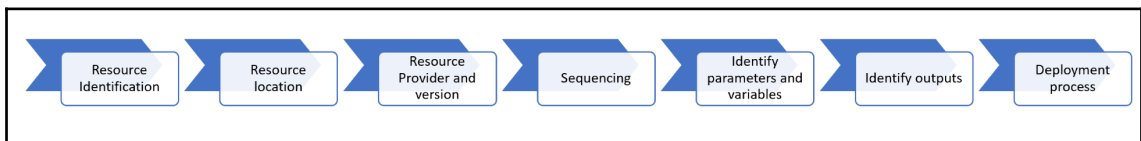
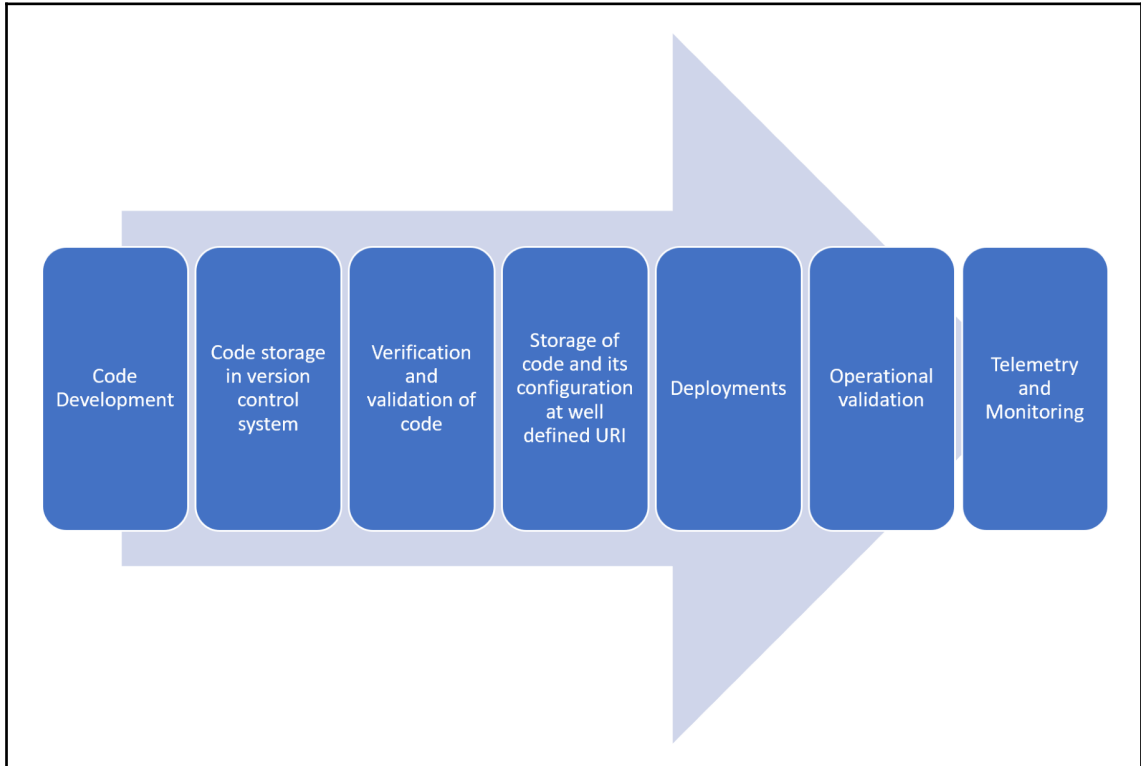
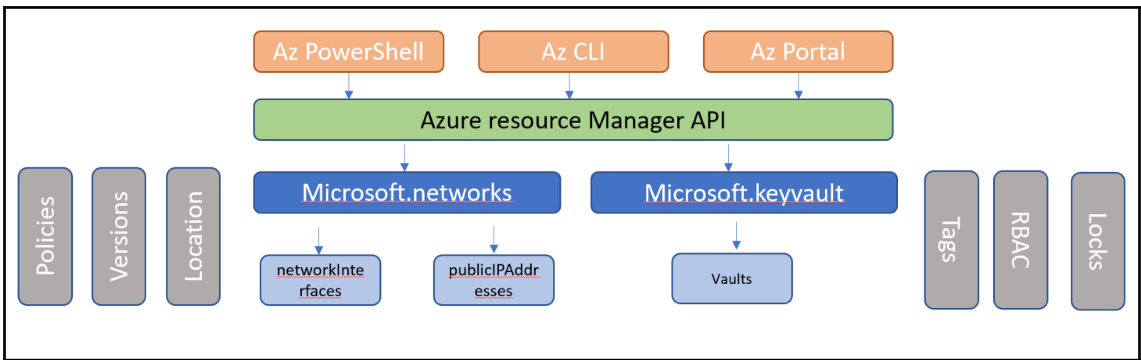
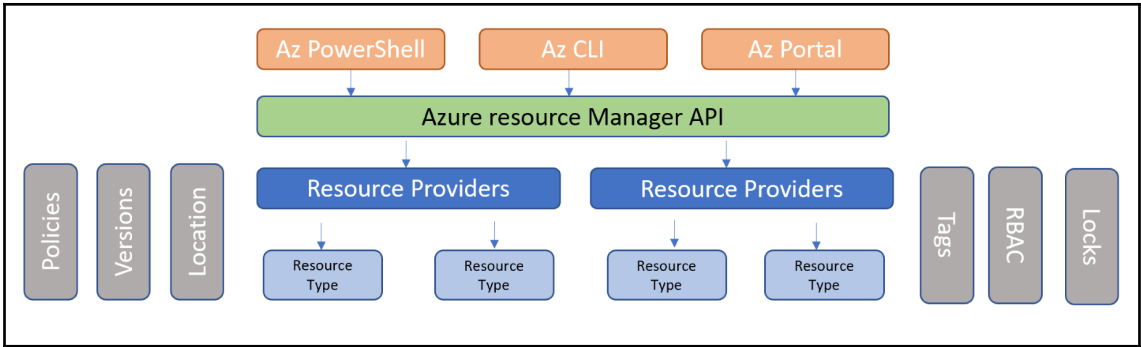


