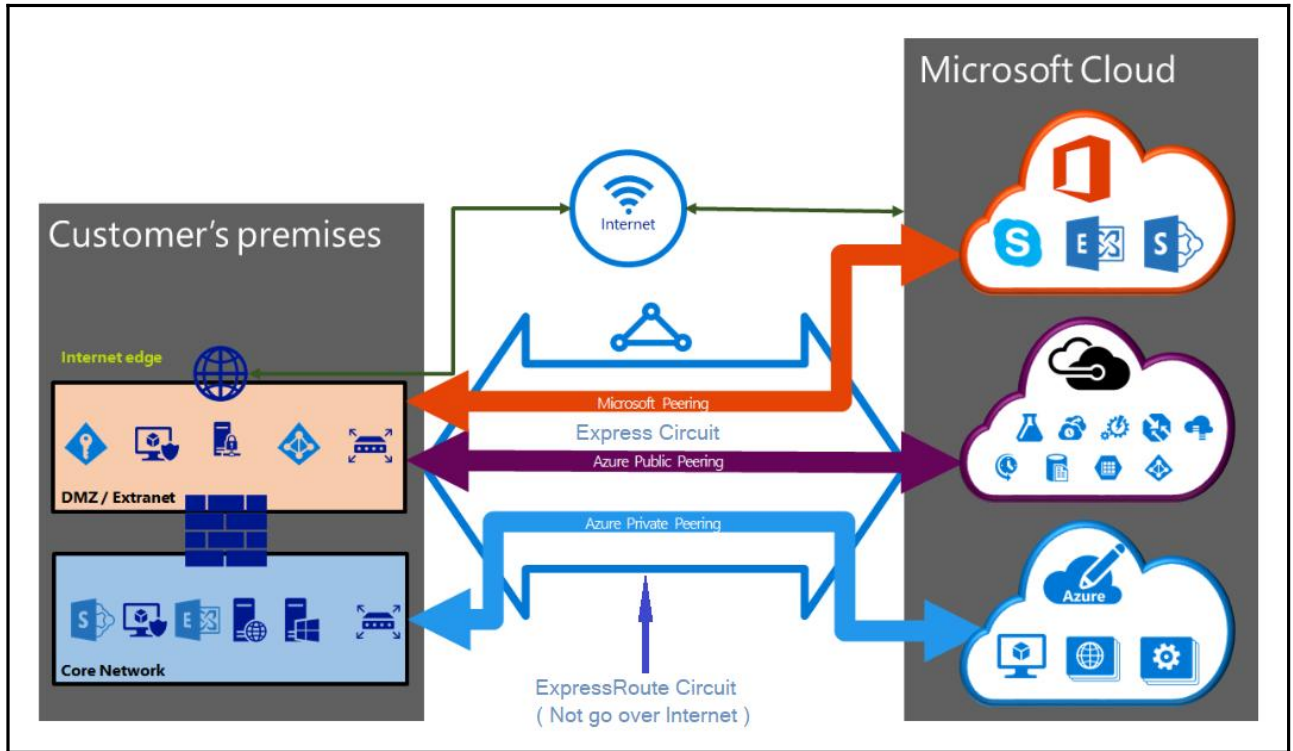
DDoS protection

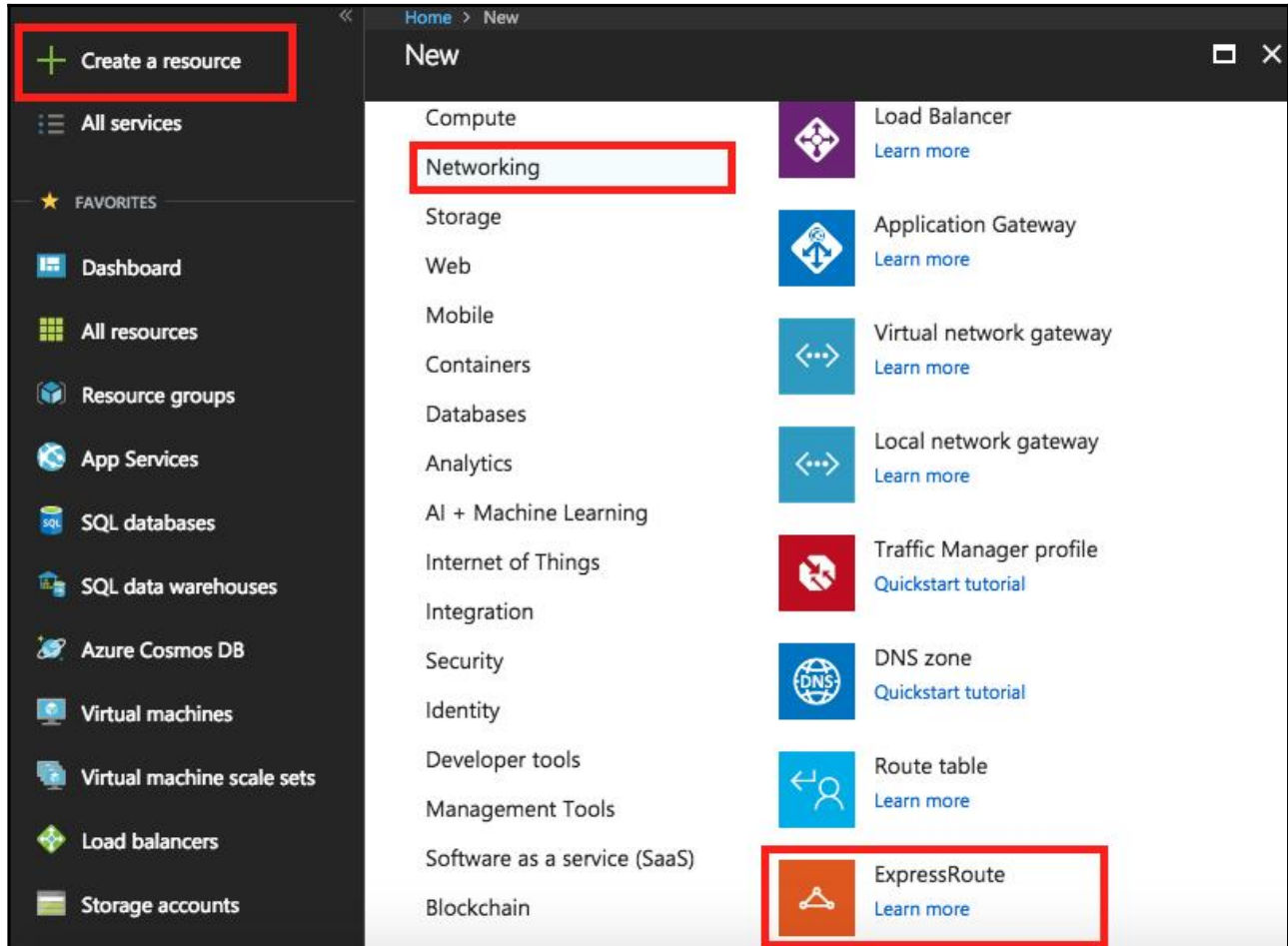
Firewall (Preview)

DNS servers

Peerings

Service endpoints





Home > New > Create ExpressRoute circuit

Create ExpressRoute circuit

Create new or import from classic ⓘ

[Create new](#) [Import](#)

* Circuit name
testinfra-expressroute ✓

* Provider ⓘ
AT&T ▼

* Peering location ⓘ
Silicon Valley ▼

* Bandwidth ⓘ
50Mbps ▼

* SKU ⓘ
[Standard](#) [Premium](#)

* Billing model ⓘ
[Unlimited](#) [Metered](#)

Allow classic operations ⓘ

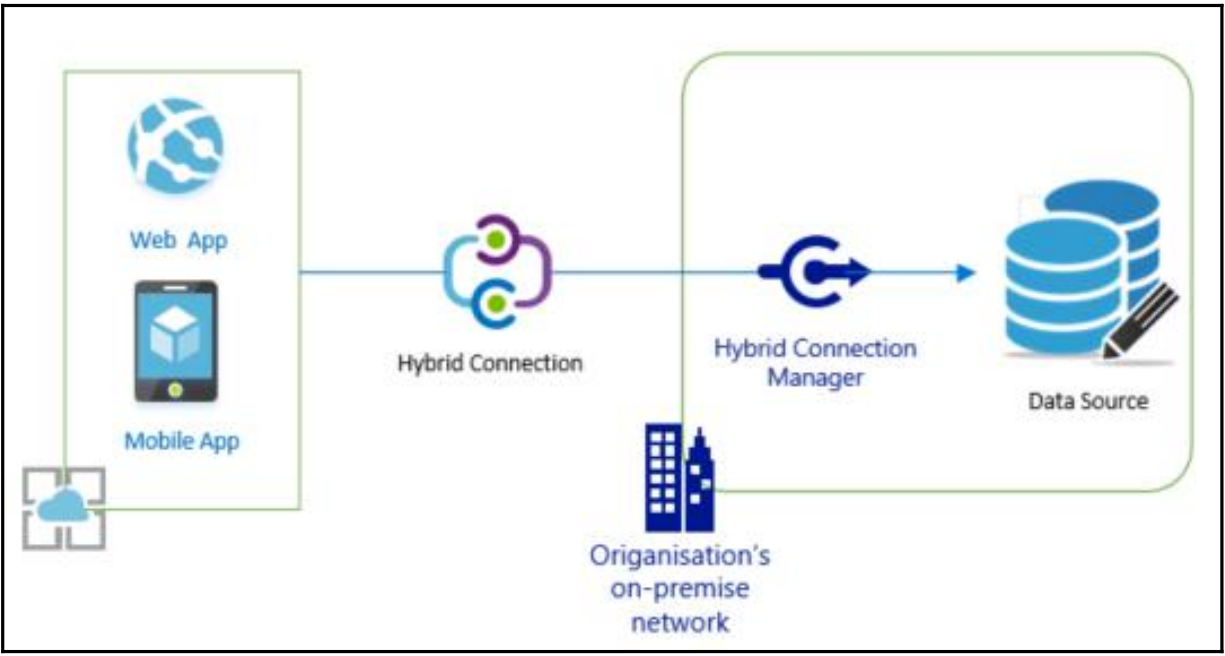
* Subscription
Visual Studio Enterprise – MPN ▼

* Resource group
 Create new Use existing
testinfra70533rg ▼

* Location
West Europe ▼

[Create](#) [Automation options](#)

By clicking the create button, you understand that billing will start immediately upon creation of the ExpressRoute and you agree to accept the charges.



Home > Resource groups > testinfra-webapp > testinfra-webapp - Networking > Hybrid connections

Hybrid connections

testinfra-webapp

Refresh

Hybrid connections

App Service integration with hybrid connections enables your app to access a single TCP endpoint per hybrid connection. Here you can manage the new and classic hybrid connections used by your app. [Learn more](#)

App service plan (pricing tier) : Connections used

testinfraAdvancedPlan (PremiumV2)

Location : West Europe

CONNECTIONS USED: 0

CONNECTIONS QUOTA: 220

Download connection manager

+ Add hybrid connection

NAME	STATUS	ENDPOINT	NAMESPACE
No results			

Home > Resource groups > testinfra-webapp > testinfra-webapp - Networking > Hybrid connections > Add hybrid connection

Add hybrid connection

testinfra-webapp

Create new hybrid connection + Add selected hybrid connection Refresh

To use a hybrid connection with your app select it from the list and click on 'Add selected hybrid connection'. Click on 'Create new hybrid connection' to create a new one.

NAME	HOST	PORT	NAMESPACE
No results			

Create new hybrid connection

* Hybrid connection Name

* Endpoint Host

* Endpoint Port

* Servicebus namespace Create new Select existing

* Location

* Name

OK

Home > Resource groups > testinfra-webapp > testinfra-webapp - Networking > Hybrid connections

Hybrid connections

testinfra-webapp

Refresh

App Service integration with hybrid connections enables your app to access a single TCP endpoint per hybrid connection. Here you can manage the new and classic hybrid connections used by your app. [Learn more](#)

App service plan (pricing tier): **testinfraAdvancedPlan (PremiumV2)** Connections used **1**

Location: West Europe

CONNECTIONS USED: 1

CONNECTIONS QUOTA: 220

[Download connection manager](#)

+ Add hybrid connection

NAME	STATUS	ENDPOINT	NAMESPACE
testinfrahybridhost	Not connected	testinfrahybridhost.com : 1433	testinfra-servicebus

Microsoft Azure

Search resources, services, and docs

Home > New

New

+

Create a resource

All services

FAVORITES

- Dashboard
- All resources
- Resource groups
- App Services
- SQL databases
- SQL data warehouses
- Azure Cosmos DB
- Virtual machines
- Virtual machine scale sets
- Load balancers
- Storage accounts

Azure Marketplace [See all](#)

Featured [See all](#)

- Get started
- Recently created
- Compute
- Networking**
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + Machine Learning
- Internet of Things
- Integration
- Security
- Identity

- Virtual network
[Quickstart tutorial](#)
- Load Balancer
[Learn more](#)
- Application Gateway
[Learn more](#)
- Virtual network gateway
[Learn more](#)
- Local network gateway
[Learn more](#)
- Traffic Manager profile**
[Quickstart tutorial](#)
- DNS zone
[Quickstart tutorial](#)

Home > New > Create Traffic Manager profile

Create Traffic Manager profile

* Name
testinfra70533tm ✓
.trafficmanager.net

Routing method
Performance ▼

* Subscription
Visual Studio Enterprise – MPN ▼

* Resource group
 Create new Use existing
testinfra70533rg ✓

* Resource group location ⓘ
West Europe ▼

Home > testinfra70533tm

testinfra70533tm
Traffic Manager profile

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Configuration

Real user measurements

Traffic view

Endpoints

Properties

Locks

Enable profile Disable profile Refresh Move Delete profile

Resource group (change)
testinfra70533rg

Status
Enabled

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

Tags (change)

Click here to add tags

DNS name
http://testinfra70533tm.trafficmanager.net

Monitor status
Degraded

Routing method
Performance

Search endpoints

NAME	STATUS	MONITOR STATUS	TYPE	LOCATION
testinfra-webapp-ep	Enabled	Stopped	Azure endpoint	North Europe
testinfra-pubip-ep	Enabled	Degraded	Azure endpoint	West Europe

Home > testinfra70533tm - Endpoints

testinfra70533tm - Endpoints
Traffic Manager profile

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Configuration

Real user measurements

Traffic view

Endpoints

Properties

Locks

+ Add Refresh

Search endpoints

NAME	STATUS	MONITOR STATUS	TYPE	LOCATION
testinfra-webapp-ep	Enabled	Stopped	Azure endpoint	North Europe
testinfra-pubip-ep	Enabled	Degraded	Azure endpoint	West Europe

Add endpoint

testinfra70533tm

Type: Azure endpoint

Name: test-cloudbot-ep

Target resource type: App Service

Target resource: Choose an app service

Add as disabled

OK

Resource

infra70533StartApp CloudmelonGitHubRG	North Europe
[Placeholder]	West Europe
[Placeholder]	West Europe
[Placeholder]	West Europe
[Placeholder]	West Europe
test1stFunctionApp TestDataRG	West Europe

testinfra70533tm

Traffic Manager profile

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

SETTINGS

- Configuration
- Real user measurements
- Traffic view
- Endpoints
- Properties
- Locks

Enable profile | Disable profile | Refresh | Move | Delete profile

Resource group: testinfra70533rg

Status: Enabled

Subscription: Visual Studio Enterprise – MPN

Subscription ID: f38e1d90-3a11-460c-a4d2-186e1660d993

Tags: [Click here to add tags](#)

DNS name: http://testinfra70533tm.trafficmanager.net

Monitor status: Degraded

Routing method: Performance

NAME	STATUS	MONITOR STATUS	TYPE	LOCATION
testinfra-webapp-ep	Enabled	Stopped	Azure endpoint	North Europe
testinfra-pubip-ep	Enabled	Degraded	Azure endpoint	West Europe

Home > testinfra70533tm - Configuration

testinfra70533tm - Configuration

Traffic Manager profile

Search (Ctrl+/) Save Discard

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

SETTINGS

- Configuration**
- Real user measurements
- Traffic view
- Endpoints
- Properties
- Locks

Routing method ⓘ
Performance

* DNS time to live (TTL) ⓘ
60 seconds

Endpoint monitor settings ⓘ

Protocol
HTTP

* Port
80

* Path
/

Fast endpoint failover settings

Probing interval ⓘ
30

* Tolerated number of failures ⓘ
3

* Probe timeout ⓘ

Home > New > Create Kubernetes cluster

Create Kubernetes cluster

Basics Authentication **Networking** Monitoring Tags Review + create

You can enable HTTP application routing and choose between two networking options: "Basic" or "Advanced".

- **"Basic"** networking creates a new VNet for your cluster using default values.
- **"Advanced"** networking allows clusters to use a new or existing VNet with customizable addresses. Application pods are connected directly to the VNet, which allows for native integration with VNet features.

[Learn more about networking in Azure Kubernetes Service](#)

HTTP application routing Yes No

Network configuration Basic Advanced

* Virtual network [Create new](#)

* Subnet [Create new](#)

* Kubernetes service address range ✓

* Kubernetes DNS service IP address ✓

[Review + create](#) [« Previous: Authentication](#) [Next: Monitoring »](#) [Download a template for automation](#)

Home > Resource groups > testinfra-webapp > testinfra-webapp - Networking

testinfra-webapp - Networking

App Service

Search (Ctrl+/)

- Custom domains
- SSL settings
- Networking**
- Scale up (App Service plan)
- Scale out (App Service plan)
- WebJobs
- Push
- MySQL In App
- Properties
- Locks
- Automation script

APP SERVICE PLAN

VNET Integration

Not Configured

Securely access resources available in or through your Azure VNET

[Learn More](#)

[Setup](#)

Hybrid connections

Securely access applications in private networks

[Learn More](#)

[Configure your hybrid connection endpoints](#)

Azure CDN

Secure, reliable content delivery with broad global reach and rich feature set

[Learn More](#)

[Configure Azure CDN for your app](#)

IP Restrictions

Define and manage rules that control access to your app for range of IP addresses.

[Learn More](#)

Home > Resource groups > testinfra-webapp > testinfra-webapp - Networking > Virtual Network > Create New Virtual Network

Virtual Network

+ Create New Virtual Network

- melonDLVM
West Europe
- melonRG-vnet
West Europe
- dkahlrlxzubowvnet
West Europe

Create New Virtual Network

* Virtual Network
infra-integrated-VNet

i IP address blocks need to be specified in CIDR notation which for example looks like 10.0.0.0/8. Click this box to learn more about Azure Virtual Networks.

* Virtual Network Address Block
10.0.0.0/8
Range: 10.0.0.0 - 10.255.255.255

* Subnet Name
default

* Subnet Address Block
10.1.0.0/16
Range: 10.1.0.0 - 10.1.255.255

* Gateway Subnet Address Block
10.2.0.0/16
Range: 10.2.0.0 - 10.2.255.255

OK

Home > Resource groups > testinfra-webapp > testinfra-webapp - Networking

testinfra-webapp - Networking

App Service

Search (Ctrl+)

SETTINGS

- Application settings
- Authentication / Authorization
- Application Insights
- Managed service identity
- Backups
- Custom domains
- SSL settings
- Networking**
- Scale up (App Service plan)
- Scale out (App Service plan)
- WebJobs

VNET Integration

Connected to infra-integrated-VNet

Securely access resources available in or through your Azure VNET
[Learn More](#)

[Click here to configure](#)

Hybrid connections

Securely access applications in private networks
[Learn More](#)

[Configure your hybrid connection endpoints](#)

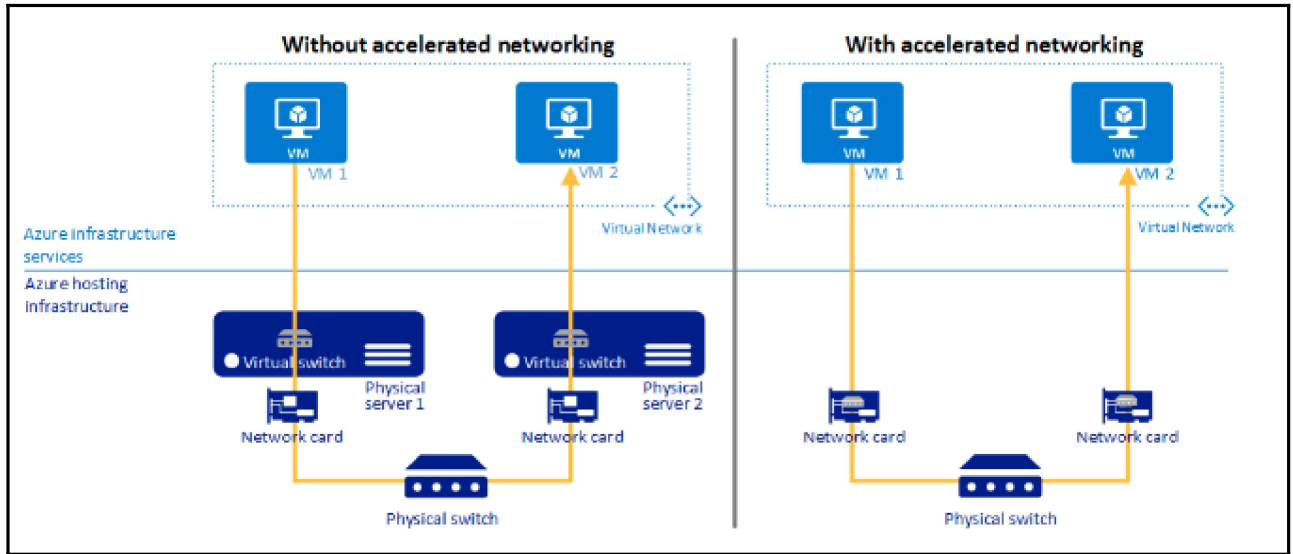
Azure CDN

Secure, reliable content delivery with broad global reach and rich feature set
[Learn More](#)

[Configure Azure CDN for your app](#)

IP Restrictions

Define and manage rules that control access to your app for range of IP addresses.
[Learn More](#)



Home > New > Create virtual machine > Settings

Create virtual machine

1 Basics Done ✓

2 Size Done ✓

3 Settings Configure optional features >

4 Summary Ubuntu Server 18.04 LTS >

Settings

- * Virtual network ⓘ (new) testinfra70533rg-vnet >
- * Subnet ⓘ default (192.168.2.0/24) >
- * Public IP address ⓘ (new) testvm-ip >

Network Security Group ⓘ

Basic Advanced

* Select public inbound ports ⓘ

0 selected ▾

Accelerated networking ⓘ

Disabled Enabled

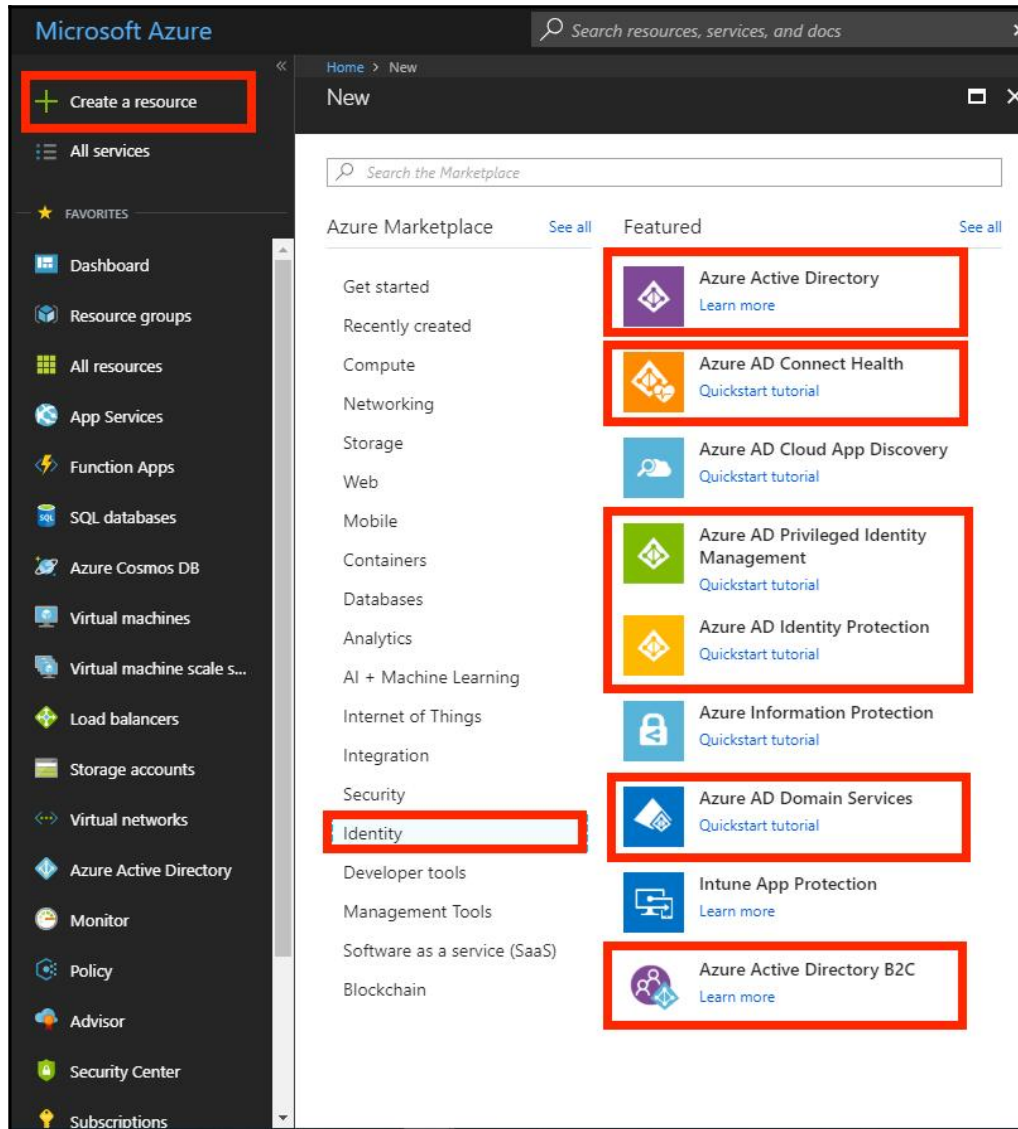
Extensions

Extensions ⓘ >

No extensions

OK

Chapter 07: Managing Azure Identities



Azure Active Directory admin center

Dashboard | + New dashboard | Edit | Full screen | Clone | Delete

FAVORITES

- Dashboard
- Azure Active Directory
- Users
- Enterprise applications

Welcome to the Azure AD admin center

Azure AD helps you protect your business and empower your users.

Learn more about Azure AD

Quick tasks

- Add a user
- Add a group
- Find a user
- Find a group
- Find an enterprise app

Azure AD Free | Try Azure AD Premium

Users and groups

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

Azure portal
portal.azure.com

Users Sign-ins
SIGN-INS FOR 'ALL USERS' BETWEEN 7/10/2018 AND 8/9/2018.

You don't have access to this data. Please contact your global administrator to get access.

1 AM

What's new

General Availability of Azure AD Premium P2

Azure AD Connect

Sync not enabled

Audit Logs

View activity


Home > New > Create directory

Create directory

* Organization name ⓘ
testinfraorganisation ✓

* Initial domain name ⓘ
testinfraorganisation
.onmicrosoft.com

Country or region ⓘ
France ▾

 Directory creation will take about one minute.

