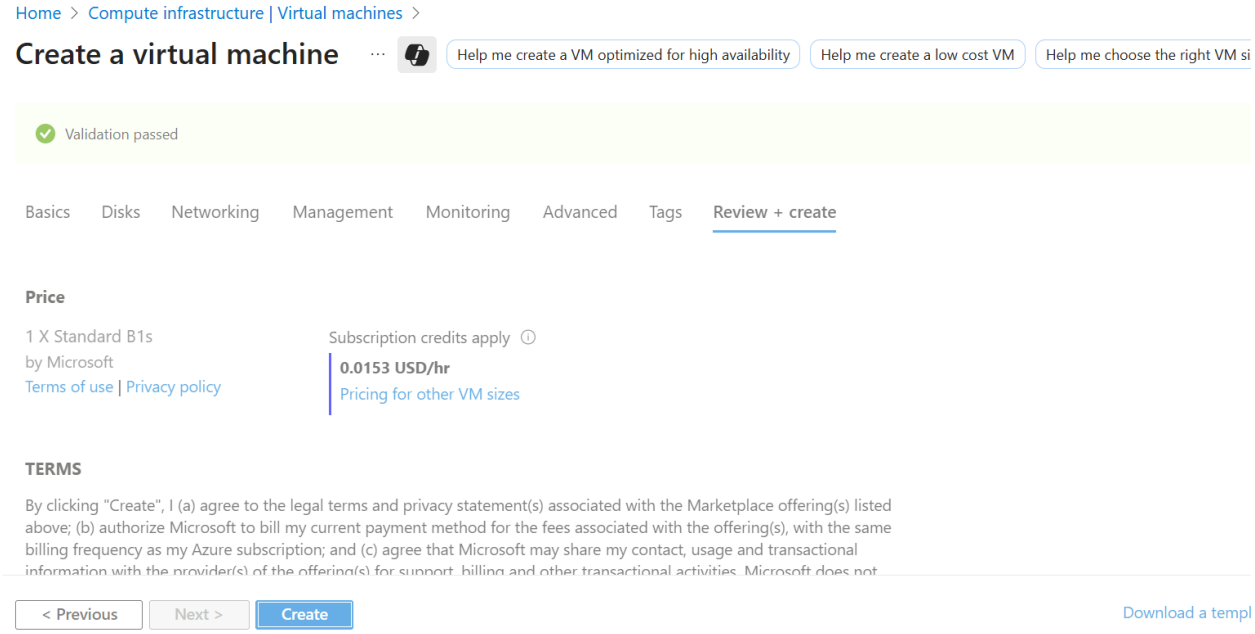
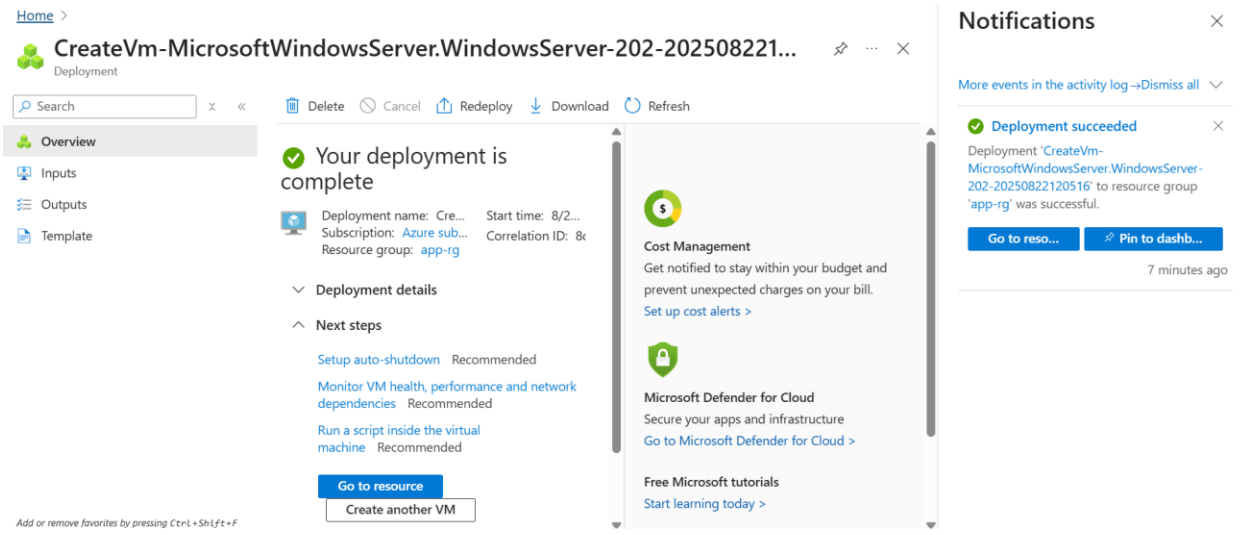