# Chapter 1: Infrastructure as Code and Configuration Management

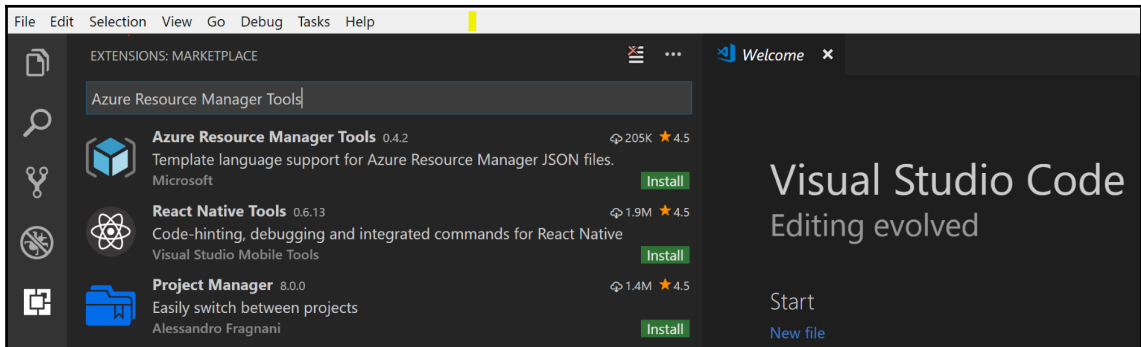
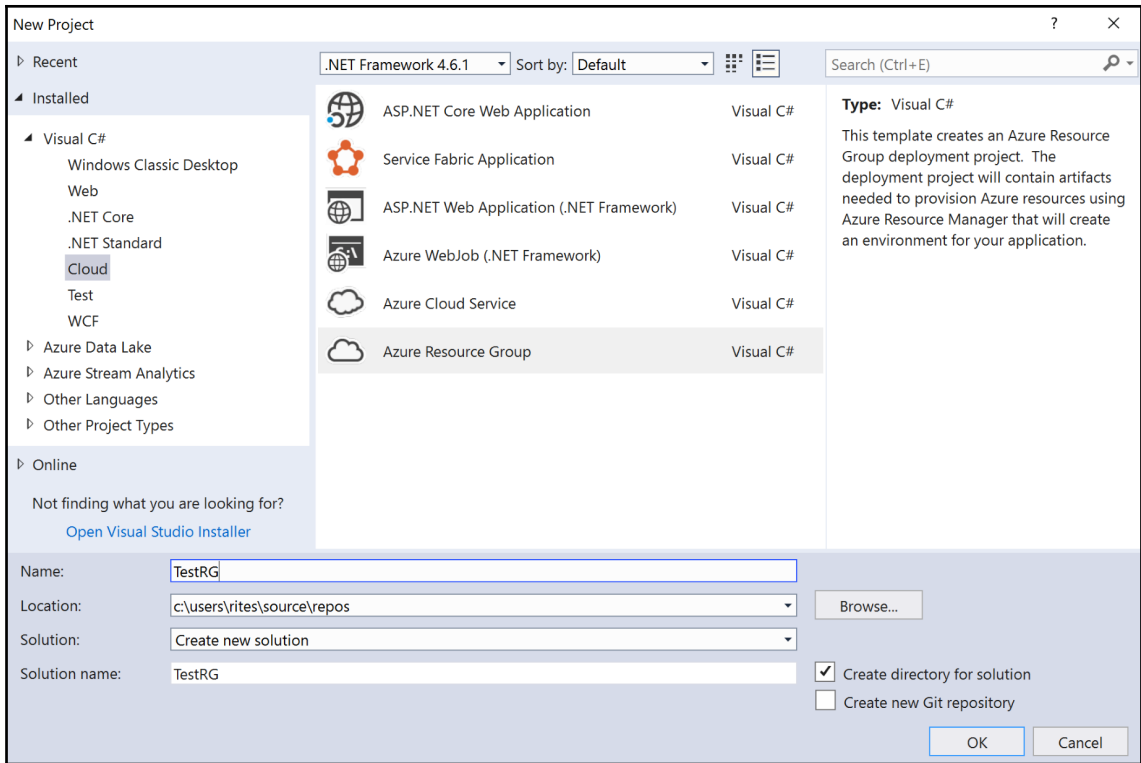




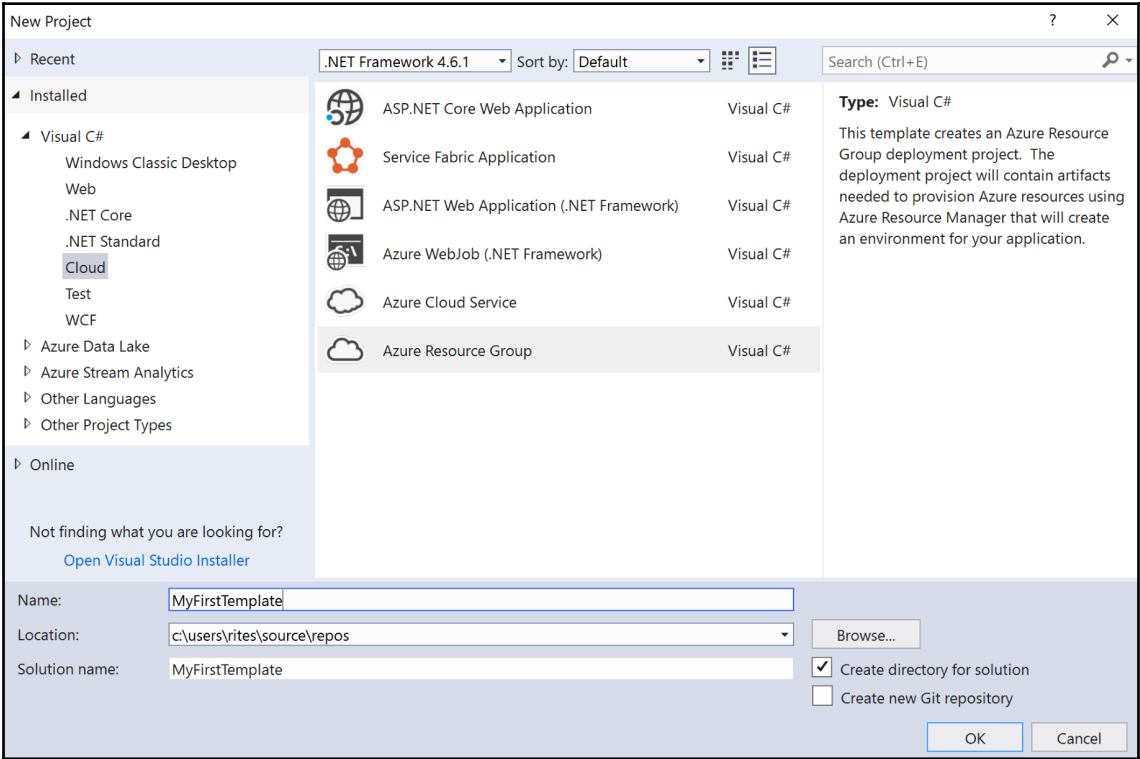
# Chapter 2: Azure Resource Manager Templates

The screenshot displays the 'Workloads' selection interface in Azure DevOps. The interface is divided into several sections:

- Workloads:** A tabbed interface with 'Workloads' selected. It shows three categories:
  - Windows (3):** Includes 'Universal Windows Platform development', 'Desktop development with C++', and '.NET desktop development'.
  - Web & Cloud (7):** Includes 'ASP.NET and web development', 'Azure development', 'Python development', and 'Node.js development'. This category is highlighted with a blue border.
- Summary:** A section on the right side of the interface, titled 'Summary', which lists the following:
  - Included:**
    - ✓ Azure development prerequisites
    - ✓ .NET Framework 4.6.1 development tools
    - ✓ .NET Core 1.0 - 1.1 development tools
    - ✓ ASP.NET and web development tools
  - Optional:**
    - ✓ Azure Data Lake and Stream Analytics Tools
    - ✓ Azure Resource Manager tools
    - ✓ Azure Cloud Services tools
    - ✓ Azure Mobile Apps SDK
    - ✓ Service Fabric Tools
    - PowerShell tools
    - ✓ Windows Communication Foundation
    - Azure Storage AzCopy
    - .NET Framework 4.6.2 development tools
    - .NET Framework 4.7 development tools










```
{
  "$schema": "http://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
  "contentVersion": "1.0.0.0",
  "parameters": {
  },
  "variables": {
  },
  "resources": [
  ],
  "outputs": {
  }
}
```




Select Azure Template

Show templates from this location:  
Visual Studio Templates

Search

-  **Blank Template**  
MICROSOFT
-  Windows Virtual Machine Scale Set  
MICROSOFT
-  Linux Virtual Machine Scale Set  
MICROSOFT
-  Service Fabric Cluster  
MICROSOFT
-  Web app  
MICROSOFT
-  Web app + SQL  
MICROSOFT
-  Logic App  
MICROSOFT

Templates Found: 14



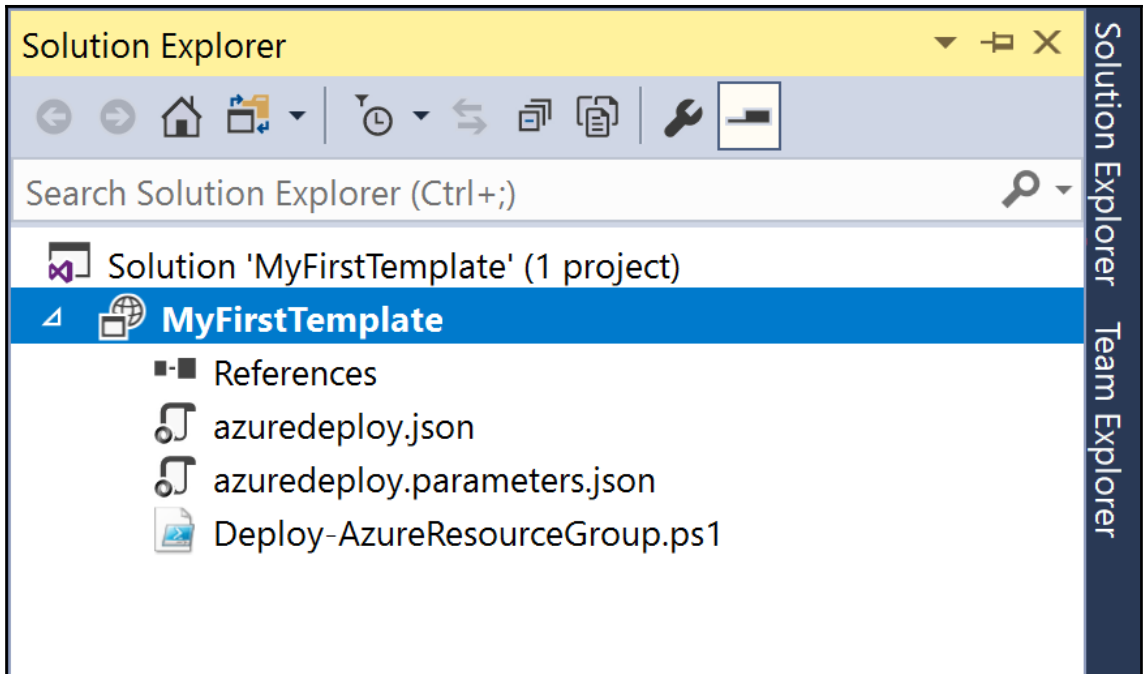
### Blank Template

By: Microsoft

The blank template will add a deployment project with a blank template file and other files needed for deploying to Azure Resource Manager.

VERSION: 1.0

OK Cancel



```
1 {
2   "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "storageAccountName": {
6       "type": "string"
7     }
8   },
9   "variables": {
10    "storageType": "Standard_LRS"
11  },
12  "resources": [
13    {
14      "type": "Microsoft.Storage/storageAccounts",
15      "name": "[parameters('storageAccountName')]",
16      "apiVersion": "2018-02-01",
17      "location": "[resourceGroup().location]",
18      "sku": {
19        "name": "[variables('storageType')]"
20      },
21      "kind": "Storage"
22    }
23  ],
24  "outputs": {
25    "storageDetails": {
26      "type": "string",
27      "value": "[concat(parameters('storageAccountName'), variables('storageType'))]"
28    }
29  }
30 }
```



Home > Resource groups > Resource group

## Resource groups

callritzhotmail (Default Directory)

+ Add Edit columns More

**i** Subscription filtering behavior has now changed. To learn more [click here.](#)

Filter by name...

NAME ↑↓

---

## Resource group

Create an empty resource group

- \* Resource group name
  ✓
- \* Subscription
- \* Resource group location

Home > Resource groups > ManualDeployment > Everything > Template deployment > Custom deployment > Edit template

## Edit template

Edit your Azure Resource Manager template

+ Add resource Quickstart template Load file Download

- Parameters (1)
- Variables (1)
- Resources (1)
  - [parameters('storageAccountNam...

```

1 {
2   "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "storageAccountName": {
6       "type": "string"
7     }
8   },
9   "variables": {
10    "storageType": "Standard_LRS"
11  },
12  "resources": [
13    {
14      "type": "Microsoft.Storage/storageAccounts",
15      "name": "[parameters('storageAccountName')]",
16      "apiVersion": "2018-02-01",
17      "location": "[resourceGroup().location]",
18      "sku": {
19        "name": "[variables('storageType')]"
20      },
21      "kind": "Storage"
22    }
23  ],
24  "outputs": {
25    "storageDetails": {
26      "type": "string",
27      "value": "[concat(parameters('storageAccountName'), variables('storageType'))]"
28    }
29  }
30 }
31

```

## Custom deployment

Deploy from a custom template

### TEMPLATE



Customized template

1 resource

 Edit template

 Edit parameters

 Learn more

### BASICS

- \* Subscription
- \* Resource group  Create new  Use existing
- \* Location

### SETTINGS

- \* Storage Account Name

### TERMS AND CONDITIONS

[Azure Marketplace Terms](#) | [Azure Marketplace](#)

By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated 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 that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

I agree to the terms and conditions stated above

---

# Device Login

Enter the code that you received from the application on your device

## Microsoft Azure Cross-platform Command Line Interface

Click Cancel if this isn't the application you were trying to sign in to on your device.