Create

Directory + subscription

Current directory: expertime365.onmicrosoft.com

[Learn about directories and subscriptions](#)

Switch directory

Set your default directory

test-azuread-organisation (testinfraorganisation.o... ▾

Favorites All Directories A to Z ↑↓

test-azuread-organisation
testinfraorganisation.onmicrosoft.com
b6c8f2be-dec6-4981-a2ad-654cade911a3

test-organisation
testinfraorganisation.onmicrosoft.com
616404f2-0597-454b-86d7-18d6266d342c

Azure Active Directory admin center

Home > test-organisation - Overview

test-organisation - Overview

Azure Active Directory

Search (Ctrl+/)

Switch directory Delete directory

testinfraorganisation.onmicrosoft.com

test-organisation

Azure AD for Office 365

Sign-ins

What's new in Azure AD

Stay up to date with the latest release notes and blog posts.

36 entries since April 15, 2018. [View archive](#)

MANAGE

- Users
- Groups
- Roles and administrators
- Enterprise applications
- Devices
- App registrations
- Application proxy
- Licenses

Azure Active Directory admin center

Home > Users - All users

Users - All users

Azure Active Directory

New user New guest user Reset password Delete user Multi-Factor Authentication Refresh Columns

Name Search by name or email Show All users

NAME	USER NAME	USER TYPE	SOURCE
AK	o.onmicrosoft.com	Member	Azure Active Directory
AB	smco.onmicrosoft.c...	Member	Azure Active Directory
AE	cssmco.onmicrosof...	Member	Azure Active Directory
AS	mco.onmicrosoft.com	Member	Azure Active Directory
AK	o.onmicrosoft.com	Member	Azure Active Directory
AD	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AO	o.onmicrosoft.com	Member	Azure Active Directory
AM	mco.onmicrosoft.co...	Member	Azure Active Directory
AB	cssmco.onmicrosof...	Member	Azure Active Directory
AE	i@cssmco.onmicros...	Member	Azure Active Directory

ACTIVITY

- Sign-ins
- Audit logs

TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

Home > Users - All users > User > Directory role

User

test-organisation

* Name ⓘ
Jackson ✓

* User name ⓘ
[Redacted]

Profile ⓘ
Configured >

Properties ⓘ
Default >

Groups ⓘ
0 groups selected >

Directory role
User >

Directory role

Directory role ⓘ

User
 Global administrator
 Limited administrator

Users can access assigned resources but cannot manage most directory resources.

[Learn more about directory roles](#)

Azure Active Directory admin center

Home > Groups - All groups

Groups - All groups
- Azure Active Directory

All services

FAVORITES

- Dashboard
- Azure Active Directory
- Users
- Enterprise applications

Settings

- General
- Expiration

Activity

- Audit logs

TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

+ New group Refresh Columns

Name
Search groups

NAME	GROUP TYPE	MEMBERSHIP TYPE
AC access-nsg-appgw-afi-contributor	Security	Assigned ...
AC access-rg-infra-noprd-reader	Security	Assigned ...
AC access-rg-infra-prd-reader	Security	Assigned ...
AC access-smz-test	Security	Assigned ...
AC access-support-exploit	Security	Assigned ...
AC access-support-k8s	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...
AC	Security	Assigned ...

Home > test-organisation > Groups - All groups > Group > Select members

Group

* Group type
Security

* Group name ⓘ
testgroup

Group description ⓘ
Enter a description for the group

* Membership type ⓘ
Assigned

Members ⓘ
0 members selected

Create

Select members

Select member or invite an external user ⓘ
Search by name or email address

MQ QIN

Selected members:
No members selected

Select

Azure Active Directory admin center

Home > Users - All users

Users - All users

test-azuread-organisation - Azure Active Directory

+ New user + New guest user Reset password Delete user Multi-Factor Authentication

Name
Search by name or email Show
All users

NAME	USER NAME	USER TYPE	SOURCE
MQ		Member	External Azure Active Direct...

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 license other users. Before you begin, take a look at the [multi-factor auth deployment guide](#).

View: **bulk update**

<input checked="" type="checkbox"/>	DISPLAY NAME ^	USER NAME	MULTI-FACTOR AUTH STATUS	
<input type="checkbox"/>			Disabled	Select a user

multi-factor authentication

users **service settings**

app passwords

- Allow users to create app passwords to sign in to non-browser apps
- Do not allow users to create app passwords to sign in to non-browser apps

verification options

- Methods available to users:
- Call to phone
 - Text message to phone
 - Notification through mobile app
 - Verification code from mobile app or hardware token

remember multi-factor authentication

- Allow users to remember multi-factor authentication on devices they trust
Days before a device must re-authenticate (1-60):

save



Excel File Edit View Insert Format Tools Data Window Help

BulkUpdateMFASampleFile

Home Insert Page Layout Formulas Data Review View

Calibri (Body) 12 A A

Wrap Text

General

Paste

B I U

Merge & Center

L29

	A	B	C	D	E	F	G	H	I	J
1	Username	MFA Status								
2	test1@infraorganisation.com	Enabled								
3	test2@infraorganisation.com	Disabled								
4	test3@infraorganisation.com	Disabled								
5	test4@infraorganisation.com	Enabled								
6	test5@infraorganisation.com	Enabled								
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										

BulkUpdateMFASampleFile +

Azure Active Directory admin center

Home > > Devices - All devices

Devices - All devices

MANAGE

- All devices
- Device settings

ACTIVITY

- Audit logs

TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

Columns

Search by name or device ID

15 items (15 Devices)

NAME	ENABLED	OS	VERSION	JOIN TYPE	OWNER	MDM	COMPLIANT	REGISTERED	ACTIVITY
	Yes	Windows	Windows 10	Azure AD register...	None	None	N/A	N/A	9/4/2015 3... ..
	Yes	Windows	Windows 10	Azure AD register...	None	None	N/A	8/3/2016 7:48:10 PM	8/3/2016 7... ..
	Yes	Windows	10.0.16299.0	Azure AD register...		None	N/A	6/14/2018 5:36:48 PM	7/28/2018
	Yes	Windows	10.0.16299.0	Azure AD register...		None	N/A	12/18/2017 11:36:19 AM	7/31/2018
	Yes	Windows	10.0.15063.0	Azure AD register...		None	N/A	9/21/2017 1:08:21 PM	8/4/2018 6... ..
	Yes	Windows	10.0.15063.0	Azure AD register...		None	N/A	1/20/2018 2:37:44 AM	5/12/2018
	Yes	Windows	Windows 10	Azure AD register...		None	N/A	11/29/2016 9:49:49 PM	4/28/2018
	Yes	Windows	10.0.15063.0	Azure AD register...		None	N/A	11/9/2017 10:30:18 AM	5/17/2018
	Yes	Windows	10.0.16299.0	Azure AD register...		None	N/A	12/13/2017 11:07:35 AM	5/2/2018 8... ..
	Yes	Windows	10.0.17134.0	Azure AD register...		None	N/A	6/13/2018 11:22:23 AM	8/7/2018 1... ..
	Yes	Windows	Windows 10	Azure AD register...		None	N/A	5/11/2016 9:26:28 AM	5/11/2016
	Yes	Windows	10.0.15063.0	Azure AD register...		None	N/A	11/2/2017 3:57:20 PM	8/6/2018 9... ..
	Yes	Windows	10.0.16299.0	Azure AD register...		None	N/A	1/29/2018 3:26:28 PM	7/31/2018

Home > test-organisation - Custom domain names > Custom domain name

test-organisation - Custom domain names

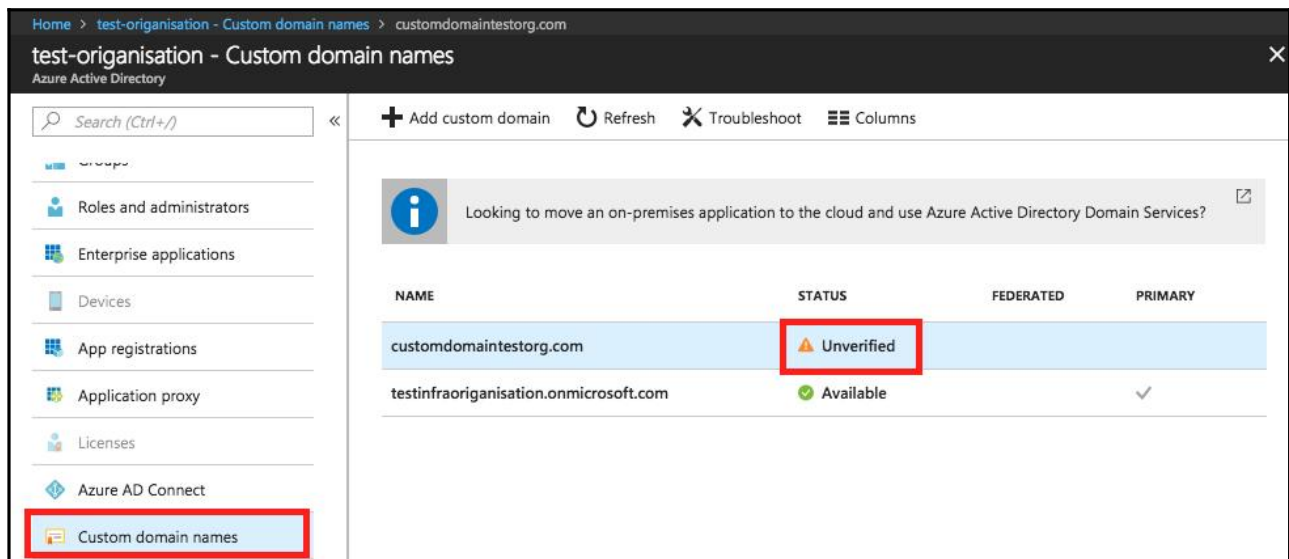
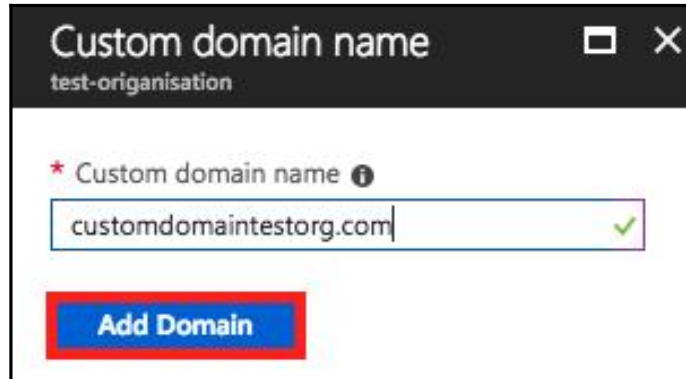
Azure Active Directory

Search (Ctrl+/)

+ Add custom domain Refresh Troubleshoot Columns

Looking to move an on-premises application to the cloud and use Azure Active Directory Domain Services?

NAME	STATUS	FEDERATED	PRIMARY
testinfraorganisation.onmicrosoft.com	Available		✓



customdomaintestorg.com

Custom domain name

 Delete



To use customdomaintestorg.com with your Azure AD, create a new TXT record with your domain name registrar using the info below.

RECORD TYPE

TXT

MX

ALIAS OR HOST NAME

@



DESTINATION OR POINTS TO ADDRESS

MS=ms37589618



TTL

3600

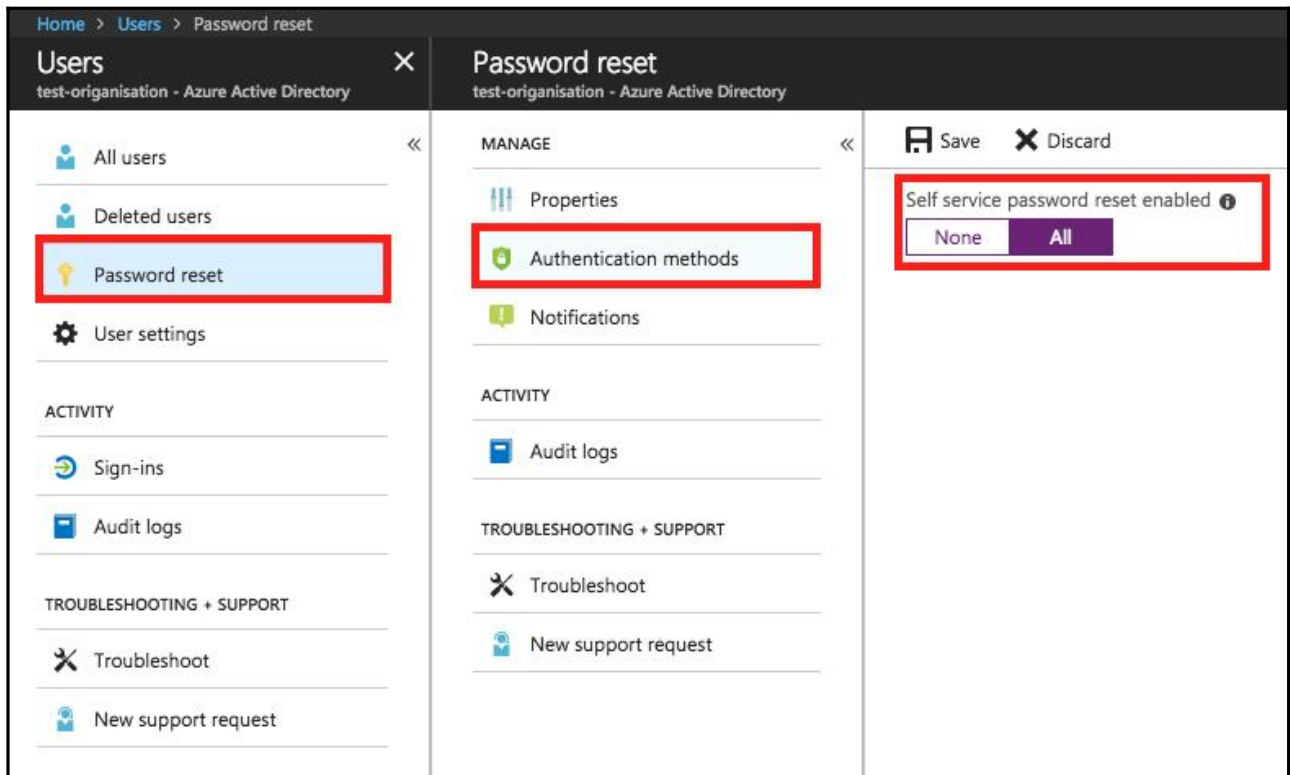
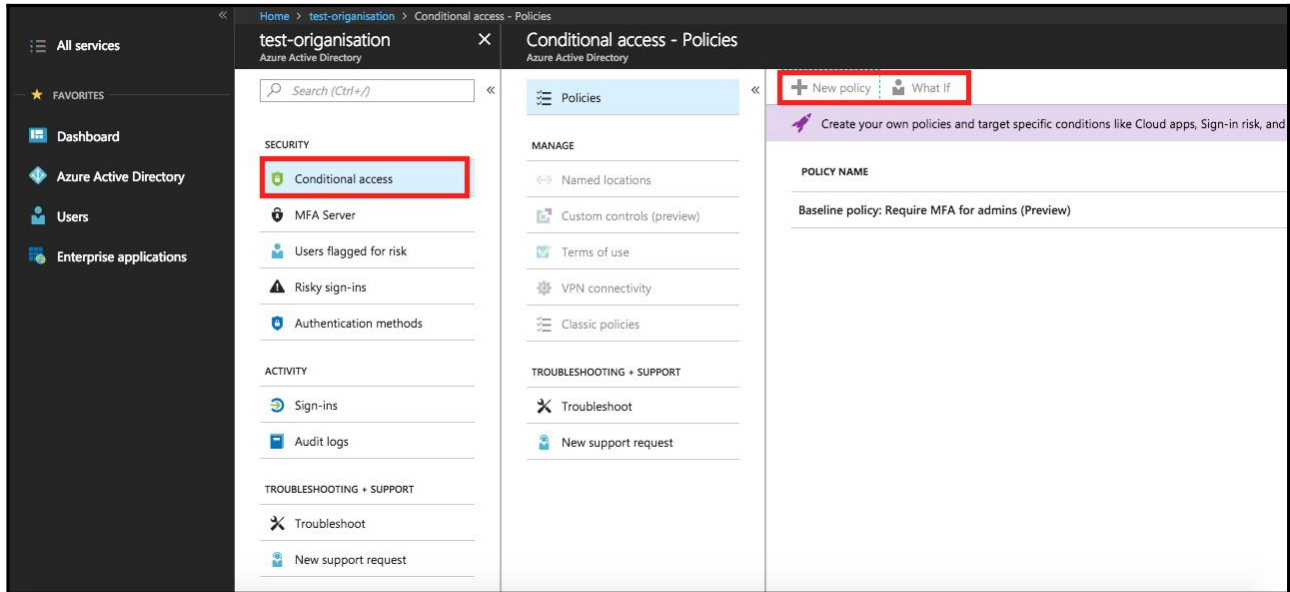


[Share these settings via email](#)

Verify domain

Verification will not succeed until you have configured your domain with your registrar as described above.

Verify



Home > Users > Password reset - Notifications

Password reset - Notifications

test-organisation - Azure Active Directory

MANAGE << Save Discard

- Properties
- Authentication methods
- Notifications**

ACTIVITY

- Audit logs

TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

Notify users on password resets? ⓘ

Yes No

Notify all admins when other admins reset their password? ⓘ

Yes No

Home > New > Create new B2C Tenant or Link to existing Tenant

Create new B2C Tenant or Link to existing Tenant


- Create a new Azure AD B2C Tenant ⓘ**
- Link an existing Azure AD B2C Tenant to my Azure subscription ⓘ

Azure AD B2C Create Tenant

* Organization name ⓘ
test-organisation ✓

* Initial domain name ⓘ
testinfraorganisation
.onmicrosoft.com

Country or region ⓘ
France ▾

 Directory creation will take about one minute.

Create

Home > New > Create new B2C Tenant or Link to existing Tenant > Azure AD B2C Resource

Create new B2C Tenant or Link to existing Tenant

Create a new Azure AD B2C Tenant ⓘ

Link an existing Azure AD B2C Tenant to my Azure subscription ⓘ

Azure AD B2C Resource

- * Azure AD B2C Tenant ⓘ
testinfraorganisation.onmicrosoft.com
- Azure AD B2C Resource name
testinfraorganisation.onmicrosoft.com
- * Subscription
Visual Studio Enterprise – MPN
- * Resource group
 Create new Use existing
testinfra70533-rg
- Resource group location
North Europe

Create

testinfraorganisation.onmicrosoft.com
B2C Tenant

Search (Ctrl+/) << Delete → Move

Essentials ^

- Resource group (change)
testinfra70533-rg
- Location
Europe
- Subscription name (change)
Visual Studio Enterprise – MPN
- Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

Azure AD B2C Tenant
testinfraorganisation.onmicrosoft.com
Tenant ID
616404f2-0597-454b-86d7-18d6266d342c

Azure AD B2C Settings ⓘ
testinfraorganisation.....

Home > Azure AD B2C

Azure AD B2C

testinfraorganisation.onmicrosoft.com

Search (Ctrl+/)

Overview

MANAGE

- Applications
- Identity providers
- User attributes
- Users
- Audit logs

POLICIES

- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- Sign-up policies

Troubleshoot

Domain name
testinfraorganisation.onmicrosoft.com

Metered
Yes

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

Tenant type
Production-scale tenant

Subscription status
Registered

Resource name
testinfraorganisation.onmicrosoft.com

Welcome to Azure AD B2C.

Quick Start

Identity Experience Framework - PREVIEW

Azure Active Directory admin center

Home > Users - All users > User

Users - All users

test-azuread-organisation - Azure Active Directory

All services

FAVORITES

- Dashboard
- Azure Active Directory
- Users
- Enterprise applications

All users

Deleted users

Password reset

User settings

ACTIVITY

- Sign-ins
- Audit logs


TROUBLESHOOTING + SUPPORT

- Troubleshoot
- New support request

+ New user + New guest user Reset password Delete user Multi-Factor Authentication ... More

Name
Search by name or email

Show
All users

NAME	USER NAME	USER TYPE	SOURCE
 [Redacted]	[Redacted]	Member	External Azure Active Direct...

Home > Users - All users

Users - All users

test-organisation - Azure Active Directory

All users << + New user + **New guest user** Reset password Delete user Multi-Factor Authentication ... More

Name Show

NAME	USER NAME	USER TYPE	SOURCE
		Member	External Azure Active Direct...

ACTIVITY

- Sign-ins
- Audit logs



TROUBLESHOOTING + SUPPORT


- Troubleshoot
- New support request


Home > Users - All users > New Guest User

New Guest User

test-organisation

 This user will be added as a Guest. Click here to learn more. 


* Email address 



Include a personal message with the invitation

Hi Jackson,

I would like to invite you to join our organization.



Invite

Home > test-organisation - App registrations



test-organisation - App registrations

Azure Active Directory

Search (Ctrl+/) << **+ New application registration** Endpoints Troubleshoot

To view and manage your registrations for converged applications, please visit the [Microsoft Application Console](#).

Search by name or AppID All apps

DISPLAY NAME	APPLICATION TYPE	APPLICATION ID
 b2c-extensions-app. Do not modify. Used by AAD	Web app / API	d986b4d0-5fe7-47b4-9369-400abc1d74d5
 testapp1	Web app / API	684e77c8-63f9-475e-9bf4-dab63888117b

MANAGE

- Overview
- Getting started
- Users
- Groups
- Roles and administrators
- Enterprise applications
- Devices
- App registrations**
- Application proxy
- Licenses
- Azure AD Connect

Home > test-organisation - App registrations > Create

Create

* Name ⓘ
testinfraapp ✓

Application type ⓘ
Web app / API ▾

* Sign-on URL ⓘ
https://cloud-melon.com ✓

Create

Home > test-organisation - App registrations > testinfraapp

testinfraapp

Registered app

⚙ Settings ✎ Manifest 🗑 Delete

Display name testinfraapp	Application ID 74cfd682-64f8-4a80-8348-96decd9b2bfb
Application type Web app / API	Object ID 35aa519e-69de-46e7-8b5b-8f4d2c4a1e25
Home page https://cloud-melon.com	Managed application in local directory testinfraapp

⤴

Home > Azure AD B2C - Identity providers > Add identity provider > Select social identity provider

Add identity provider

* Name ⓘ

* Identity provider type >
Google

* Set up this identity provider >
Required

Create

Select social identity provider

SOCIAL IDENTITY PROVIDERS

Microsoft Account

Google

Facebook

LinkedIn

Amazon

Weibo (Preview)

QQ (Preview)

WeChat (Preview)

OK

Home > test-organisation - App registrations > testinfraapp > Settings > Keys

Settings

Filter settings

- GENERAL
 - Properties >
 - Reply URLs >
 - Owners >
- API ACCESS
 - Required permissions >
 - Keys >**
- TROUBLESHOOTING + SUPPORT
 - Troubleshoot >
 - New support request >

Keys

Save Discard Upload Public Key

Copy the key value. You won't be able to retrieve after you leave this blade.

Passwords

DESCRIPTION	EXPIRES	VALUE
testkeys	12/31/2299	QqauWJs0btwHukQ4NMfQkTu976f2iPEvbwze5mU3NKs=
testinfra	Never expires	Value will be displayed on save
Key description	Duration	Value will be displayed on save

Public Keys

THUMBPRINT	START DATE	EXPIRES
No results.		

Home > test-organisation - App registrations > testinfraapp > Settings > Keys

Settings

Filter settings

- GENERAL
 - Properties >
 - Reply URLs >
 - Owners >
- API ACCESS
 - Required permissions >
 - Keys >**
- TROUBLESHOOTING + SUPPORT
 - Troubleshoot >
 - New support request >

Keys

Save Discard Upload Public Key

Copy the key value. You won't be able to retrieve after you leave this blade.

Passwords

DESCRIPTION	EXPIRES	VALUE
testkeys	12/31/2299	Hidden
testinfra	12/31/2299	20uyi/Z71wcrXg92hafsakq5mUqQ6mKSgn0bjAvpQzU=
Key description	Duration	Value will be displayed on save

Public Keys

THUMBPRINT	START DATE	EXPIRES
No results.		

Home > Azure AD B2C - Identity providers > Add identity provider > Set up the social identity provider

Add identity provider

* Name ⓘ
testinfragoogle ✓

* Identity provider type
Google >

* Set up this identity provider
Required >

Create

Set up the social identity pro...

* Client ID ⓘ
74cfd682-64f8-4a80-8348-96decd9b2bfb ✓

* Client secret ⓘ
20uyi/Z71wcrXg92hafsakq5mUqQ6mKSg... ✓

OK

Home > Azure AD B2C - Identity providers

Azure AD B2C - Identity providers

testinfraorganisation.onmicrosoft.com

Search (Ctrl+/) << **+ Add** Save Discard

Overview

MANAGE

- Applications
- Identity providers**
- User attributes
- Users
- Audit logs

POLICIES

- Sign-up or sign-in policies
- Profile editing policies
- Password reset policies
- Sign-up policies

Local accounts ⓘ

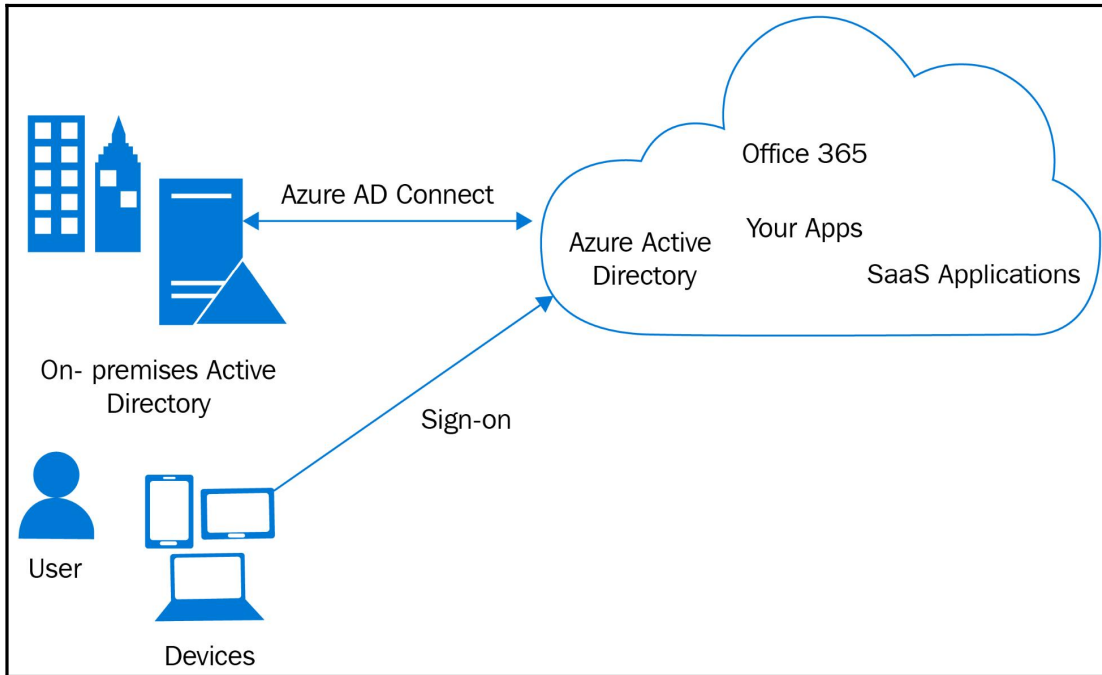
Email

Social identity providers ⓘ

- testinfragoogle**
Google

Custom identity providers (Preview)

No identity providers are defined in the tenant



Home > test-organisation - Azure AD Connect

test-organisation - Azure AD Connect

Azure Active Directory

Search (Ctrl+/) Troubleshoot Refresh

- Roles and administrators
- Enterprise applications
- Devices
- App registrations
- Application proxy
- Licenses
- Azure AD Connect**
- Custom domain names
- Mobility (MDM and MAM)
- Password reset
- Company branding
- User settings

Use Azure AD Connect to integrate your Azure AD with your Windows Server AD or another directory on your network.

