

# Specialized Image

Step 1: Login to Azure Portal, Create a Windows Virtual Machine.

Home > Virtual machines >

## Create a virtual machine

ⓘ Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

Resource group \* ⓘ Practice [Create new](#)

**Instance details**

Virtual machine name \* ⓘ SpecializedVM ✓

Region \* ⓘ (Asia Pacific) Central India

Availability options ⓘ No infrastructure redundancy required

Security type ⓘ Trusted launch virtual machines  
[Configure security features](#)

Image \* ⓘ Windows Server 2019 Datacenter - x64 Gen2  
[See all images](#) | [Configure VM generation](#)

VM architecture ⓘ  
☐ Arm64  
☒ x64  
ⓘ Arm64 is not supported with the selected image.

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

- You can use Custom Script Extension for the direct installation of IIS.
- Select Your IIS Script from the storage account. Browse from the blob storage account. And select the uploaded IIS script.
- IIS installation Custom Script: -

**import-module servermanager**

**add-windowsfeature web-server -includeallsubfeature**

**set-content -path "C:\inetpub\wwwroot\Default.html" -Value "This is server  
\$((\$env:computername) !"**

- Make sure you are uploading the .ps1 extension file.
- Or you can use VS code and select language as powershell, it will automatically detect the extension for it.
- If the above code doesn't work for you, get the file from GitHub.

Home > Virtual machines >

## Create a virtual machine


Basics Disks Networking Management Monitoring **Advanced** Tags Review + create

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

### Extensions

Extensions provide post-deployment configuration and automation.

Extensions ⓘ

 Custom script extension  
Microsoft Corp.  
Select an extension to install

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

Select a VM application to install

### Custom data

Pass a script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMs](#)

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

<https://portal.azure.com/#> [Give feedback](#)

## Step 2: Review + Create your VM.

- After complete deployment, Copy the Public IP and run it on your local browser.

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230821124755 | Overview >

## SpecializedVM

Virtual machine

Search << Connect Start Restart Stop Capture Delete Refresh Open in mobile Feedback CLI / PS

Overview

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

### Settings

- Networking
- Connect
- Windows Admin Center
- Disks
- Size
- Microsoft Defender for Cloud
- Advisor recommendations
- Extensions + applications
- Availability + scaling
- Configuration

### Essentials

Resource group (move) : [Practice](#)

Status : Running

Location : Central India

Subscription (move) : [Azure subscription 1](#)

Subscription ID : f55b27c1-cfe0-448c-9ca5-8454eecfeb4e

Tags (edit) : [Add tags](#)

Operating system : Windows (Windows Server 2019 Datacenter)

Size : Standard D2s v3 (2 vCPUs, 1 GiB memory)

Public IP address : **4.213.99.75** [Copy](#)

Virtual network/subnet : [Practice-vnet/default](#)

DNS name : [Not configured](#)

Health state : -

### Properties

Virtual machine	Monitoring	Capabilities (8)	Recommendations	Tutorials
Computer name	SpecializedVM			
Operating system	Windows (Windows Server 2019 Datacenter)			
Image publisher	MicrosoftWindowsServer			
Image offer	WindowsServer			
Image plan	2019-datacenter-gensecond			
VM generation	V2			

### Networking

Public IP address	4.213.99.75 ( Network interface)	specializedvm281
Public IP address (IPv6)	-	
Private IP address	10.2.0.5	
Private IP address (IPv6)	-	
Virtual network/subnet	Practice-vnet/default	

- The Default Windows page will appear. According to our Custom Script we need to redirect to Default.html . Enter the URL as shown below.



Step 3: Go back to overview of your VM. Click on Capture to create your specialized image.

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230821124755 | Overview >

### SpecializedVM

Virtual machine

Search

Connect Start Restart Stop **Capture** Delete Refresh Open in mobile Feedback CLI / PS

Overview

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

Settings

- Networking
- Connect
- Windows Admin Center
- Disks
- Size
- Microsoft Defender for Cloud
- Advisor recommendations
- Extensions + applications
- Availability + scaling
- Configuration
- Identity

Essentials

Resource group (move) : [Practice](#)

Status : Running

Location : Central India

Subscription (move) : [Azure subscription 1](#)

Subscription ID : f55b27c1-cfe0-448c-9ca5-8454eecfeb4e

Operating system : Windows (Windows Server 2019 Datacenter)

Size : Standard B1s (1 vcpu, 1 GiB memory)

Public IP address : [4.213.99.75](#)

Virtual network/subnet : [Practice-vnet/default](#)