---

```
{
  "id": "/subscriptions/9755ffce-e94b-4332-9be8-1ade15e78909/resourceGroups/CLIDeployment",
  "location": "westeurope",
  "managedBy": null,
  "name": "CLIDeployment",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null
}
```

```
],
  "provisioningState": "Succeeded",
  "template": null,
  "templateLink": null,
  "timestamp": "2018-07-31T06:06:47.944369+00:00"
},
"resourceGroup": "CLIDeployment"
```

```
PS C:\Users\rives> New-AzureRmResourceGroup -Name "FirstResourceGroup" -Location "East US"
```

```
ResourceGroupName : FirstResourceGroup
Location           : eastus
ProvisioningState : Succeeded
Tags              :
ResourceId         : /subscriptions/364c7779-65a1-40ed-8847-c7a86661c1c3/resourceGroups/FirstResourceGroup
```

```
PS C:\Users\rives> Test-AzureRmResourceGroupDeployment -ResourceGroupName "FirstResourceGroup" -Mode Incremental -TemplateFile `
"c:\users\rives\source\repos\MyFirstTemplate\MyFirstTemplate\azuredeploy.json" -storageAccountName "unique9634name" -Verbose
VERBOSE: 8:55:28 AM - Template is valid.
```

```

PS C:\Users\rites> New-AzureRmResourceGroupDeployment -Name "FirstDeploy1" -ResourceGroupName "FirstResourceGroup" -Mode Incremental -TemplateFile
"c:\Users\rites\source\repos\MyFirstTemplate\MyFirstTemplate\azuredeploy.json" -storageAccountName "unique9634name" -Verbose
VERBOSE: Performing the operation 'Creating Deployment' on target 'FirstResourceGroup'.
VERBOSE: 8:56:20 AM - Template is valid.
VERBOSE: 8:56:26 AM - Create template deployment 'FirstDeploy1'
VERBOSE: 8:56:26 AM - Checking deployment status in 5 seconds
VERBOSE: 8:56:33 AM - Checking deployment status in 5 seconds
VERBOSE: 8:56:39 AM - Resource Microsoft.Storage/storageAccounts 'unique9634name' provisioning status is running
VERBOSE: 8:56:39 AM - Checking deployment status in 13 seconds
VERBOSE: 8:56:54 AM - Checking deployment status in 5 seconds
VERBOSE: 8:57:00 AM - Checking deployment status in 5 seconds
VERBOSE: 8:57:06 AM - Resource Microsoft.Storage/storageAccounts 'unique9634name' provisioning status is succeeded

DeploymentName      : FirstDeploy1
ResourceGroupName  : FirstResourceGroup
ProvisioningState   : Succeeded
Timestamp          : 2018-07-30 12:57:04 PM
Mode               : Incremental
TemplateLink       :
Parameters         :
                    Name      Type      Value
                    =====
                    storageAccountName String    unique9634name

Outputs            :
                    Name      Type      Value
                    =====
                    storageDetails String    unique9634nameStandard_LRS

DeploymentDebugLogLevel :

```

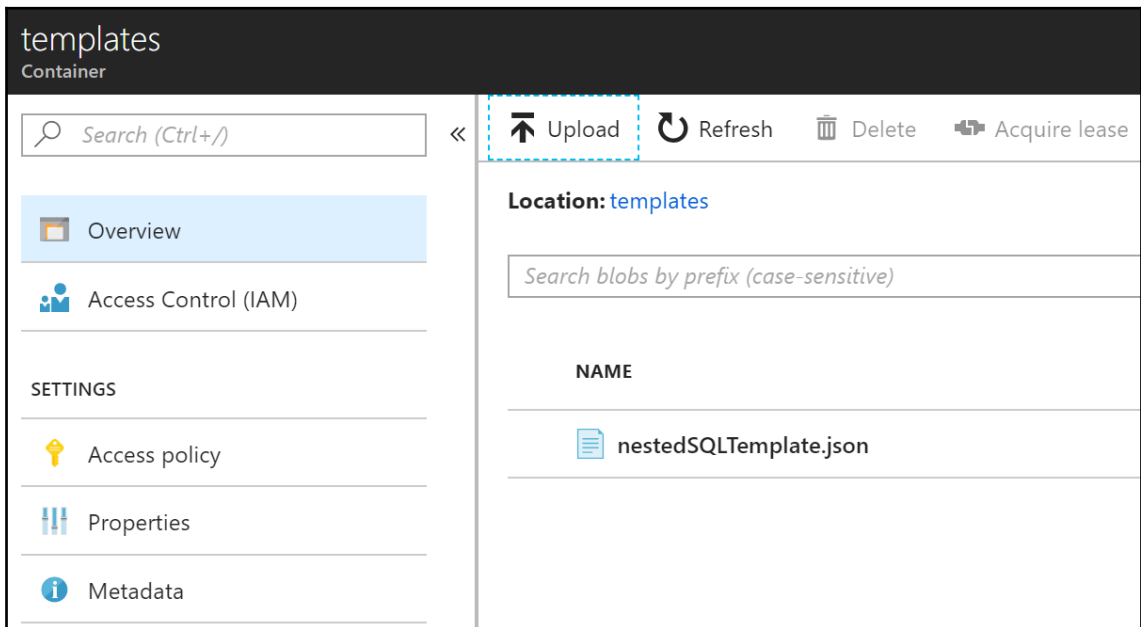
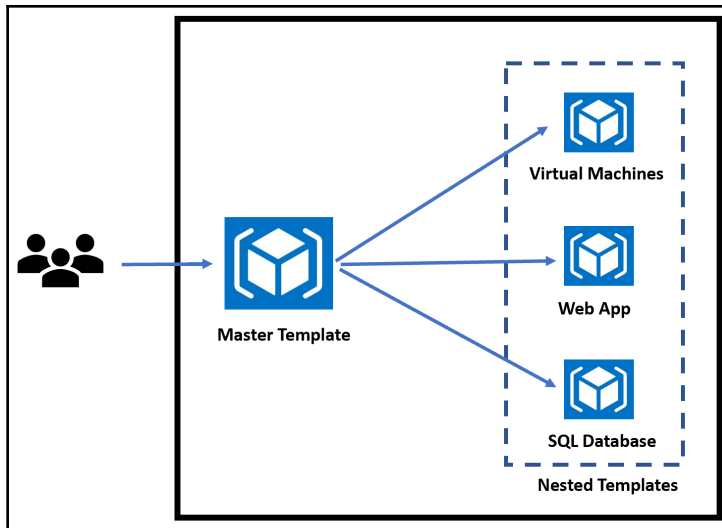
---