SYNC STATUS

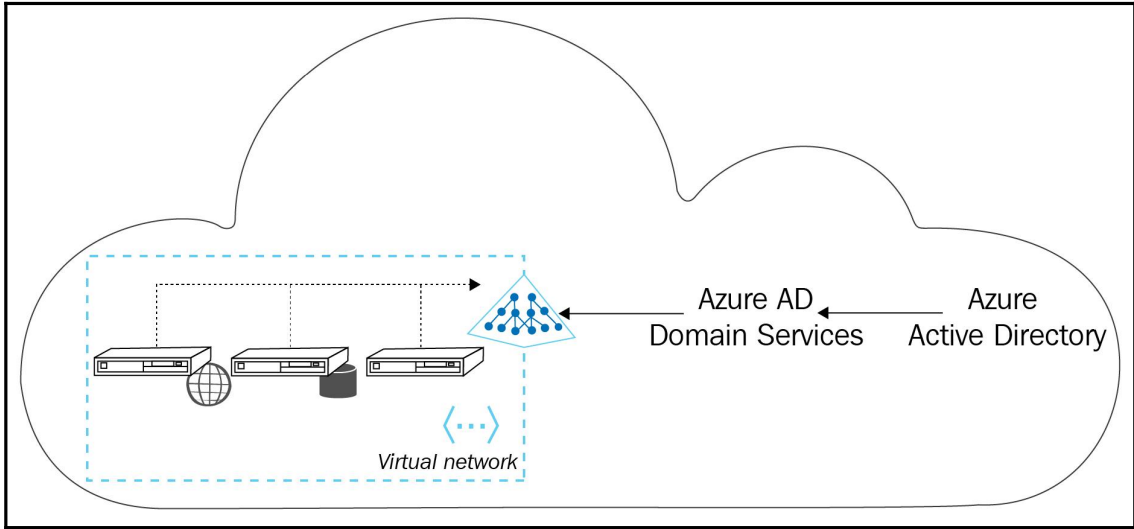
Not Installed	Download Azure AD Connect
Last Sync	Sync has never run
Password Hash Sync	Disabled

USER SIGN-IN

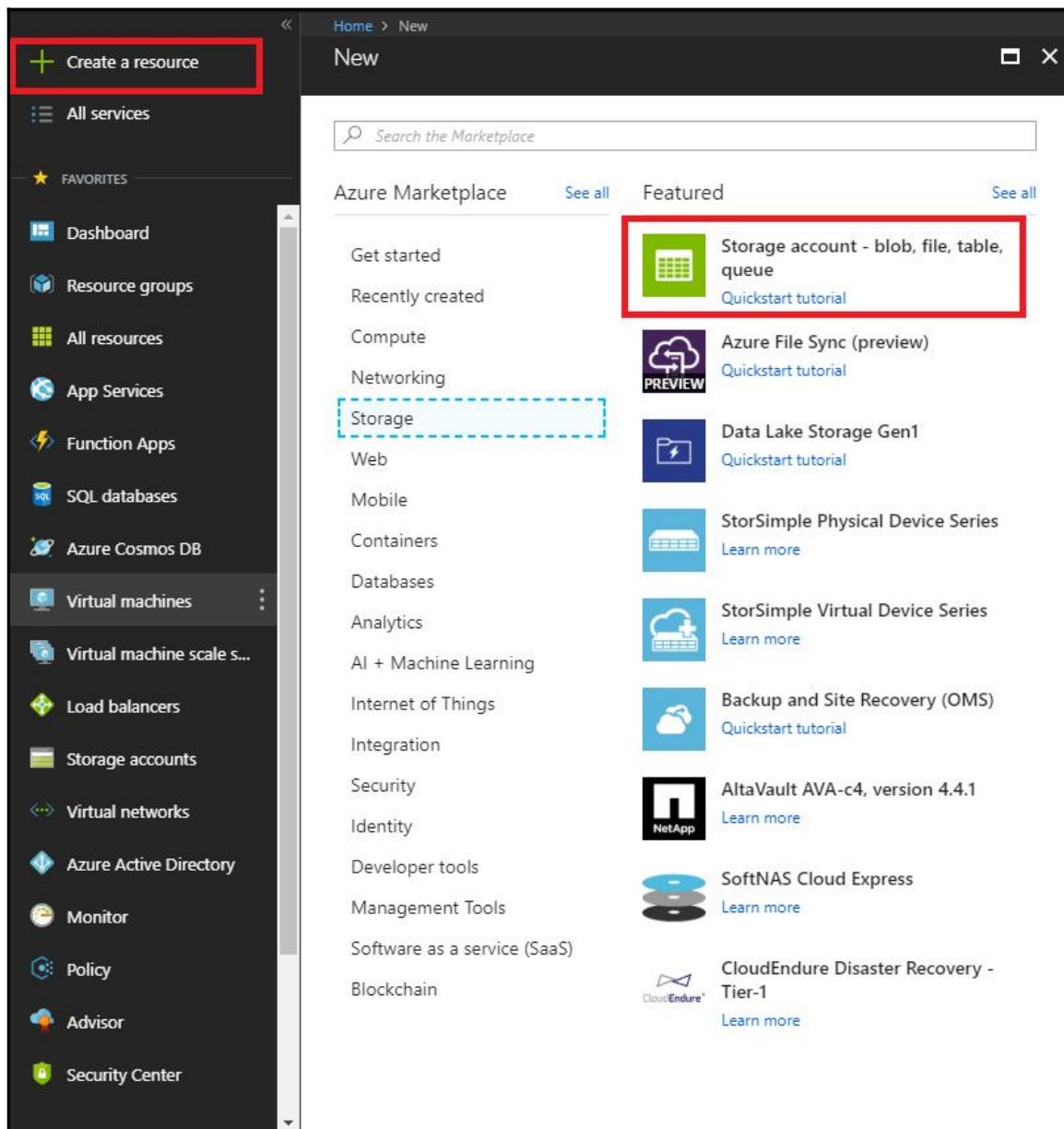
Federation	Disabled	0 domains
Seamless single sign-on	Disabled	0 domains
Pass-through authentication	Disabled	0 agents

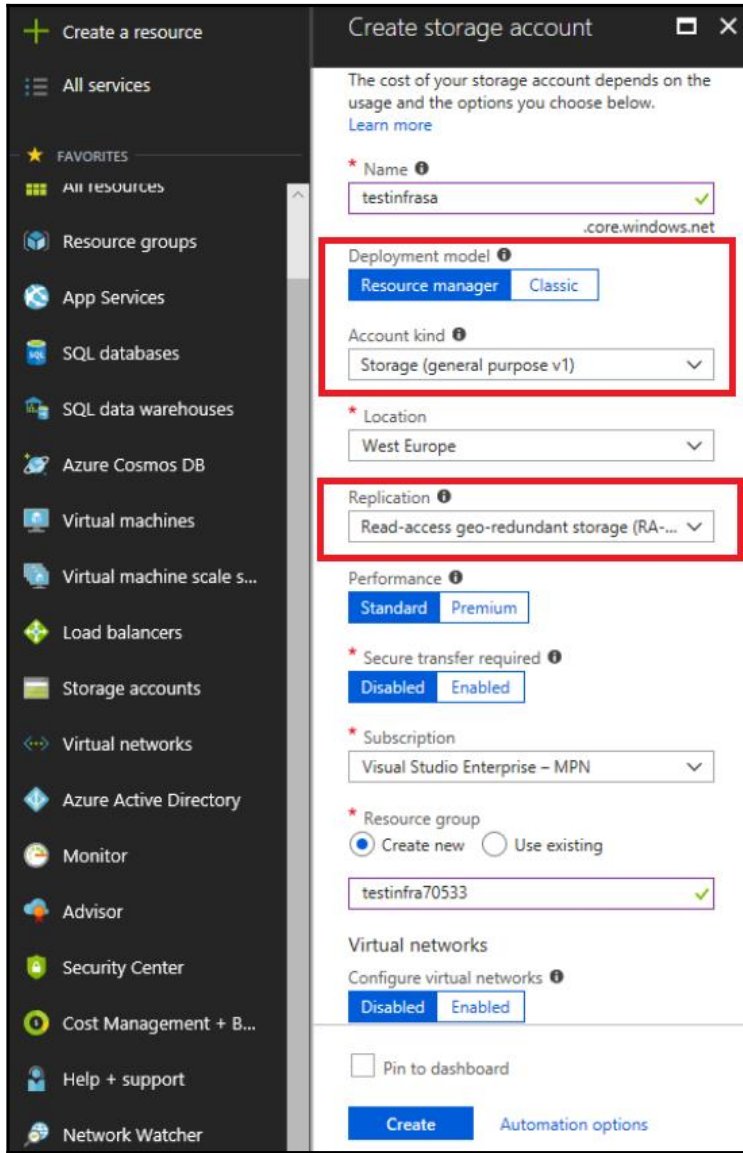
ON-PREMISES APPLICATIONS

Looking to configure remote access for on-premises applications? [Head to Application Proxy](#)



Chapter 08: Planning and Implementing Azure Storage, Backup, and Recovery Services





Home > New > Create storage account

Create storage account

Deployment model ⓘ

Resource manager Classic

Account kind ⓘ

StorageV2 (general purpose v2) ▾

* Location

West Europe ▾

Replication ⓘ

Locally-redundant storage (LRS) ▾

Performance ⓘ

Standard Premium

Access tier (default) ⓘ

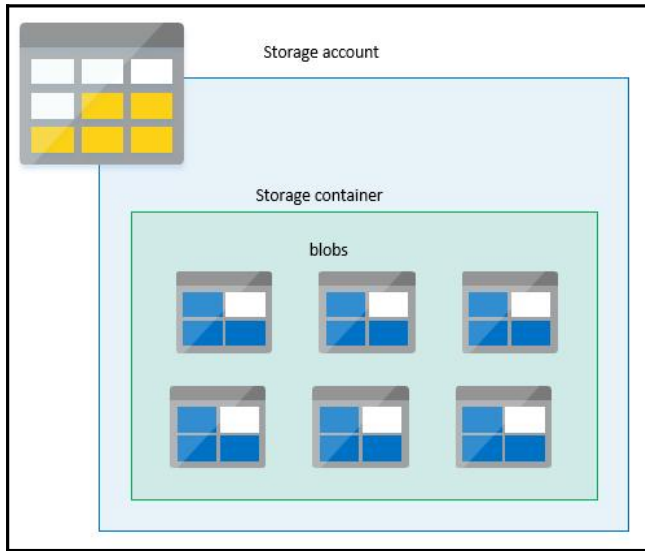
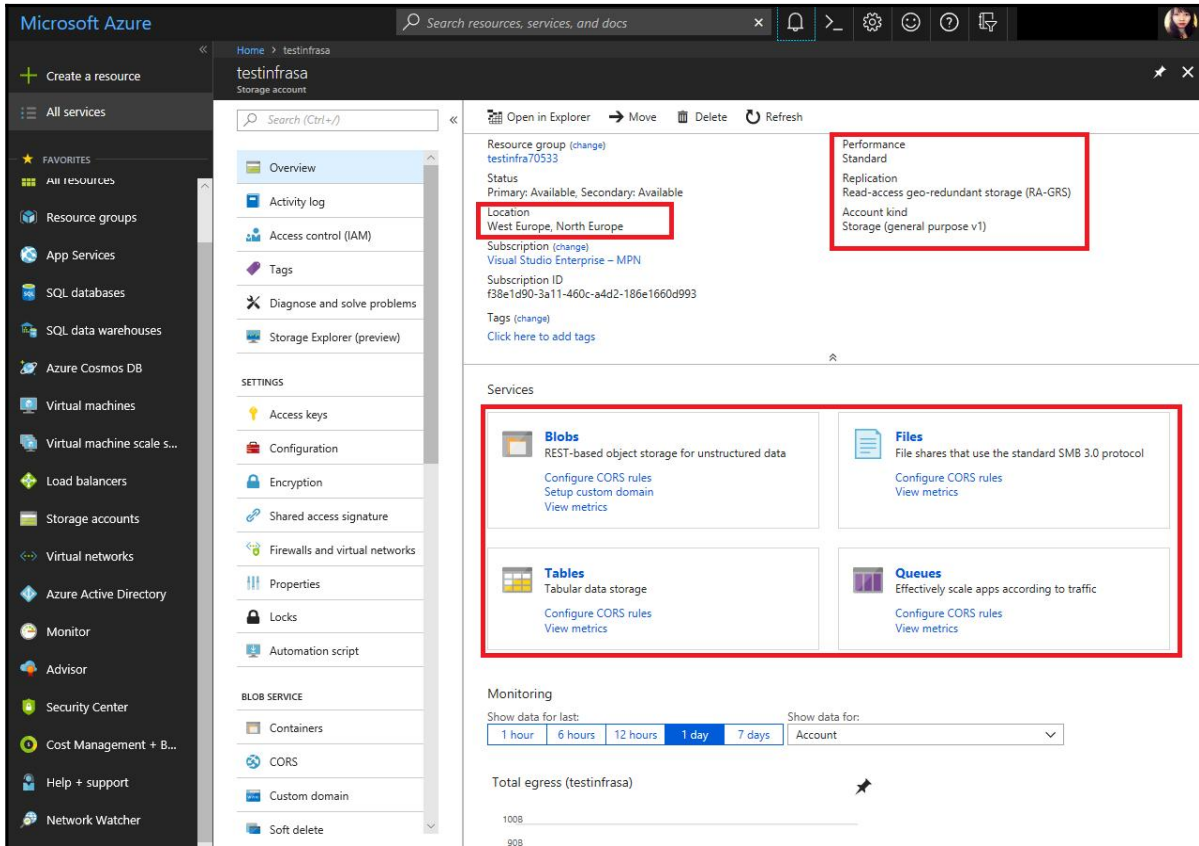
Cool **Hot**

* Secure transfer required ⓘ

Disabled Enabled

Pin to dashboard

Create Automation options



Home > Resource groups > testinfra70533 > testinfra

testinfra
Storage account

Search (Ctrl+/)

Open in Explorer → Move Delete Refresh

Subscription (change)
Visual Studio Enterprise – MPN
Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993
Tags (change)
Click here to add tags

Services

Blobs
REST-based object storage for unstructured data
Configure CORS rules
Setup custom domain
View metrics

Files
File shares that use the standard SMB 3.0 protocol
Configure CORS rules
View metrics

Tables
Tabular data storage
Configure CORS rules
View metrics

Queues
Effectively scale apps according to traffic
Configure CORS rules
View metrics

Monitoring

Show data for last: 1 hour 6 hours 12 hours 1 day 7 days Show data for: Account

Home > Resource groups > testinfra70533 > testinfra - Containers

testinfra - Containers
Storage account

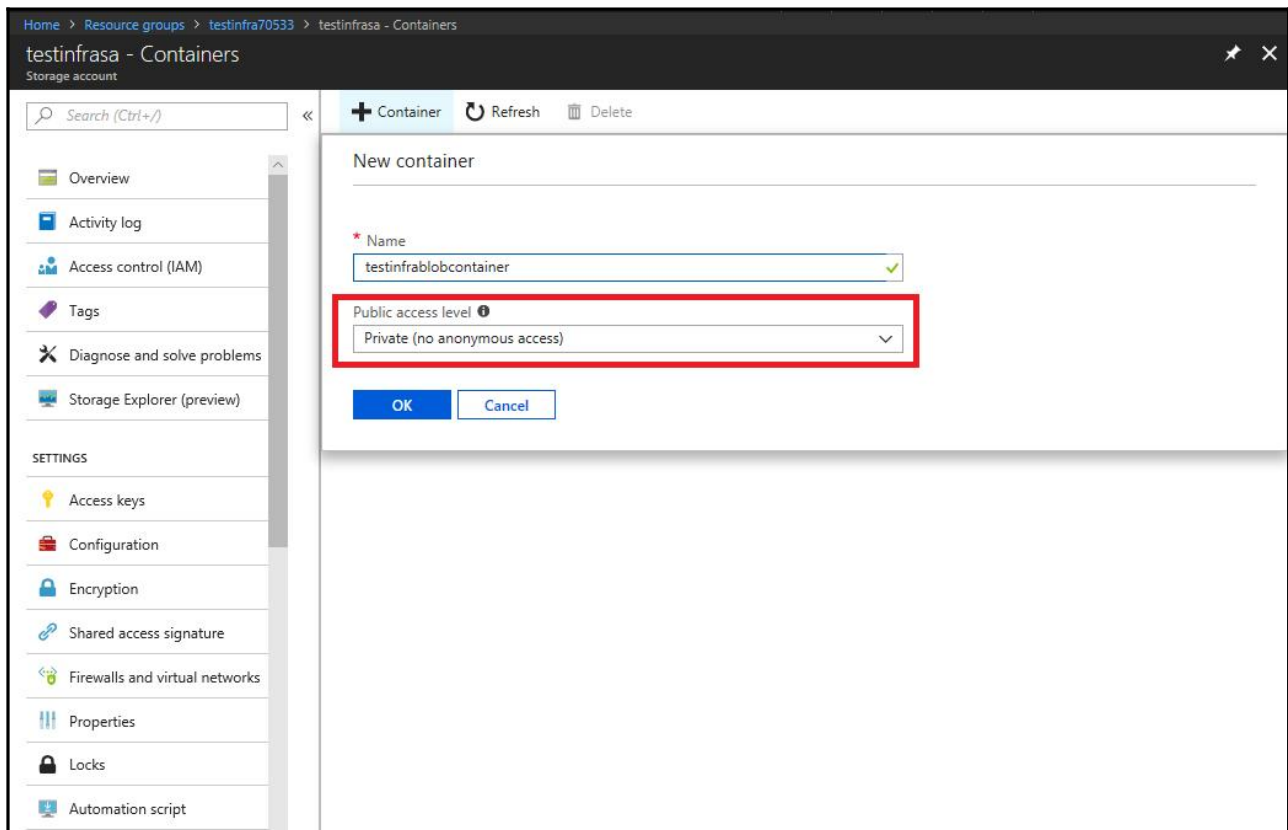
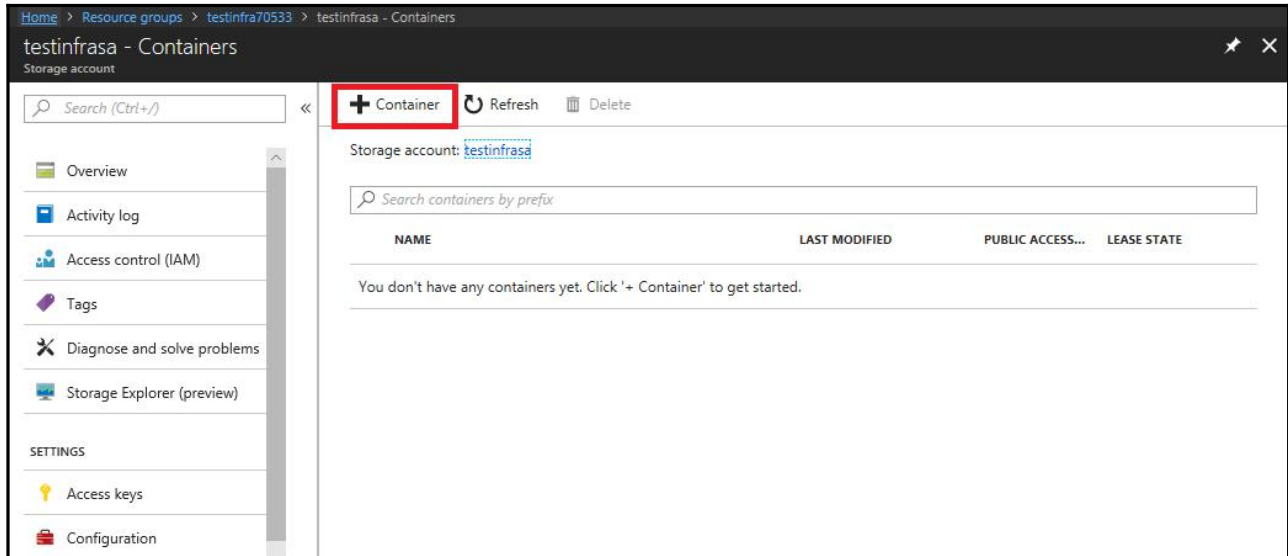
Search (Ctrl+/)

+ Container Refresh Delete

Storage account: testinfra

Search containers by prefix

NAME	LAST MODIFIED	PUBLIC ACCESS...	LEASE STATE
You don't have any containers yet. Click '+ Container' to get started.			



testinfra - Containers
Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Storage Explorer (preview)

SETTINGS

- Access keys
- Configuration
- Encryption
- Shared access signature
- Firewalls and virtual networks
- Properties
- Locks
- Automation script

Container Refresh Delete

Storage account: testinfra

Search containers by prefix

NAME	LAST MODIFIED	PUBLIC ACCESS...	LEASE STATE
<input type="checkbox"/> testinfrablobcontainer	7/16/2018 2:04:50 PM	Private	Available ...

Home > Resource groups > testinfra70533 > testinfra - Containers > testinfrablobcontainer

testinfrablobcontainer
Container

Search (Ctrl+/)

Upload Refresh Delete Acquire lease Break lease

Location: testinfrablobcontainer

Search blobs by prefix (case-sensitive)

NAME	MODIFIED
No blobs found.	

Upload blob
testinfrablobcontainer/

Files

"unnamed.jpg"

Overwrite if files already exist

Advanced

Upload

Home > Resource groups > testinfra70533 > testinfra - Containers > testinfrablobcontainer

testinfrablobcontainer
Container

Search (Ctrl+/) << Upload Refresh Delete Acquire lease

Location: testinfrablobcontainer

Search blobs by prefix (case-sensitive)

NAME

unnamed.jpg

Upload blob
testinfrablobcontainer/

Files Upload Completed for unnamed.jpg 2:11 PM
46.71 KiB |
https://testinfra.blob.core.windows.net/testinfrablobcontainer

Overwrite if files already exist.

Advanced

Upload

Current uploads

Dismiss: Completed All

unnamed.jpg 47 KiB / 47 KiB ...

Upload Refresh Delete Acquire lease Break lease View snapshots Create snapshot

Location: testinfrablobcontainer

Search blobs by prefix (case-sensitive) Show deleted blobs

NAME	MODIFIED	BLOB TYPE	SIZE	LEASE STATE
<input checked="" type="checkbox"/> unnamed.jpg	7/16/2018 2:12:16 PM			<ul style="list-style-type: none"> View/edit blob Download Blob properties Generate SAS View snapshots Create snapshot Acquire lease Break lease Delete

Home > Resource groups > testinfra70533 > testinfra - Containers > testinfrablobcontainer > unnamed.jpg

unnamed.jpg
Blob

Save Discard Refresh Download Acquire lease Break lease Delete

Overview Snapshots Edit blob Generate SAS

Properties

URL	https://testinfra.blob.core.windows.net/t...
LAST MODIFIED	7/16/2018 2:12:16 PM
CREATION TIME	7/16/2018 2:12:16 PM
TYPE	Block blob
SIZE	46.71 KiB
SERVER ENCRYPTED	true
ETAG	0x8D5EB155EF18796
CONTENT-MD5	-
LEASE STATUS	Unlocked
LEASE STATE	Available
LEASE DURATION	-
COPY STATUS	-
COPY COMPLETION TIME	-

Undelete all snapshots

Access Tier

Optimize storage costs by placing your data in the appropriate access tier. Archive is not supported in your region at this time. [Learn more](#)

N/A

Setting object level access tier is only supported for Standard LRS, GRS, and RA-GRS Blob Storage and General Purpose V2 Accounts.

