

Azure Virtual Machine Scale Sets - Flexible Orchestration Mode

Create a Virtual Machine Scale Set (VMSS) ...

✓ Validation passed

Basics Spot Disks Networking Management Health Advanced Tags Review + create

Basics

Subscription	Azure subscription 1
Resource group	app-rg
Virtual machine scale set name	appvmss03
Region	North Europe
Orchestration mode	Flexible
Availability zone	None
Image	Windows Server 2022 Datacenter - Gen2
Size	Standard B1s (1 vcpu, 1 GiB memory)
Scaling mode	Manually update the capacity
Instance count	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes

< Previous

Next >

Create

Now create vm -> availability options “vmss” and Virtual machine scale set
“vmss name”

Create a virtual machine

[Help me create a VM optimized for high availability](#)[Help me create a low cost VM](#)[Help me choose the right VM](#)

✓ Validation passed

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

Price

1 X Standard B1s

by Microsoft

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Subscription credits apply ⓘ

0.0153 USD/hr

[Pricing for other VM sizes](#)

TERMS

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Next >

Create

Under vmss -> instance (vm is added)

Home > Compute infrastructure | Virtual Machine Scale Set (VMSS) > appvmss03

appvmss03 | Instances

Virtual machine scale set

Search

Edit columns Refresh Export to CSV Open query Assign tags Start Restart Stop Hibernate Reimage Delete

Filter for any field... Status equals all Add filter

Showing 1 to 2 of 2 records.

Name	Computer name	Status	Type	Provisioning state	Size
appvmss03_8de3ed87	appvmss03VNT56H	Running	VM	Succeeded	Standard_B1s
vmssapp		Running	VM	Succeeded	Standard_B1s

< Previous Page 1 of 1 Next >

Give feedback

Lab - Virtual Machine Scale Sets - Custom Script Extensions

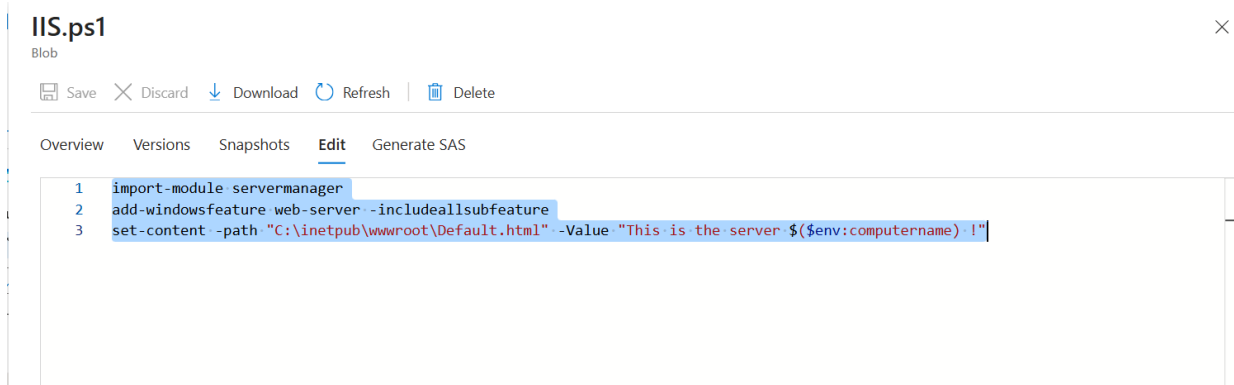
Add script on storage account

->>

```
import-module servermanager
```

```
add-windowsfeature web-server -includeallsubfeature
```

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



Create vmss

Networking -> allowing traffic from port 80 and enabled public ip

Edit network interface ...

snet-northeurope-1 (172.16.0.0/24) 

NIC network security group ⓘ

- ☐ None
- ☒ Basic
- ☐ Advanced

Public inbound ports * ⓘ

- ☐ None
- ☒ Allow selected ports

Select inbound ports *

HTTP (80) 

Public IP address ⓘ

Disabled Enabled

 Public IP addresses have a nominal charge. [Estimate price](#) 

Accelerated networking ⓘ

Disabled Enabled

OK

Cancel

Create a Virtual Machine Scale Set (VMSS) ...

✓ Validation passed

Basics

Spot

Disks

Networking

Management

Health

Advanced

Tags

Review + create

Basics

Subscription

Azure subscription 1

Resource group

app-rg

Virtual machine scale set name

vmssapp01

Region

North Europe

Orchestration mode

Uniform

Availability zone

None

Image

Windows Server 2022 Datacenter - Gen2

Size

Standard B1s (1 vcpu, 1 GiB memory)

Scaling mode

Manually update the capacity

Instance count

2

Security type

Trusted launch virtual machines

Enable secure boot

Yes

< Previous

Next >

Create

Add extension

1.custom extension script -> select

Home > vmssapp01 | Extensions + applications > Install an Extension > Configure Custom script extension Extension > Storage accounts > Containers >

scripts

Container

✕

⬆ Upload

🔄 Refresh

🗨 Give feedback

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: scripts

Search blobs by prefix (case-sensitive)

⬤ Show deleted blobs

+ Add filter

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
IIS.ps1	9/1/2025, 10:42:29 AM	Hot (Inferred)		Block blob	184 B	Available
install_web.sh	8/25/2025, 2:03:48 PM	Hot (Inferred)		Block blob	65 B	Available

Select

vmssapp01 | Instances ☆ ...

Search Start Restart Stop Hibernate Reimage Delete Upgrade Refresh Protection

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

Search virtual machine instances

Instance	Computer name	Status	Protection policy	Provisioning state	Health state	Latest model
<input type="checkbox"/> vmssapp01_0	vmssapp01000000	Running		Succeeded		⚠ No
<input type="checkbox"/> vmssapp01_1	vmssapp01000001	Running		Succeeded		⚠ No

Upgrade

vmssapp01 | Instances ☆ ...