## Chapter 3: Understanding Core Elements of ARM Templates

```
Outputs      :
              Name          Type          Value
              =====
sqlServer    Object
  "administratorLogin": "citynextadmin",
  "version": "12.0",
  "state": "Ready",
  "fullyQualifiedDomainName": "riteshsrvunq01.database.windows.net"
}
```


```
Outputs      :
              Name          Type          Value
              =====
sqlServer    string         riteshsrvunq01.database.windows.net
```


Name	Type	Value
sqlServer	Object	{
		"administratorLogin": "citynextadmin",
		"version": "12.0",
		"state": "Ready",
		"fullyQualifiedDomainName": "riteshsrvunq01.database.windows.net"
		}
sqlDatabase	Object	{
		"apiVersion": "2017-10-01-preview",
		"location": "westeurope",
		"sku": {
		"name": "Standard",
		"tier": "Standard",
		"capacity": 10
		},
		"kind": "v12.0,user",
		"properties": {
		"collation": "SQL_Latin1_General_CP1_CI_AS",
		"maxSizeBytes": 107374182400,
		"status": "Online",
		"databaseId": "3332c4ab-f58f-433a-8ea6-e8d38ef856c4",
		"creationDate": "2018-08-20T07:30:17.173Z",
		"currentServiceObjectiveName": "S0",
		"requestedServiceObjectiveName": "S0",
		"defaultSecondaryLocation": "northeurope",
		"catalogCollation": "SQL_Latin1_General_CP1_CI_AS",
		"zoneRedundant": false,
		"earliestRestoreDate": "2018-08-20T07:30:51.453z",
		"readScale": "Disabled",
		"currentSku": {
		"name": "Standard",
		"tier": "Standard",
		"capacity": 10
		}
		}
		},
		"subscriptionId": "9755ffce-e94b-4332-9be8-1ade15e78909",
		"resourceGroupName": "CLIDeployment",
		"resourceId": "Microsoft.SQL/servers/riteshsrvunq01/databases/riteshdbunq01",
		"referenceApiVersion": "2017-10-01-preview",
		"condition": true,
		"isConditionTrue": true,
		"isTemplateResource": false,
		"isAction": false,
		"provisioningOperation": "Read"
		}





---

 Container

 Refresh

 Delete

## New container

---

\* Name

templates



Public access level 

Private (no anonymous access)



OK

Cancel

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Storage Explorer (preview)

SETTINGS

Access keys

CORS

Configuration

Encryption

Shared access signature

Firewalls and virtual networks

Properties

Locks

Automation script

BLOB SERVICE

Blobs

Custom domain

Soft delete

Allowed services <sup>1</sup>

Blob  File  Queue  Table

Allowed resource types <sup>1</sup>

Service  Container  Object

Allowed permissions <sup>1</sup>

Read  Write  Delete  List  Add  Create  Update  Process

Start and expiry date/time <sup>1</sup>

Start

2018-08-20	7:17:36 AM
End	
2022-09-30	3:17:36 PM
(UTC-04:00) --- Current Timezone ---	

Allowed IP addresses <sup>1</sup>

*for example, 168.1.5.65 or 168.1.5.65-168.1.5.70*

Allowed protocols <sup>1</sup>

HTTPS only  HTTPS and HTTP

Signing key <sup>1</sup>

key1

[Generate SAS and connection string](#)

Connection string

BlobEndpoint=https://sta2usc1esvprvhdddev.blob.core.windows.net/QueueEndpoint=https://sta2usc1esvprvhdddev.queue.core.windows.net/FileEndpoint=https://sta2usc1esvprvhdddev.blob.core.windows.net/

SAS token <sup>1</sup>

**?sv=2017-11-09&ss=b&srt=sco&sp=rI&se=2022-09-30T19:17:36Z&st=2018-08-20T11:17:36Z&spr=https&sig=DrayB45uOgxmE8BwjkORvHTJQp%2FFtY9ZA99kxw%28PieM%3D-**

Blob service SAS URL

https://sta2usc1esvprvhdddev.blob.core.windows.net/?sv=2017-11-09&ss=b&srt=sco&sp=rI&se=2022-09-30T19:17:36Z&st=2018-08-20T11:17:36Z&spr=https&sig=DrayB45uOg

---

## Chapter 4: Advance Template Features

```
Outputs      :
              Name          Type          Value
              =====
arrayOutput  Array
  {
    "virtualPath": "/myapp/api",
    "physicalPath": "site\\wwwroot\\armwebsite",
    "preloadEnabled": false,
    "virtualDirectories": null
  },
  {
    "virtualPath": "/myapp/api/internal/login",
    "physicalPath": "site\\wwwroot\\armwebsite\\internal\\login",
    "preloadEnabled": false,
    "virtualDirectories": null
  },
  {
    "virtualPath": "/myapp/api/external/login",
    "physicalPath": "site\\wwwroot\\armwebsite\\internal\\login",
    "preloadEnabled": false,
    "virtualDirectories": null
  }
  ]
```

```
Outputs      :
              Name          Type          Value
              =====
arrayOutput  Object |
  "virtualDirectories": [
    {
      "virtualPath": "/myapp/api",
      "physicalPath": "site\\wwwroot\\armwebsite",
      "preloadEnabled": false,
      "virtualDirectories": null
    },
    {
      "virtualPath": "/myapp/api/internal/login",
      "physicalPath": "site\\wwwroot\\armwebsite\\internal\\login",
      "preloadEnabled": false,
      "virtualDirectories": null
    },
    {
      "virtualPath": "/myapp/api/external/login",
      "physicalPath": "site\\wwwroot\\armwebsite\\internal\\login",
      "preloadEnabled": false,
      "virtualDirectories": null
    }
  ]
  }
```

Home > Key vaults

## Key vaults



callritzhotmail (Default Directory)

+ Add   Edit columns   Refresh   Assign tags

**Subscriptions:** 1 of 2 selected – Don't see a subscription? [Open Directory + Subscription settings](#)

Filter by name...   Visual Studio E...   All resource gro...   All locations   All tags   No grouping

2 items

<input type="checkbox"/>	NAME ↑↓	TYPE ↑↓	RESOURCE GRO... ↑↓	LOCATION ↑↓	SUBSCRIPTION ↑↓
<input type="checkbox"/>	 myVault-eastus	Key vault	location0	East US	Visual Studio Ent... ⋮
<input type="checkbox"/>	 myVault-westus	Key vault	location1	West US	Visual Studio Ent... ⋮

# Chapter 5: IaaS Solutions Using Templates

Home > Resource groups > armfiles > armtfiles - Blobs > templates - Access policy

## templates - Access policy

Container

Search (Ctrl+*/*)