Home > Resource groups > testinfra70533 > testinfra

testinfra

Storage account

Search (Ctrl+/) << Open in Explorer → Move Delete Refresh

Resource group [testinfra70533](#) (change)

Status: Primary: Available, Secondary: Available

Location: West Europe, North Europe

Subscription [Visual Studio Enterprise – MPN](#) (change)

Subscription ID: f38e1d90-3a11-460c-a4d2-186e1660d993

Tags [\(change\)](#)
[Click here to add tags](#)

Performance: Standard
Replication: Read-access geo-redundant storage (RA-GRS)
Account kind: Storage (general purpose v1)

Services

Blobs
REST-based object storage for unstructured data
[Configure CORS rules](#)
[Setup custom domain](#)
[View metrics](#)

Files
File shares that use the standard SMB 3.0 protocol
[Configure CORS rules](#)
[View metrics](#)

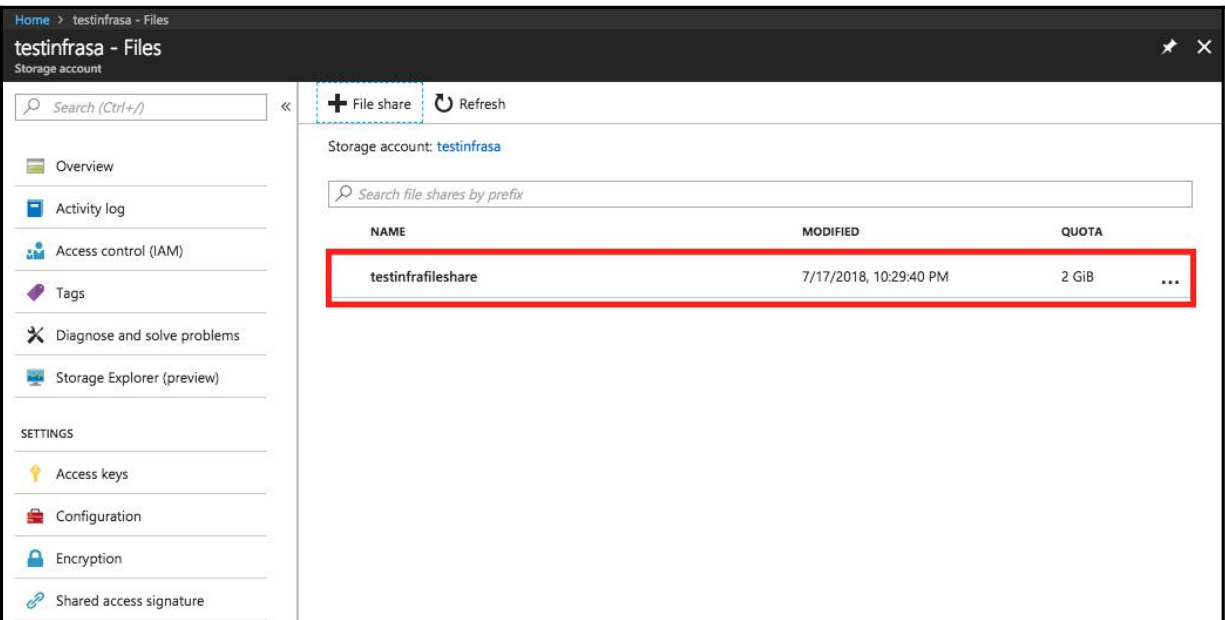
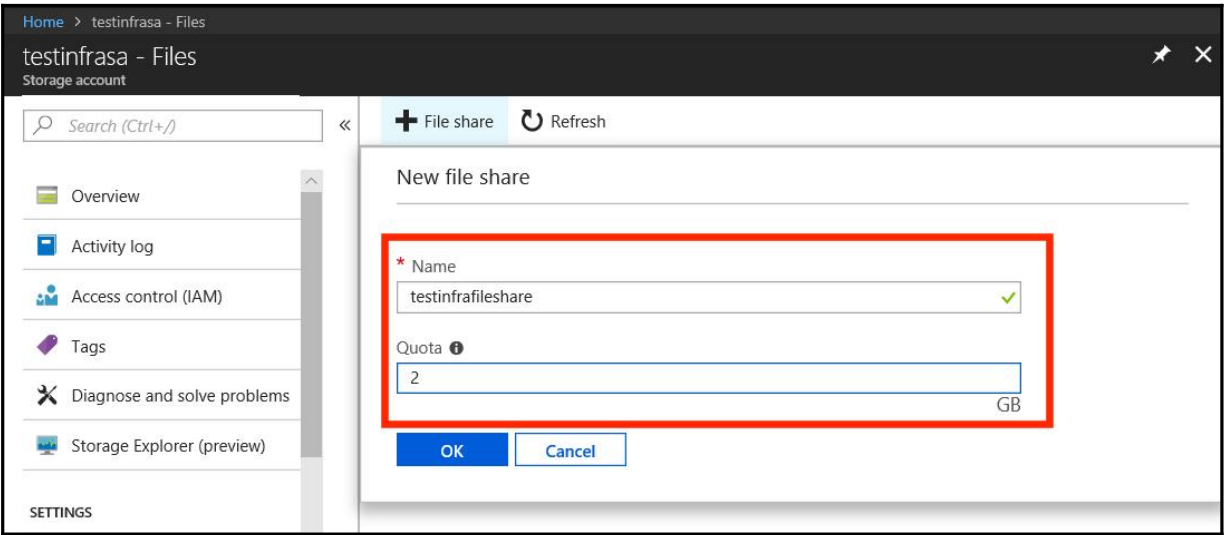
Tables
Tabular data storage
[Configure CORS rules](#)
[View metrics](#)

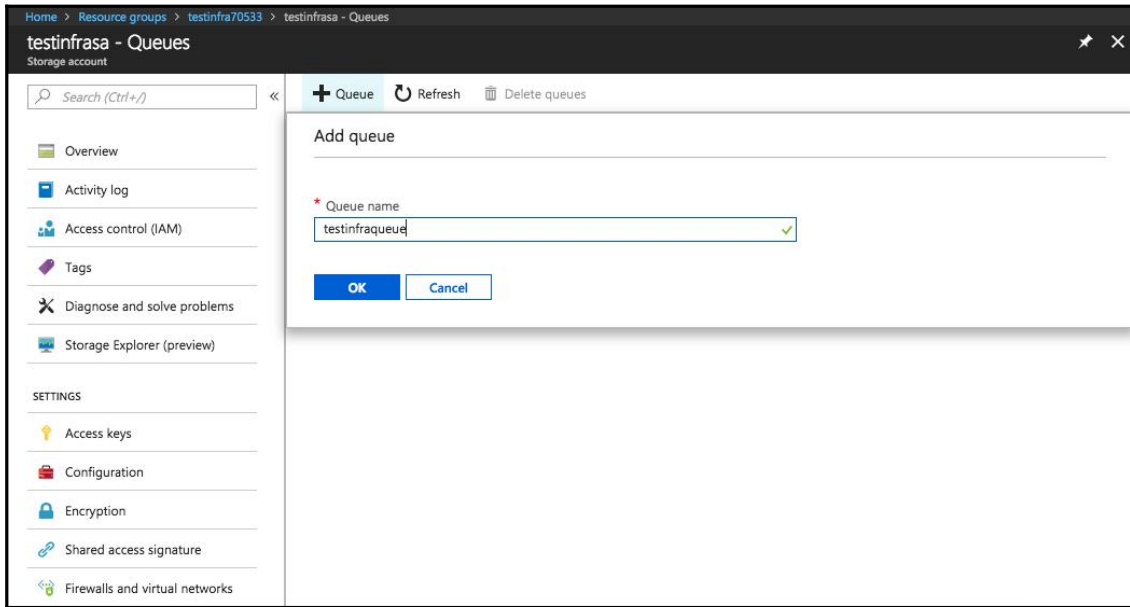
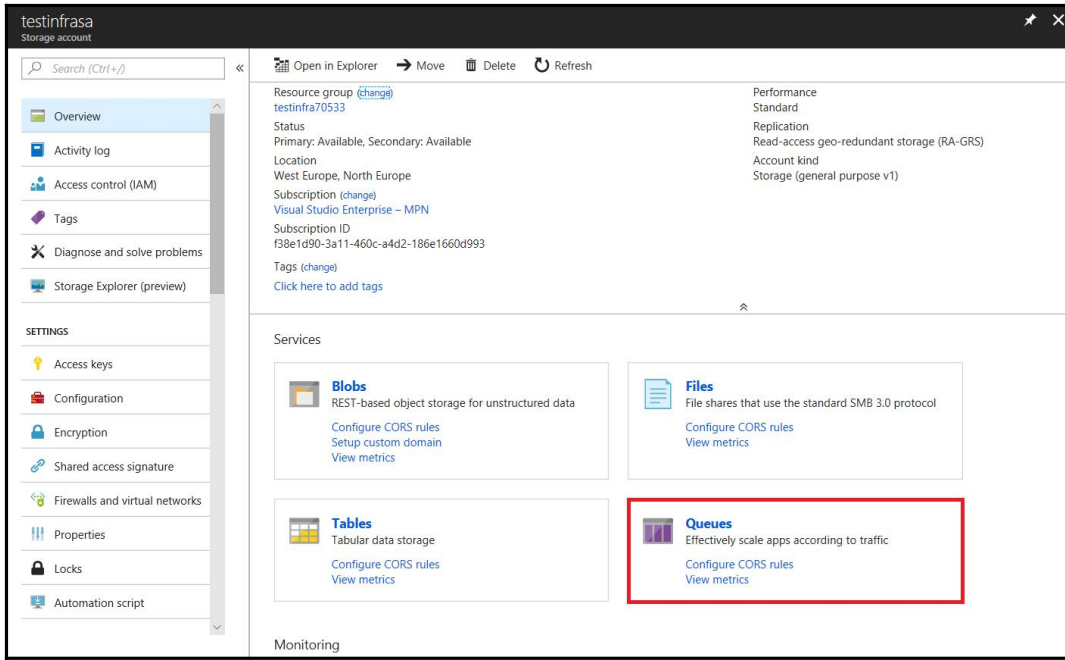
Queues
Effectively scale apps according to traffic
[Configure CORS rules](#)
[View metrics](#)

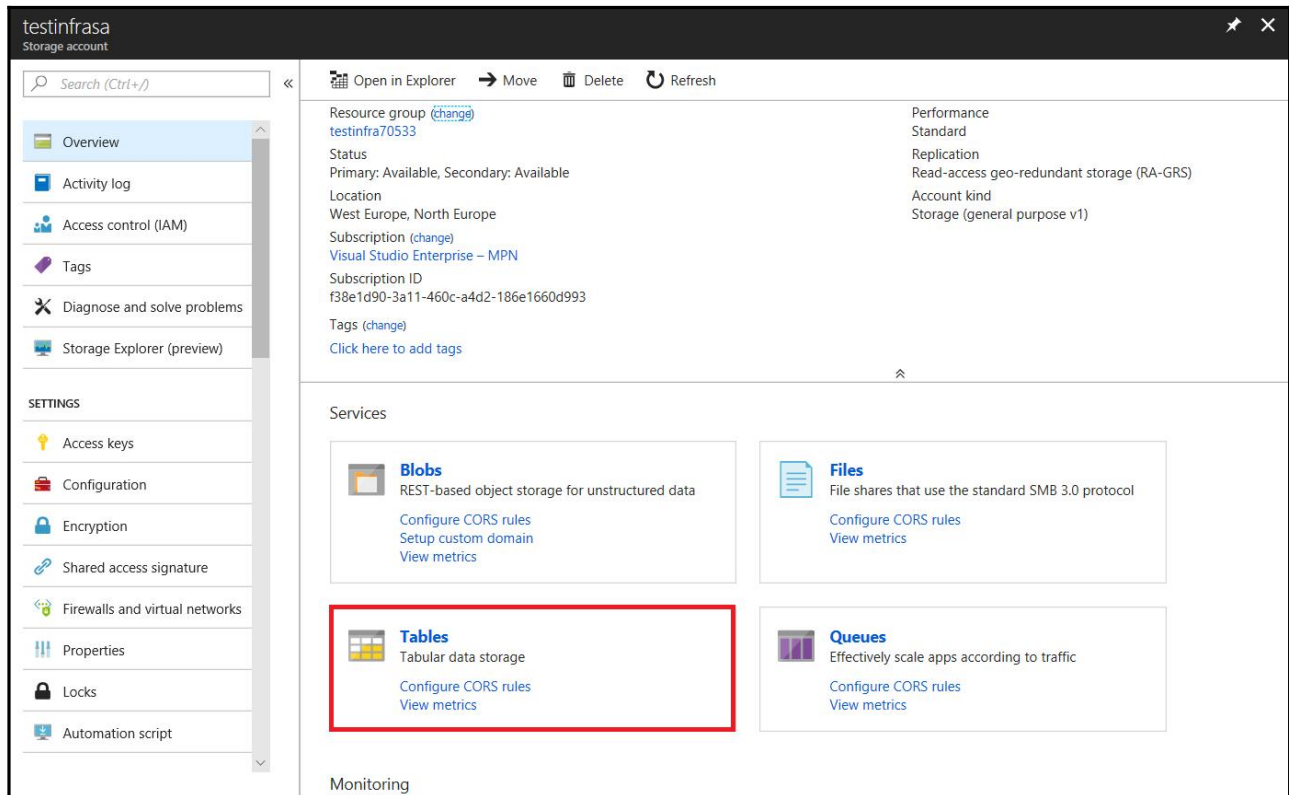
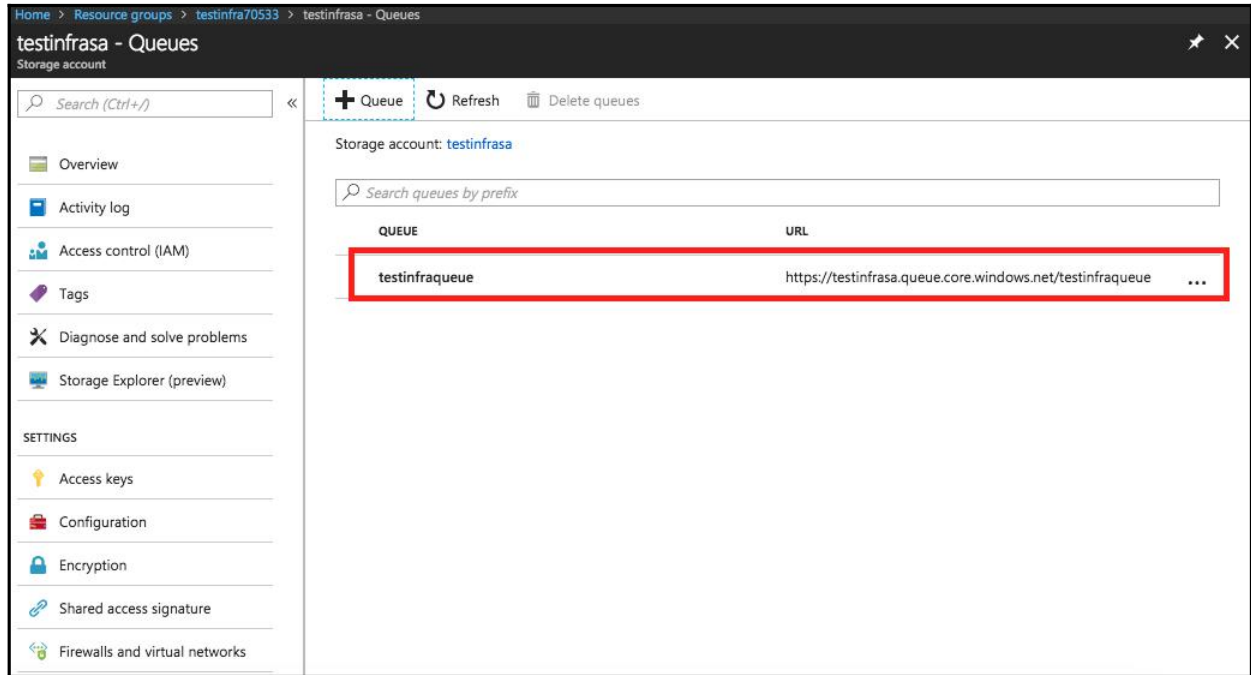
Monitoring

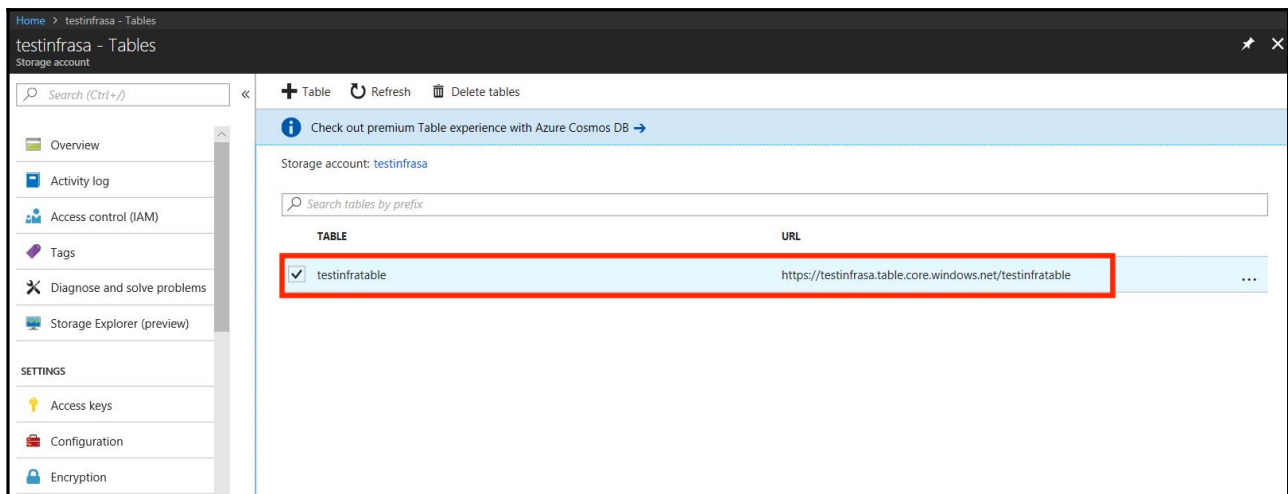
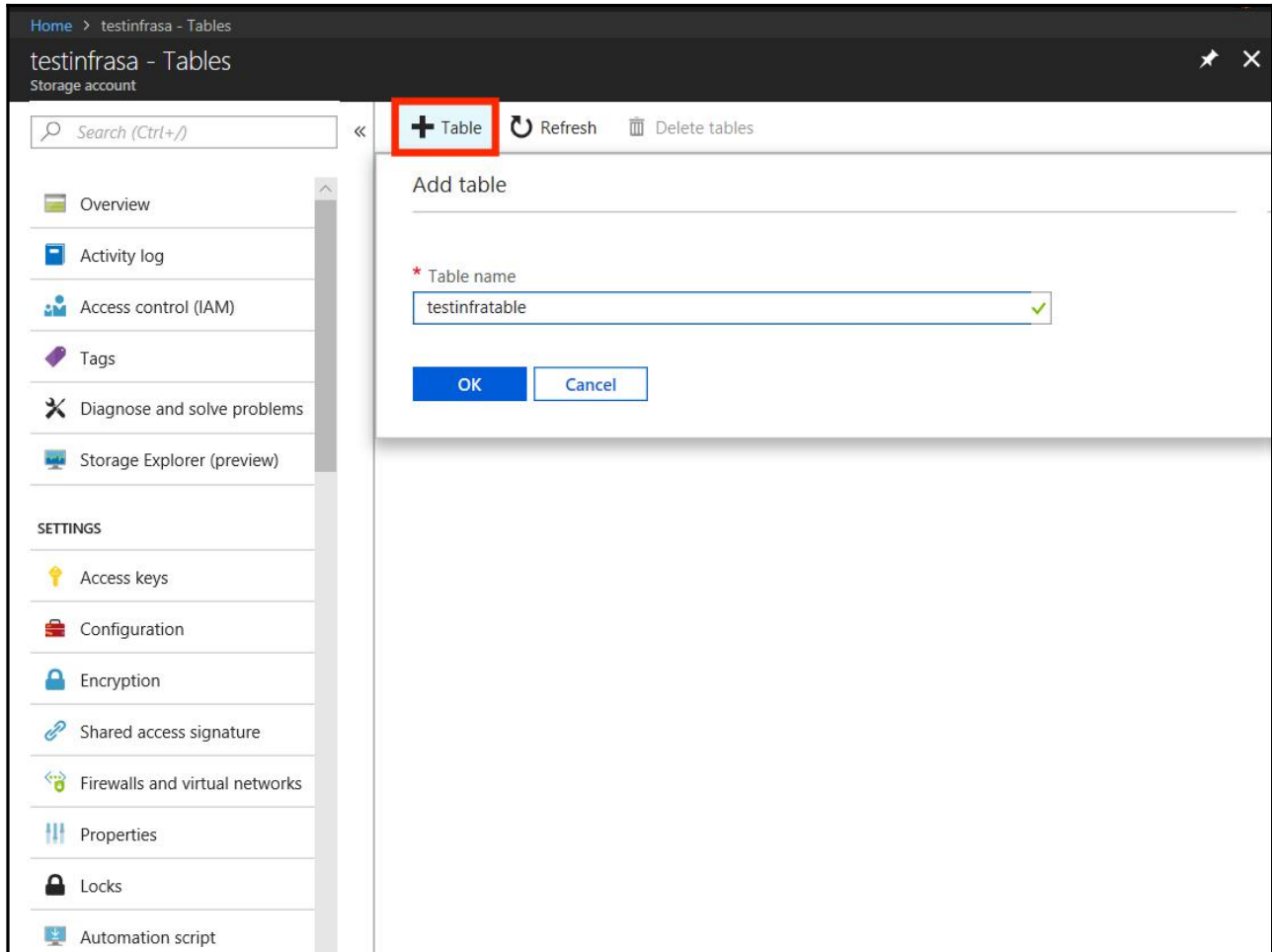
Show data for last: 1 hour 6 hours 12 hours 1 day 7 days Show data for: Account

Total egress (testinfra)









Home > Microsoft.StorageAccount-20180717095444 - Overview > testinfra70533

testinfra70533
Storage account

Search (Ctrl+F)

Open in Explorer → Move **Delete** Refresh

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Storage Explorer (preview)

SETTINGS

- Access keys
- Configuration
- Encryption
- Shared access signature
- Firewalls and virtual networks
- Properties
- Locks
- Automation script

Resource group (change)
testinfra70533

Status
Primary: Available, Secondary: Available

Location
West Europe, North Europe

Subscription (change)
Visual Studio Enterprise – MPN

Subscription ID
f38e1d90-3a11-460c-a4d2-186e1660d993

Tags (change)
[Click here to add tags](#)

Performance
Standard
Replication
Read-access geo-redundant storage (RA-GRS)
Account kind
Storage (general purpose v1)

Services





- Blobs**
REST-based object storage for unstructured data
[Configure CORS rules](#)
[Setup custom domain](#)
[View metrics](#)
- Files**
File shares that use the standard SMB 3.0 protocol
[Configure CORS rules](#)
[View metrics](#)
- Tables**
Tabular data storage
[Configure CORS rules](#)
[View metrics](#)
- Queues**
Effectively scale apps according to traffic
[Configure CORS rules](#)
[View metrics](#)


Home > Microsoft.StorageAccount-20180717095444 - Overview > testinfrablobsa > Delete storage account

Delete storage account


testinfrablobsa

The following table shows the list of storage services. You can click on them to access data within them.

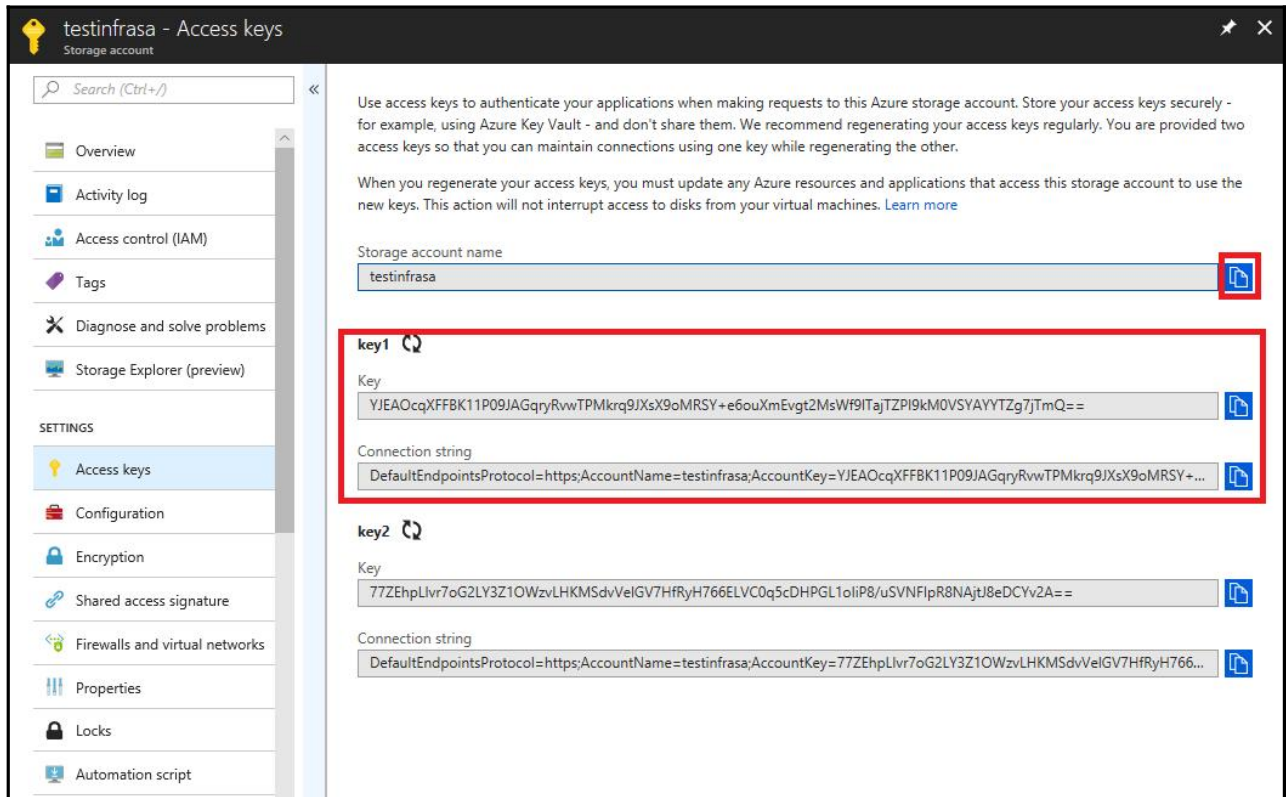
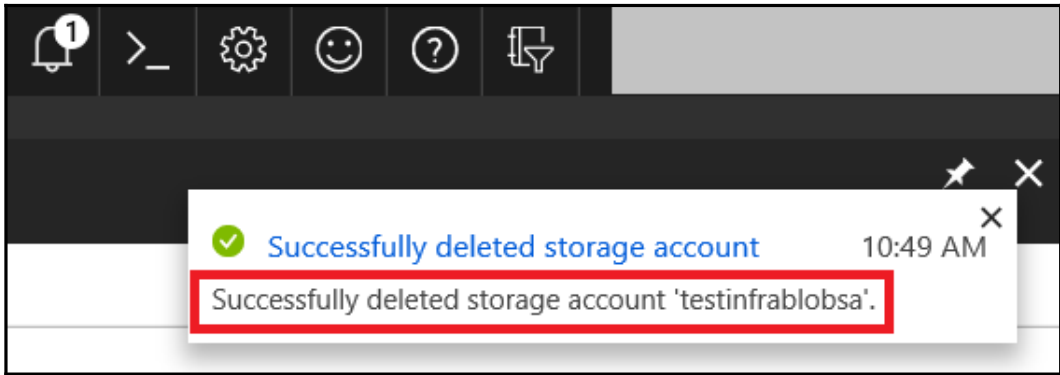
	Containers
	Files
	Tables
	Queues

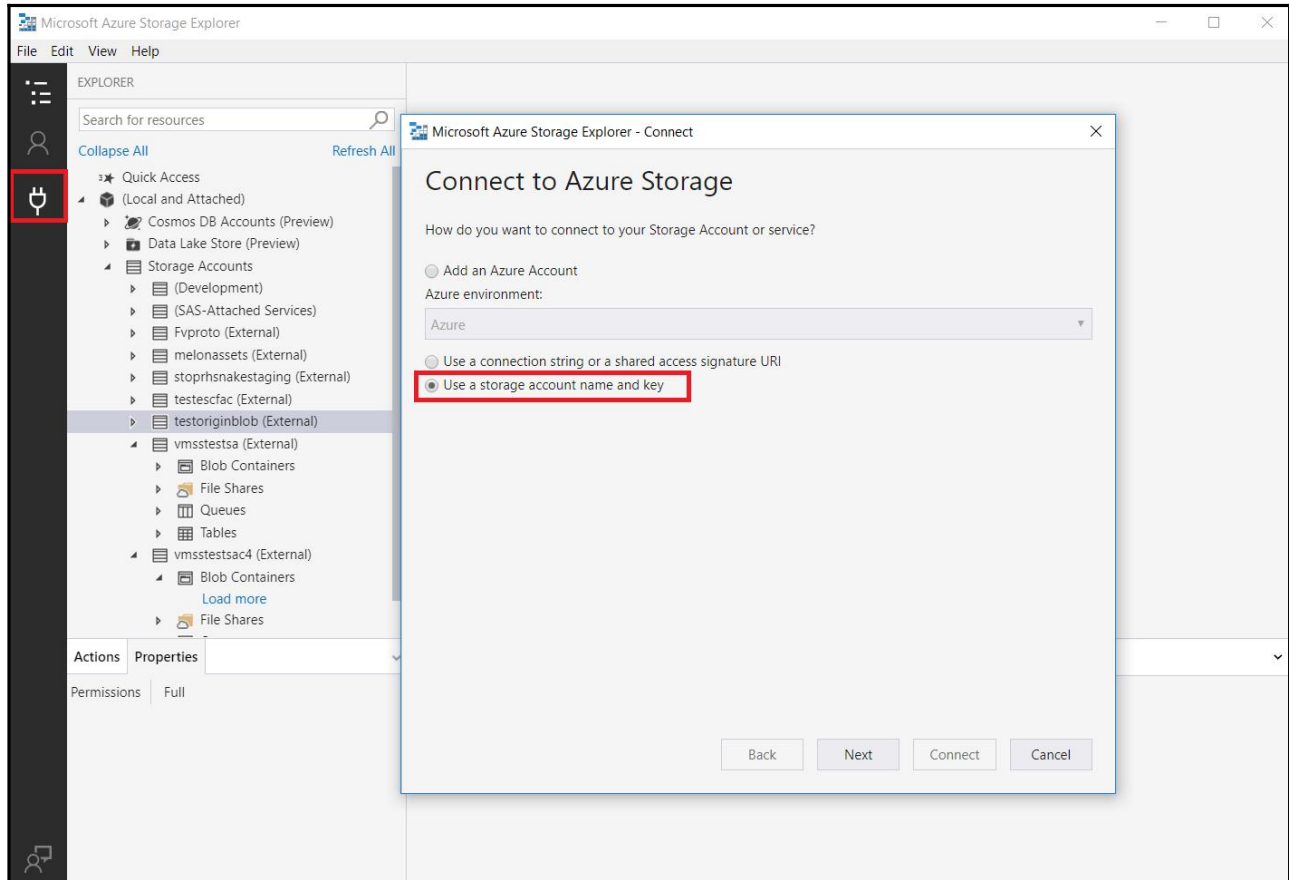
 This action cannot be undone. This will permanently delete storage account 'testinfrablobsa' and its contents.

