

Create vm

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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 si](#)

✓ Validation passed

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

Price

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CreateVm-MicrosoftWindowsServer.WindowsServer-202-202508221...

Deployment

[Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)

Overview

[Inputs](#)

[Outputs](#)

[Template](#)

✓ Your deployment is complete

Deployment name: Cre... Start time: 8/2...
Subscription: Azure sub... Correlation ID: 8c...
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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Notifications

[More events in the activity log](#) → [Dismiss all](#)

✓ **Deployment succeeded**

Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20250822120516' to resource group 'app-rg' was successful.

[Go to reso...](#)








[Pin to dashb...](#)

7 minutes ago

Add or remove favorites by pressing **Ctrl+Shift+F**

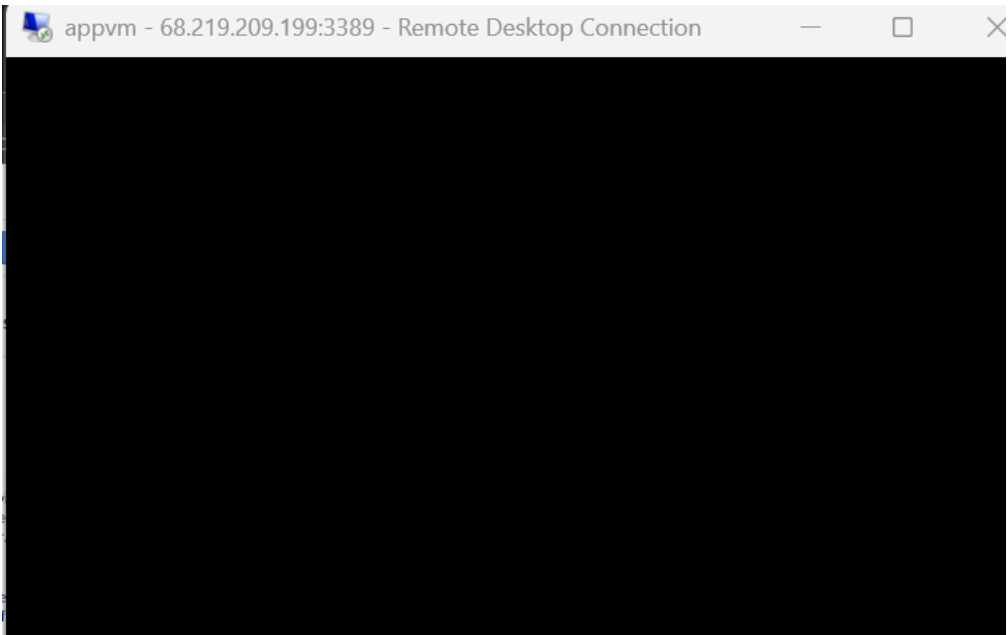
ⓘ You are viewing a new version of Browse experience. [Click here to access the old experience.](#)

Filter for any field... Subscription equals all Resource Group equals all Type equals all Location equals all + Add filter

<input type="checkbox"/>	Name ↑	Type	Resource Group	Location	Subscription
<input type="checkbox"/>	 appvm	Virtual machine	app-rg	North Europe	Azure subscription 1
<input type="checkbox"/>	 appvm-ip	Public IP address	app-rg	North Europe	Azure subscription 1
<input type="checkbox"/>	 appvm-nsg	Network security group	app-rg	North Europe	Azure subscription 1
<input type="checkbox"/>	 appvm-vnet	Virtual network	app-rg	North Europe	Azure subscription 1
<input type="checkbox"/>	 appvm994	Network Interface	app-rg	North Europe	Azure subscription 1
<input type="checkbox"/>	 appvm_disk1_a1ed89a640324d2fa789fa2ed9a1e2b6	Disk	APP-RG	North Europe	Azure subscription 1
<input type="checkbox"/>	 NetworkWatcher_northeurope	Network Watcher	NetworkWatcherRG	North Europe	Azure subscription 1

Showing 1 - 7 of 7. Display count: auto

[Give feedback](#)



Resize vm

Home > appvm

appvm | Size ☆ ...

Virtual machine

Search

Resource visualizer

Connect

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

Availability + scale

Size

Availability + scaling

Security

Backup + disaster recovery

Operations

If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional sizes. →

Showing 318 VM sizes. | Subscription: Azure subscription 1 | Region: North Europe | Current size: Standard_B2s | [Learn more about VM sizes](#) | Group by series

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GiB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Local stor
B-Series						
Ideal for workloads that do not need continuous full CPU performance						
B1ms						4 (SCS
B1s (free services eligi						4 (SCS
B2ms						16 (SC
B2s						8 (SCS
B4ms						32 (SC
D-Series v4						
The 4th generation D family sizes for your general purpose needs						
D-Series v3						
The 3rd generation D family sizes for your general purpose needs						

Resize

Prices presented are estimates in USD that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. [View Azure pricing calculator.](#)

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Home > appvm

appvm | Size ☆ ...

Virtual machine

Search

Resource visualizer

Connect

Networking

Network settings

If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional sizes. →

Showing 318 VM sizes. | Subscription: Azure subscription 1 | Region: North Europe | Current size: Standard_B2s | [Learn more about VM sizes](#)

Notifications

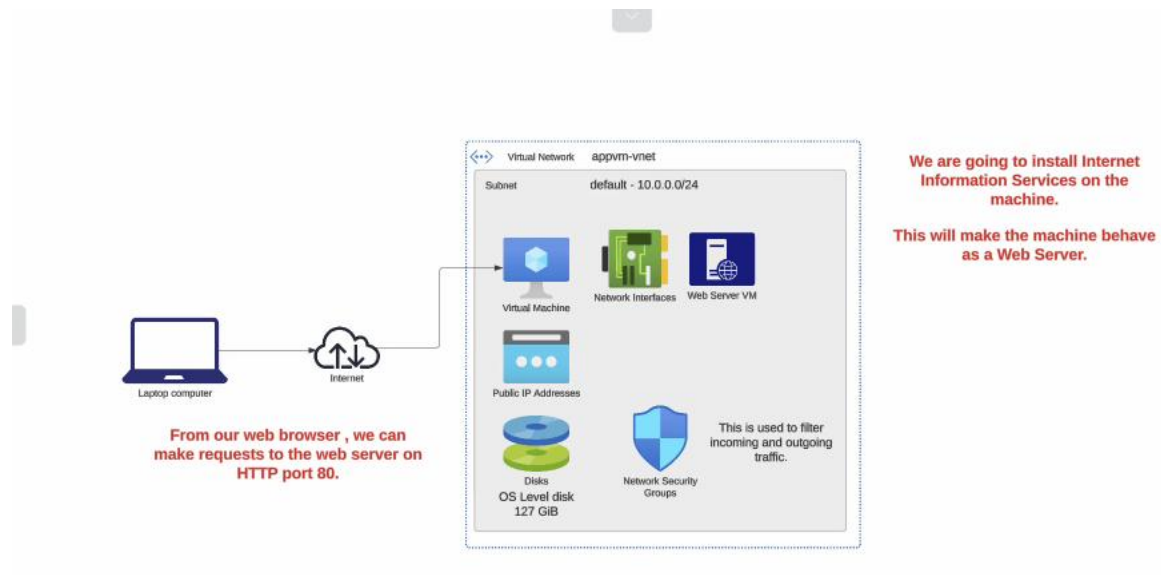
More events in the activity log → [Dismiss all](#)

Resized virtual machine

Successfully resized virtual machine 'appvm' to size 'Standard B2s'.

a few seconds ago

Install internet information on machin



Select installation type

DES

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running physical computer, or on an offline virtual hard disk (VHD).

