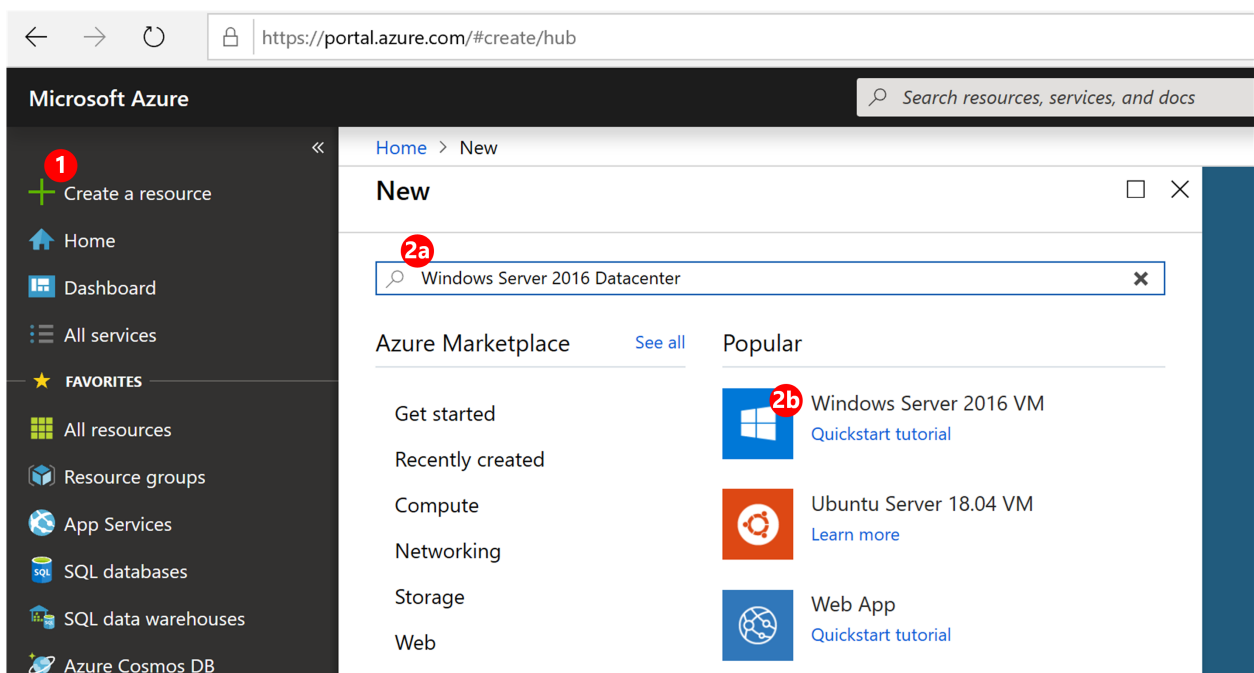


Lab - Overview of Azure Templates - Deployments

Objective: Explore and deploy a template that is automatically generated by the Azure portal

Build out a VM through the Portal's wizard

1. Login to the Azure Portal <https://portal.azure.com> with your credentials provided by your instructor.
2. Once logged in, click (1) + Create a resource, (2a) type in "Windows Server 2016 Datacenter" or (2b) click on "Windows Server 2016 VM" under the "Popular" section



3. Fill out as much or as little of the Wizard as you'd by completing the different tabbed sections. The red asterisk fields must be completed. When ready, move to the "Review + Create" section (7a / 7b)

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Home > New > Create a virtual machine

Create a virtual machine

1 Basics 2 Disks 3 Networking 4 Management 5 Guest config 6 Tags 7a Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. Looking for classic VMs? [Create VM from Azure Marketplace](#)

PROJECT DETAILS

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

* Subscription ⓘ Internal - Secondary

* Resource group ⓘ (New) Sandbox-RG [Create new](#)

INSTANCE DETAILS

* Virtual machine name ⓘ Win16-Test ✓

* Region ⓘ East US 2

Availability options ⓘ No infrastructure redundancy required

* Image ⓘ Windows Server 2016 Datacenter [Browse all images and disks](#)