Type the name of the storage account (testinfrablobsa) to confirm:

Delete





Microsoft Azure Storage Explorer - Connect

Attach using Name and Key

Enter information to connect to the Microsoft Azure storage account

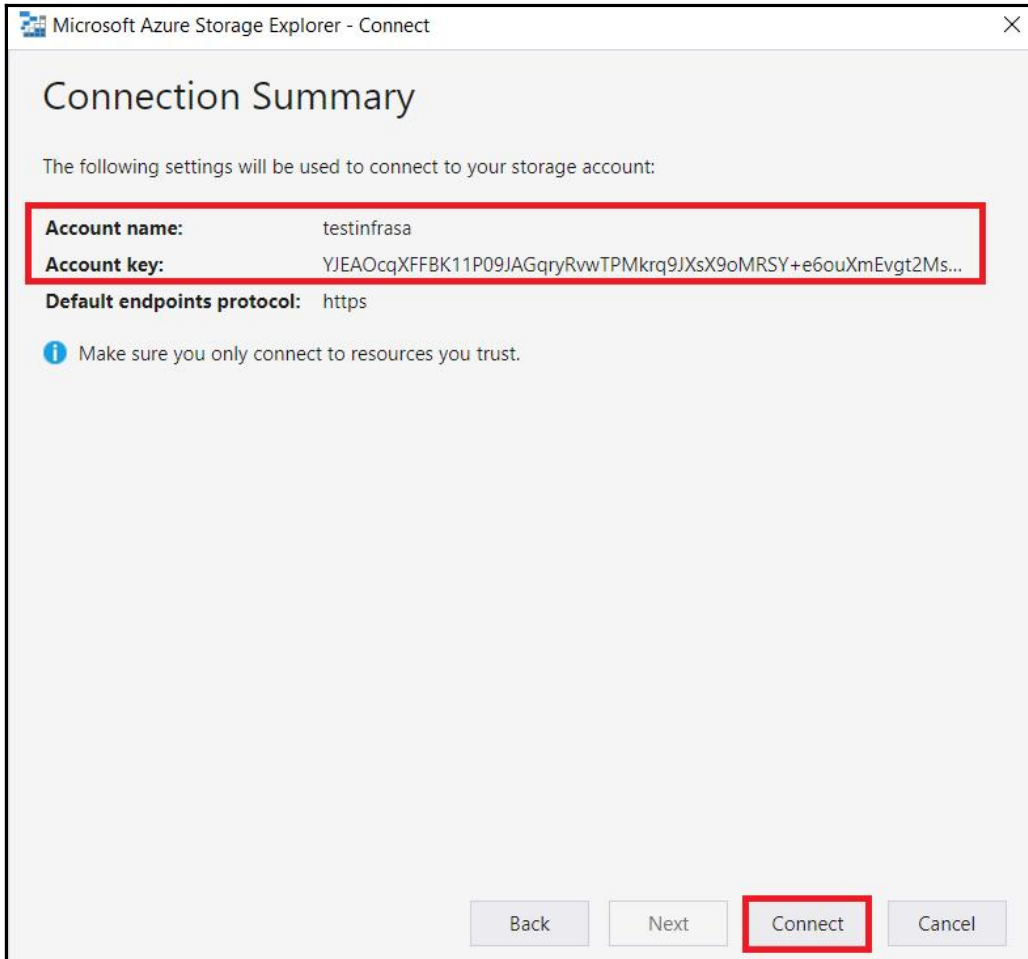
Account name:
testinfrasa

Account key:
YJEA0cqXFFBK11P09JAGqryRwwTPMkrq9JXsX9oMRSY+e6ouXmEvg2MsWf9ITajTZPI9kM0VSYAYTZg7jTmQ=

Storage endpoints domain:
Azure

Use HTTP (Not recommended)
[Online privacy statement](#)

Back Next Connect Cancel



Home > testinfrasa - Shared access signature

testinfrasa - Shared access signature
Storage account

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Storage Explorer (preview)

SETTINGS

- Access keys
- Configuration
- Encryption
- Shared access signature
- Firewalls and virtual networks
- Properties
- Locks
- Automation script

BLOB SERVICE

- Containers
- CORS
- Custom domain
- Soft delete

Allowed resource types

- Service
- Container
- Object

Allowed permissions

- Read
- Write
- Delete
- List
- Add
- Create
- Update
- Process

Start and expiry date/time

Start

2018-07-13 4:09:18 PM

End

2018-07-14 12:09:18 AM

(UTC+02:00) --- Current Timezone ---

Allowed IP addresses

for example, 168.1.5.65 or 168.1.5.65-168.1.5.70

Allowed protocols

HTTPS only HTTPS and HTTP

Signing key

key1

Generate SAS and connection string

Connection string

BlobEndpoint=https://testinfrasa.blob.core.windows.net/QueueEndpoint=https://testinfrasa.queue.core.windows.net/FileEndpoint

SAS token

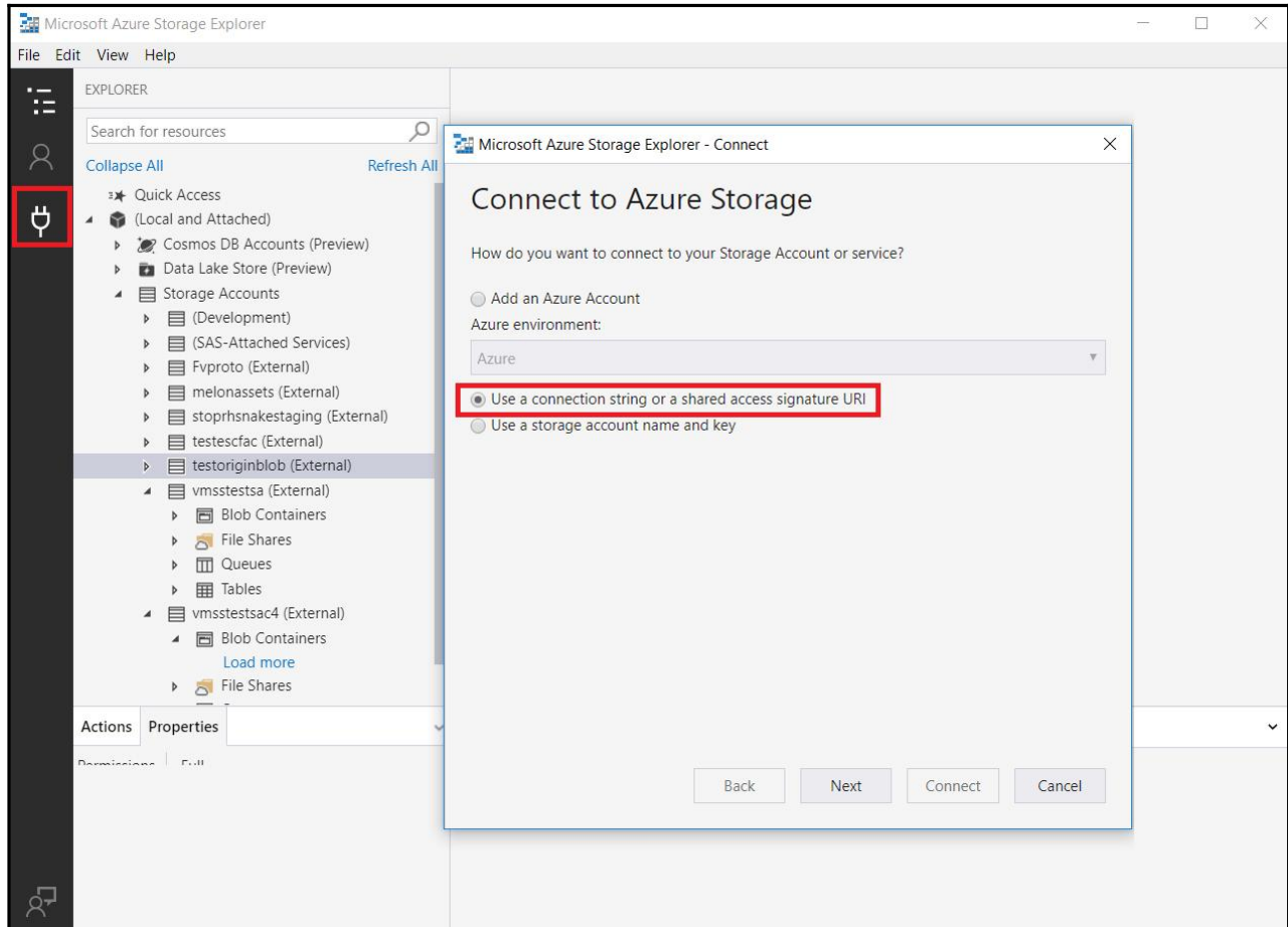
?sv=2017-11-09&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-07-13T22:09:18Z&st=2018-07-13T14:09:18Z&spr=https&sig=%2F%2

Blob service SAS URL

https://testinfrasa.blob.core.windows.net/?sv=2017-11-09&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-07-13T22:09:18Z&st=2018-1

File service SAS URL

net/?sv=2017-11-09&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-07-13T22:09:18Z&st=2018-07-13T14:09:18Z&spr=https&sig=%2F



Microsoft Azure Storage Explorer - Connect

Attach with Connection String or SAS URI

Use a connection string
 Use a SAS URI

Connection string:

BlobEndpoint=https://testinfrasa.blob.core.windows.net;/QueueEndpoint=https://testinfrasa.queue.core.windi

Account label:

testinfrasa

Back Next Connect Cancel

Microsoft Azure Storage Explorer - Connect

Attach with Connection String or SAS URI

Use a connection string
 Use a SAS URI

URI:
`https://testinfrasa.blob.core.windows.net/?sv=2017-11-09&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-07-18T`

Account or resource label:
I

Blob endpoint:
`https://testinfrasa.blob.core.windows.net`

File endpoint:
`https://testinfrasa.file.core.windows.net`

Queue endpoint:
`https://testinfrasa.queue.core.windows.net`

Table endpoint:
`https://testinfrasa.table.core.windows.net`

Back Next Connect Cancel

Microsoft Azure Storage Explorer - Connect

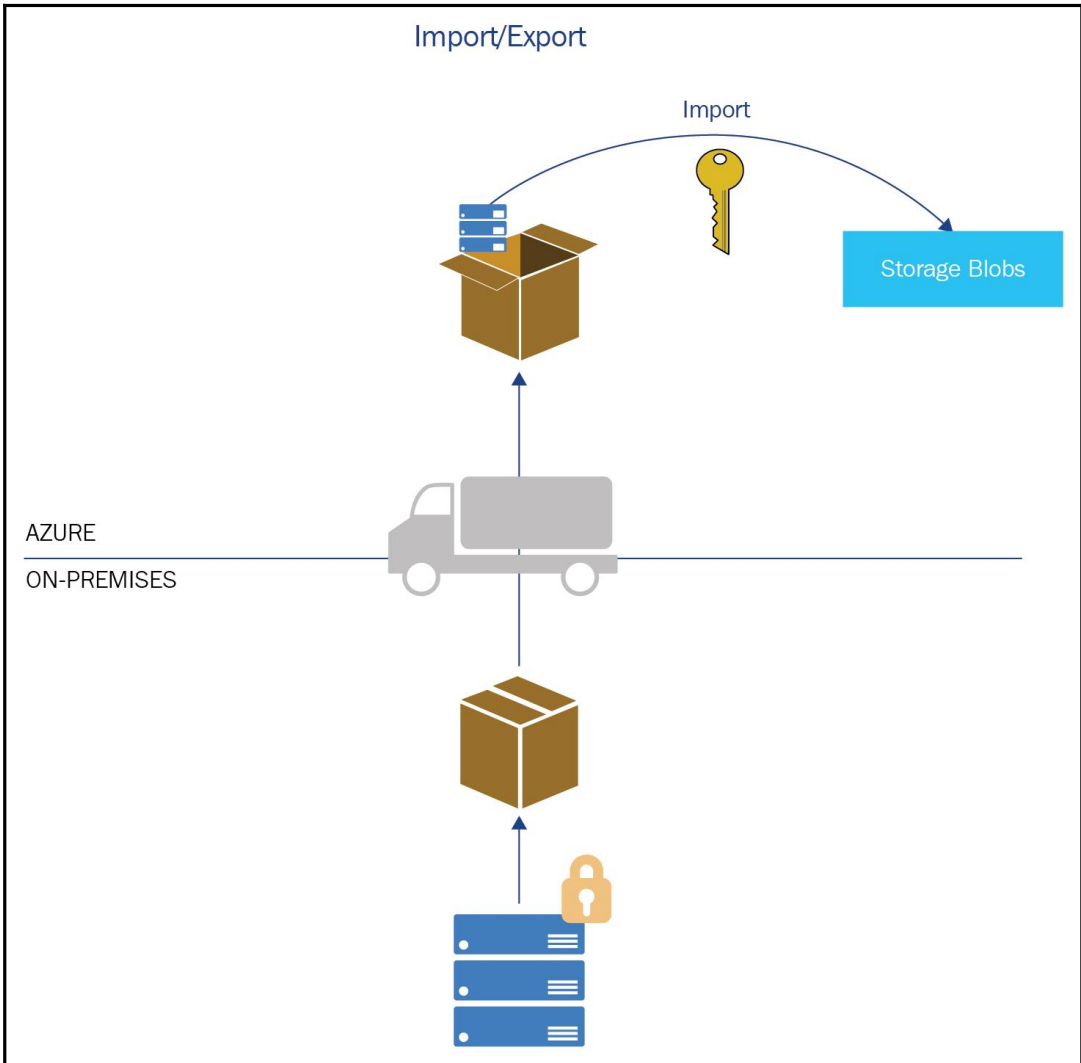
Connection Summary

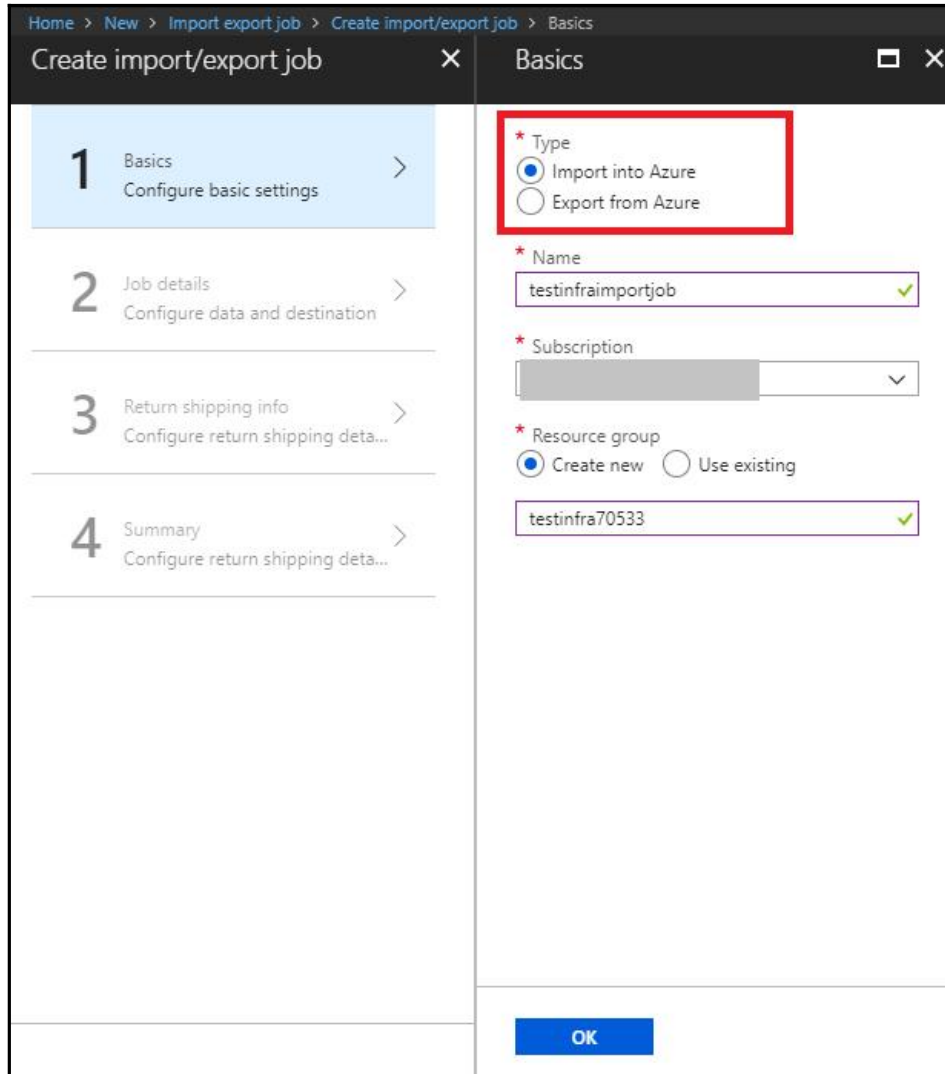
The following settings will be used to connect to your storage account:

Account name:	
SAS:	sv=2017-11-09&ss=bfqt&srt=sco&sp=rwdlacup&se=2018-07-18T16:16:...
Expiration date:	18/07/2018 à 18:16:56
Permissions:	Read, Write, Delete, List, Add, Create, Update, Process
Blob endpoint:	https://testinfrasa.blob.core.windows.net
File endpoint:	https://testinfrasa.file.core.windows.net
Queue endpoint:	https://testinfrasa.queue.core.windows.net
Table endpoint:	https://testinfrasa.table.core.windows.net

i Make sure you only connect to resources you trust.

Back Next **Connect** Cancel







Microsoft Azure

Search resources, services, and docs

Home > New

New

cdn

Azure Marketplace [See all](#) Featured [See all](#)

Get started

Recently created

Compute

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + Machine Learning

Internet of Things

Integration

Security

Identity

Developer tools

Management Tools

Software as a service (SaaS)

Blockchain

CDN
Quickstart tutorial

Web App
Quickstart tutorial

Logic App
Quickstart tutorial

Web App for Containers
Quickstart tutorial

Media Services
Quickstart tutorial

Azure Search
Quickstart tutorial

API App
[Learn more](#)

Template deployment
[Learn more](#)

API management
Quickstart tutorial

App Service Environment v1
[Learn more](#)

Resource groups

App Services

SQL databases

SQL data warehouses

Azure Cosmos DB

Virtual machines

Virtual machine scale s...

Load balancers

Storage accounts

Virtual networks

Azure Active Directory

Monitor

Advisor

Security Center

Cost Management + B...

Help + support

Network Watcher

FAVORITES

All resources

Create a resource

All services

Microsoft Azure

Home > New > CDN profile

CDN profile

- * Name: testinfracdn
- * Subscription: Visual Studio Enterprise – MPN
- * Resource group: Create new Use existing
testinfra70533
- * Resource group location: West Europe
- * Pricing tier (View full pricing details): Standard Microsoft
- Create a new CDN endpoint now
- * CDN endpoint name: testinfracdn.azureedge.net
- * Origin type: Storage
- * Origin hostname: testinfrasa.blob.core.windows.net

Pin to dashboard

Create Automation options

Home > Resource groups > testinfra70533

testinfra70533
Resource group

Search (Ctrl+/)

Overview (highlighted)

Activity log

Access control (IAM)

Tags

Events

SETTINGS

Quickstart

Resource costs

Deployments

Policies

Properties

Locks

Automation script

MONITORING

Metrics

Alerts (classic)

Diagnostics logs

Application insights

Log analytics

+ Add Edit columns Delete resource group Refresh Move Assign tags

Subscription (change) Visual Studio Enterprise – MPN Subscription ID f38e1d90-3a11-460c-a4d2-186e1... Deployments 2 Succeeded

Tags (change) Click here to add tags

Filter by name... All types All locations

3 items Show hidden types

<input type="checkbox"/>	NAME ↑↓	TYPE ↑↓	LOCATION ↑↓
<input type="checkbox"/>	testinfracdn	CDN profile	West Europe
<input type="checkbox"/>	testinfracdn (testinfracdn/testinfracdn)	Endpoint	West Europe
<input type="checkbox"/>	testinfra	Storage account	West Europe

The screenshot shows the 'Enable backup' configuration page in the Azure portal for a virtual machine named 'vmsscontroller'. The left-hand navigation pane is visible, with the 'Backup' option highlighted in blue and enclosed in a red rectangular box. The main content area is titled 'Enable backup' and includes a 'Welcome to Azure Backup' message. Below the message, there are configuration options for the Recovery Services vault and Resource group, both set to 'testinfra70533RSV' and 'testinfra70533RSV-rg' respectively. A dropdown menu for 'Choose backup policy' is highlighted with a red box and currently shows '(new) DailyPolicy'. Further down, the 'BACKUP FREQUENCY' is set to 'Daily at 11:30 PM UTC', and the 'RETENTION RANGE' is set to 'Retain backup taken every day at 11:30 PM for 180 Day(s)'. At the bottom of the page, there is a blue 'Enable Backup' button.

Microsoft Azure

Search resources, services, and docs

Home > New

New

Search the Marketplace

Azure Marketplace [See all](#) Featured [See all](#)

- Get started
- Recently created
- Compute
- Networking
- Storage**
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + Machine Learning
- Internet of Things
- Integration
- Security
- Identity
- Developer tools
- Management Tools
- Software as a service (SaaS)
- Blockchain

Storage account - blob, file, table, queue
[Quickstart tutorial](#)

Azure File Sync (preview)
[Quickstart tutorial](#)

Data Lake Storage Gen1
[Quickstart tutorial](#)

StorSimple Physical Device Series
[Learn more](#)

StorSimple Virtual Device Series
[Learn more](#)

Backup and Site Recovery (OMS)
[Quickstart tutorial](#)

AltaVault AVA-c4, version 4.4.1
[Learn more](#)

SoftNAS Cloud Express
[Learn more](#)

CloudEndure Disaster Recovery - Tier-1
[Learn more](#)

Navigation menu:

- Create a resource
- All services
- FAVORITES
- Dashboard
- Resource groups
- All resources
- App Services
- Function Apps
- SQL databases
- Azure Cosmos DB
- Virtual machines
- Virtual machine scale s...
- Load balancers
- Storage accounts
- Virtual networks
- Azure Active Directory
- Monitor
- Policy
- Advisor
- Security Center

Recovery Services vault ☐ ✕

Recovery Services vault

* Name
 ✓

* Subscription

* Resource group
 Create new Use existing

✓

* Location
 ▾

Pin to dashboard

[Create](#) [Automation options](#)

testinfra70533RSV-rg
Resource group

Search (Ctrl+/) <<

+ Add Edit columns Delete resource group Refresh Move Assign tags

Subscription (change) Subscription ID 60bad1d7-71fd-4e40-b6b9-1016a... Deployments 1 Succeeded

Tags (change) Click here to add tags

Filter by name... All types All locations

1 items Show hidden types ⓘ

<input type="checkbox"/>	NAME ↑↓	TYPE ↑↓	LOCATION ↑↓
<input type="checkbox"/>	testinfra70533RSV	Recovery Services vault	North Europe

testinfra70533RSV
Recovery Services vault

Search (Ctrl+) << + Backup + Replicate Delete

Support for > 1TB disk VMs and improvements to backup and restore speed →

Essentials Backup Site Recovery

Monitoring

Backup Alerts (last 24 hours)

Critical	0
Warning	0

Backup Pre-Check Status (Azure VMs)

0

CRITICAL 0

WARNING 0

Usage

Backup items

1

Backup Storage

Cloud - LRS	0 B
Cloud - GRS	0 B

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
SETTINGS
Properties
Locks
Automation script
GETTING STARTED
Backup
Site Recovery
MONITORING AND REPORTS
Backup Jobs
Site Recovery Jobs
Backup Alerts
Site Recovery Events
Backup Reports

Backup Goal

Where is your workload running?
Azure

What do you want to backup?
Virtual machine

Step: Configure Backup

Backup

Home > testinfra70533RSV-rg > testinfra70533RSV > Backup Goal > Backup > Backup policy

Backup	Backup policy
<p>1 Backup policy Select ></p> <p>2 Items to backup Select ></p>	<p>Choose backup policy ⓘ</p> <p>DefaultPolicy ▼</p> <p>BACKUP FREQUENCY</p> <p>Daily at 1:30 AM</p> <p>RETENTION RANGE</p> <p>Retention of daily backup point</p> <p>Retain backup taken every day at 1:30 AM for 30 Day(s)</p>
<p>Enable backup</p>	<p>OK</p>

Backup

1 Backup policy Select >

2 Items to backup Select >

Enable backup

Backup policy

Choose backup policy ⓘ
Create New

* Policy name ⓘ
testinfracustom ✓

Backup frequency
Daily 12:00 PM (UTC) Coordinated Universal Time

Retention range

Retention of daily backup point.
* At 12:00 PM For 180 Day(s)

Retention of weekly backup point.
* On Sunday * At 12:00 PM For 12 Week(s)

Retention of monthly backup point.
Week Based Day Based

OK

Backup policy

Backup frequency

Daily

12:00 PM

(UTC) Coordinated Universal Time

Retention range

Retention of daily backup point.

* At 12:00 PM For 180 Day(s)

Retention of weekly backup point.

* On Sunday * At 12:00 PM For 12 Week(s)

Retention of monthly backup point.

Week Based Day Based

* On First * Day Sunday * At 12:00 PM For 60 Month(s)

Retention of yearly backup point.

Week Based Day Based

* In January * On First * Day Sunday * At 12:00 PM For 10 Year(s)

OK

Backup [X] Select virtual machines [X]

1 Backup policy DefaultPolicy ✓

2 Items to backup Select >

Filter items ...

VIRTUAL MACHINE NAME	RESOURCE GROUP
<input type="checkbox"/> mediationfo	ooshop-clone-rg
<input type="checkbox"/> uat-bld-newshop	OOSHOP-CLONE-RG
<input type="checkbox"/> uat-db-newshop	ooshop-clone-rg
<input type="checkbox"/> uat-int-newshop	ooshop-clone-rg
<input type="checkbox"/> uat-mo-newshop	OOSHOP-CLONE-RG
<input type="checkbox"/> uat-db-newshop2	ooshop-clone2-rg
<input type="checkbox"/> uat-int-newshop2	ooshop-clone2-rg
<input checked="" type="checkbox"/> masternode-0	vmss-test-rg
<input checked="" type="checkbox"/> masternode-1	vmss-test-rg
<input checked="" type="checkbox"/> masternode-2	vmss-test-rg

Selected virtual machines
3

Enable backup [OK]

Home > testinfra70533RSV-rg > testinfra70533RSV > Backup Goal > Backup

Backup Goal

Where is your workload running?
Azure

What do you want to backup?
Virtual machine

Step: Configure Backup

Backup

Backup

- 1 Backup policy
DefaultPolicy ✓
- 2 Items to backup
Items selected : 3 ✓

Enable backup

vmsscontroller - Backup
Virtual machine

Search (Ctrl+/)

Backup now Restore VM File Recovery Stop backup Resume backup Delete backup data

Alerts and Jobs
[View all Alerts \(last 24 hours\)](#)
[View all Jobs \(last 24 hours\)](#)

Backup status

Backup Pre-Check	Passed
Last backup status	Warning (Initial backup pending)

Summary
Recovery services vault
Backup policy
Oldest restore point

Restore points

This list is filtered for last 30 days of restore points. To recover from restore point older than 30 days, [click here](#).