Search Start Restart Stop Hibernate Reimage Delete Upgrade Refresh Protection

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Instances
- Resource visualizer
- Networking
 - Network settings
 - Load balancing

Upgrade virtual machine instance(s)

This action will manually upgrade the selected instances to the latest model. While upgrading, the instances may be restarted. Do you want to upgrade the selected instances?

Yes

No

Instance	Computer name	Status	Protection policy	Provisioning state	Health state	Latest model
<input type="checkbox"/> vmssapp01_0	vmssapp01000000	Running		Succeeded		⚠ No
<input type="checkbox"/> vmssapp01_1	vmssapp01000001	Running		Succeeded		⚠ No

virtual machine images

Home > vmssapp01

vmssapp01 | Instances

Virtual machine scale set

Search

Start Restart Stop Hibernate Reimage Delete Upgrade Refresh Protection

Search virtual machine instances

Instance	Computer name	Status	Protection policy	Provisioning state	Health state	Latest model
<input type="checkbox"/> vmssapp01_0	vmssapp01000000	Running		Succeeded		Yes
<input type="checkbox"/> vmssapp01_1	vmssapp01000001	Running		Succeeded		Yes

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

Lab - Creating a specialized image

Goto vm -> capture image

appvm

Virtual machine

Help me copy this VM in any region Manage this VM with Azure CLI

Search

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

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

Image

Restore point

JSON View

Essentials

Resource group (move) : app-rg

Status : Running

Location : North Europe

Subscription (move) : Azure_subscription_1

Operating system : Windows (Windows Server 2022 Datacenter)

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

Public IP address : 98.71.97.33

Virtual network/subnet : vnet-northeurope-1/snet-northeurope-1

Target Azure compute gallery -> create new -> companygallery

Target VM image definition -> create -> ok

Create a VM image definition

VM image definition name * ⓘ

webimage

OS type ⓘ

- ☐ Linux
☒ Windows

VM generation ⓘ

- ☐ Gen 1
☒ Gen 2

Security type ⓘ

Trusted launch

VM architecture ⓘ

- ☒ x64
☐ Arm64

Higher storage performance with NVMe ⓘ

☐

Hibernation supported ⓘ

☐

Accelerated networking ⓘ

☐

Publisher * ⓘ

MicrosoftWindowsServer

Ok

Cancel

Version number – 0.0.1

[Home](#) > [appvm](#) >

Create an image ...

✓ Validation passed

Basics Tags **Review + create**

Basics

Subscription	Azure subscription 1
Resource group	app-rg
Region	North Europe
Share image to Azure compute gallery	Yes
Automatically delete this virtual machine after creating the image	No
Azure compute gallery	(new) companygallery
Operating system state	Generalized
Target VM image definition	(new) webimage
Version number	0.0.1
Source virtual machine	appvm
Exclude from latest	No

Create

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Next >

[Download a template for automation](#)

Its created ->

Azure compute gallery

VM image definition

VM image version

Lab - Using the Specialized image

Create new vm -> Image (select webimage which we created) -> ports(80,3389)

[Home](#) > [Compute infrastructure](#) | [Virtual machines](#) >

Create a virtual machine

...



[Help me create a low cost VM](#)

[Help me choose the right VM size](#)

✓ Validation passed

companygallery/webimage/latest
Image

Standard B1s
1 vcpu, 1 GiB memory

Basics

Subscription	Azure subscription 1
Resource group	app-rg
Virtual machine name	webvm
Region	North Europe
Availability options	No infrastructure redundancy required
Zone options	Self-selected zone
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	companygallery/webimage/latest - Gen2
VM architecture	x64

[< Previous](#)