* Size ⓘ **Standard DS1 v2**
1 vcpu, 3.5 GB memory [Change size](#)

ADMINISTRATOR ACCOUNT

* Username ⓘ SuperUser ✓

* Password ⓘ ⓘ ✓

* Confirm password ⓘ ⓘ ✓

INBOUND PORT RULES

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

[Review + create](#) [Previous](#) [Next : Disks >](#)

7b

4. Click "Download a template for automation" to have Azure display a template customized with your selections from the Wizard (1)

DISKS

OS disk type	Premium SSD
Use managed disks	Yes

NETWORKING

Virtual network	(new) Sandbox-RG-vnet
Subnet	(new) default (10.0.0.0/24)
Public IP	(new) Win16-Test-ip
Accelerated networking	Off
Place this virtual machine behind an existing	No

1

Create

Previous

Next

[Download a template for automation](#)

5. Explore the template and find the parameters, variables, and resources sections. See dependencies as well to understand the orchestration that will occur when the template is run (1). Click "Deploy" (2) to start a new wizard for pushing custom templates to Azure via the Portal

Home > New > Create a virtual machine > Template

Template

Download Add to library Deploy

Automate deploying resources with Azure Resource Manager templates in a single, coordinated c

Template Parameters CLI PowerShell .NET Ruby

Parameters (21) Variables (3) Resources (6)

- [parameters('networkInterfaceNa...
- [parameters('networkSecurityGrou...
- [parameters('virtualNetworkName'...
- [parameters('publicIpAddressNam...
- [parameters('virtualMachineName'...
- [parameters('diagnosticsStorageA...

```
1 {
2   "$schema": "http://schema.mana
3   "contentVersion": "1.0.0.0",
4   "parameters": {
5     "location": {
6       "type": "string"
7     },
8     "networkInterfaceName": {
9       "type": "string"
10    },
11    "networkSecurityGroupName"
12    "type": "string"
```

6. Fill in the "Resource Group" and "Admin Password" fields. Agree to the terms and select "Purchase"

Microsoft Azure

Search resources, services, a

Home > New > Create a virtual machine > Template > Custom deployment

Custom deployment

Deploy from a custom template

* Address Prefixes	["10.0.0.0/24"]
* Subnets	[{"name":"default","properties":{"addressPrefix":"10.0.0.0/24"}}]
* Public Ip Address Name	Win16-Test-ip
* Public Ip Address Type	Dynamic
* Public Ip Address Sku	Basic
* Virtual Machine Name	Win16-Test
* Virtual Machine RG	Sandbox-RG
* Os Disk Type	Premium_LRS
* Virtual Machine Size	Standard_DS1_v2
* Admin Username	SuperUser
* Admin Password 1a
* Diagnostics Storage Account Name	sandboxrgdiag478
* Diagnostics Storage Account Id	Microsoft.Storage/storageAccounts/sandboxrgdiag478
* Diagnostics Storage Account Type	Standard_LRS
* Diagnostics Storage Account Kind	Storage

TERMS AND CONDITIONS

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.

Microsoft assumes no responsibility for any actions performed by third-party templates and does not provide rights for third-party products or services. See the [Azure Marketplace Terms](#) for additional terms.

1b ☒ I agree to the terms and conditions stated above

Purchase 2

💡 The "fill in the blank" parameters when deploying templates via the Portal is the same experience for any templates with parameters

💡 The Azure Portal generates templates that are not flexible and not reusable as they are custom built for your exact build. In the real world, you shouldn't need as many Parameter fields as most entries can be derived from other information.

- Check the progress of the deployment under the resource group... observing the resources that are deployed and still to be deployed
- Click on the template / input to see the historical nature of the deployment.
 - Image to be added
- Download the template to see that Azure retains and gives you the ability to re-use the templates

a. Image to be added

10. Optionally feel free to re-deploy the template changing a few properties like the VM name to see what happens