☒ **Role-based or feature-based installation**

Configure a single server by adding roles, role services, and features.

☐ **Remote Desktop Services installation**

Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual or session-based desktop deployment.

< Previous

Next >

Install

Add Roles and Features Wizard

DESTINATION

Select destination server

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool

☐ Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
appvm	10.0.0.4	Microsoft Windows Server 2022 Datacenter

1 Computer(s) found

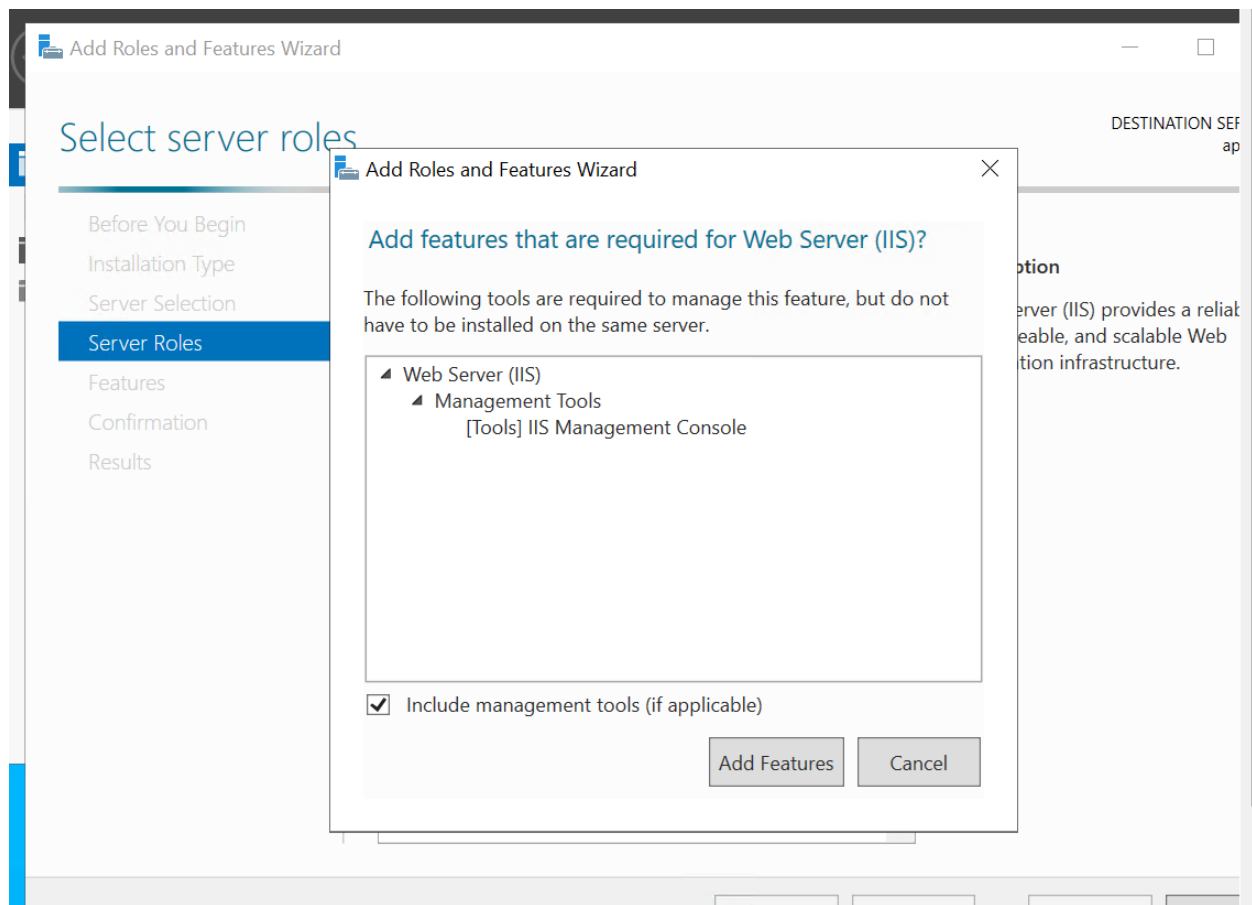
This page shows servers that are running Windows Server 2012 or a newer release of Windows and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