CRASH CONSISTENT	APPLICATION CONSISTENT	FILE-SYSTEM CONSISTENT
0	0	0

TIME CONSISTENCY

No restore points available.

Size
Security
Extensions
Continuous delivery (Preview)
Availability set
Configuration
Properties
Locks
Automation script

OPERATIONS

- Auto-shutdown
- Backup
- Disaster recovery
- Update management
- Inventory
- Change tracking
- Run command

MONITORING

- Metrics

testinfra70533RSV
Recovery Services vault

Search (Ctrl+/) << + Backup + Replicate Delete

Support for >1TB disk VMs and improvements to backup and restore speed →

Essentials Backup Site Recovery

Monitoring

Backup Alerts (last 24 hours)

Critical	0
Warning	0

Backup Pre-Check Status (Azure VMs)

0

CRITICAL 0

WARNING 0

Usage

Backup items

4

Backup Storage

Cloud - LRS	0 B
Cloud - GRS	0 B

Home > Resource groups > testinfra70533RSV-rg > testinfra70533RSV - Backup items > Backup Items (Azure Virtual Machine)

Backup Items (Azure Virtual Machine)

testinfra70533RSV

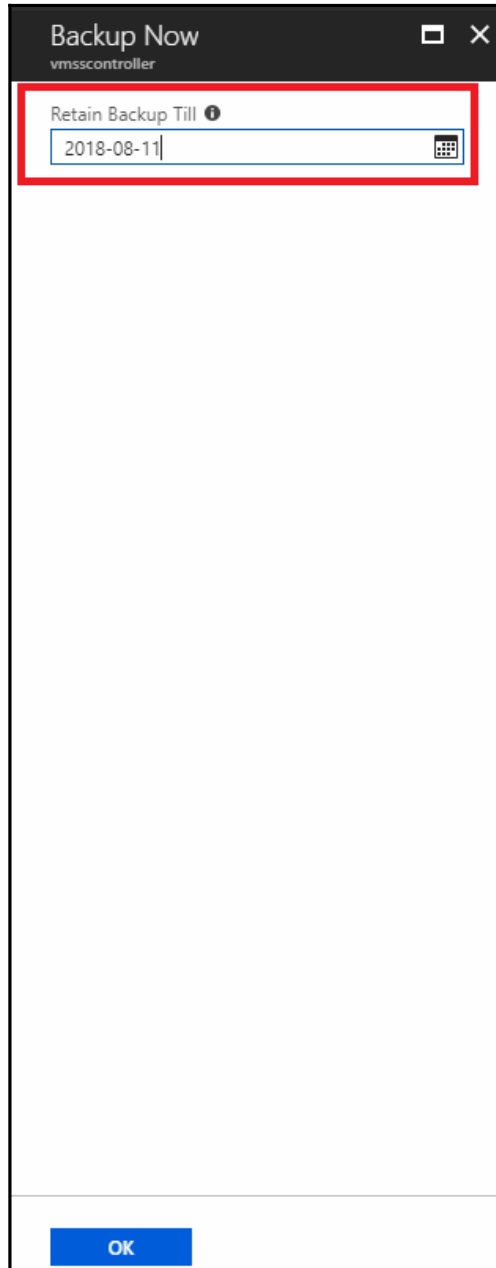
Refresh Add Filter

Fetching data from service completed.

Filter items ...

NAME	RESOURCE GROUP	BACKUP PRE-CHECK	LAST BACKUP STATUS	LATEST RESTORE POINT
mastermode-0	vmss-test-rg	Passed	Warning(Initial backu...	...
mastermode-1	vmss-test-rg	Passed	Warning(Initial backu...	...
mastermode-2	vmss-test-rg	Passed	Warning(Initial backu...	...
vmsscontroller	vmss-test-rg	Passed	Failed	...

- Pin to dashboard
- Backup now
- Restore VM
- File Recovery
- Stop backup
- Delete backup data



Home > Resource groups > testinfra70533RSV-rg > testinfra70533RSV - Backup items > Backup Items (Azure Virtual Machine)

Backup Items (Azure Virtual Machine)

testinfra70533RSV

Refresh + Add Filter

Fetching data from service completed.

Filter items ...

NAME	RESOURCE GROUP	BACKUP PRE-CHECK	LAST BACKUP STATUS	LATEST RESTORE POINT
masternode-0	vmss-test-rg	Passed	Warning(Initial backu...	...
masternode-1	vmss-test-rg	Passed	Success	7/12/2018, 4:49:51 PM
masternode-2	vmss-test-rg	Passed	Success	7/12/2018, 4:48:17 PM
vmsscontroller	vmss-test-rg	Passed	Success	7/12/2018, 4:27:20 PM

Home > Resource groups > testc4solutionrg > test - Backup Items > Backup Items (Azure Virtual Machine)

Backup Items (Azure Virtual Machine)

test

Refresh + Add Filter

Fetching data from service completed.

Filter items ...

NAME	RESOURCE GROUP	BACKUP PRE-CHECK	LAST BACKUP STATUS	LATEST RESTORE POINT
testvmrsakey	testc4solutionrg	Passed	Success	7/17/2018, 12:36:44 AM

- Pin to dashboard
- Backup now
- Restore VM
- File Recovery
- Stop backup
- Delete backup data

Home > Resource groups > testc4solutionrg > test - Backup items > Backup Items (Azure Virtual Machine) > Restore > Select restore point

Restore

1 Restore point
Select

2 Restore configuration
Configure

Select restore point

Filter

Filtered for last 30 days

CRASH CONSISTENT APPLICATION CONSISTENT FILE-SYSTEM CONSISTENT

Filter items... All restore points

TIME	CONSISTENCY
7/17/2018, 12:36:44 AM	Crash Consistent

Restore OK

Home > Resource groups > testc4solutionrg > test - Backup items > Backup Items (Azure Virtual Machine) > Restore

Restore

- 1 Restore point
7/17/2018, 12:36:44 AM ✓
- 2 Restore configuration
Configure >

Restore

Restore configuration

To create an alternate configuration when restoring your VM (from the following menus), use PowerShell cmdlets.

Restore Type ⓘ
Create virtual machine ▾

* Virtual machine name ⓘ
Toberestored ✓

* Resource group ⓘ
testc4solutionrg ▾

* Virtual network ⓘ
testvnetbasicapp (testc4solutionrg) ▾

* Subnet ⓘ
default ▾

* Staging Location ⓘ
testc4solutionrgdiag481 (StandardLRS) ▾
[Can't find your storage account ?](#)

OK

Home > Resource groups > testc4solutionrg > testvmrsakey > Configure disaster recovery

testvmrsakey Virtual machine

testvmrsakey Configure disaster recovery

Search (Ctrl+/)

- Size
- Security
- Extensions
- Continuous delivery (Preview)
- Availability set
- Configuration
- Properties
- Locks
- Automation script

OPERATIONS

- Auto-shutdown
- Backup
- Disaster recovery
- Update management
- Inventory
- Change tracking
- Run command

MONITORING

- Metrics

Welcome to Azure Site Recovery
 You can replicate your virtual machines to another Azure region for business continuity and disaster recovery needs. You can conduct periodic DR drills to ensure you meet the compliance needs. The VM will be replicated with the specified settings to the selected region so that you can recover your applications in the event of outages in source region. [Learn more about Azure Site Recovery.](#)

* Target region
 North Europe

Target settings

	SOURCE	TARGET	
VM resource group	testc4solutionrg	(new) testc4sol... ▾	ⓘ
Availability set	Not Applicable	Not Applicable ▾	ⓘ
Virtual network	testvnetbasicapp	(new) testvnet... ▾	ⓘ

Storage settings [\[+\] Show details](#)
 A new cache storage account and 1 replica managed disk(s) will be created.

Replication settings [\[+\] Show details](#)
 A new recovery services vault and recovery policy will be created.

Extension settings [\[+\] Show details](#)
 Site Recovery manages site recovery extension updates for all your replicated items. 1 new automation account will be created.

Enable replication

Configure disaster recovery

testvmrsakey

A new recovery services vault and recovery policy will be created.

Extension settings [\[+\] Show details](#)

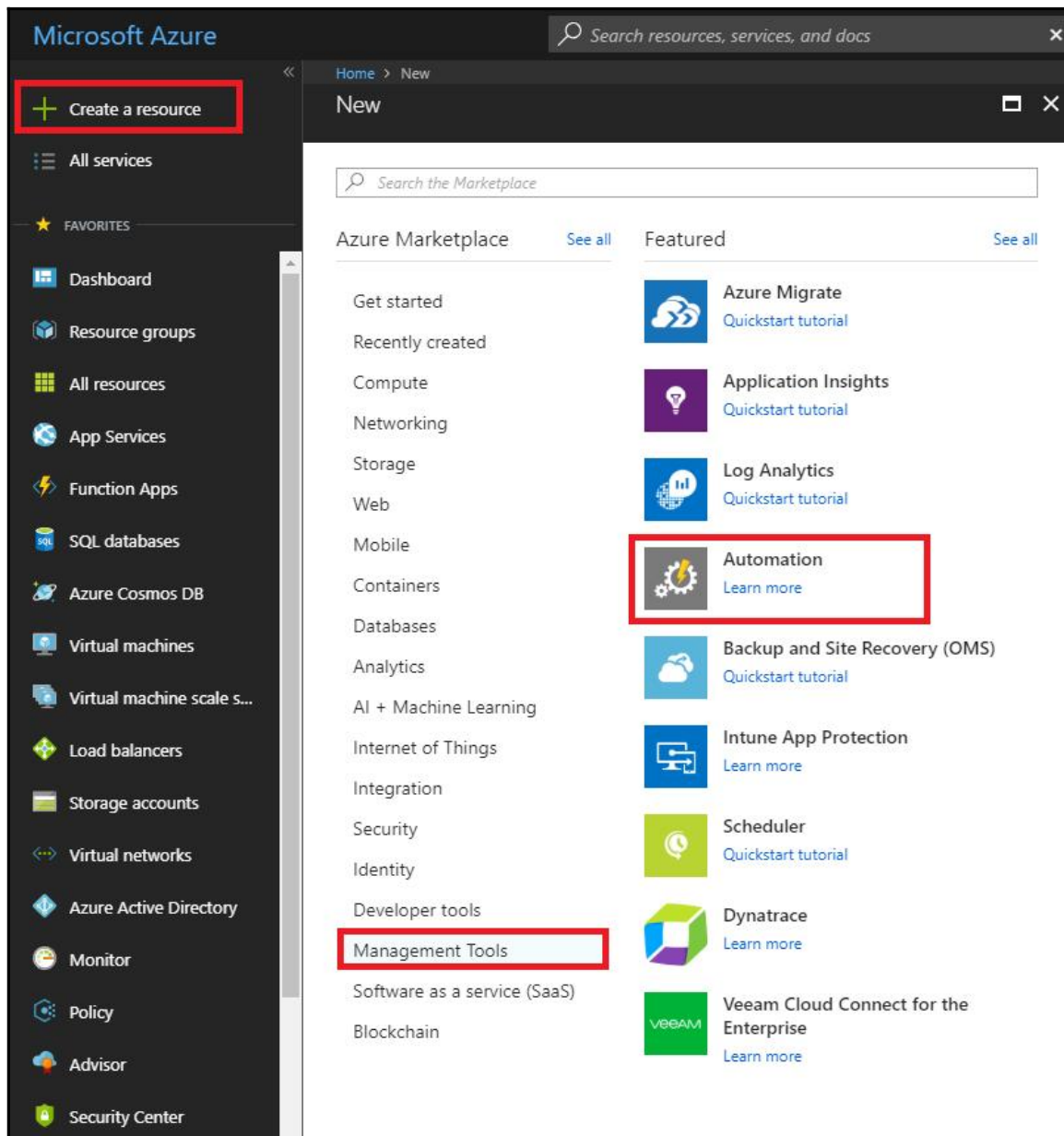
Site Recovery manages site recovery extension updates for all your replicated items. 1 new automation account will be created.

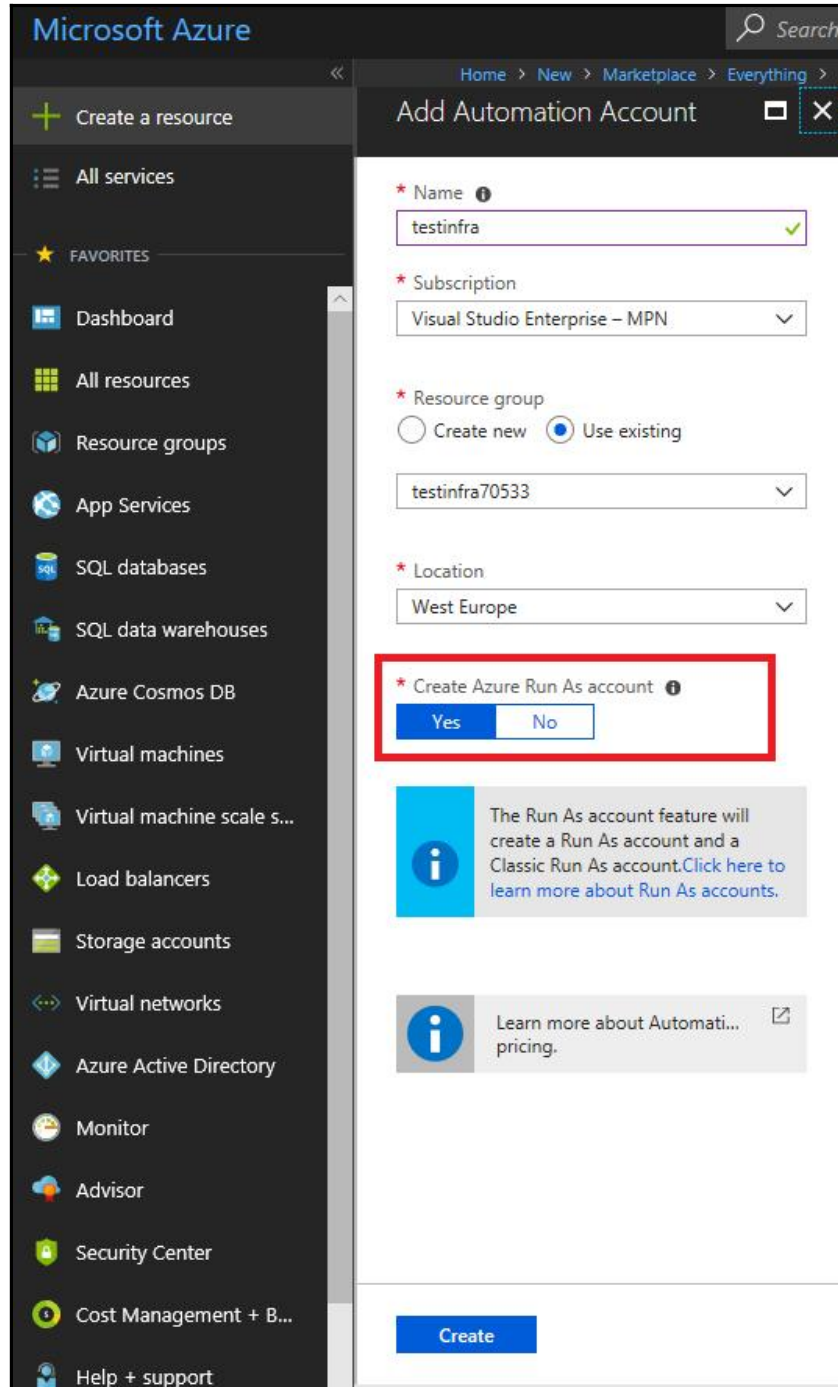


- Source region (West Europe)
- Selected target region (North Europe)
- Available target regions

Enable replication

Chapter 09: Managing Azure Operations and Automation





testinfra70533
Resource group

Search (Ctrl+/) << + Add Edit columns Delete resource group Refresh Move Assign tags

Subscription (change)
Visual Studio Enterprise – MPN Subscription ID
f38e1d90-3a11-460c-a4d2-186e1... Deployments
4 Succeeded

Tags (change)
Click here to add tags

Filter by name... All types All locations

9 items Show hidden types

<input type="checkbox"/>	NAME	TYPE	LOCATION
<input type="checkbox"/>	testinfra	Automation Account	West Europe
<input type="checkbox"/>	AzureAutomationTutorial (testinfra/AzureAutomationTutorial)	Runbook	West Europe
<input type="checkbox"/>	AzureAutomationTutorialPython2 (testinfra/AzureAutomation...)	Runbook	West Europe
<input type="checkbox"/>	AzureAutomationTutorialScript (testinfra/AzureAutomationTut...)	Runbook	West Europe
<input type="checkbox"/>	AzureClassicAutomationTutorial (testinfra/AzureClassicAutoma...)	Runbook	West Europe
<input type="checkbox"/>	AzureClassicAutomationTutorialScript (testinfra/AzureClassicA...)	Runbook	West Europe
<input type="checkbox"/>	testinfracdn	CDN profile	West Europe
<input type="checkbox"/>	testinfracdn (testinfracdn/testinfracdn)	Endpoint	West Europe
<input type="checkbox"/>	testinfrafs	Storage account	West Europe

Home > testinfra - Runbooks

testinfra - Runbooks
Automation Account

Search (Ctrl+/) << + Add a runbook Browse gallery Refresh

Search runbooks...

NAME	AUTHORING STATUS	LAST MODIFIED	TAGS
AzureAutomationTutorial	✓ Published	7/19/2018 5:53 PM	
AzureAutomationTutorialPython2	✓ Published	7/19/2018 5:53 PM	
AzureAutomationTutorialScript	✓ Published	7/19/2018 5:53 PM	
AzureClassicAutomationTutorial	✓ Published	7/19/2018 5:53 PM	
AzureClassicAutomationTutorial...	✓ Published	7/19/2018 5:53 PM	

CONFIGURATION MANAGEMENT

- Inventory
- Change tracking
- DSC nodes
- DSC configurations
- DSC configurations gallery (P...
- DSC node configurations

UPDATE MANAGEMENT

- Update management

PROCESS AUTOMATION

- Runbooks**
- Jobs
- Runbooks gallery
- Hybrid worker groups
- Watcher tasks

Home > testinfra - Runbooks > Add Runbook > Runbook

Add Runbook

Quick Create
Create a new runbook

Import
Import an existing runbook

Runbook

* Name ⓘ
started-runbook-infra70533 ✓

* Runbook type ⓘ
PowerShell ▾

Description
Simple sample runbook ✓

Create

Home > Resource groups > testinfra70533 > testinfra - Runbooks > Add Runbook > Import

Add Runbook

Quick Create
Create a new runbook

Import
Import an existing runbook

Import

Runbook

Select a file smaller than 1 MB to import.

* Runbook file ⓘ

* Runbook type ⓘ
PowerShell

* Name
 ✓

Description
 ✓

Create

[+ Add a runbook](#)
[Browse gallery](#)
[Refresh](#)

NAME	AUTHORING STATUS	LAST MODIFIED	TAGS
AzureAutomationTutorial	✓ Published	7/19/2018 5:53 PM	
AzureAutomationTutorialPython2	✓ Published	7/19/2018 5:53 PM	
AzureAutomationTutorialScript	✓ Published	7/19/2018 5:53 PM	
AzureClassicAutomationTutorial	✓ Published	7/19/2018 5:53 PM	
AzureClassicAutomationTutorial...	✓ Published	7/19/2018 5:53 PM	
started-runbook-infra70533	☀ New	7/20/2018 10:10 AM	

Home > testinfra - Runbooks > started-runbook-infra70533 > Edit PowerShell Runbook > Test

Save
 Publish
 Revert to published
 Check in
 Test pane
 Feedback

▶ CMDLETS
 ▶ RUNBOOKS
 ▶ ASSETS

```

1 param
2 (
3     [Parameter(Mandatory=$false)]
4     [String] $testname = "runbook"
5 )
6
7 "$testname test ok"
  
```

Test
started-runbook-infra70533

▶ Start ■ Stop || Suspend ↺ Resume ⌚ View last test

Parameters

TESTNAME ⓘ
Default will be used
Optional, String, Default: "runbook"

Run Settings

Run on Azure ⓘ

Using a hybrid runbook worker can increase test performance.
[Learn more](#)

Activity-level tracing

This configuration is available only for graphical runbooks.

Trace level

None Basic Detailed

Completed

runbook test ok

Home > testinfra - Runbooks > started-runbook-infra70533 > Edit PowerShell Runbook > Test

Edit PowerShell Runbook

started-runbook-infra70533

Save Publish Revert to published Check in Test pane Feedback

- CMDLETS
- RUNBOOKS
- ASSETS

```
1 param
2 (
3     [Parameter(Mandatory=$false)]
4     [String] $testname = "runbook"
5 )
6
7 "$testname test ok"
```

- Save
- Publish**
- Revert to published
- Check in
- Test pane
- Feedback

Home > testinfra - Runbooks

testinfra - Runbooks
Automation Account

Search (Ctrl+/) << + Add a runbook Browse gallery Refresh

Search runbooks...

NAME	AUTHORING STATUS	LAST MODIFIED	TAGS
AzureAutomationTutorial	✓ Published	7/19/2018 5:53 PM	
AzureAutomationTutorialPython2	✓ Published	7/19/2018 5:53 PM	
AzureAutomationTutorialScript	✓ Published	7/19/2018 5:53 PM	
AzureClassicAutomationTutorial	✓ Published	7/19/2018 5:53 PM	
AzureClassicAutomationTutorial...	✓ Published	7/19/2018 5:53 PM	
started-runbook-infra70533	✓ Published	7/20/2018 10:29 AM	

CONFIGURATION MANAGEMENT

- Inventory
- Change tracking
- DSC nodes
- DSC configurations
- DSC configurations gallery (P...
- DSC node configurations

UPDATE MANAGEMENT

- Update management

PROCESS AUTOMATION

- Runbooks

Home > started-runbook-infra70533

started-runbook-infra70533
Runbook

Search (Ctrl+/) << ▶ Start </> View Edit Schedule Webhook Delete Export Refresh

Overview

Activity log

Tags

Diagnose and solve problems

RESOURCES

- Jobs
- Schedules
- Webhooks

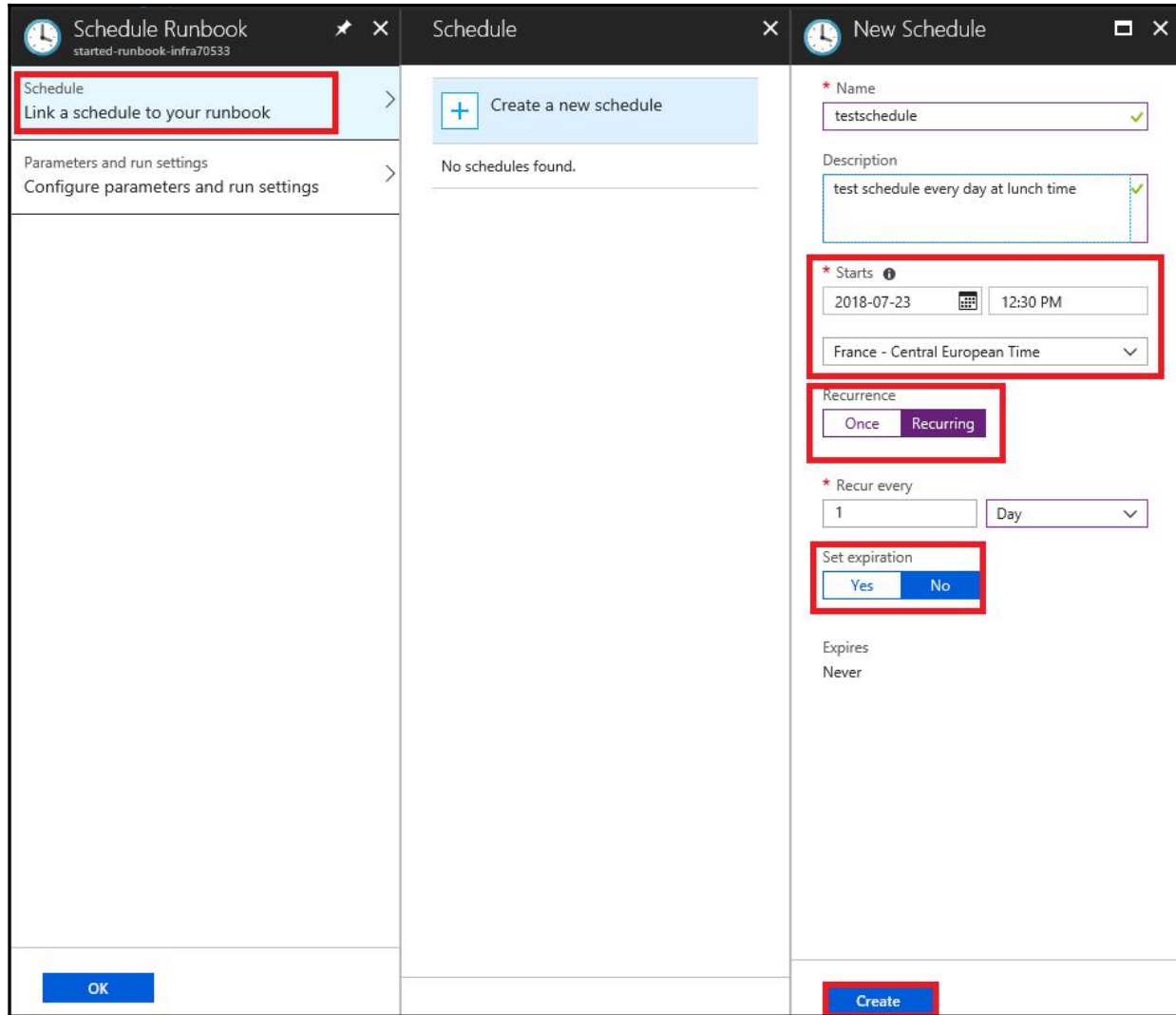
RUNBOOK SETTINGS

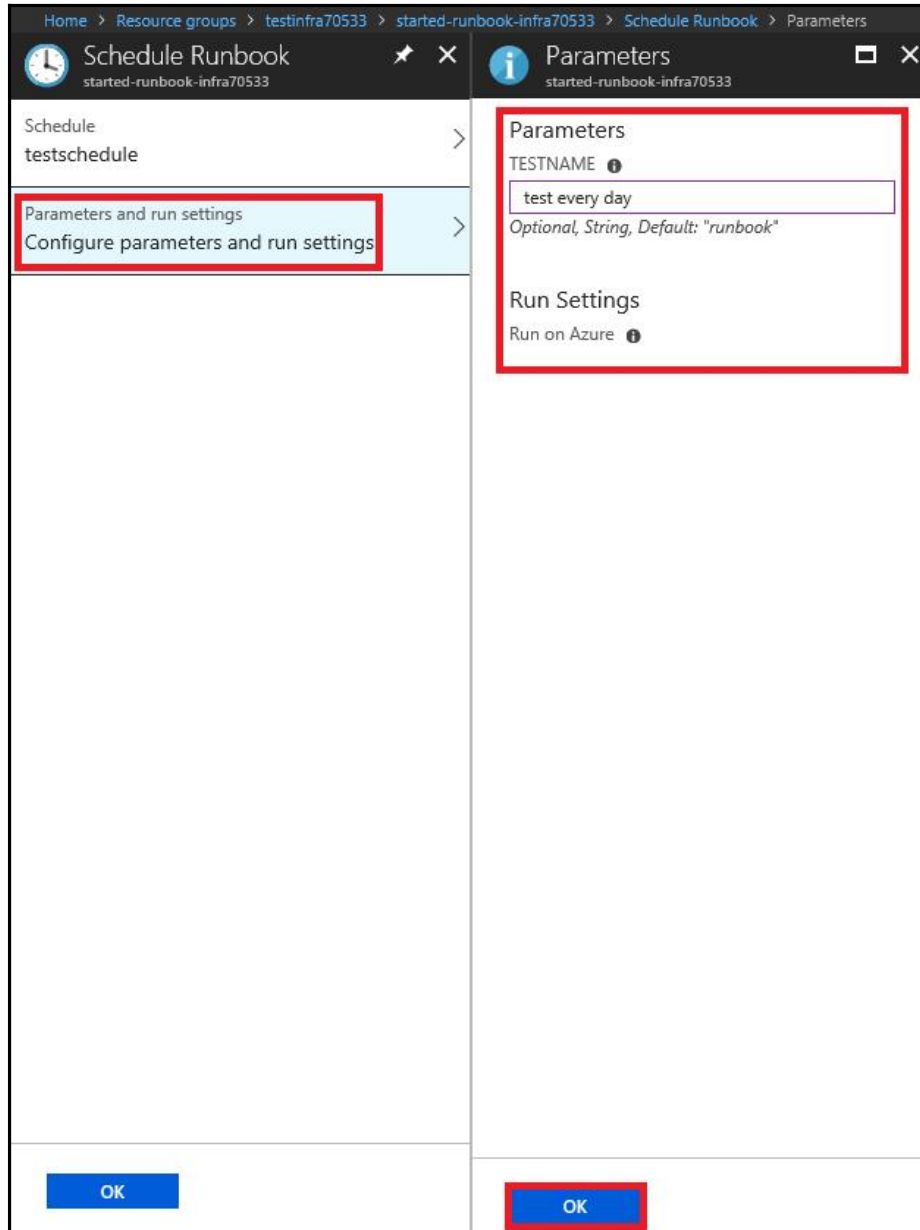
- Properties
- Description
- Logging and tracing