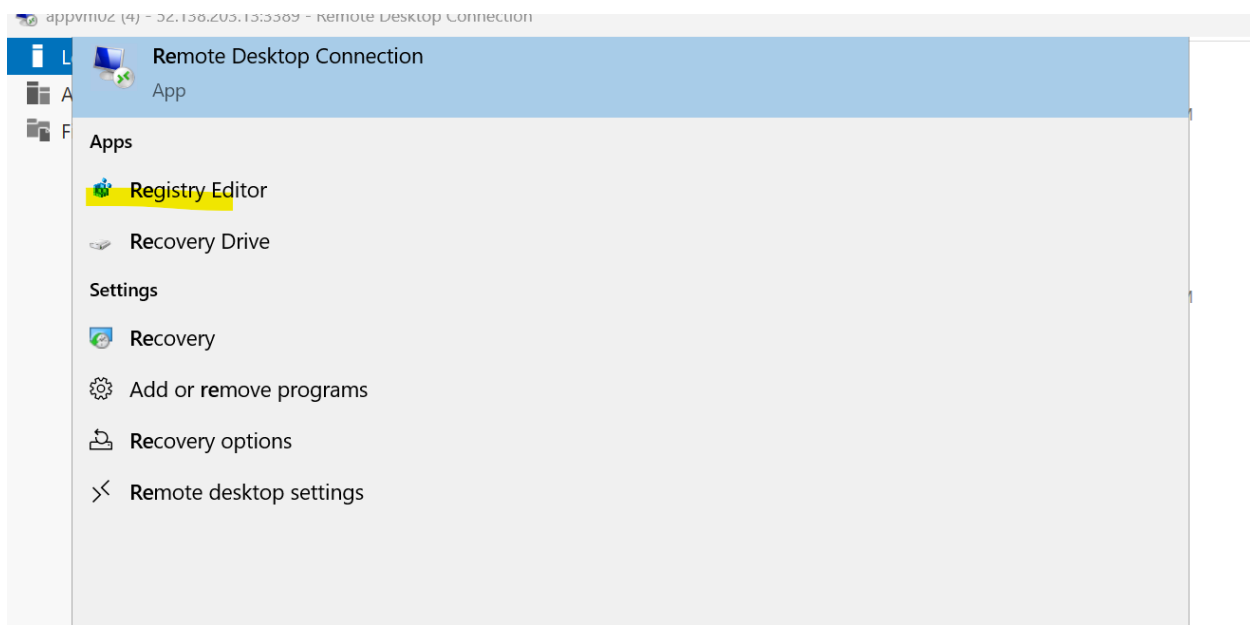
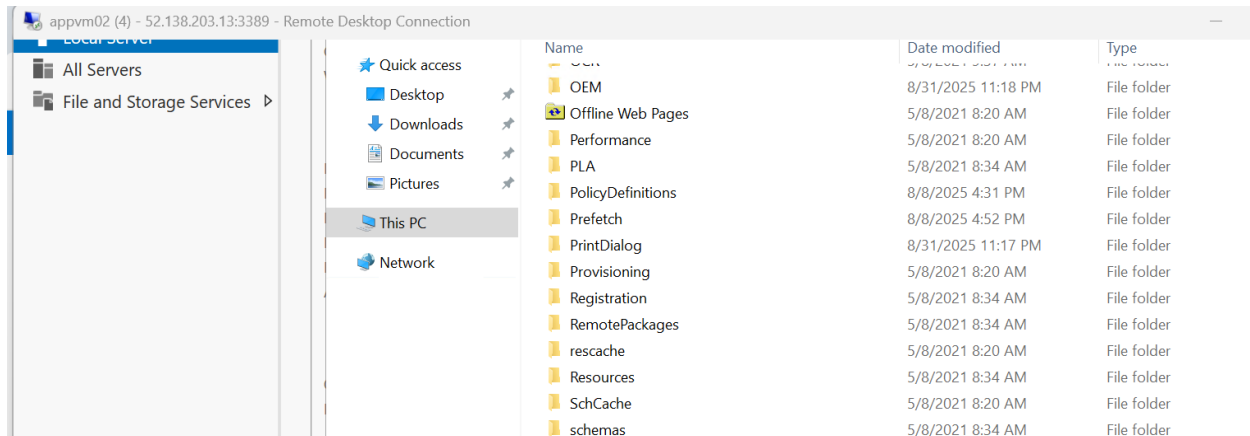
[Next >](#)

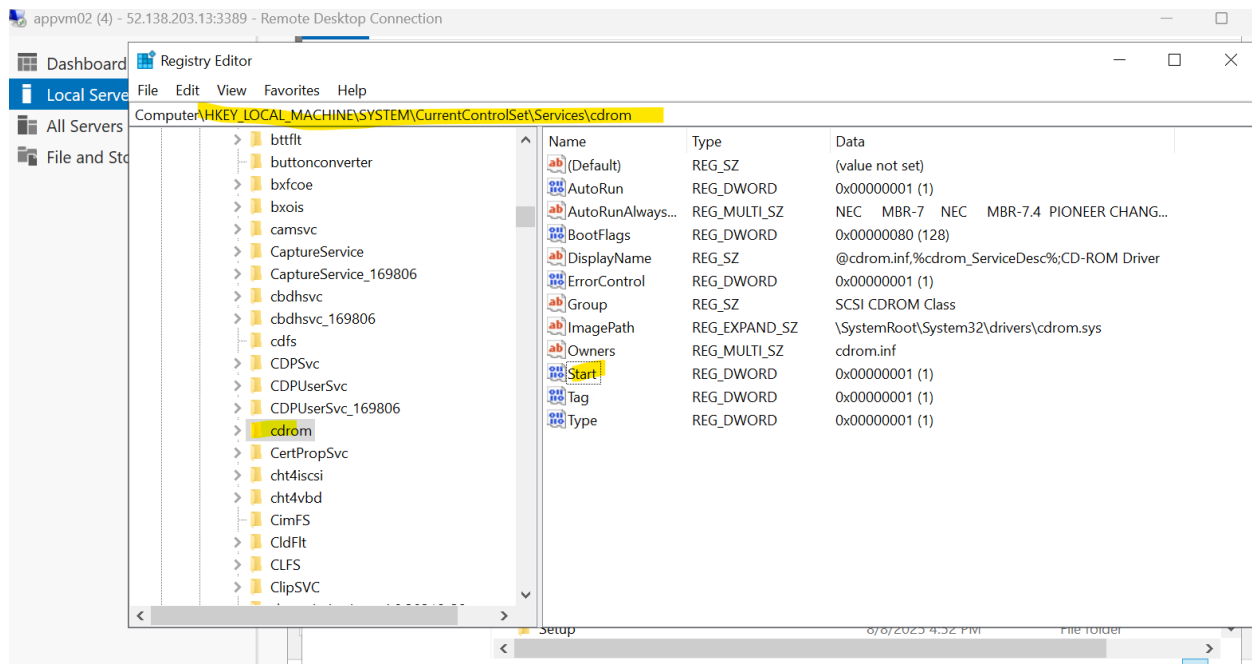
[Create](#)

Lab - Generalized VM Image

[Deprovision or generalize a VM before creating an image - Azure Virtual Machines | Microsoft Learn](#)