< Previous

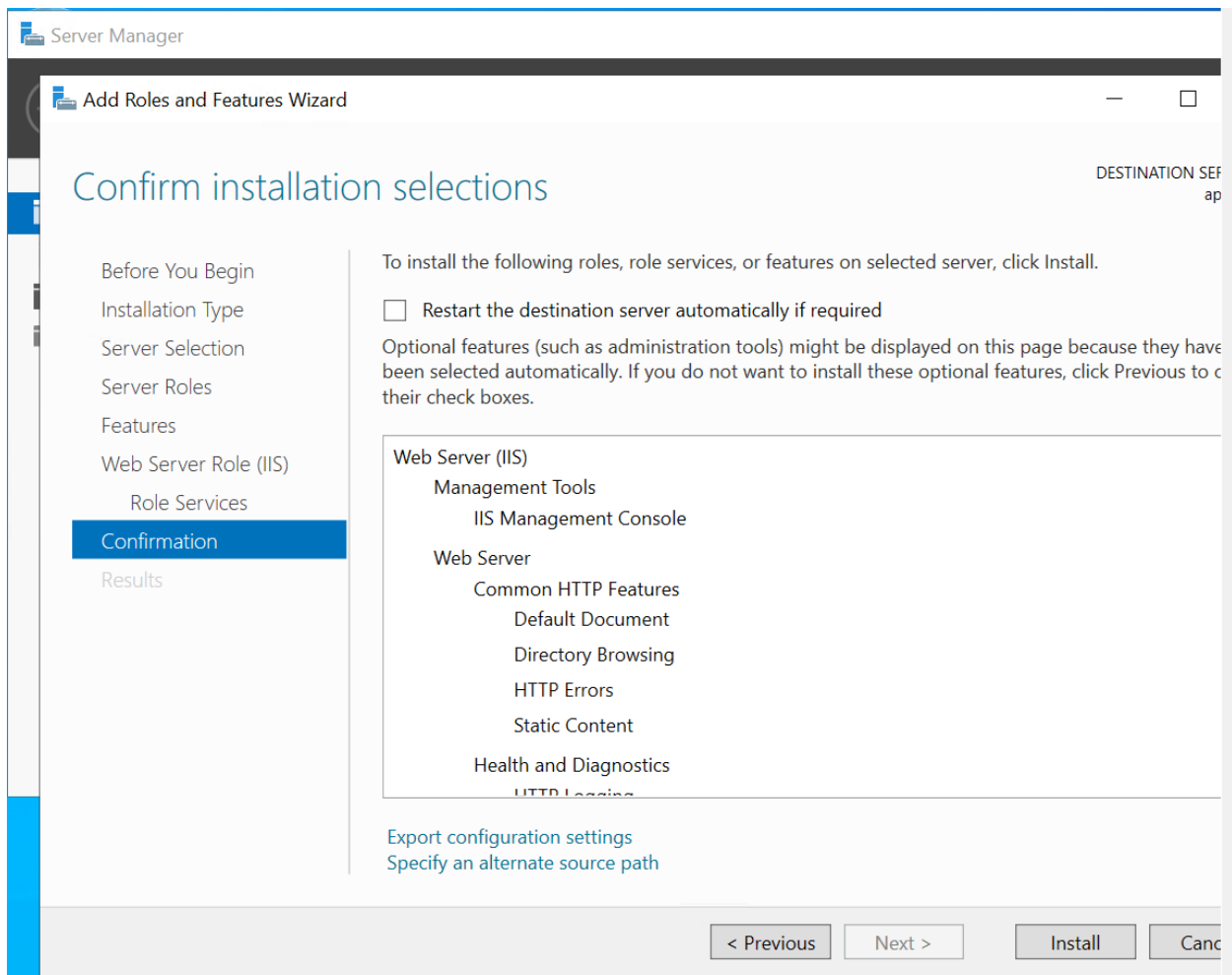
Next >

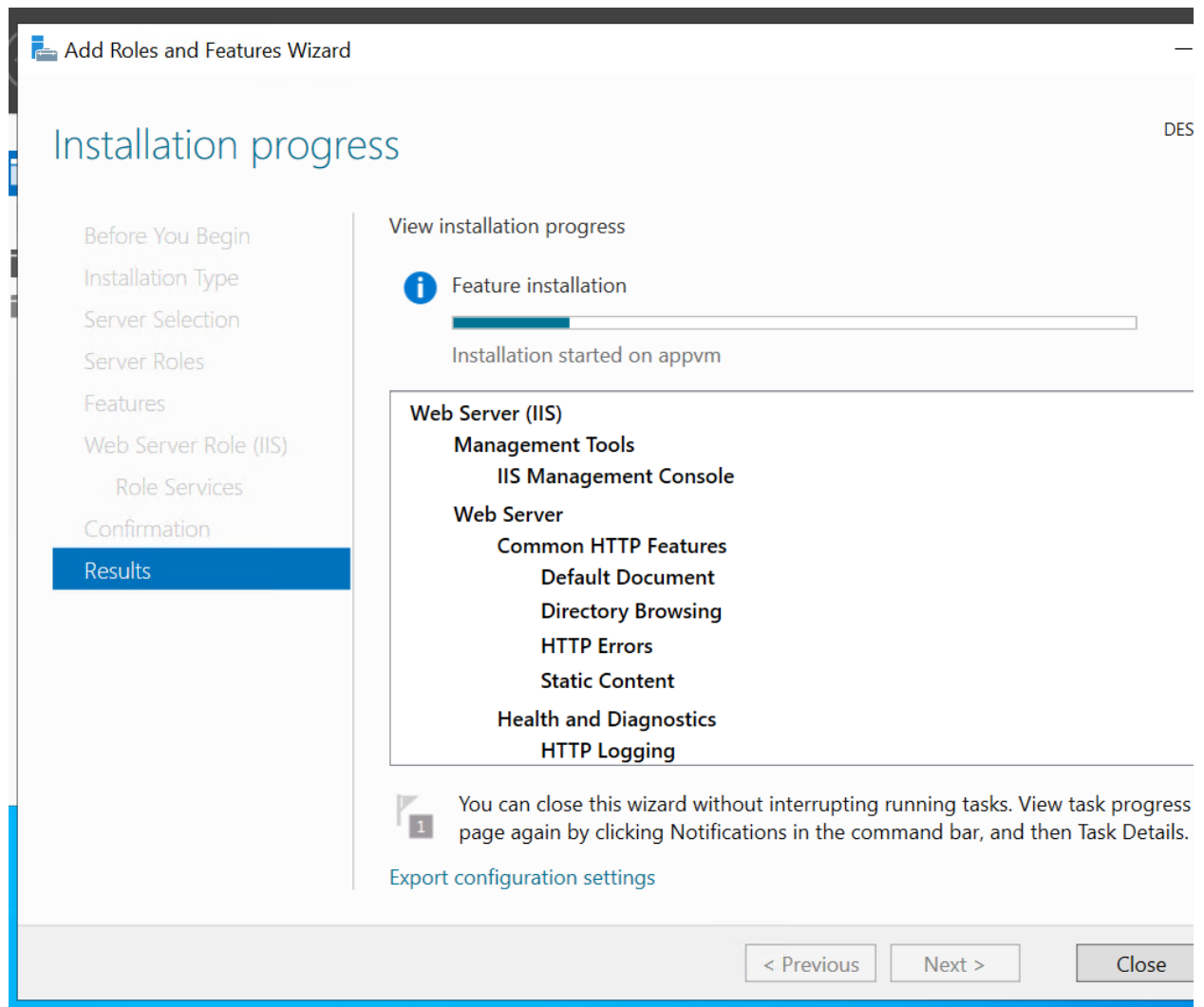
Install

Click on webserver and add fetuare click next



Click next and next and install





Close

Site cant reached



This site can't be reached

68.219.209.199 took too long to respond.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)
- [Running Windows Network Diagnostics](#)