DNS name : [Not configured](#)

Health state : -

Tags (edit) : [Add tags](#)

JSON View

Properties Monitoring Capabilities (8) Recommendations Tutorials

**Virtual machine**

Computer name	SpecializedVM
Operating system	Windows (Windows Server 2019 Datacenter)
Image publisher	MicrosoftWindowsServer
Image offer	WindowsServer
Image plan	2019-datacenter-gensecond
VM generation	V2
VM architecture	x64

**Networking**

Public IP address	<a href="#">4.213.99.75</a> (Network interface)	<a href="#">specializedvm281</a>
Public IP address (IPv6)	-	
Private IP address	10.2.0.5	
Private IP address (IPv6)	-	
Virtual network/subnet	<a href="#">Practice-vnet/default</a>	
DNS name	<a href="#">Configure</a>	

- Create a new Azure compute gallery.
- Select Specialized image type.
- Create New image definition

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230821

## Create an image

**Gallery details**

Target Azure compute gallery \*  [Create new](#)

Operating system state ☒ Generalized: VMs created from other VM related setup to be copied ☐ Specialized: VMs created from the host require parameters such as host name

**Version details**

Version number \*

Exclude from latest ☐

End of life date

Shallow replication ☐

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

**Create a VM image definition**

VM image definition name \*  ✓

OS type ☐ Linux ☒ Windows

VM generation ☐ Gen 1 ☒ Gen 2

Security type

VM architecture ☒ x64 ☐ Arm64

VM architecture has been automatically switched to x64 because Arm64 virtual machines are not supported with Trusted and Confidential security type.

Higher storage performance with NVMe (preview) ☐

Enable hibernation (preview) ☐

Accelerated networking (preview) ☐

Publisher \*

Offer \*

[Ok](#) [Cancel](#) [Give feedback](#)

- Enter the version number.
- Select the expiration for your image.

### Step 4: Click on Review + Create

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230821124755 | Overview > SpecializedVM

## Create an image

Target VM image definition \*  [Create new](#)

**Version details**

Version number \*  ✓

Exclude from latest ☐

End of life date

Shallow replication ☐

**Replication**

A VM image version can be replicated to different regions depending on what makes sense for your organization. One example is to always replicate the latest image in multiple regions while all older versions are only available in 1 region. This can help save on storage costs for VM image versions.

Default storage sku

Default replica count \*

**Target regions** **Target region replica count** **Storage account type**

(Asia Pacific) Central India  Zone-redundant

[Review + create](#) [< Previous](#) [Next : Tags >](#) [Give feedback](#)

Step 5: After the image creation is completed, go to resources.

Home > Microsoft.Compute-CaptureVM-20230821130725 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

**✓ Your deployment is complete**

Deployment name : Microsoft.Compute-CaptureVM-202... Start time : 8/21/2023, 1:10:49 PM  
Subscription : Azure subscription 1 Correlation ID : 012464c7-a56e-49f2-87b3-570ef52d...  
Resource group : Practice

Deployment details

Resource	Type	Status	Operation details
ImageGallery/WinV	VM image version	OK	<a href="#">Operation details</a>
ImageGallery/WinV	VM image definition	OK	<a href="#">Operation details</a>
ImageGallery	Azure compute gallery	OK	<a href="#">Operation details</a>

Next steps

[Go to resource](#)

**Cost management**  
Get notified to stay within your budget and prevent unexpected charges on your bill.  
[Set up cost alerts >](#)

**Microsoft Defender for Cloud**  
Secure your apps and infrastructure  
[Go to Microsoft Defender for Cloud >](#)

**Free Microsoft tutorials**  
[Start learning today >](#)

**Work with an expert**  
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.  
[Find an Azure expert >](#)

Step 6: Now, you can create the exact clone of your virtual machine using the image. Click on Create VM

***“New VM’s created out of the images will have the same computer name and user information. ”***

Home > Microsoft.Compute-CaptureVM-20230821130725 | Overview

1.0.0 (ImageGallery/WinVM/1.0.0) VM image version

Search

+ Create VM + Create VMSS Delete Refresh Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Update replication

Configuration

Properties

Locks

Automation

Tasks (preview)

Export template

Help

Support + Troubleshooting

Essentials

Resource group (move) : [Practice](#)

Status : Succeeded

Location : Central India

Subscription (move) : [Azure subscription 1](#)

Subscription ID : f55b27c1-cfe0-448c-9ca5-8454eefeb4e

Tags (edit) : [Add tags](#)

Azure compute gallery : [ImageGallery](#)

VM image definition : [WinVM](#)

Replication status : Completed

Replication mode : Full

Confidential OS disk encr... : -

Encryption type : Platform-managed key

End of life date : 2023-08-23

Exclude from latest : No

Storage account type : Standard HDD LRS

JSON View



Step 7: Enter the name for your VM, image will be automatically selected. Keep all Next steps as default and proceed on creating VM using image.