- Overview
- Access Control (IAM)
- Settings**
  - Access policy**
  - Properties
  - Metadata

Save

Public access level ⓘ

Private (no anonymous access)

Stored access policies

**IDENTIFIER**

No results

+ Add policy

**armtfiles - Shared access signature**

Storage account

A shared access signature (SAS) is a URI that grants restricted access rights to Azure Storage resources. You can provide a shared access signature URI to these client whom you wish to delegate access to certain storage account resources. By distributing a shared access signature URI to these client

An account-level SAS can delegate access to multiple storage services (i.e. blob, file, queue, table). Note that stored access policies

[Learn more](#)

**Settings**

- Access keys
- CORS
- Configuration
- Encryption
- Shared access signature
- Firewalls and virtual networks
- Advanced Threat Protection (p...
- Properties
- Locks
- Automation script

**Blob service**

- Blobs

**Allowed services** ⓘ

Blob  File  Queue  Table

**Allowed resource types** ⓘ

Service  Container  Object

**Allowed permissions** ⓘ

Read  Write  Delete  List  Add  Create  Update  Process

**Start and expiry date/time** ⓘ

Start

End

**Allowed IP addresses** ⓘ


**Allowed protocols** ⓘ

HTTPS only  HTTPS and HTTP

**Signing key** ⓘ

**Generate SAS and connection string**











---

 **armtfiles - Access keys**  
Storage account

Search (Ctrl+*/*)

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

**Settings**

-  Access keys
-  CORS
-  Configuration
-  Encryption
-  Shared access signature
-  Firewalls and virtual networks
-  Advanced Threat Protection (p...
-  Properties
-  Locks
-  Automation script

---

```
Outputs :
=====
Name      Type      Value
-----
customScriptOutput String    VERBOSE: Installation started... \n\nSuccess Restart Needed Exit Code  Feature Result
\True    No      NoChangeNeeded {}
\nVERBOSE: Installation succeeded.\n\n
```

```
PS C:\WINDOWS\system32>>>> Publish-AzureRmVMDscConfiguration -ResourceGroupName armfiles -ConfigurationPath "C:\Users\rites\
VERBOSE: Temp folder 'C:\Users\rites\AppData\Local\Temp\92b0f86-116c-4f8d-927b-8c84cf0c1614' created.
VERBOSE: Copy 'C:\Users\rites\Desktop\A - Chapter5 - Copy\psdsc.ps1' to 'C:\Users\rites\AppData\Local\Temp\92b0f86-116c-4f8d
VERBOSE: Parsing configuration script: C:\Users\rites\Desktop\A - Chapter5 - Copy\psdsc.ps1
VERBOSE: List of required modules: [].
VERBOSE: Temp folder 'C:\Users\rites\AppData\Local\Temp\dc7226e9-4fd1-4479-acdc-61f80ba087f2' created.
VERBOSE: Performing the operation "Upload 'C:\Users\rites\AppData\Local\Temp\dc7226e9-4fd1-4479-acdc-61f80ba087f2\psdsc.ps1.z
tes\psdsc.ps1.zip".
VERBOSE: Configuration published to https://armtfiles.blob.core.windows.net/templates/psdsc.ps1.zip
https://armtfiles.blob.core.windows.net/templates/psdsc.ps1.zip
VERBOSE: Deleted 'C:\Users\rites\AppData\Local\Temp\dc7226e9-4fd1-4479-acdc-61f80ba087f2\psdsc.ps1.zip'
VERBOSE: Deleted 'C:\Users\rites\AppData\Local\Temp\92b0f86-116c-4f8d-927b-8c84cf0c1614'
VERBOSE: Deleted 'C:\Users\rites\AppData\Local\Temp\dc7226e9-4fd1-4479-acdc-61f80ba087f2'
```



---

## Chapter 6: Unit Testing ARM Templates

```
outputs
:
Name          Type          Value
=====
storageAccount Object         {
  "encryption": {
    "services": {
      "blob": {
        "enabled": true,
        "lastEnabledTime": "2018-09-08T06:08:09.9525584z"
      }
    }
  },
  "keySource": "Microsoft.Storage"
},
"provisioningState": "Succeeded",
"creationTime": "2018-09-08T06:08:09.7964977z",
"primaryEndpoints": {
  "blob": "https://3rs257t55vn4asawinvm.blob.core.windows.net/",
  "queue": "https://3rs257t55vn4asawinvm.queue.core.windows.net/",
  "table": "https://3rs257t55vn4asawinvm.table.core.windows.net/",
  "file": "https://3rs257t55vn4asawinvm.file.core.windows.net/"
},
"primaryLocation": "westeurope",
"statusOfPrimary": "available"
}
publicIPAddressName Object         {
  "provisioningState": "Succeeded",
  "resourceGuid": "65027abf-f957-4fae-82ee-138e4e7963eb",
  "publicIPAddressVersion": "IPv4",
  "publicIPAllocationMethod": "Dynamic",
  "idleTimeoutInMinutes": 4,
  "dnsSettings": {
    "domainNameLabel": "armtemplateunique",
    "fqdn": "armtemplateunique.westeurope.cloudapp.azure.com"
  }
}
virtualNetworkName Object         {
  "provisioningState": "Succeeded",
  "resourceGuid": "60c2f659-b0bd-4507-a1b6-257929b5d154",
  "addressSpace": {
    "addressPrefixes": [
      "10.0.0.0/16"
    ]
  }
}
```

---

## Describing Validation Tests

### Context Storage from template deployment

- [+] The storage account has been provisioned successfully 4.6s
- [+] The storage account is in available state 24ms
- [+] The storage account location is West Europe 8ms

### Context virtual network from template deployment

- [+] The virtual network has been provisioned successfully 45ms
- [+] The address range for virtual network is 23ms
- [+] The count of subnets in virtual network is 1 19ms
- [+] The IP address range for subnet is 13ms
- [+] The subnet has been provisioned successfully 10ms

### Context Public IP address from template deployment

- [+] The public IP address resource Have been deployed successfully 44ms
- [+] The Public IP address is allocation dynamic IP address 18ms