ERR_TIMED_OUT

Reload

Add network inbound rule on machin



Add inbound security rule



appvm-nsg

Source ⓘ

Any



Source port ranges * ⓘ

*

Destination ⓘ

Any



Service ⓘ

HTTP



Destination port ranges ⓘ

80

Protocol

☐

Any

☒

TCP

☐

UDP

☐


ICMPv4

☐

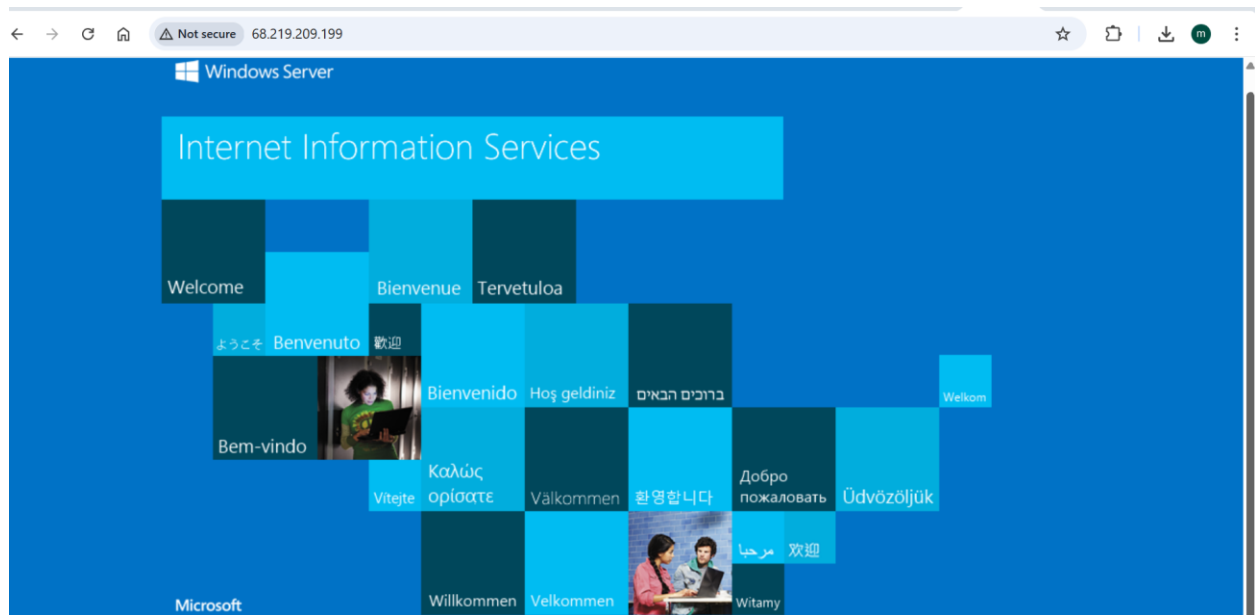
ICMPv6

Add

Cancel

 Give feedback

Refresh page use public ip of machin



Azure region

Azure has data centres location across in world.

Azure region is geographic location that has one or more data centers

When host a resource such as an azure virtual machine, it needs to be hosted on some physical infrastructure is an data center

These resources are made available to you via internet and azure portal is web interface that allows you to interact with the azure resources

Virtual sizes

[Virtual Machine series | Microsoft Azure](#)

create Linux vm

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 size for my workload](#)

✓ Validation passed

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

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Name

manisha b

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Create

[Download a template for a](#)

Home >

CreateVm-canonical.ubuntu-24_04-lts-server-20250822134257 | Ov...

⌵ ⋮ ✕

Deployment

Search

✕ ⋮

Overview

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Cancel

Redeploy

Download

Refresh

✓ Your deployment is complete

Deployment name:...

Subscription: Azure ...

Resource group: ap...

Start time: 8/2...

Correlation ID: 8...

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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Notifications

✕

More events in the activity log →

Dismiss all ✓

✓ Deployment succeeded

✕

Deployment 'CreateVm-canonical.ubuntu-24_04-lts-server-20250822134257' to resource group 'app-rg' was successful.

Go to resource

Pin to dashboard

a few seconds ago

Connect to linux

Lab - Build a Linux Virtual Machine - Resources

1> Connect with **Native SSH**

```
linuxadmin@linuxvm: ~  
* Management:      https://landscape.canonical.com  
* Support:         https://ubuntu.com/pro  
  
System information as of Fri Aug 22 08:24:40 UTC 2025  
  
System load: 0.15      Processes:           112  
Usage of /:  5.5% of 28.02GB  Users logged in:    0  
Memory usage: 28%      IPv4 address for eth0: 10.0.0.5  
Swap usage:  0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted  
by applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>  
See "man sudo_root" for details.  
  
linuxadmin@linuxvm:~$
```

2> Putty

linuxadmin@linuxvm: ~

* Management: <https://landscape.canonical.com>
* Support: <https://ubuntu.com/pro>

System information as of Fri Aug 22 08:26:53 UTC 2025

System load:	0.03	Processes:	115
Usage of /:	5.6% of 28.02GB	Users logged in:	1
Memory usage:	30%	IPv4 address for eth0:	10.0.0.5
Swap usage:	0%		

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See <https://ubuntu.com/esm> or run: `sudo pro status`

Last login: Fri Aug 22 08:24:42 2025 from 43.228.72.223
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