- While creating a VM using Specialized images, username and password textbox are disabled. As it is completely clone you have to use the same credentials for logging in.

Home > Microsoft.Compute-CaptureVM-20230821130725 | Overview > 1.0.0 (ImageGallery/WinVM/1.0.0) >




### Create a virtual machine



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



Subscription \*  Azure subscription 1 

Resource group \*  Practice   
[Create new](#)

**Instance details**

Virtual machine name \*   

Region \*  (Asia Pacific) Central India 

Availability options  No infrastructure redundancy required 








Security type  Trusted launch virtual machines   
[Configure security features](#)

Image \*     
[See all images](#) | [Configure VM generation](#)


VM architecture  ☐ Arm64 ☒ x64  
 Arm64 is not supported with the selected image.

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

Step 8: Click on create.

Home > Microsoft.Compute-CaptureVM-20230821130725 | Overview > 1.0.0 (ImageGallery/WinVM/1.0.0) >

### Create a virtual machine

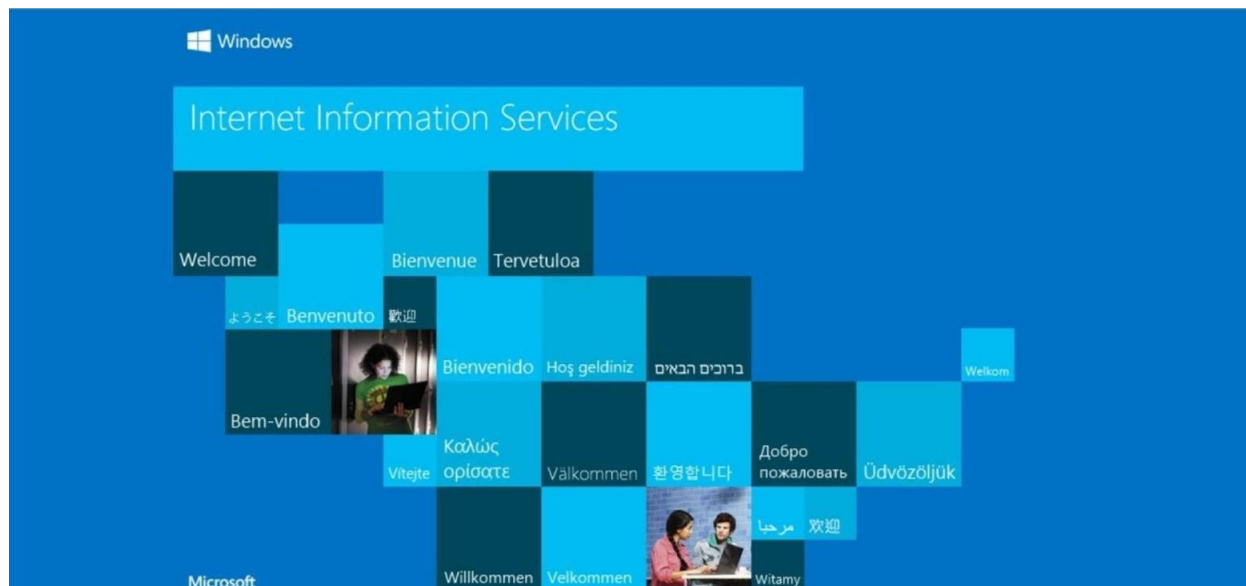
 Validation passed

**Basics**

Subscription	Azure subscription 1
Resource group	Practice
Virtual machine name	
Region	Central India
Availability options	No infrastructure redundancy required
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	ImageGallery/WinVM/1.0.0/ImageGallery/WinVM/1.0.0/ImageGallery/WinVM/1.0.0 - Gen2
VM architecture	x64
Size	Standard B1s (1 vcpu, 1 GiB memory)
Username	
Public inbound ports	RDP, HTTP
Already have a Windows license?	No
Azure Spot	No

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#) [Give feedback](#)

Step 9: After your Complete deployment of the VM, go to your resources, Copy the Public IP and run in your local browser. The Exact clone of your First Virtual Machine is running Successfully. You can check for the /Default.html page.



***“In Specialized VM images the information about specific users and machine information is retained “***