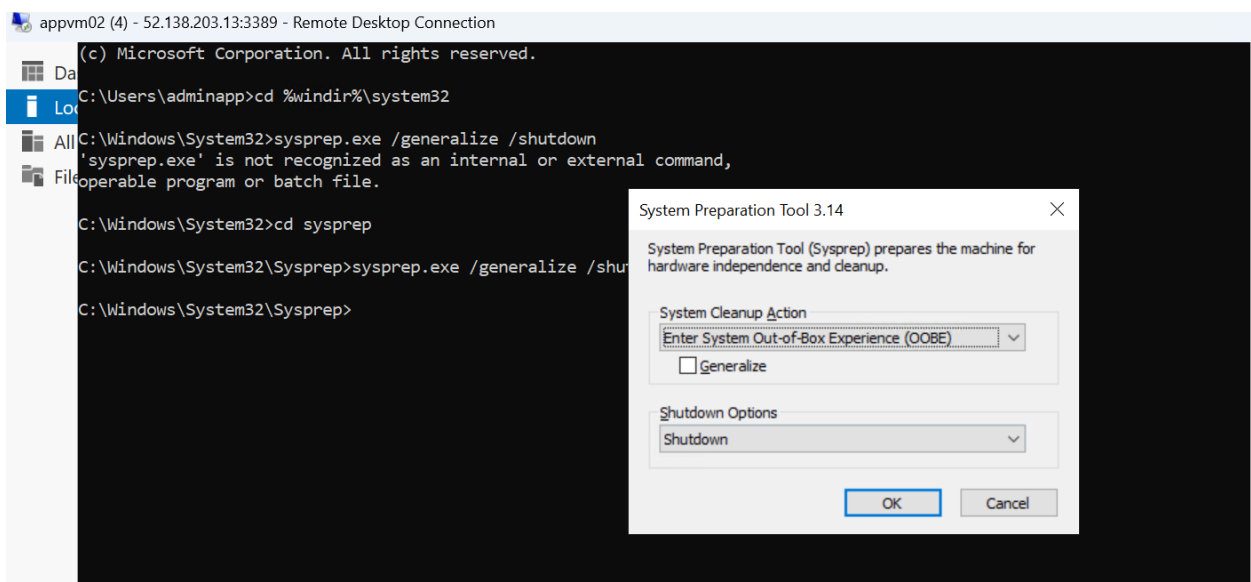
1. Sign in to your Windows VM.
2. Open a Command Prompt window as an administrator.
3. Delete the panther directory (C:\Windows\Panther).

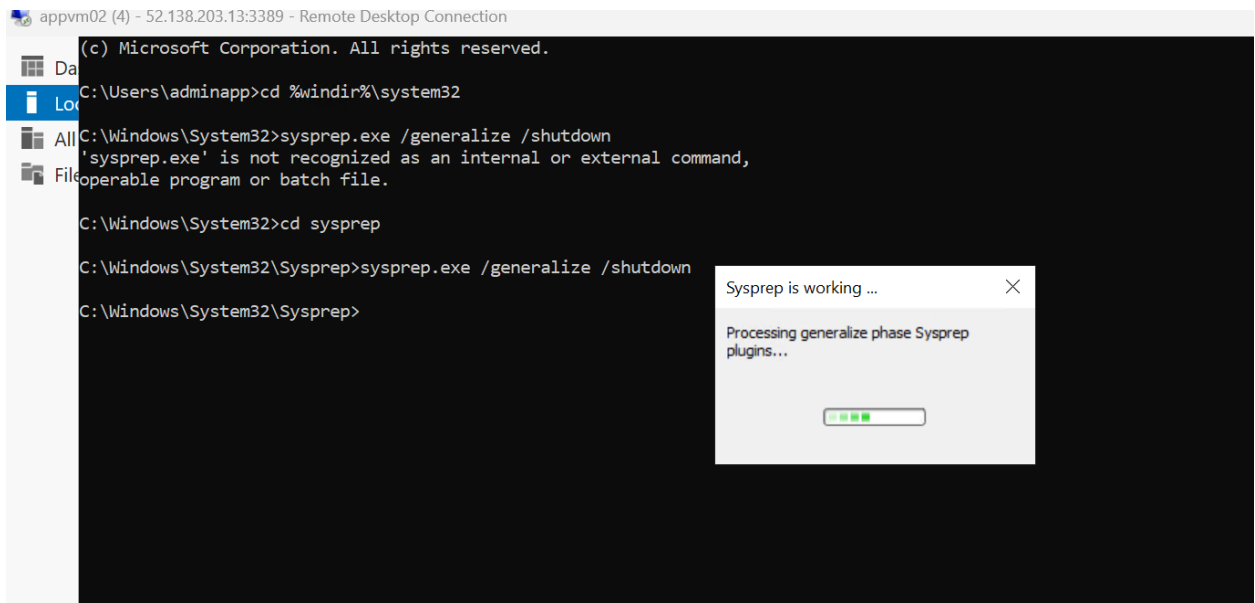




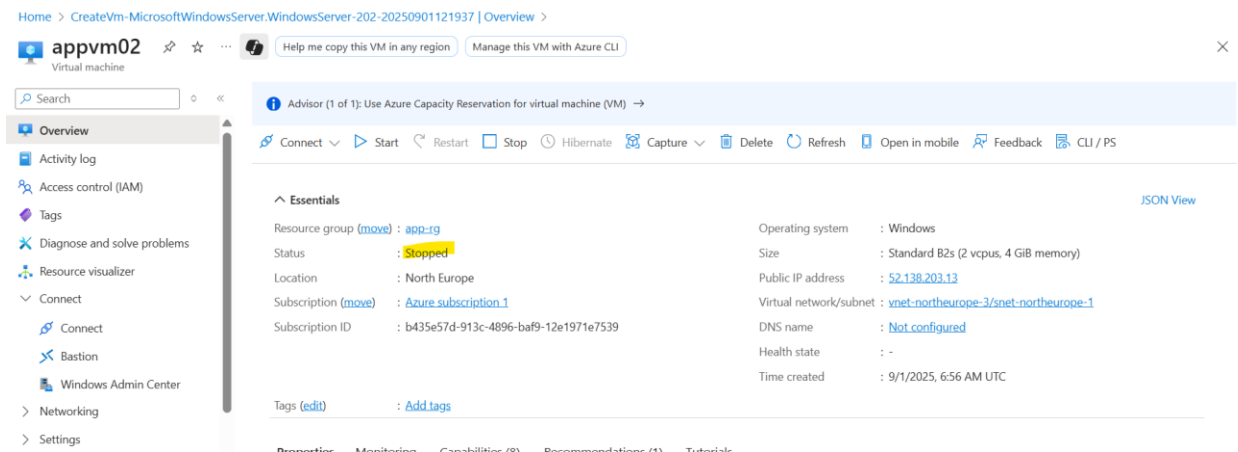
Execute cmd

1. sysprep.exe /generalize /shutdown





Now stopped vm



Create image

Create an image ...