3> linuxadmin@linuxvm:~\$

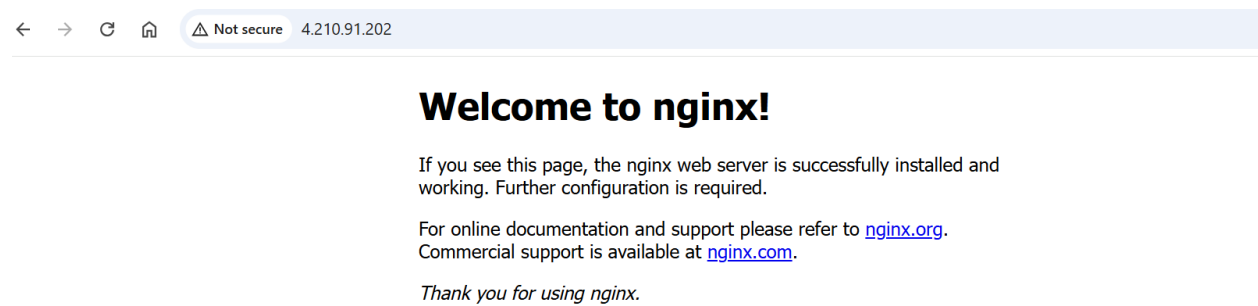
Deploy webserver on linux vm

->Sudo apt update

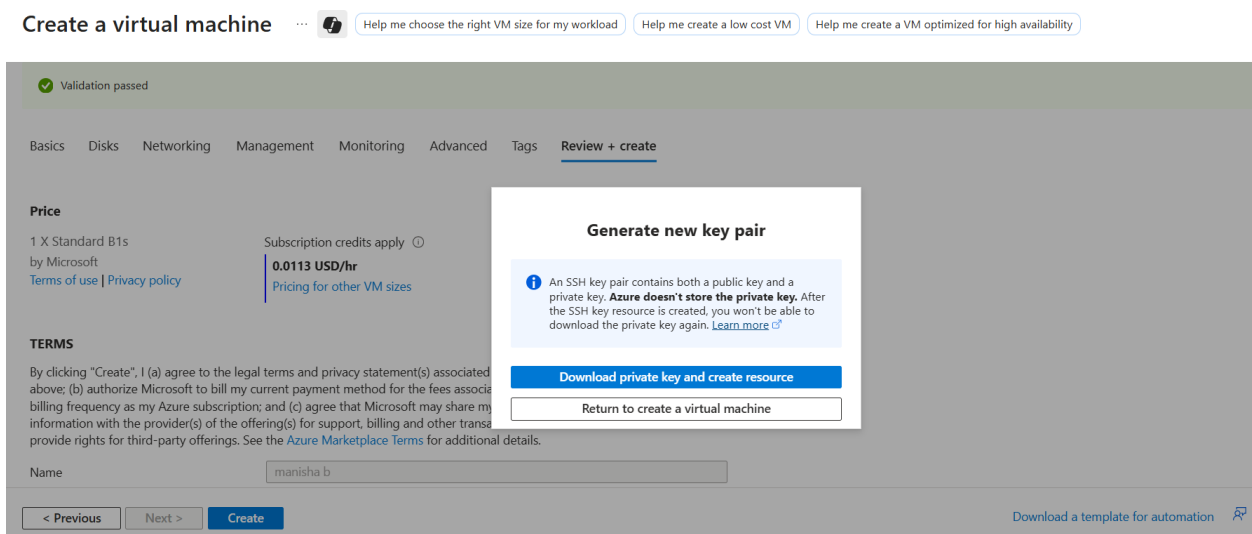
Sudo apt install nginx

Add inbound rule Http – 80

Got to public ip -



Lab - Deploying a Linux machine - SSH keys



Home >

CreateVm-canonical.ubuntu-24_04-lts-server-20250822142117 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: CreateVm-canonical.ubuntu-24_04-lts-server-2...

Subscription: Azure subscription 1

Resource group: app-rg

Start time: 8/22/2025, 2:26:10 PM

Correlation ID: c5d6f2b0-06ee-447e-abc0-50c44d822dbf

▼ Deployment details

▲ Next steps

Setup auto-shutdown Recommended

Monitor VM health, performance and network dependencies Recommended

Run a script inside the virtual machine Recommended

✓ Deployment succeeded

Deployment 'CreateVm-canonical.ubuntu-24_04-lts-server-20250822142117' to resource group 'app-rg' was successful.

Go to resource Pin to dashboard

Cost Management

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Microsoft Defender for Cloud

Secure your apps and infrastructure

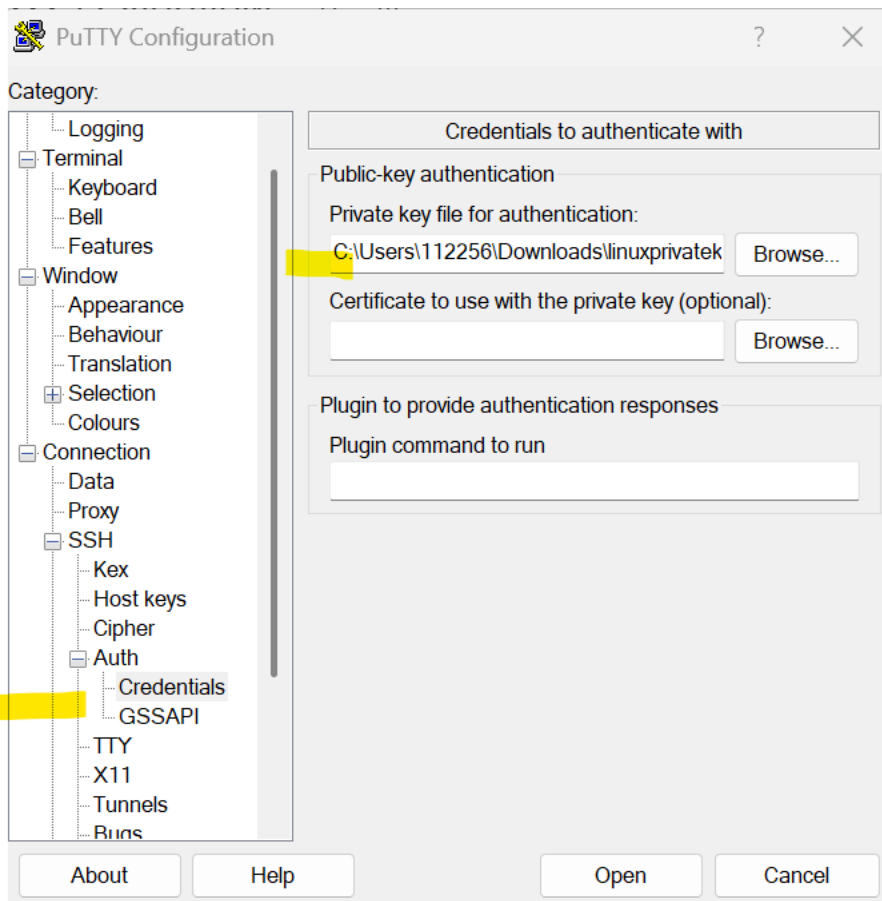
PuTTY Key Generator

PuTTYgen Notice

Successfully imported foreign key (OpenSSH SSH-2 private key (old PEM format)). To use this key with PuTTY, you need to use the "Save private key" command to save it in PuTTY's own format.

OK

authorized_keys file:
AABgQDPH2owgKXux5oM8L928LaIPB9e2yKjM8DX0HpMaxCug5MqZgwDd
I7Zx1Thi2umX2UpTPHxbhLagb2g1yzfzspDC9mH6VT0La0CvUSuZQQYJp1
JuiFOWsV4sAwSkDK6Jy/CjXGmoQTJdGSI4njREh6QOLdIFoRnS8iDAT8X/s
pp+Nu8qA94cWohc1Qglzu9UNbOuh
HA256:Vz4N5R+LQnjgRGJ85UigJHSKthU9GoHiNNdQj1XM+mc
ssh-key
Confirm
Actions
Generate a public/private key pair Generate
Load an existing private key file Load
Save the generated key Save public key Save private key
Parameters
Type of key to generate: RSA DSA ECDSA EdDSA SSH-1 (RSA)
Number of bits in a generated key: 2048



```
linuxvmuser@linuxvm: ~  
just raised the bar for easy, resilient and secure K8s cluster deployment.  
  
https://ubuntu.com/engage/secure-kubernetes-at-the-edge  
Expanded Security Maintenance for Applications is not enabled.  
0 updates can be applied immediately.  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
linuxvmuser@linuxvm:~$
```

Azure disk –

Storage volume managed by azure

Stard hdd – low cost, prformace issue

LUN -Logical unit number of the data disk. This value is used to identify data disks within the VM and therefore must be unique for each data disk attached to a VM.

Lab - Adding data disks

Home > appvm

appvm | Disks

Virtual machine

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Feedback

Troubleshoot

machine 'appvm' is 125 MBps. You can change the virtual machine size to support additional disk(s) throughput. [Learn more](#)

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	M
appvm_disk1_a1ed89a64	Premium SSD LRS	127	500	1C

Filter by name

Showing 1 of 1 attached data disks

Create and attach a new disk

Attach existing disks

LUN	Disk name	Storage type	Size (GiB)	Max IOPS
0	datadisk01	Premium SSD LRS	8	120

Notifications

More events in the activity log →

Dismiss all

Updated virtual machine

Successfully updated virtual machine 'appvm'.

a few seconds ago

Successfully created disk

Successfully created disk 'datadisk01'.

a few seconds ago

All resources

Generate PowerShell commands to list these resources

List CLI commands to manage these resources

Explain resource types in this view

Default Directory

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Delete

You are viewing a new version of Browse experience. Click here to access the old experience.