Resource group	Account	Location
testinfra70533	testinfra	West Europe
Subscription	Subscription ID	Status
Visual Studio Enterprise – MPN	f38e1d90-3a11-460c-a4d2-186e1...	Published
Runbook type	Last modified	
PowerShell Runbook	7/20/2018 10:56 AM	

Recent Jobs

STATUS	CREATED	LAST UPDATED
✓ Completed	7/20/2018 11:07:16 AM	7/20/2018 11:07:25 AM
✓ Completed	7/20/2018 10:36:32 AM	7/20/2018 10:36:41 AM





Home > Resource groups > testinfra70533 > started-runbook-infra70533 - Schedules

started-runbook-infra70533 - Schedules

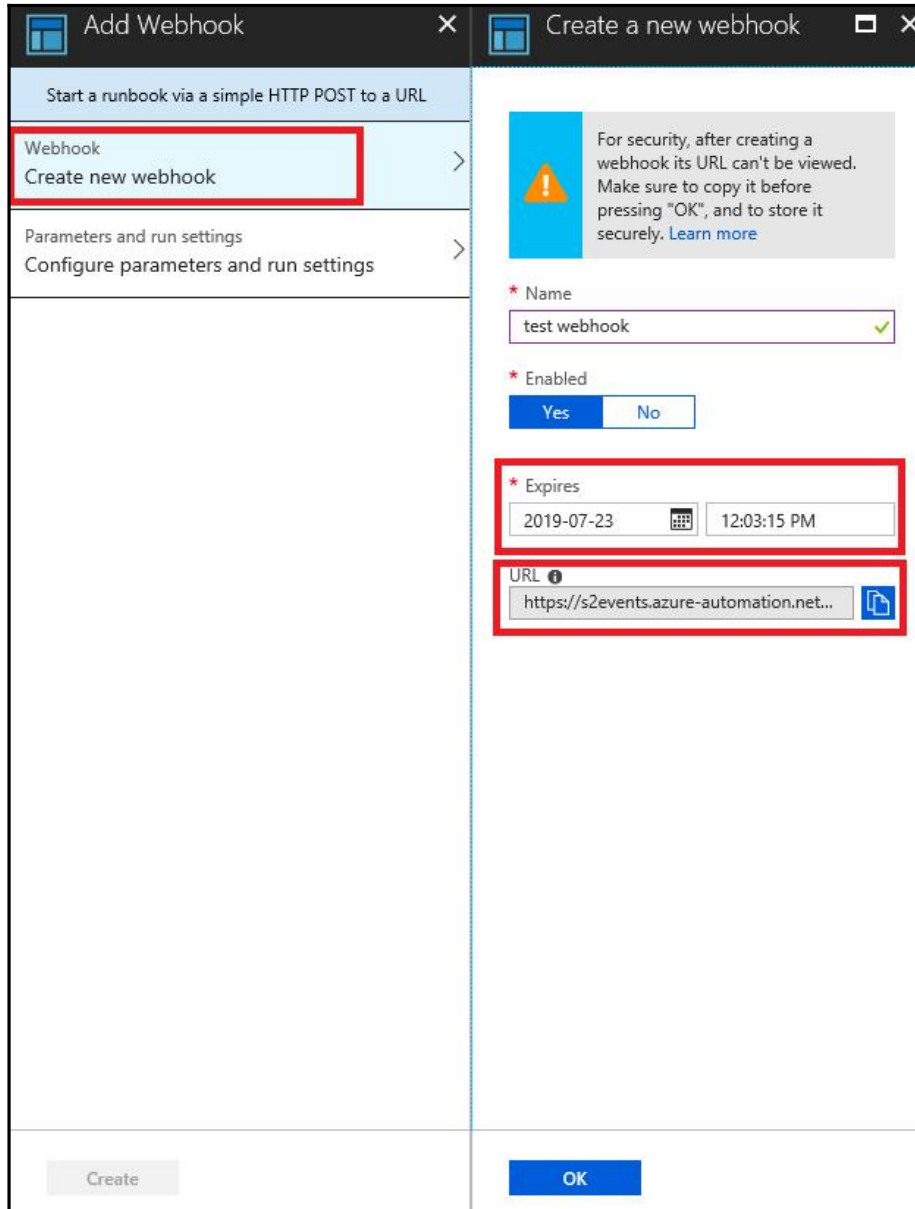
Runbook

Search (Ctrl+/) << **+ Add a schedule** Refresh

NAME	NEXT RUN	STATUS
testschedule	7/23/2018 12:30 PM (France Time)	✓ On

Left sidebar navigation:

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- RESOURCES
 - Jobs
 - Schedules**
 - Webhooks
- RUNBOOK SETTINGS
 - Properties
 - Description
 - Logging and tracing
- SETTINGS
 - Locks
 - Automation script
- SUPPORT + TROUBLESHOOTING
 - New support request



started-runbook-infra70533 - Webhooks
Runbook

Search (Ctrl+/) << **+ Add Webhook** Refresh

NAME	EXPIRATION	LAST TRIGGERED	STATUS
test webhook	7/23/2019 12:03 PM		✓ Enabled

Overview
Activity log
Tags
Diagnose and solve problems

RESOURCES

Jobs
Schedules
Webhooks

RUNBOOK SETTINGS

Properties
Description
Logging and tracing

Home > testinfra - DSC nodes

testinfra - DSC nodes
Automation Account

Search (Ctrl+/) << **+ Add Azure VM** Add Non-Azure Learn more Refresh Try new DSC experience Log search

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems

CONFIGURATION MANAGEMENT

Inventory
Change tracking
DSC nodes
DSC configurations
DSC configurations gallery (P...
DSC node configurations

UPDATE MANAGEMENT

Update management

PROCESS AUTOMATION

Runbooks
Jobs
Runbooks gallery
Hybrid worker groups

i Azure VMs managed by the configuration service do not incur a cost if they have the VM DSC extension version greater than 2.70 installed. Learn more about this price change and how to upgrade the extension.

DSC nodes: Search nodes... Status: 7 selected Node configuration name: Unassigned VM DSC extension version: 2 selected

NAME	STATUS	NODE CONFIGURATION	LAST SEEN	VM DSC EXTENSION
No DSC nodes found.				

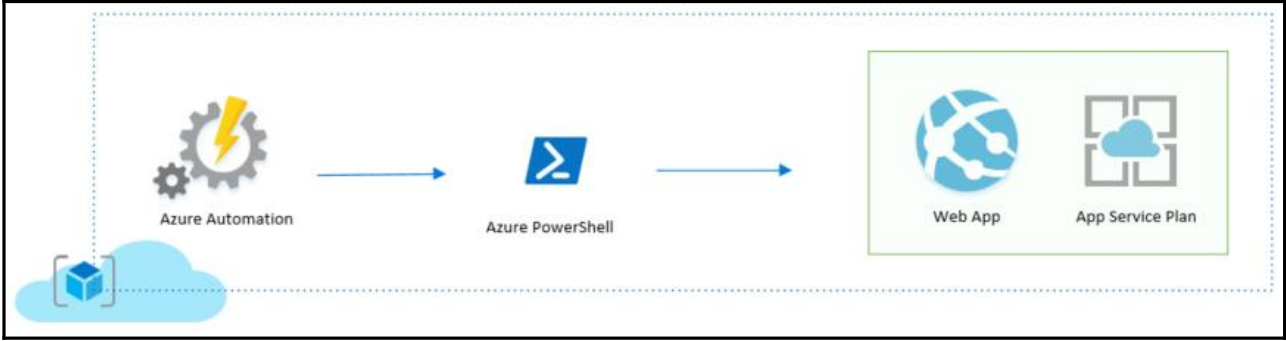
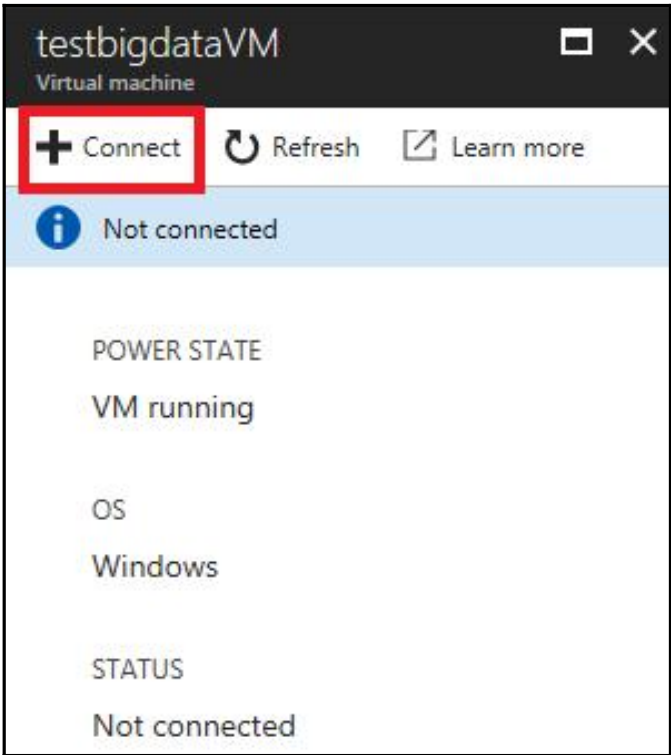
Home > testinfra - DSC nodes > Virtual Machines

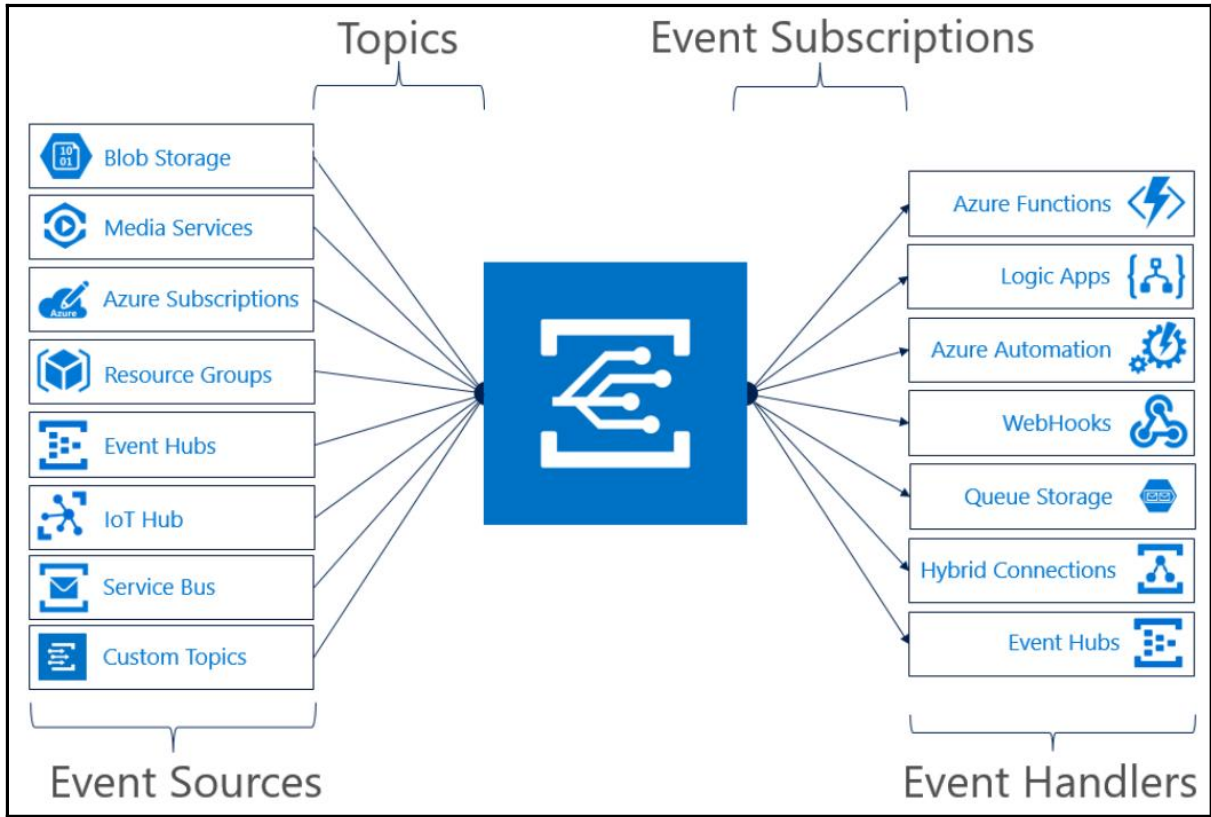
Virtual Machines
testinfra

Refresh

Filter by name... Visual Studio Dev Essentials 4 selected West Euro...

VIRTUAL MACHINES	SUBSCRIPTION	RESOURCE GROUP	LOCATION
testbigdataVM	Visual Studio Dev Essentials	testBigDataOnAzureRG	West Europe





Home > testinfra - Event grid > Create Event Subscription

Create Event Subscription

Event Grid

Create **Advanced Editor**

TOPIC DETAILS
Pick a topic resource for which events should be generated and pushed. [Learn more](#)

Topic Type 🔑 Subscription

Topic Resource [Visual Studio Enterprise – MPN](#) (change)

EVENT TYPES
Pick which event types get pushed to your destination. [Learn more](#)

Subscribe to all event types

Defined Event Types

ENDPOINT DETAILS
Pick an event handler to receive your events. [Learn more](#)

Endpoint Type 🔗 [Web Hook](#) (change)

Endpoint <https://s2events.azure-automation.net/webhooks?token=T9DXD...> (change)

EVENT SUBSCRIPTION DETAILS

Name ✓

Event Schema

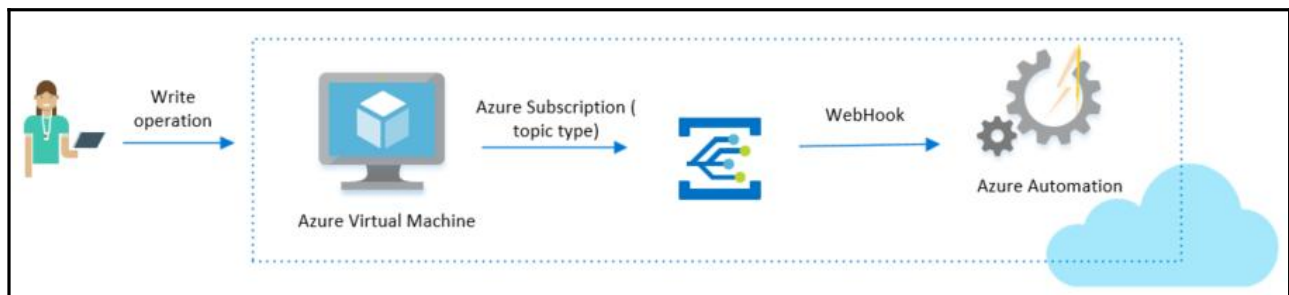
FILTERS

Subject Begins With

Subject Ends With

Labels ⊕ Add Label

Create



Microsoft Azure

Search resources, services, and docs

Home > testinfra - Runbooks > Browse Gallery > Filter

testinfra - Runbooks
Automation Account

Search (Ctrl+/)

+ Add a runbook Browse gallery Refresh

Search runbooks...

NAME	AUTHORING STATUS	LAST MODIFIED
AzureAutomationTutorial	✓ Published	7/19/2018 5:53 PM
AzureAutomationTutorialPython2	✓ Published	7/19/2018 5:53 PM
AzureAutomationTutorialScript	✓ Published	7/19/2018 5:53 PM
AzureClassicAutomationTutorial	✓ Published	7/19/2018 5:53 PM
AzureClassicAutomationTutorial...	✓ Published	7/19/2018 5:53 PM
started-runbook-infra70533	✓ Published	7/20/2018 10:56 AM

Inventory

Change tracking

DSC nodes

DSC configurations

DSC configurations gallery (P...

DSC node configurations

UPDATE MANAGEMENT

Update management

PROCESS AUTOMATION

Runbooks

Jobs

Runbooks gallery

Hybrid worker groups

Watcher tasks

SHARED RESOURCES

Schedules

Modules

Modules gallery

Credentials

Home > testinfra - Runbooks > Browse Gallery > Filter

Browse Gallery

Filter

event

Filter

Gallery Source
Script Center

Type

- PowerShell script
- Graphical runbook
- PowerShell workflow

Publisher

- Microsoft
- Community

OK

Watcher action that processes events triggered by a watcher runbook

PowerShell Runbook

This sample automation runbook is designed to be used in a watcher task that takes action on data passed in from a watcher runbook. It is required to have a parameter called \$EVENTDATA in watcher action runbooks to receive information from the watcher

Tags: [Runbook](#), [Automation Watcher](#)

Created by: SC Automation Product Team
Ratings: 5 of 5
559 downloads
Last updated: 11/17/2017

Integrating Azure Automation with Event grid

PowerShell Runbook

This sample Automation runbook integrates with Azure event grid subscriptions to get notified when a write command is performed against an Azure VM. The runbook adds a cost tag to the VM if it doesn't exist. It also sends an optional notification to a Microsoft

Tags: [Azure Automation](#), [Microsoft Azure Virtual Machines](#), [Event Grid](#)

Created by: SC Automation Product Team
380 downloads
Last updated: 11/28/2017

Sample monitor runbook to watch for event IDs in an Azure Virtual Machine.

PowerShell Workflow Runbook

This runbook looks for a specific event ID in an Azure VM so that an action could be taken. It should be used with the Manage-MonitorRunbook runbook. Please refer to <http://azure.microsoft.com/blog/2014/11/17/monitoring-azure-services-and-external->

Tags: [Tutorial](#)

Created by: SC Automation Product Team
Ratings: 5 of 5
613 downloads
Last updated: 11/18/2014

Azure: ARM Virtual Network Gateway Diagnostics (VPN)

PowerShell Runbook

This script sample demonstrates how the Azure Virtual Networks PowerShell cmdlets can be utilized to gather Azure Gateway Diagnostics data. This logging is useful for troubleshooting VPN connection issues, and includes messages such as MainMode SA

Tags: [Microsoft Azure](#), [Networking](#), [vpn monitor](#)

Created by: symevent_ninja
Ratings: 3 of 5
519 downloads
Last updated: 6/21/2016

Event Hub - Sample data generator

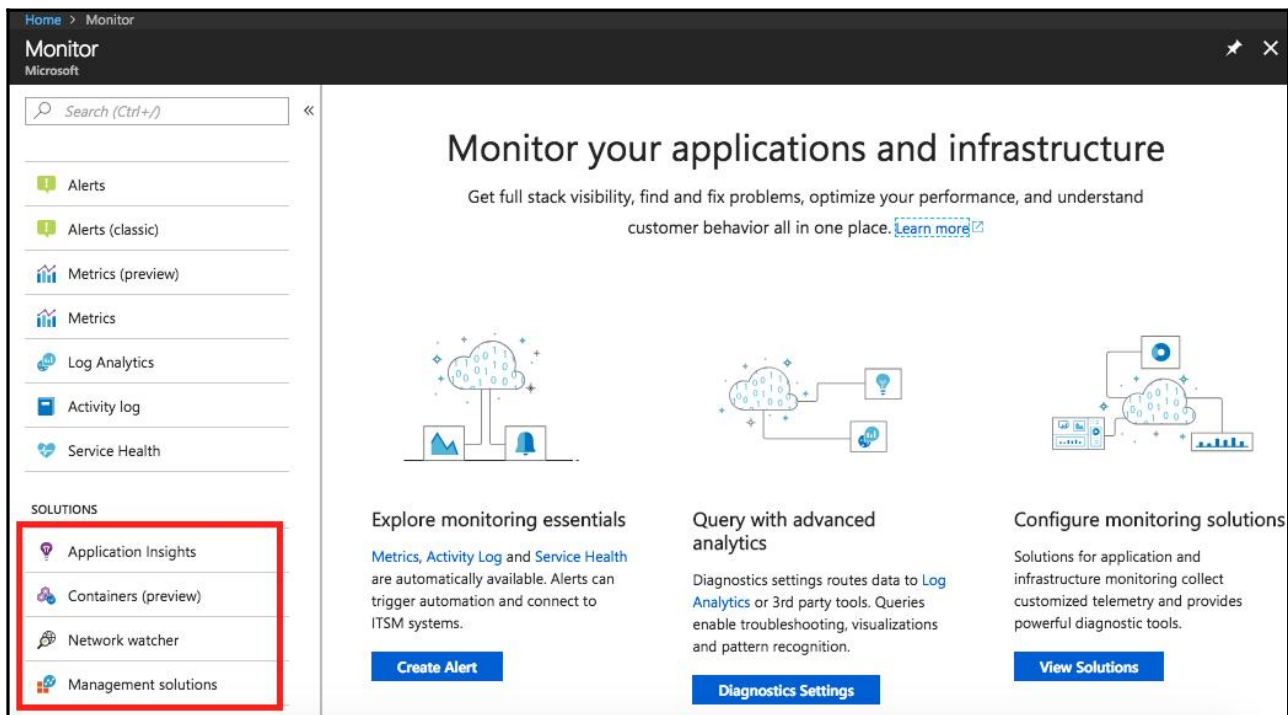
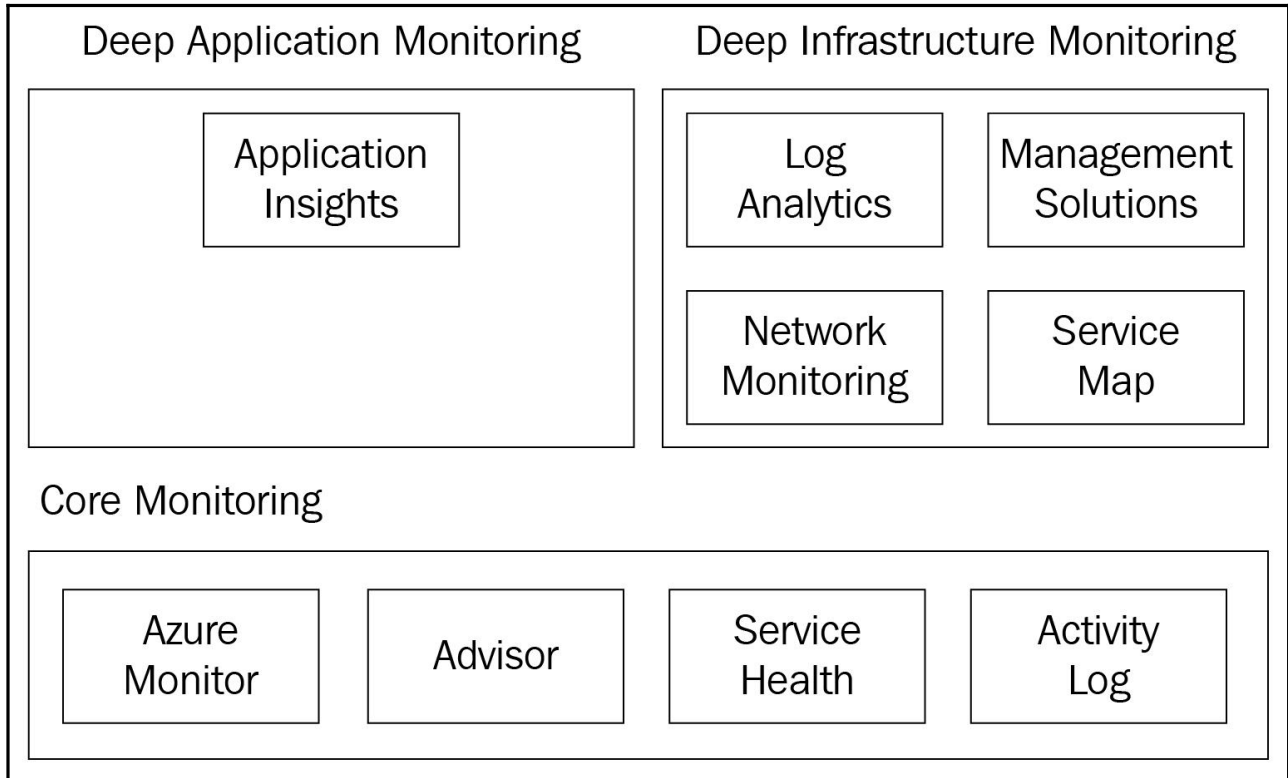
PowerShell Runbook

Generates sample Events for an Azure Event Hub. The sample data is specific to temperature sensor data and should be used inside an Azure Automation Runbook on a schedule. For best results I'd suggest creating a Stream Analytics job with your Event Hub

Tags: [Microsoft Azure](#), [Powershell](#), [Event Hub](#)

Created by: GordonB007
315 downloads
Last updated: 3/3/2016

[Find-AzureEndPoints](#)



Home > Advisor recommendations

Advisor recommendations

[Download as CSV](#)
[Download as PDF](#)
[Configure](#)

Subscriptions: All 2 selected – Don't see a subscription? [Open Directory + Subscription settings](#)

All subscriptions | All types | Active | No grouping

Overview | **High Availability (1)** | Security (7) | Performance (0) | Cost (0) | All (8)

High Availability

1 Recommendation

0 High impact | 0 Medium impact | 1 Low impact

1 Impacted resource

Security

7 Recommendations

7 High impact | 0 Medium impact | 0 Low impact

10 Impacted resources

Performance

There are no performance recommendations at this time.