✓ Validation passed

- Basics
- Tags
- Review + create

Basics

Subscription	Azure subscription 1
Resource group	app-rg
Region	North Europe
Share image to Azure compute gallery	Yes
Automatically delete this virtual machine after creating the image	No
Azure compute gallery	(new) companygallery
Operating system state	Generalized
Target VM image definition	(new) webimage
Version number	0.0.1
Source virtual machine	appvm02
Exclude from latest	No





Create

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Next >

Download a template for automation

Got to resource and create vm

 **0.0.1 (companygallery/webimage/0.0.1)**   ...  How do I troubleshoot issues with this resource?

VM image version

◇ <<

+ Create VM

+ Create VMSS

 Delete

 Refresh

 Give feedback

- Overview
- Activity log
- Access control (IAM)
- Ta...

^ Essentials

Resource group ([move](#)) : [app-rg](#)

Status : Succeeded

Location : North Europe

Create a virtual machine

...



Help me create a low cost VM

Help me choose the right VM size for

✓ Validation passed

Basics

Disks

Networking

Management

Monitoring

Advanced

Tags

Review + create



You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.

companygallery/webimage/0.0.1
Image

Standard B1ms
1 vcpu, 2 GiB memory

Basics

Subscription

Azure subscription 1

Resource group

app-rg

Virtual machine name

webvm02

Region

North Europe

Availability options

No infrastructure redundancy required

Zone options

Self-selected zone

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Next >

Create

Goto vm and check localserver check vm computer name “webvm”

Note of deployment details -

Home > All resources > app-rg

app-rg | Deployments

Resource group

Search

Refresh Cancel Redeploy Delete View template

Filter by deployment name or resources in the deployment...

Deployment name	Status	Last modified	Duration	Related events
network-interface-associated-virtual-network...	Succeeded	9/1/2025, 1:18:43 PM	5 seconds, 246 milliseconds	Related events
CreateVm-0.0.1-20250901131135	Succeeded	9/1/2025, 1:20:53 PM	2 minutes, 19 seconds, 990 millis...	Related events
Microsoft.Compute-CaptureVM-2025090112...	Succeeded	9/1/2025, 1:09:54 PM	8 minutes, 49 seconds, 219 millis...	Related events
network-interface-associated-virtual-network...	Succeeded	9/1/2025, 12:26:49 PM	5 seconds, 432 milliseconds	Related events
CreateVm-MicrosoftWindowsServer.Windows...	Succeeded	9/1/2025, 12:27:18 PM	41 seconds, 486 milliseconds	Related events
network-interface-associated-virtual-network...	Succeeded	9/1/2025, 12:01:45 PM	3 seconds, 571 milliseconds	Related events

Redeploy

Home > All resources > app-rg | Deployments >

CreateVm-MicrosoftWindowsServer.WindowsServer-202-20250901121937 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 9/1/2025, 12:26:37 PM
Subscription: [Azure subscription 1](#) Correlation ID: ca8e888c-532d-4b94-acdb-183ad47653c
Resource group: [app-rg](#)

Deployment details

Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

[Go to resource](#) [Create another VM](#)

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Azure Web Apps

Understand concept wherein we can host web applications on azure virtual machines

This is managed service, here the virtual machine and physical infrastructure is managed for you

[Home](#) > [Create a resource](#) >

Create Web App

all your resources.

Subscription * ⓘ

Resource Group * ⓘ [Create new](#)

Instance Details

Name ☒ .azurewebsites.net

☐ Try a secure unique default hostname. [More about this update](#)

Publish * ☒ Code ☐ Container

Runtime stack *

Operating System * ☐ Linux ☒ Windows

Region *

i Not finding your App Service Plan? Try a different region or select your App Service Environment.

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

Create Web App ...

- Basics
- Database
- Deployment
- Networking
- Monitor + secure
- Tags
- Review + create


Summary



Web App
by Microsoft

Free sku

Estimated price - Free

 Basic authentication for this app is currently disabled and may impact deployments. Click to learn more.

Details



Subscription	b435e57d-913c-4896-baf9-12e1971e7539
Resource Group	app-rg
Name	webapp1003045
Publish	Code
Runtime stack	.NET 8 (LTS)

Create

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Download a template for automation


<input type="checkbox"/>	 ASP-apprg-b613	...	App Service plan	app-rg	North Europe	Azure subscription 1
<input type="checkbox"/>	 webapp1003045	...	App Service	app-rg	North Europe	Azure subscription 1



Your web app is running and waiting for your content

Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon.