Filter for any field...

Subscription equals all

Resource Group equals all

Type equals all

Location equals all

Add filter

	Name ↑	Type	Resource Group	Location	Subscription
<input type="checkbox"/>	appvm	Virtual machine	app-rg	North Europe	Azure subscription...
<input type="checkbox"/>	appvm-ip	Public IP address	app-rg	North Europe	Azure subscription...
<input type="checkbox"/>	appvm-nsg	Network security ...	app-rg	North Europe	Azure subscription...
<input type="checkbox"/>	appvm-vnet	Virtual network	app-rg	North Europe	Azure subscription...
<input type="checkbox"/>	appvm994	Network Interface	app-rg	North Europe	Azure subscription...
<input type="checkbox"/>	appvm_disk1_a1ed89a640324d2fa789	Disk	APP-RG	North Europe	Azure subscription...
<input type="checkbox"/>	datadisk01	Disk	app-rg	North Europe	Azure subscription...
<input type="checkbox"/>	NetworkWatcher_northeurope	Network Watcher	NetworkWatcherRG	North Europe	Azure subscription...

Server Manager ▶ File and Storage Services ▶ Volumes ▶ Disks

Servers
Volumes
Disks
Storage Pools

DISKS

All disks | 3 total

Filter

Number	Virtual Disk	Status	Capacity	Unallocated	Partition	Read Only	Clustered	Subsystem	Bus Type	Name
appvm (3)										
2		Online	8.00 GB	8.00 GB	Unknown				SAS	Msft Virtual Disk
0		Online	127 GB	1.00 MB	GPT				SAS	Msft Virtual Disk
1		Online	8.00 GB	0.00 B	MBR				SAS	Msft Virtual Disk

Server Manager ▶ File and Storage Services ▶ Volumes ▶ Disks

Servers
Volumes
Disks
Storage Pools

DISKS

All disks | 3 total

Filter

Number	Virtual Disk	Status	Capacity	Unallocated	Partition	Read Only	Clustered	Subsystem	Bus Type	Name
appvm (3)										
2		Online	8.00 GB	8.00 GB	Unknown				SAS	Msft Virtual Disk
0		Online	127 GB	1.00 MB	GPT				SAS	Msft Virtual Disk
1		Online	8.00 GB	0.00 B	MBR				SAS	Msft Virtual Disk

New Volume...

Bring Online

Take Offline

Initialize

Reset Disk

Last refreshed on 8/22/2025 10:16:51 AM

Server Manager ▶ File and Storage Services ▶ Volumes ▶ Disks

Servers
Volumes
Disks
Storage Pools

New Volume Wizard

Completion

Before You Begin

Server and Disk

Size

Drive Letter or Folder

File System Settings

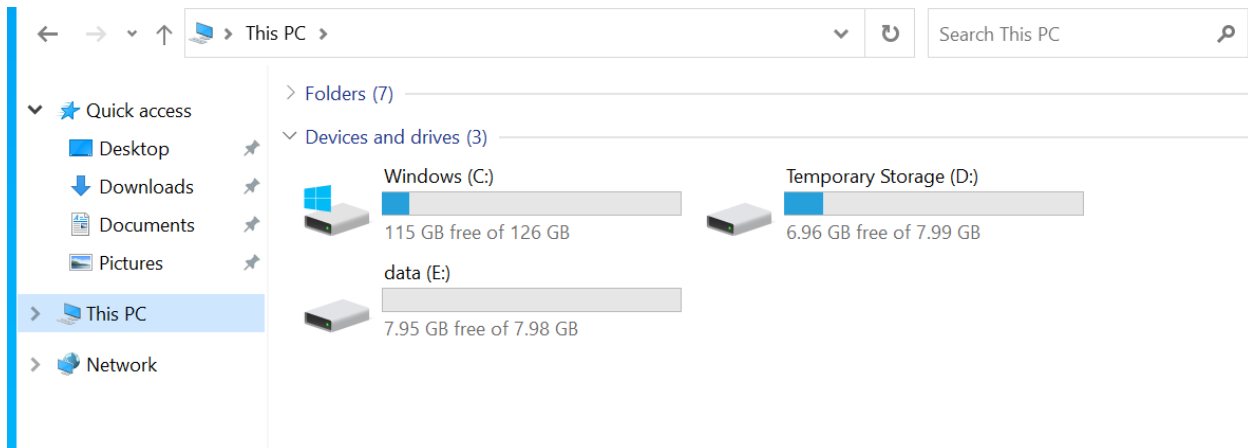
Confirmation

Results

You have successfully completed the New Volume Wizard.

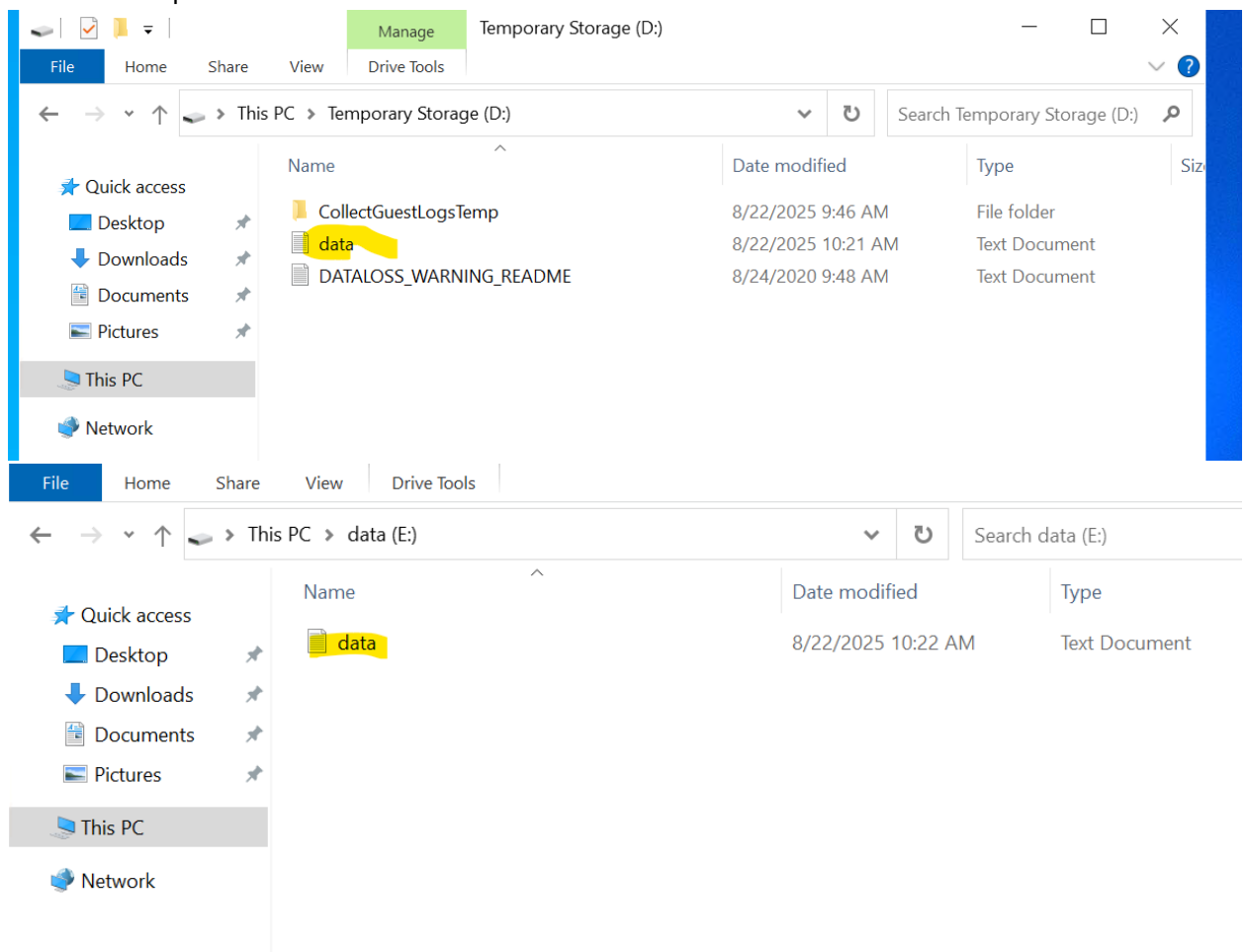
Task	Progress	Status
Gather information	<div></div>	Completed
Create new partition	<div></div>	Completed
Format volume	<div></div>	Completed
Add access path	<div></div>	Completed
Update cache	<div></div>	Completed