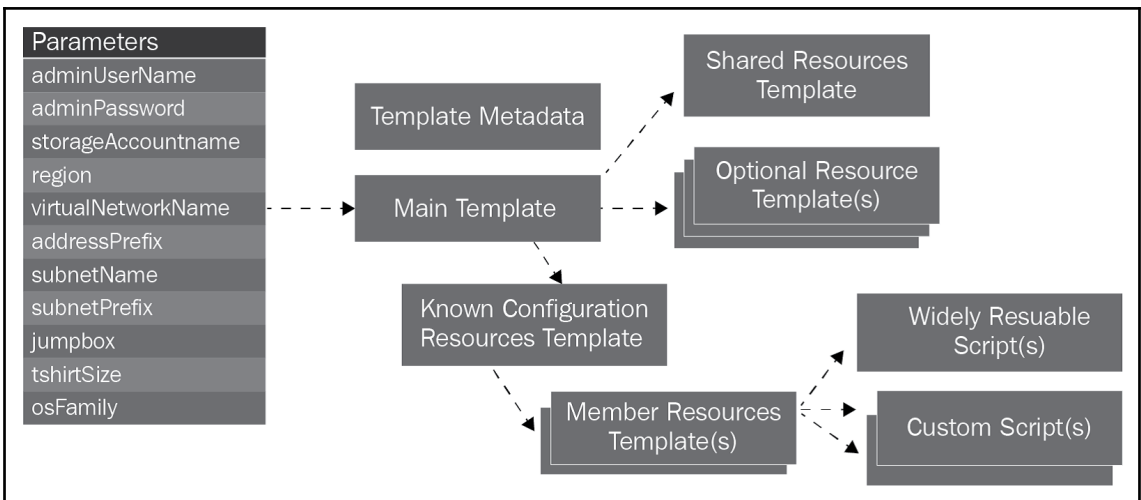
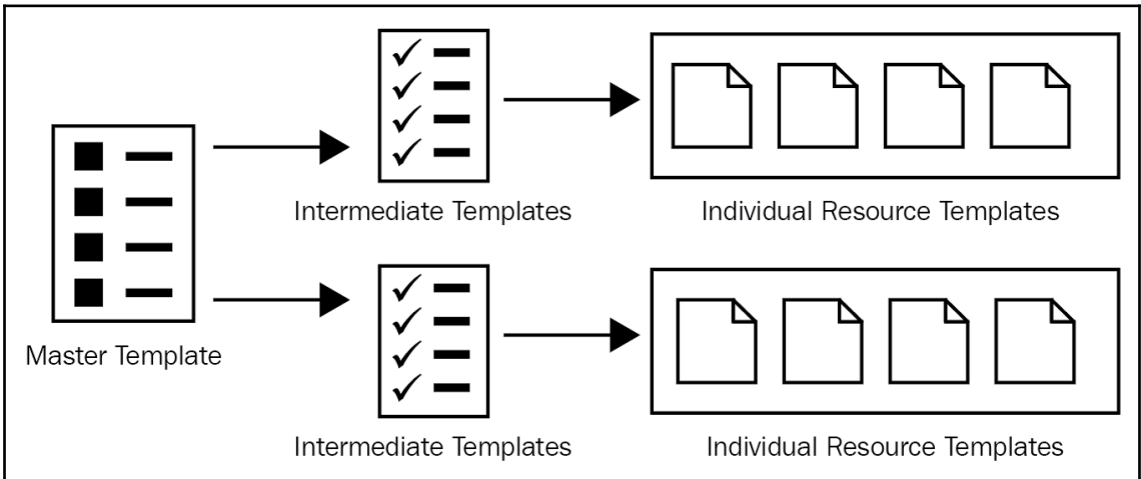
### Context Network Interface from template deployment

- [+] The NIC Have been provisioned successfully 40ms
- [+] Is primary NIC 11ms
- [+] IP forwarding is disabled on NIC 20ms
- [+] TThe NIC IP configuration was provisioned successfully 16ms
- [+] The NIC is the primary Nic 21ms
- [+] The IP allocation method used for NIC is dynamic 15ms
- [+] The NIC is associated to appropriate subnet 16ms
- [+] NIC is referencing the appropriate public IP resource 15.53s

### Context virtual Machine from template deployment

- [+] The virtual machine is provisioned successfully 35ms
- [+] The size of virtual machine is 14ms
- [+] The virtual machine is attached to appropriate NIC 5.79s
- [+] The virtual machine is enabled for automatic update 20ms
- [+] VM agent is provisioned within virtual machine 22ms
- [+] The SKU of virtual machine image is 15ms
- [+] The offer of virtual machine image is 15ms
- [+] The publisher of virtual machine image is 13ms
- [+] The virtual machine is based on windows operating system 16ms
- [+] The virtual machine is creating using an Image 18ms
- [+] The size of virtual machine os disk is 127 GB 11ms
- [+] The caching is ReadWrite for virtual machine os disk 38ms

# Chapter 7: Design Patterns



```

PS C:\Users\rites> New-AzureRmResourceGroup -Name "ARMPatterns" -Location "West Europe" -Verbose
VERBOSE: Performing the operation "Replacing resource group ..." on target "ARMPatterns".
VERBOSE: 5:48:22 AM - Created resource group 'ARMPatterns' in location 'westeurope'

ResourceGroupName : ARMPatterns
Location           : westeurope
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/[REDACTED]/resourceGroups/ARMPatterns
  
```

StorageAccountName	ResourceGroupName	Location	SkuName	Kind	AccessTier	CreationTime	ProvisioningState	EnableHttpsTrafficOnly
hostforarmtemplates	ARMPatterns	westeurope	StandardLRS	StorageV2	Hot	2019-02-08 10:48:46 AM	Succeeded	False

Home > Resource groups > ARMPatterns > hostforarmtemplates - Blobs > armtemplates

**armtemplates**

Container

Search (Ctrl+F)

Upload Refresh Change access level Delete Acquire lease Break lease View snapshots Create snapshot

Location: armtemplates

Search blobs by prefix (case sensitive)  Show deleted blobs

NAME	MODIFIED	ACCESS TIER	BLOB TYPE	SIZE	LEASE STATE
SharedServicesSQL-1.0.0.0.json	2/8/2019, 7:36:43 AM	Hot (Inferred)	Block blob	2.94 KiB	Available ...
appserviceplan-1.0.0.0.json	2/8/2019, 6:08:48 AM	Hot (Inferred)	Block blob	1.01 KiB	Available ...
webappsimple-1.0.0.0.json	2/8/2019, 7:46:28 AM	Hot (Inferred)	Block blob	2.2 KiB	Available ...

```

VERBOSE: Performing the operation "Create key vault" on target "keyvaultarmtemplatebook".
Vault Name : keyvaultarmtemplatebook
Resource Group Name : ARMPatterns
Location : West Europe
Resource ID : /subscriptions/[REDACTED]/resourceGroups/ARMPatterns/providers/Microsoft.KeyVault/vaults/keyvaultarmtemplatebook
Vault URI : https://keyvaultarmtemplatebook.vault.azure.net/
Tenant ID : [REDACTED]
Sku : Standard
Enabled For Deployment? : True
Enabled For Template Deployment? : True
Enabled For Disk Encryption? : True
Soft Delete Enabled? : True
Access Policies :
  Tenant ID : [REDACTED]
  Object ID : 270fc62-4607-4453-99ca-0e1250a2c484
  Application ID : [REDACTED]
  Display Name : Ritesh Modi (callritz_hotmail.com#EXT#@callritzhotmail.onmicrosoft.com)
  Permissions to Keys : get, create, delete, list, update, import, backup, restore, recover
  Permissions to Secrets : get, list, set, delete, backup, restore, recover
  Permissions to Certificates : get, delete, list, create, import, update, deleteissuers, getissuers, listissuers, managecontacts, manageissuers, setissuers, recover, backup, restore
  Permissions to (Key Vault Managed) Storage : delete, deletesas, get, getsas, list, listsas, regeneratekey, set, setsas, update, recover, backup, restore

Network Rule Set :
  Default Action : Allow
  Bypass : AzureServices
  IP Rules :
  Virtual Network Rules :

Tags :