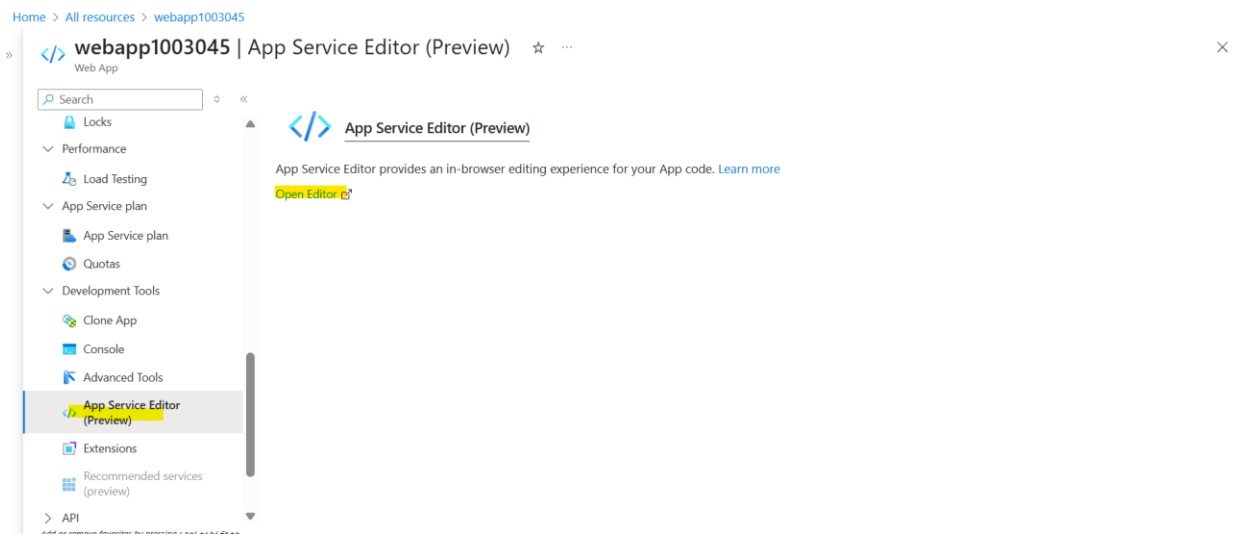
 Supporting Node.js, Java, .NET and more

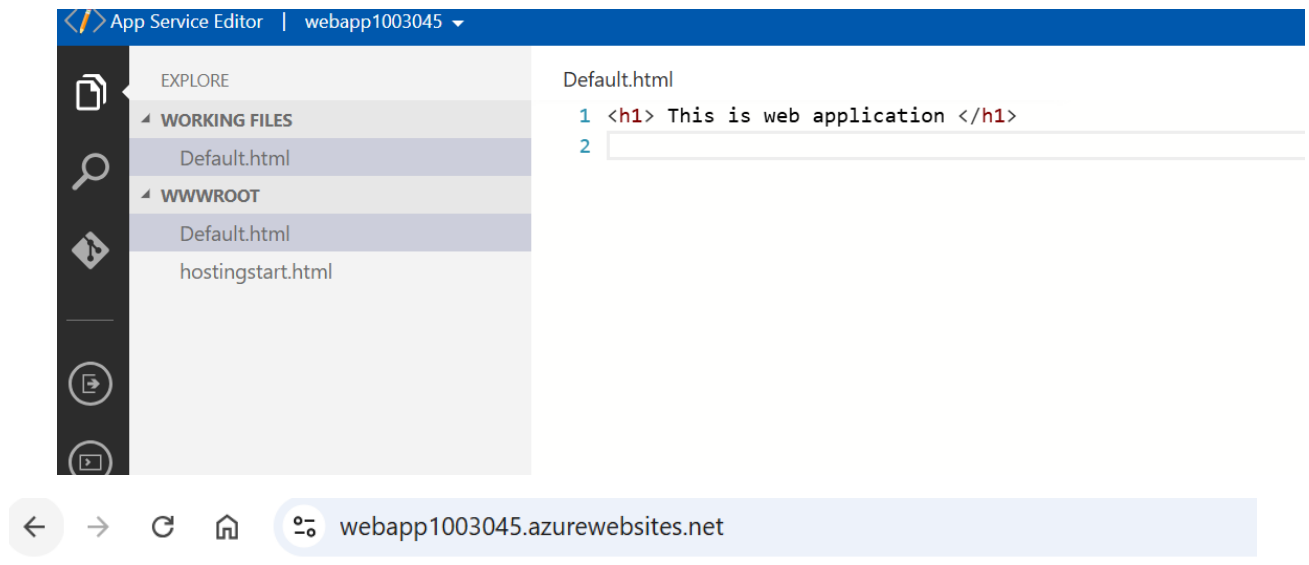
[Haven't deployed yet?](#)

[Starting a new web site?](#)

. Lab - Making simple changes to the Web App

Open app service editor-> add new file





This is web application

Add deployment slot

The screenshot shows the Azure portal interface for a web application named 'webapp1003045'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Resource visualizer, and Deployment. The 'Deployment slots' option is selected. The main content area displays the 'Add Slot' dialog. The dialog has a 'Name' field with the value 'staging' and a 'Clone settings from' dropdown menu set to 'Do not clone settings'. The 'Add' button is highlighted in blue.

Home > All resources > webapp1003045

webapp1003045 | Deployment slots ☆ ...

Web App

Search

Save Discard Add Swap Logs Refresh Send us your feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Resource visualizer

Deployment

Deployment slots

Deployment Center

Settings

Environment variables

Configuration

Add Slot

Name

staging

webapp1003045-staging.azurewebsites.net

Clone settings from:

Do not clone settings

Add Close

No slots have been created yet.

Deployment slots are live apps with their own hostnames. App content and configurations elements can be swapped between two deployment slots, including the production slot.

The screenshot shows the Azure portal interface for a web application named 'webapp1003045'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Resource visualizer, and Deployment. The 'Deployment slots' option is selected. The main content area displays the 'Deployment slots' page. The page shows a table with two slots: 'webapp1003045' (Production) and 'webapp1003045-staging'. The 'webapp1003045-staging' slot is highlighted in blue. The 'Notifications' panel on the right shows a notification for 'Creating new slot 'staging''.

Home > All resources > webapp1003045

webapp1003045 | Deployment slots ☆ ...

Web App

Search

Save Discard Add Swap Logs Refresh Send us your feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Resource visualizer

Deployment

Deployment slots

Deployment Center

Deployment slots are live apps with their own hostnames. App content and configurations elements can be swapped between two deployment slots, including the production slot.