Added disk

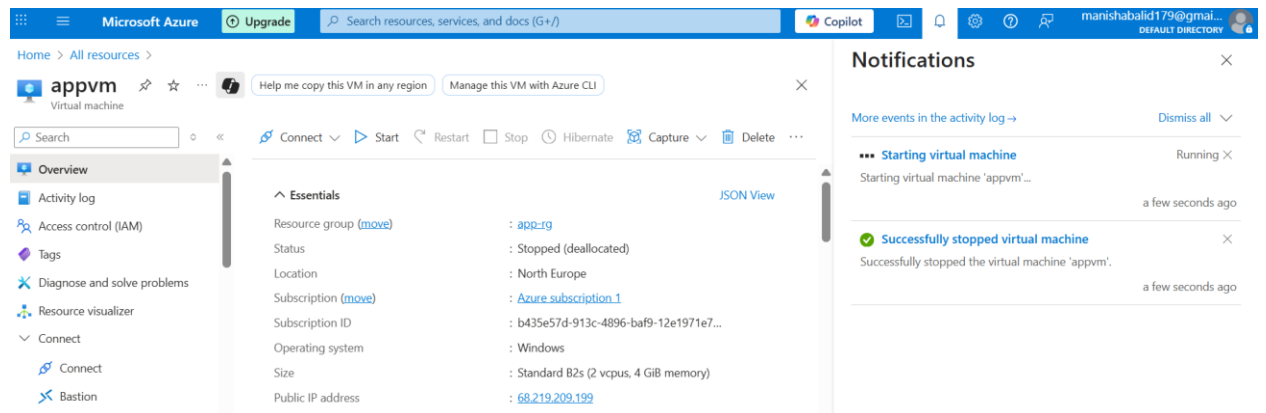


What happened we stop machin

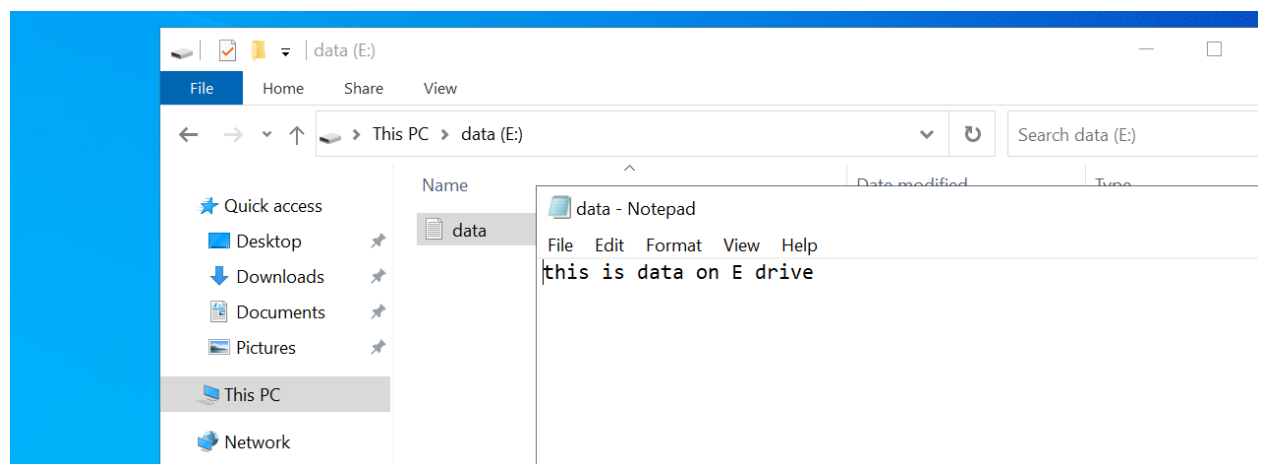
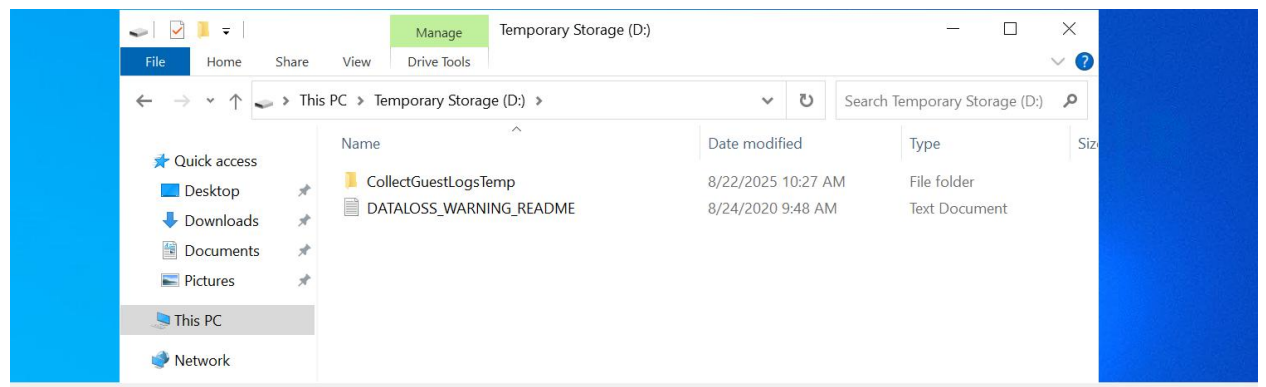
1. Created notepad file save in D drive and E drive on machin



stop/deallocate vm and start vm again



Connect to vm and verify drive D and E drive
File available on E drive only



Lab - Data Disks Snapshot

Read data copy of disk

1> Create 2 vm

Appvm02

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Create a virtual machine



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

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Create snapshot data disk



appvm | DISKS



Virtual machine

Search



Refresh



Additional settings



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Locks

Availability + scale

Size

Availability + scaling

Security

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption ⓘ
appvm_disk1_a1ed89a640324	Premium SSD LRS	127	500	100	SSE with PMK

Data disks

Filter by name

Showing 1 of 1 attached data disks

[+ Create and attach a new disk](#) [Attach existing disks](#)

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput
0	datadisk01	Premium SSD LRS	8	120	25

Click on disk and click on create snapshot

Create snapshot ...