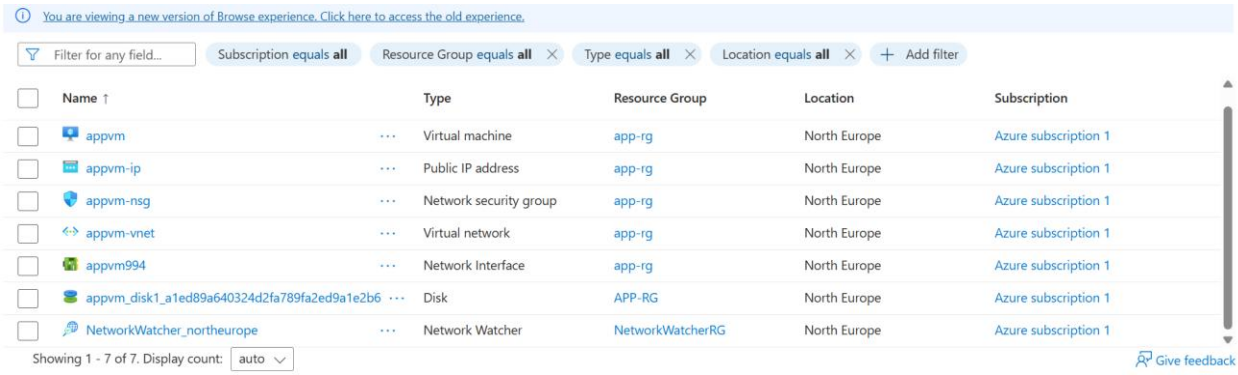
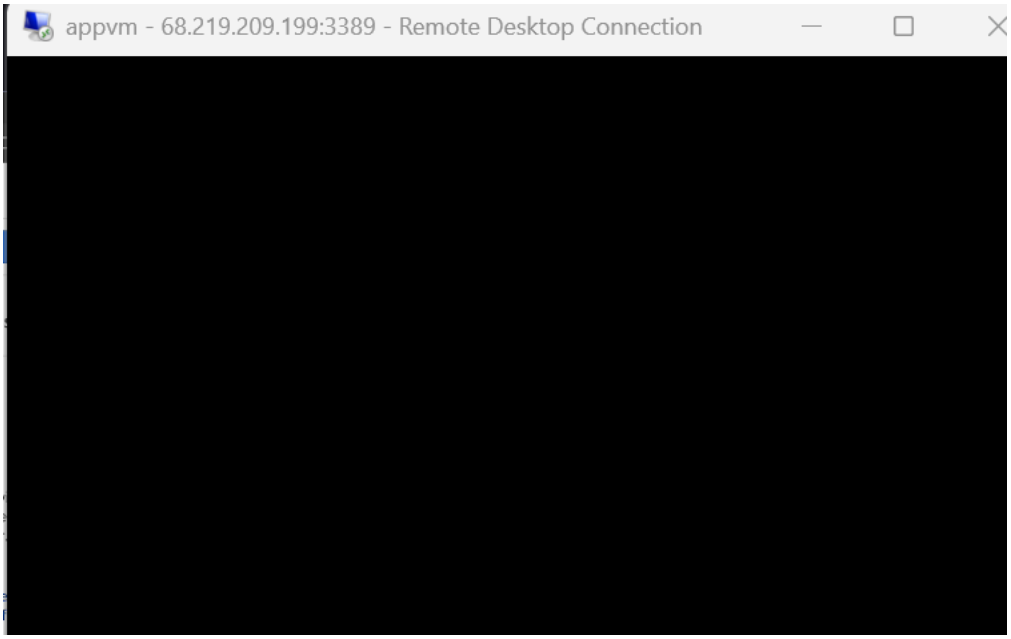
Create vm