Name	Status	App service plan	Traffic %
webapp1003045 PRODUCTION	Running	ASP-apprg-b613	100
webapp1003045-staging	Running	ASP-apprg-b613	0

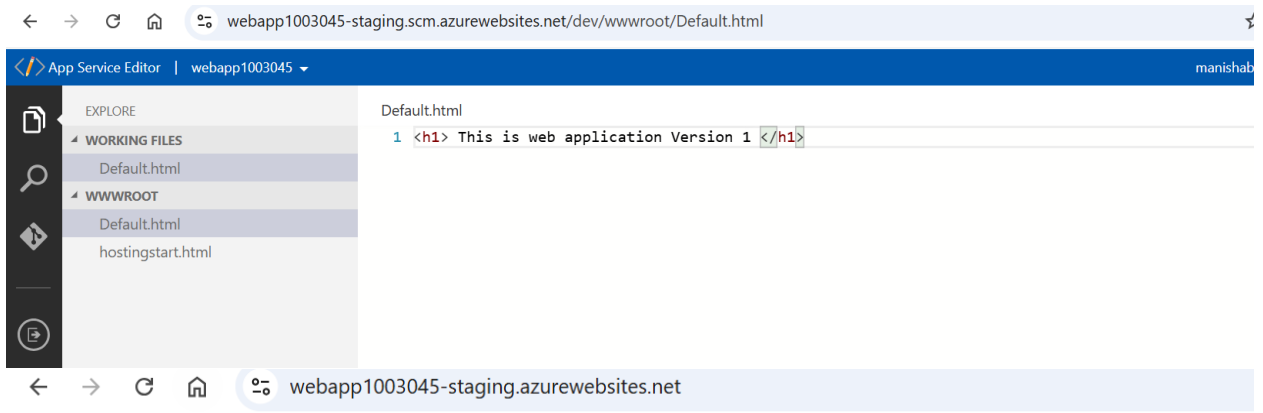
Notifications

More events in the activity log → Dismiss all

Creating new slot 'staging'

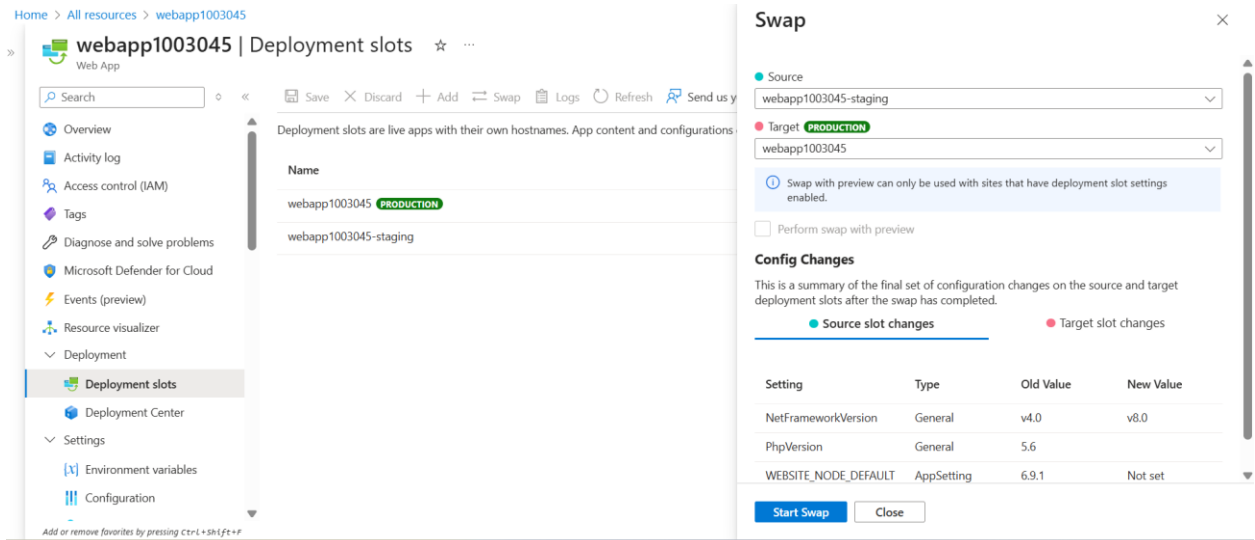
Successfully created slot 'staging'

a few seconds ago



This is web application Version 1

Swap



Swap to stg to prod

← → ↻ 🏠 🔍 webapp1003045-staging.azurewebsites.net

This is web application

Main url

← → ↻ 🏠 🔍 webapp1003045.azurewebsites.net

This is web application Version 1

Scale out-> configure autoscale

Add

Lab - Deploying Docker on a virtual machine

Create linux vm

[Home](#) > [All resources](#) > [Create a resource](#) >

Create a virtual machine



[Help me choose the right VM size for my workload](#)

[Help me create a VM optimized for high availability](#)

[H](#)

✓ Validation passed

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

Price

1 X Standard B2s
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ
0.0450 USD/hr
[Pricing for other VM sizes](#)

TERMS

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Name

manisha b

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[Create](#)

Deployment complete > connect to linuxvm

Ref [Ubuntu](#) | [Docker Docs](#)

1. Set up Docker's **apt** repository.
2. # Add Docker's official GPG key:
3. `sudo apt-get update`
4. `sudo apt-get install ca-certificates curl`
5. `sudo install -m 0755 -d /etc/apt/keyrings`
6. `sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc`
7. `sudo chmod a+r /etc/apt/keyrings/docker.asc`
- 8.
9. # Add the repository to Apt sources:
10. `echo \`

11. "deb [arch=\$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]
https://download.docker.com/linux/ubuntu \
"
 12. \$(. /etc/os-release && echo "\${UBUNTU_CODENAME:-\$VERSION_CODENAME}") stable" | \
"
 13. sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
- sudo apt-get update
14. Install the Docker packages.

1. sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

```
Preparing to unpack .../8-slirp4netns_1.2.1-1build2_amd64.deb ...
Unpacking slirp4netns (1.2.1-1build2) ...
Setting up docker-buildx-plugin (0.26.1-1~ubuntu.24.04~noble) ...
Setting up containerd.io (1.7.27-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.39.1-1~ubuntu.24.04~noble) ...
Setting up docker-ce-cli (5:28.3.3-1~ubuntu.24.04~noble) ...
Setting up libslirp0:amd64 (4.7.0-1ubuntu3) ...
Setting up pigz (2.8-1) ...
Setting up docker-ce-rootless-extras (5:28.3.3-1~ubuntu.24.04~noble) ...
Setting up slirp4netns (1.2.1-1build2) ...
Setting up docker-ce (5:28.3.3-1~ubuntu.24.04~noble) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.5) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.
```


Lab - Running the nginx container on the Linux VM

// Launching a container

```
sudo docker run --name mynginx -p 80:80 -d nginx
```

```
linuxvm@linuxvm:~$ sudo docker run -p 80:80 -d nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
b1badc6e5066: Pull complete
a2da0c0f2353: Pull complete
e5d9bb0b85cc: Pull complete
14a859b5ba24: Pull complete
716cdf61af59: Pull complete
14e422fd20a0: Pull complete
c3741b707ce6: Pull complete
Digest: sha256:33e0bbc7ca9ecf108140af6288c7c9d1ecc77548cbfd3952fd8466a75edefe57
Status: Downloaded newer image for nginx:latest
4b410d2e15a01eb9c0a3cff1b131b89b1a3099f3683fd9ebfe8fcec12171143f
```

Public ip of linuxvm

← → ↻ 🏠  Not secure 20.223.170.32

Welcome to nginx!


If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Lab - Azure Container Registry

Create container registry ...

 Running final validation

Basics **Networking** Encryption Tags Review + create

Registry details

Basics

Registry name	appregistry300
Subscription	Azure subscription 1
Resource Group	app-rg
Location	North Europe
Domain name label scope	Unsecure
Availability zones	Disabled
Pricing plan	Standard
Role assignment permissions mode (Preview)	RBAC Registry Permissions

Networking

Create

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Next >

[Download a template for automation](#)

 **appregistry300**
Container registry



Run Canpull to validate access to this ACR

Check AKS clusters pulling from this registry

Test if this ACR is accessible from connected AKS

Search



Move



Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Quick start
- Resource visualizer
- Events
- Settings
 - Access keys
 - Encryption

Essentials

Resource group	(move)	app-rg
Location		North Europe
Subscription	(move)	Azure subscription 1
Subscription ID		b435e57d-913c-4896-baf9-12e1971e7539
Soft delete (Preview)		Disabled
Tags	(edit)	Add tags

Login server	appregistry300.azurecr.io
Creation date	9/1/2025, 3:07 PM GMT+5:30
Provisioning state	Succeeded
Pricing plan	Standard
Domain name label scope	Unsecure

Get started

Monitoring

Capabilities (9)

Tutorials

```
linuxvm@linuxvm:~$ sudo docker login appregistry300.azurecr.io -u appregistry300 -p 2pTxhy7DseJG2/r
3dQJOG+ACRBk2qgA
WARNING! Using --password via the CLI is insecure. Use --password-stdin.

WARNING! Your credentials are stored unencrypted in '/root/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
```

Tag the image

```
sudo docker tag phpapp appregistry34000.azurecr.io/phpapp
```

Publish the image onto the Azure container registry

```
sudo docker push appregistry34000.azurecr.io/phpapp
```

IP address

Lab - Working with Azure virtual network

Create virtual network ...

✓ Validation passed

Basics Security IP addresses Tags **Review + create**

[View automation template](#)

Basics

Subscription	Azure subscription 1
Resource Group	app-rg
Name	app-network
Region	North Europe

Security

Azure Bastion	Disabled
Azure Firewall	Disabled
Azure DDoS Network Protection	Disabled

Previous

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Create

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Home > app-network-1756723883302 | Overview > app-network

app-network | Subnets

Virtual network

Search

+ Subnet Refresh | Manage users Delete

Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet.

Search subnets

<input type="checkbox"/>	Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table	
<input type="checkbox"/>	default	10.0.0.0/24	-	251	-	-	-	

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Resource visualizer
Settings
Address space
Connected devices
Subnets

Subnets help to segregate your workload with a virtual network

We can have the web servers located in one subnet and database server located in another subnet

Lab - Deploying a machine to the virtual network

Add a subnet

Select an address space and configure your subnet. You can customize a default subnet or select from subnet templates if you plan to add select services later. [Learn more](#)

Subnet purpose ⓘ	Default
Name * ⓘ	default

IPv4

Include an IPv4 address space	<input checked="" type="checkbox"/>
IPv4 address range ⓘ	10.0.0.0/16 10.0.0.0 - 10.0.255.255
Starting address * ⓘ	10.0.0.0
Size ⓘ	/24 (256 addresses)
Subnet address range ⓘ	10.0.0.0 - 10.0.0.255

IPv6

Include an IPv6 address space	<input type="checkbox"/> This virtual network has no IPv6 address ranges.
-------------------------------	---

Add	Cancel	Give feed
---------------------	------------------------	---------------------------

Create a virtual machine

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✓ Validation passed

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

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Name

< Previous	Next >	Create
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Private IP address allow communication across resources within a network

Dynamic IP address : IP address is only assigned when the public ip address is assigned to resource . IT is released when you stop or delete the resource .

Static IP address: IP address is assigned when it is created IP address is released when the resource is deleted

If you had a dynamic IP address and you stop and start and machin the ipaddress would change