 Validation passed

- Basics
- Encryption
- Networking
- Advanced
- Tags
- Review + create

Basics

Subscription	Azure subscription 1
Resource group	app-rg
Region	North Europe
Name	disk01-snapshot
Source subscription	Azure subscription 1
Source type	disk
Source disk	datadisk01
Security type	Standard
Storage type	Standard_ZRS
Snapshot type	Full
VM architecture	x64

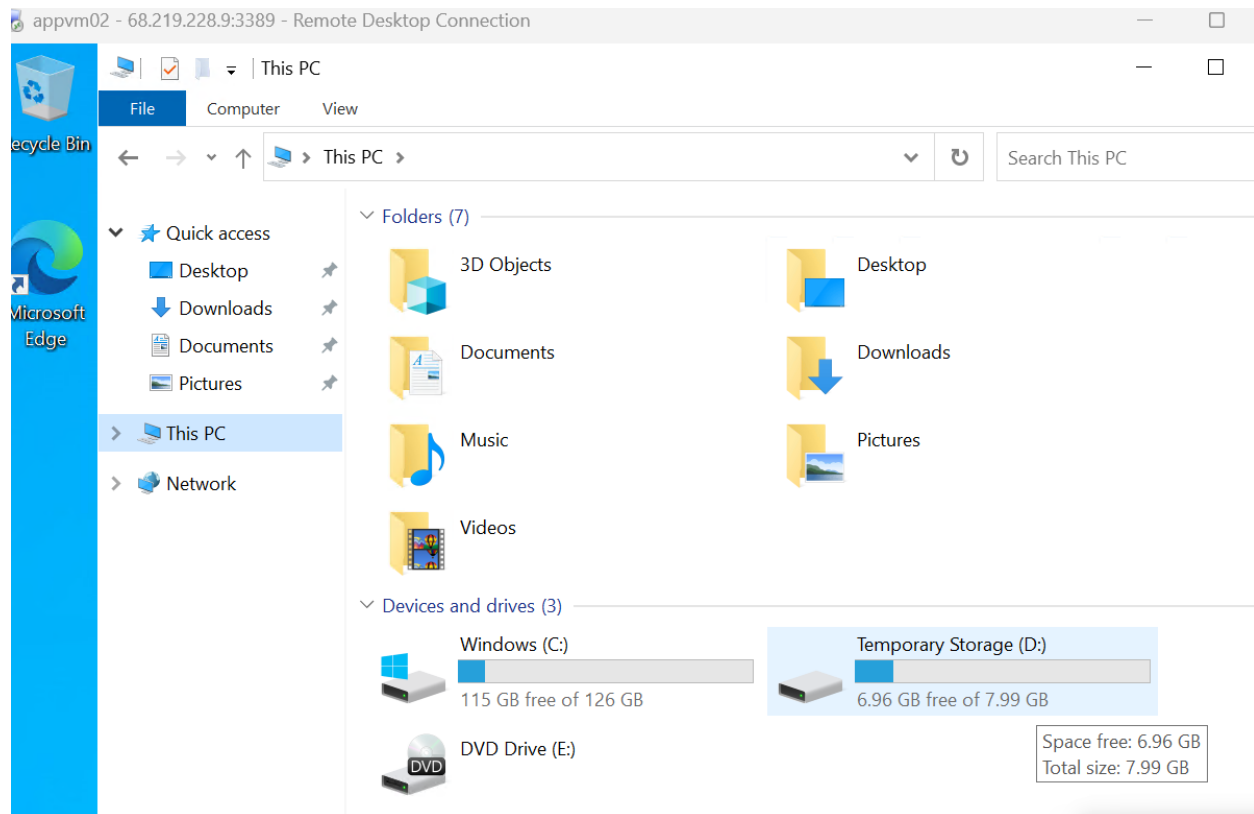
Create

< Previous

Next >

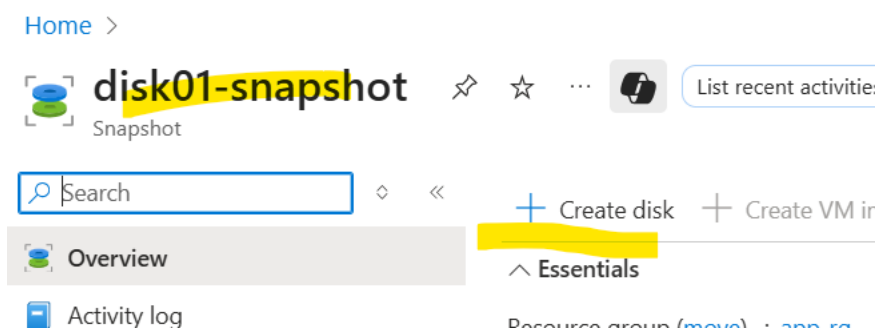
[Download a template for automation](#)

Login to 2vm



Goto snapshot disk

Goto snapshot disk and click on create disk



[Home](#) > [disk01-snapshot](#) >

Create a managed disk ...

✓ Validation passed

Basics Encryption Networking Advanced Tags Review + create

Basics

Subscription	Azure subscription 1
Resource group	app-rg
Region	North Europe
Disk name	datadisk02
Availability zone	1
Source type	Snapshot
Source subscription	Azure subscription 1
Source snapshot	disk01-snapshot
OS type	None (data disk)

Now goto appvm02 and attach disk02 as existing disk

appvm02 | Disks ☆ ...
Virtual machine

Search Refresh Additional settings Feedback Troubleshoot

Size supports up to 25 TBps. The total for disks attached to virtual machine 'appvm02' is 123 TBps. You can change the virtual machine size to support additional disks by throughput. [Learn more](#)

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	
appvm02_OsDisk_1_643fdd4	Premium SSD LRS	127	500	100	SSE with PMK	H

Data disks

Filter by name

Showing 1 of 1 attached data disks

+ Create and attach a new disk **Attach existing disks**

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	
0	datadisk02	Premium SSD LRS	8	120	25	S

Apply **Discard changes**

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