Home > Advisor recommendations

Advisor recommendations

[Download as CSV](#)
[Download as PDF](#)
[Configure](#)

Subscriptions: All 2 selected – Don't see a subscription? [Open Directory + Subscription settings](#)

All subscriptions | All types | Active | No grouping

Overview | **High Availability (1)** | Security (7) | Performance (0) | Cost (0) | All (8)

Total recommendations 1

Recommendations by impact
 High 0
 Medium 0
 Low 1

Impacted resources 1

IMPACT	DESCRIPTION	POTENTIAL BENEFITS	IMPACTED RESOURCES	UPDATED AT
Low	Create an Azure service health alert	Get notified when Azure service issues affect you	1 Subscription	7/22/2018, 7:32:56 PM

Resource group - Activity log

Search (Ctrl+/)

Columns Export Log Analytics

Quick Insights: Failed deployments | Role assignments | Errors | Alerts fired | Outage notifications

* Subscription Resource group Resource Resource type Operation

Timespan Event category * Event severity Event initiated by Search

Last month All categories 4 selected Email or name or se...

Apply Reset

Query result has exceeded the internal data size limit and returned the top 237 items. Update filters to get all items or [Click here to download all the items as csv.](#)

OPERATION NAME	STATUS	TIME	TIME STAMP	SUBSCRIPTION	EVENT INITIATED BY
Create new OMS solution	Succeeded	18 min ago	Wed Jul 18 2...		melony_qini
Create Deployment	Succeeded	28 min ago	Wed Jul 18 2...		melony_qini
Start Virtual Machine	Succeeded	8 h ago	Wed Jul 18 2...		
Start Virtual Machine	Succeeded	8 h ago	Wed Jul 18 2...		
Start Virtual Machine	Succeeded	8 h ago	Wed Jul 18 2...		
Deallocate Virtual Machi	Succeeded	14 h ago	Wed Jul 18 2...		
Deallocate Virtual Machi	Succeeded	14 h ago	Wed Jul 18 2...		
Deallocate Virtual Machi	Succeeded	14 h ago	Wed Jul 18 2...		
Start Virtual Machine	Succeeded	18 h ago	Tue Jul 17 20...		
Start Virtual Machine	Succeeded	18 h ago	Tue Jul 17 20...		
Start Virtual Machine	Succeeded	18 h ago	Tue Jul 17 20...		
Deallocate Virtual Machi	Succeeded	19 h ago	Tue Jul 17 20...		CloudOpsAutomationAc


Home > Service Health - Service issues

Service Health - Service issues

Search (Ctrl+/) << Select filter ...

* Subscription 2 selected * Region 5 selected * Service 140 selected

Save filter Delete filter Pin filtered world map to dashboard Create service health alert



No service issues found

See all past issues in the health history.

[Launch guided tour](#)

ACTIVE EVENTS

- Service issues
- Planned maintenance
- Health advisories

HISTORY

- Health history

RESOURCE HEALTH

- Resource health

ALERTS

- Health alerts

Home > Microsoft.ServiceMapOMS - Overview > ServiceMap(defaultworkspace-f38e1d90-3a11-460c-a4d2-186e1660d993-weu) - Virtual machines

ServiceMap(defaultworkspace-f38e1d90-3a11-460c-a4d2-186e1660d993-weu) - Virtual machines

Refresh ? Help

Filter by name... 8 selected 2 selected 2 selected 4 selected

NAME	OMS CONNECTION	OS	SUBSCRIPTION	RESOURCE GROUP
melonDLVM	Not connected	Windows	f38e1d90-3a11-460c-a4...	melonMLRG
melonvm	This workspace	Windows	f38e1d90-3a11-460c-a4...	melonRG
RHELmelon	Not connected	Linux	f38e1d90-3a11-460c-a4...	rhelRG
testbigdataVM	Not connected	Windows	5efcdf8d-8da8-4993-9c...	testBigDataOnAzureRG

Diagnose and solve problems

SETTINGS

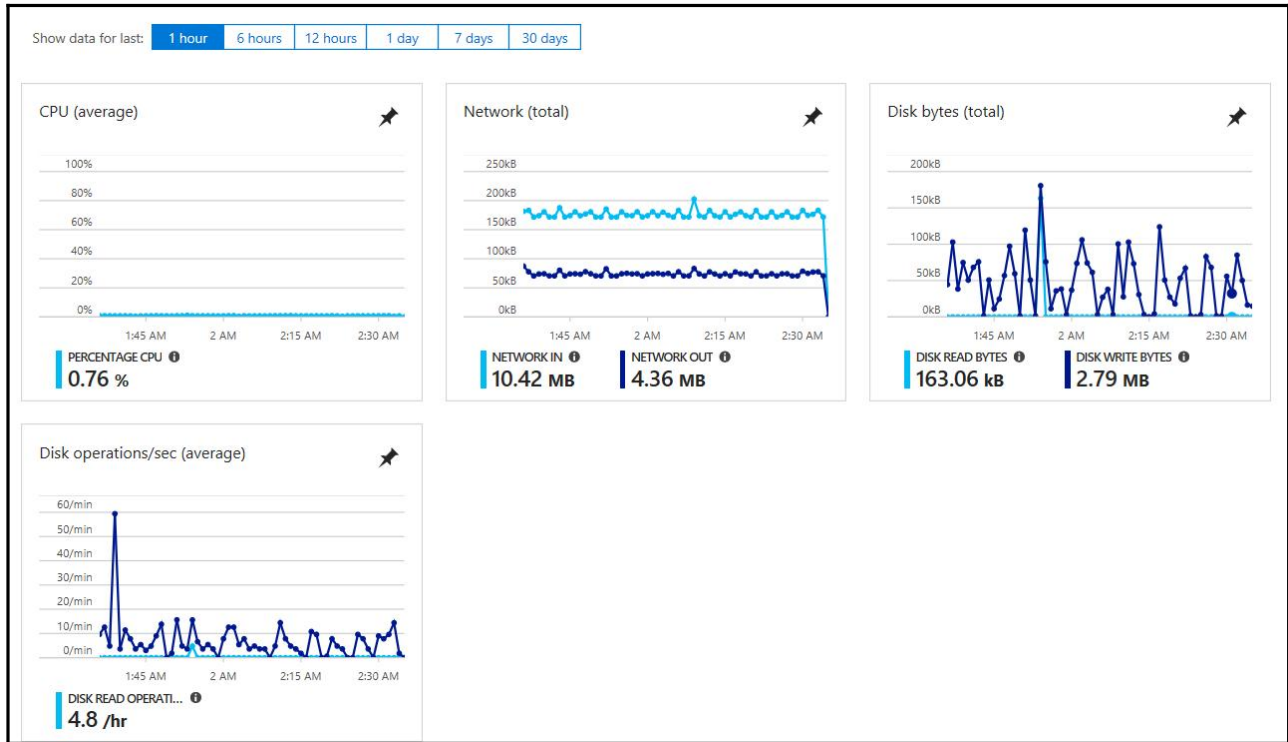
- Locks
- Automation script

GENERAL

- OMS Workspace
- Properties
- Saved searches

WORKSPACE DATA SOURCES

- Virtual machines
- Storage accounts logs
- Azure Activity log



Home > infravmazurecli - Metrics

infravmazurecli - Metrics
Virtual machine

Search (Ctrl+F)

Diagnostics settings + Add metric alert (classic)

Launch the preview of the new metrics experience.

* Subscription: Visual Studio Enterprise - MPN * Resource group: testinfravmazurecli Resource type: 2 selected * Resource: infravmazurecli (Virtual Machines)

Available metrics

All subcontainers

Filter metrics...

You can only select metrics of the same unit (count)

- [Host] CPU Credits Consumed
- [Host] CPU Credits Remaining
- [Host] Data Disk QD
- [Host] Data Disk Read Bytes/Sec
- [Host] Data Disk Read Operations/Sec
- [Host] Data Disk Write Bytes/Sec
- [Host] Data Disk Write Operations/Sec
- [Host] Disk Read Bytes
- [Host] Disk Read Operations/Sec
- [Host] Disk Write Bytes
- [Host] Disk Write Operations/Sec
- [Host] Network In
- [Host] Network Out
- [Host] OS Disk QD
- [Host] OS Disk Read Bytes/Sec
- [Host] OS Disk Read Operations/Sec
- [Host] OS Disk Write Bytes/Sec
- [Host] OS Disk Write Operations/Sec
- [Host] Percentage CPU

No title

NO SUBTITLE

Chart type: Line Time range: Past 24 hours Pin to dashboard

0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

6 AM 12 PM 6 PM Apr 16

CPU CREDITS CONS... 0 **CPU CREDITS REMA...** 0 **DATA DISK QD** 0 **OS DISK QD** 0

No alerts configured for this resource. Click to add an alert.

Add activity log alert

* Activity log alert name ✓

Description ✓

* Subscription ▼

* Resource group ▼

Source
Input

Criteria

* Event category ▼

* Service(s) ▼

* Region(s) ▼

* Type ▼

Alert via
Action group New Existing

* Action group name ✓

* Short name ✓

Actions

ACTION NAME	ACTION TYPE	STATUS	DETAILS
<input type="text" value="email"/> ✓	<input type="text" value="Email/SMS/Push/Voice"/> ▼		<input type="text" value="Edit details"/> Edit details

Email/SMS/Push/Voice

Name

Email

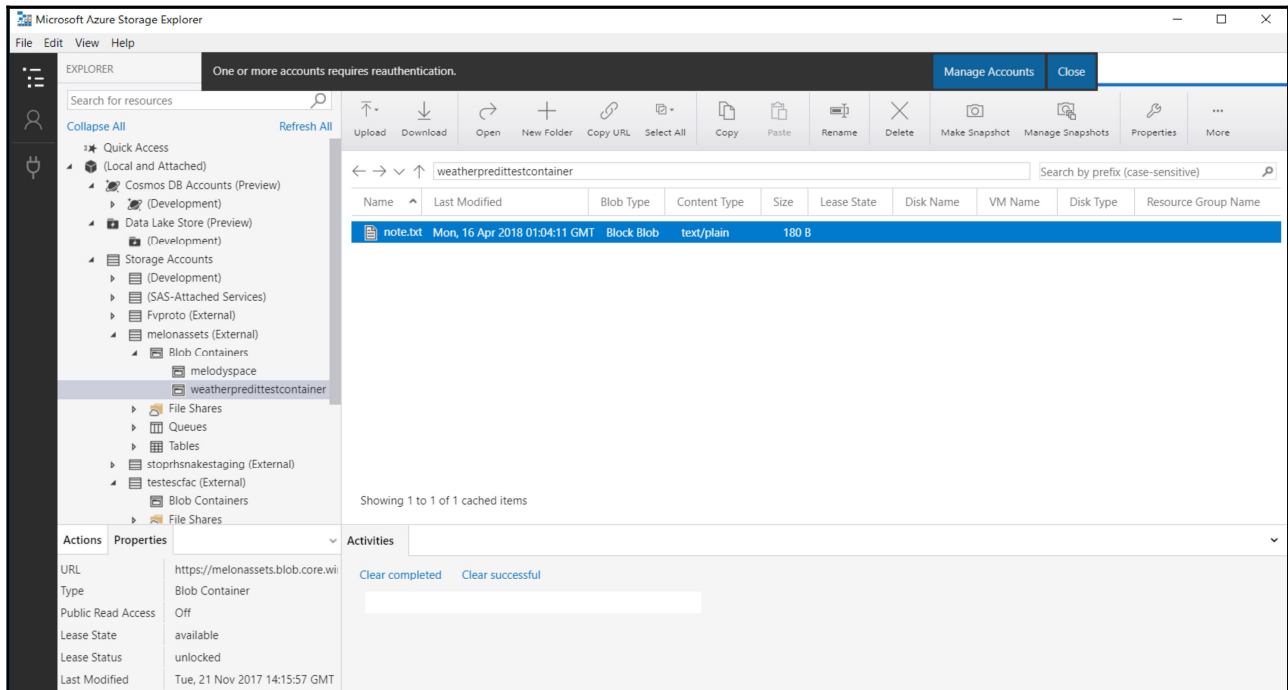
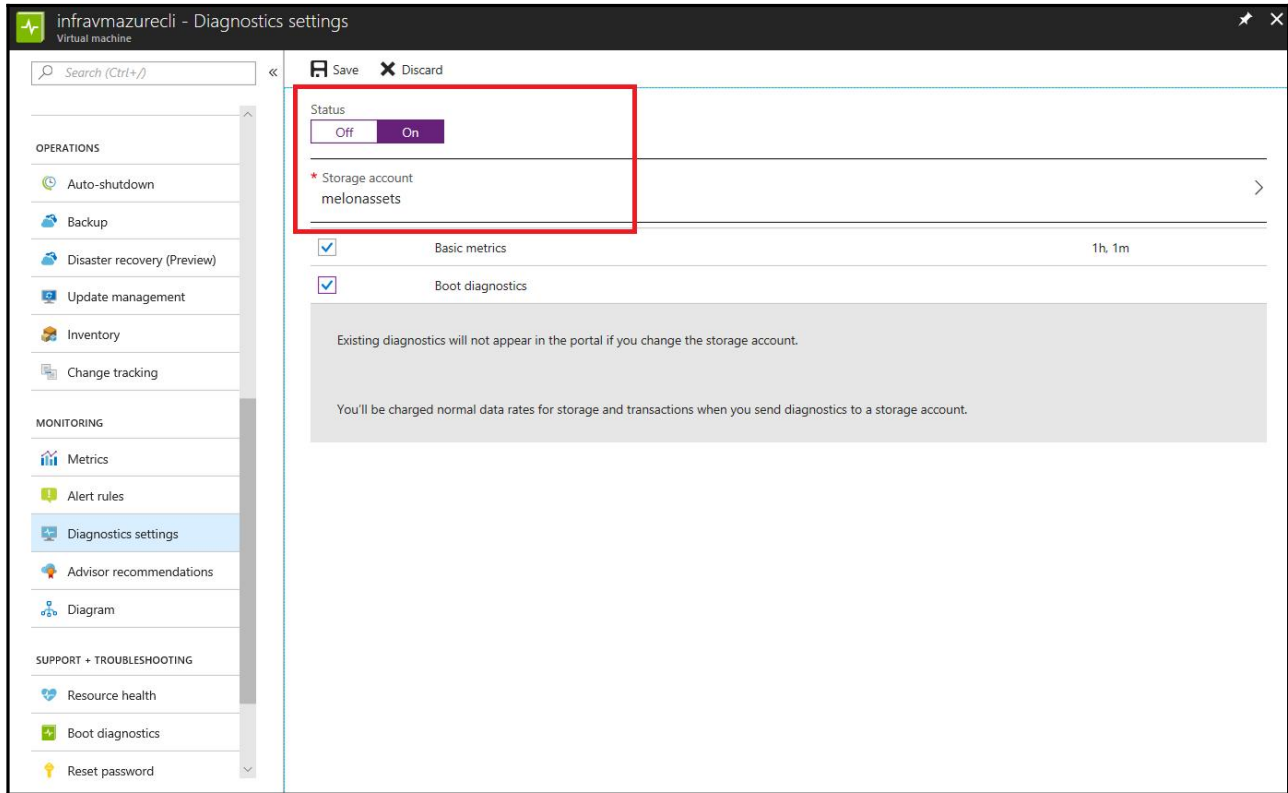
SMS
Country code ▼ * Phone number

Carrier charges may apply.

Azure app Push Notifications
[Learn about the connecting to your Azure resources using the Azure app.](#)

✓
This is the email you use to log into your Azure account.

Voice
Country code ▼ * Phone number



Home > New > Log Analytics > Log analytics workspace

Log analytics workspace

Create new or link existing one created in OMS Portal

Create New Link Existing

* OMS Workspace ⓘ

* Subscription

* Resource group ⓘ

Create new Use existing

* Location

West Europe

* Pricing tier

Free

Pin to dashboard

OK

Pricing Tier

The cost of your workspace depends on the pricing tier and what solutions you use. Learn more about [Log Analytics pricing](#).

This subscription is currently in an older pricing model with access to multiple pricing tiers. Learn more about the [new pricing model](#) and [assessing if you should adopt it](#). Change the monitoring pricing model for this subscription on the Pricing model selection page under Monitor > Usage and estimated costs.

Pricing Tier

Per Node (OMS) ▼

To use Operations Management Suite entitlements choose "Per Node (OMS)".

OK

Home > MicrosoftLogAnalyticsOMS - Overview > testvmssansible > Advanced settings

Log Analytics

Search (Ctrl+/)

Refresh Analytics

Connected Sources >

- Data >
- Computer Groups >

Windows Servers >

- Linux Servers >
- Azure Storage >
- System Center >

Linux Servers

Attach any Linux server or client.

0 LINUX COMPUTERS CONNECTED

[Download Agent for Linux](#)

You'll need the Workspace ID and Key to install the agent.

WORKSPACE ID

69aa15cf-b254-4dfd-8053-49458188a48d

PRIMARY KEY

NuWam4sfIXlLb4XxCdKdRmZY+WnBijOVNI [Regenerate](#)

SECONDARY KEY

zH6LEYNV3XuixMU7L+wdQNeBpRcQOrv/q [Regenerate](#)

DOWNLOAD AND ONBOARD AGENT FOR LINUX

wget https://raw.githubusercontent.com/Microsoft/OMS-Agent-for-

Navigation menu (left): Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, SETTINGS (Automation script, **Advanced settings**), GENERAL (Quick Start, Workspace summary, View Designer, Log Search).

Home > Resource groups > vmss-test-rg > testvmssansible

Log Analytics

Search (Ctrl+V)

OMS Portal Delete

Essentials ^

Resource group (change)	Workspace Name
Status	Workspace id
Active	69aa15cf-b254-4dfd-8053-49458188a48d
Location	Pricing tier
West Europe	Free
Subscription name (change)	Management services
Subscription ID	Operations logs

Get started with Log Analytics

Log Analytics collects data from a variety of sources and uses a powerful query language to give you insights into the operation of your applications and resources. Use Azure Monitor to access the complete set of tools for monitoring all of your Azure resources

Learn more

- [Transitioning from OMS Portal](#)
- [FAQ's](#)
- [Documentation site](#)
- [Community](#)

- 1 Connect a data source**
Select one or more data sources to connect to the workspace
[Azure virtual machines \(VMs\)](#)
[Windows, Linux and other sources](#)
[Azure Activity logs](#)
- 2 Configure monitoring solutions**
Add monitoring solutions that provide insights for applications and services in your environment
[View solutions](#)

Maximize your Log Analytics experience

- Search and analyze logs**
Use Log Analytics rich query language to analyze logs
[View logs](#)
- Manage alert rules**
Notify or take action in response to important information in your data
[Set alerts](#)

Log Analytics Navigation:

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- SETTINGS
 - Locks
 - Automation script
 - Advanced settings
- GENERAL
 - Quick Start
 - Workspace summary
 - View Designer
 - Log Search
 - Solutions
 - Pricing tier
 - Usage and estimated costs
 - Properties
 - Saved searches

Home > testvmssansible - Virtual machines

Log Analytics

Search (Ctrl+/) << Refresh ? Help

Filter by name... 8 selected 2 selected

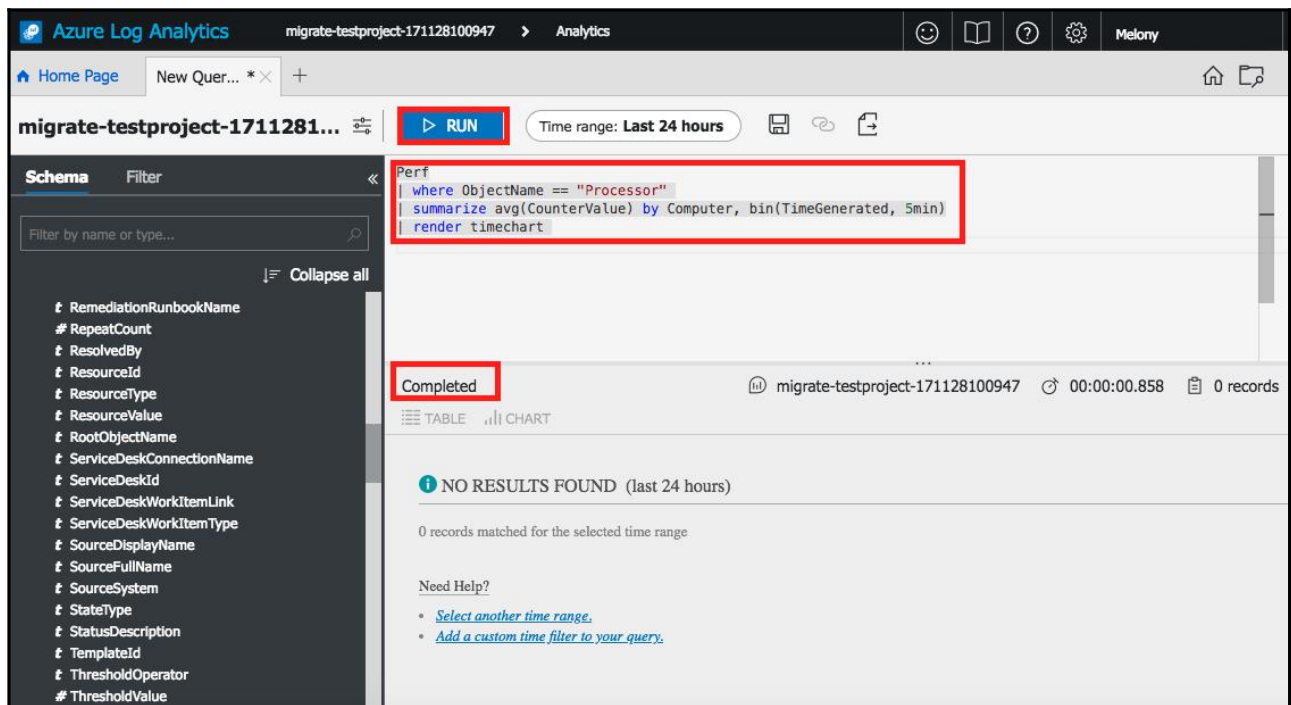
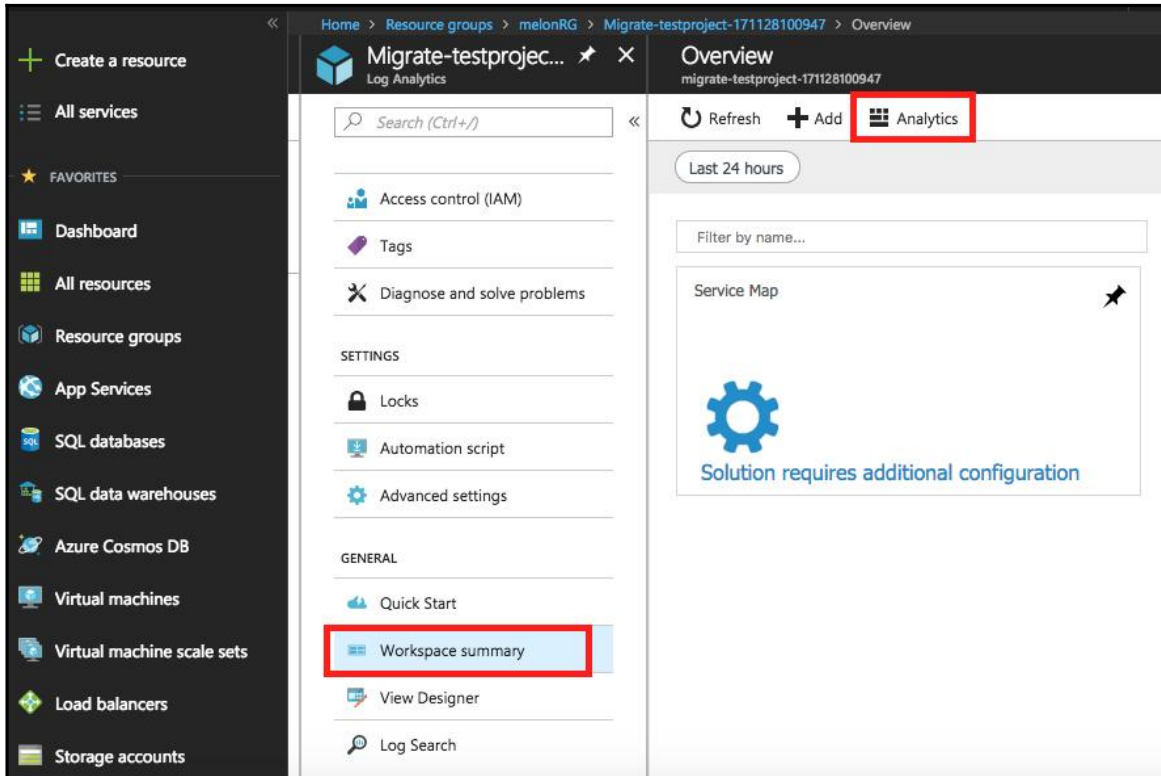
NAME	OMS CONNECTION	OS
	Not connected	Linux
	Not connected	Linux
	Not connected	Linux
	Error	Linux
	Other workspace	Linux
	Other workspace	Linux
	Not connected	Linux
	Not connected	Linux
	Not connected	Linux
	Not connected	Linux
	Not connected	Linux
	Not connected	Linux
	Not connected	Windows
	Not connected	Windows
	Not connected	Windows
	Not connected	Windows
	Loading...	Loading...
	Loading...	Loading...
	Loading...	Loading...
	Loading...	Loading...

Workspace Data Sources:

- Virtual machines
- Storage accounts logs
- Azure Activity log
- Scope Configurations (Preview)
- Azure Resources

Support + Troubleshooting:

- Resource health
- New support request



Home > testvmssansible > View Designer

Log Analytics

View Designer
testvmssansible

Search (Ctrl+/) << Refresh Analytics Save Cancel Export Import

Last 24 hours

Overview tile View dashboard

Gallery

VIEW DASHBOARD

- List of queries
- Number & list
- Two numbers & list
- Donut & list
- Two timelines & list [Preview](#)
- Informati... [Preview](#)
- Line chart, callout, & list [Preview](#)
- Line chart & list [Preview](#)
- Stack of line charts [Preview](#)

74

This seems a bit empty...

Click and drag a part from the library to the layout area to start building your View dashboard.

Log Analytics

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

SETTINGS

Locks

Automation script

Advanced settings

GENERAL

Quick Start

Workspace summary

View Designer

Log Search

Solutions

Pricing tier

Usage and estimated costs

Properties

Saved searches

Home > Resource groups > [redacted] > ServiceDesk(testvmssansible)

ServiceDesk(test [redacted])
Solution

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Diagnose and solve problems

SETTINGS

Locks

Automation script

GENERAL

OMS Workspace

Properties

Saved searches

WORKSPACE DATA SOURCES

Virtual machines

Storage accounts logs

Azure Activity log

ITSM Connections

SUPPORT + TROUBLESHOOTING

Resource health

Delete

Essentials ^

Resource group [redacted]

Solution ServiceDesk(test [redacted])

Status Active

Type Microsoft.OperationsManagement/solutions

Location West Europe

Workspace Name test [redacted]

Subscription name (change) [redacted]


Management services [Operations logs](#)

Subscription ID 60bad1d7-71fd-4e40-b6b9-1016af395341


Summary

IT Service Management Connector

Solution Resources

1 

ServiceDesk(testvmssansible)_Overview

 Solution requires additional configuration

END