```

```

ServicePrincipalNames : {022-6-02-755a-4210-8a00-e24115932071, https://keyvault.armtemplate.com}
ApplicationId : 0226092-7510-4510-0-00-e24115932071
DisplayName : https://keyvault.armtemplate.com
Id : 0226092-7510-4510-0-00-e24115932071
AdfsId :
Type : ServicePrincipal

```

<input type="checkbox"/>		RGP-DEV-eCommerceEurope	[REDACTED]	West Europe	...
<input type="checkbox"/>		RGP-DEV-eCommerceUS	[REDACTED]	East US 2	...

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

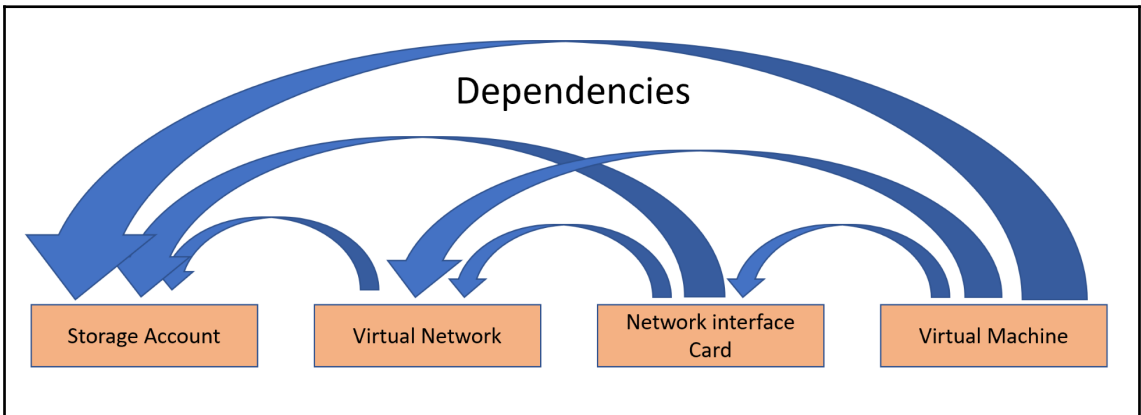
4 items  Show hidden types

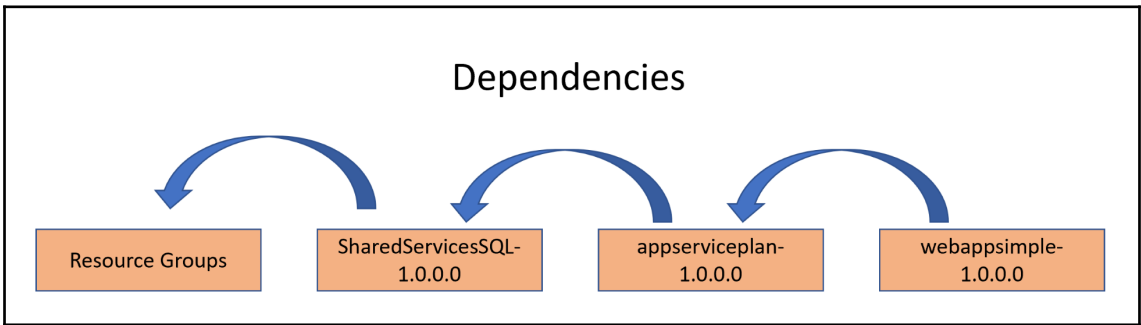
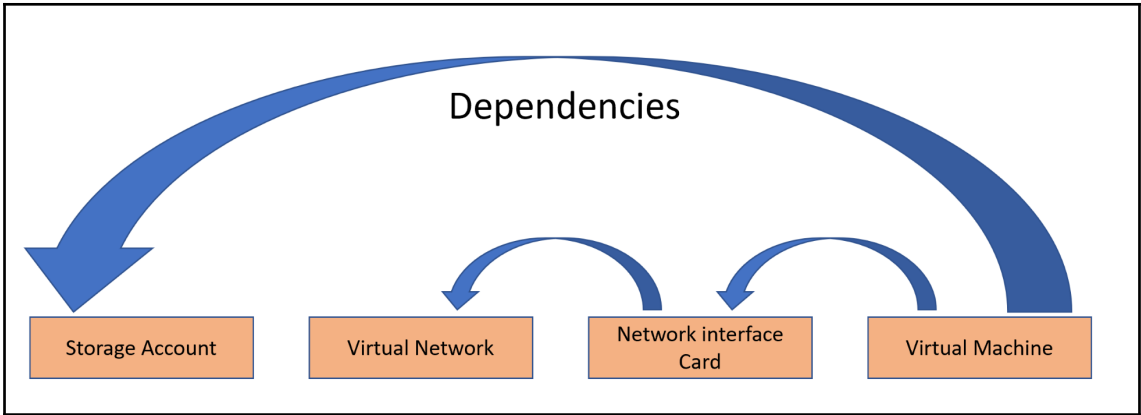
NAME	TYPE	LOCATION
armtemplatebooksqserver	SQL server	East US 2
eCommerceDatabase (armtemplatebooksqserver/eCommerceDatabase)	SQL database	East US 2
asp-eastus-s1-dev	App Service plan	East US 2
web-eastus-s1-dev	App Service	East US 2

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

2 items  Show hidden types

NAME	TYPE	LOCATION
asp-westeuropa-s1-dev	App Service plan	West Europe
web-westeuropa-s1-dev	App Service	West Europe





nic1 - IP configurations  
Network interface

Search (Ctrl+/)      + Add    Save    Discard

Overview  
Activity log  
Access control (IAM)  
Tags

Settings

- IP configurations
- DNS servers
- Network security group
- Properties
- Locks

IP forwarding settings

IP forwarding: Disabled | Enabled

Virtual network: sampleVirtualNetwork

IP configurations

\* Subnet: [Dropdown]

Search IP configurations

NAME	IP VERSION	TYPE	PRIVATE IP ADDRESS	PUBLIC IP ADDRESS
ipconfig1	IPv4	Primary	10.0.0.4 (Static)	-