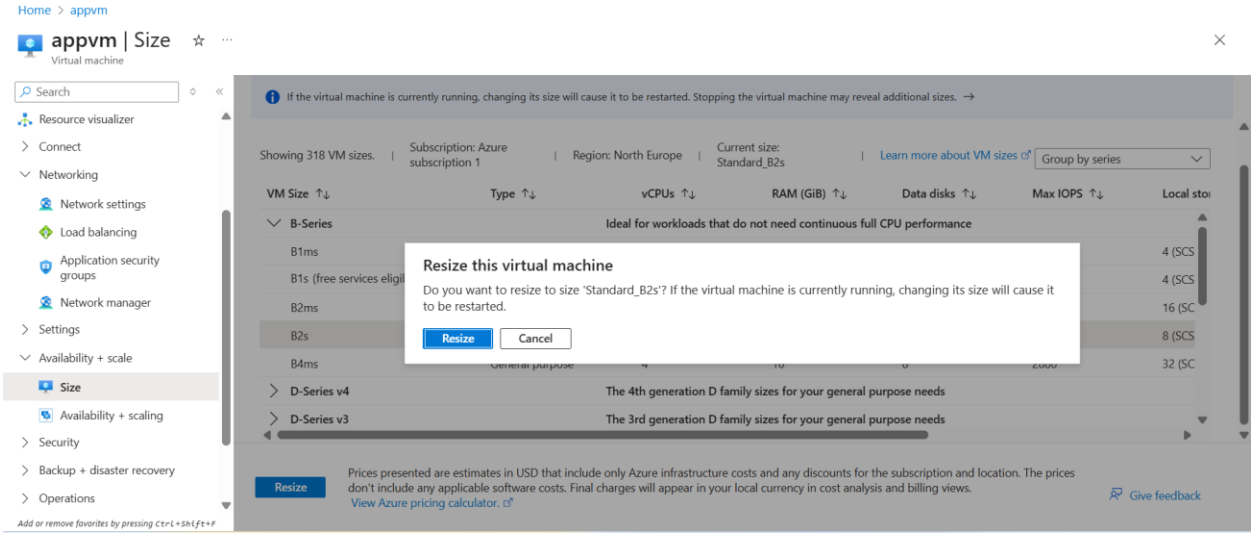

Home > Compute infrastructure | Virtual machines >
Create a virtual machine
Help me create a VM optimized for high availability
Help me create a low cost VM
Help me choose the right VM si
Validation passed
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Price
1 X Standard B1s
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
0.0153 USD/hr
Pricing for other VM sizes
TERMS
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional
< Previous
Next >
Create
Download a templ

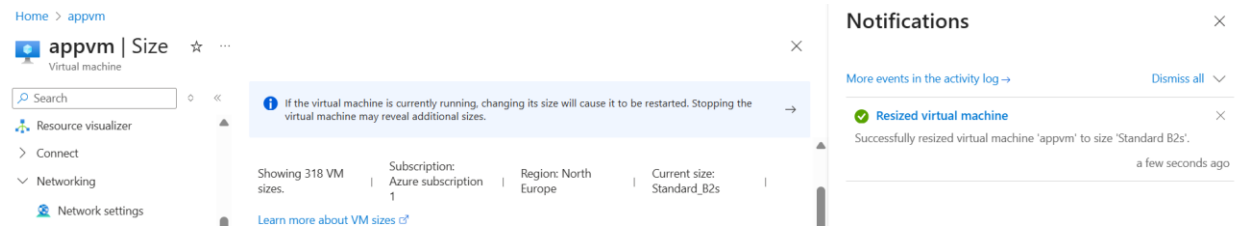

Home
CreateVm-MicrosoftWindowsServer.WindowsServer-202-202508221...
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: Cre...
Start time: 8/2...
Subscription: Azure sub...
Correlation ID: 8
Resource group: app-rg
Deployment 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
Add or remove favorites by pressing Ctrl+Shift+F
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 >
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


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
appvm
Virtual machine
app-rg
North Europe
Azure subscription 1
appvm-ip
Public IP address
app-rg
North Europe
Azure subscription 1
appvm-nsg
Network security group
app-rg
North Europe
Azure subscription 1
appvm-vnet
Virtual network
app-rg
North Europe
Azure subscription 1
appvm994
Network Interface
app-rg
North Europe
Azure subscription 1
appvm_disk1_a1ed89a640324d2fa789fa2ed9a1e2b6
Disk
APP-RG
North Europe
Azure subscription 1
NetworkWatcher_northeurope
Network Watcher
NetworkWatcherRG
North Europe
Azure subscription 1
Showing 1 - 7 of 7. Display count: auto
Give feedback

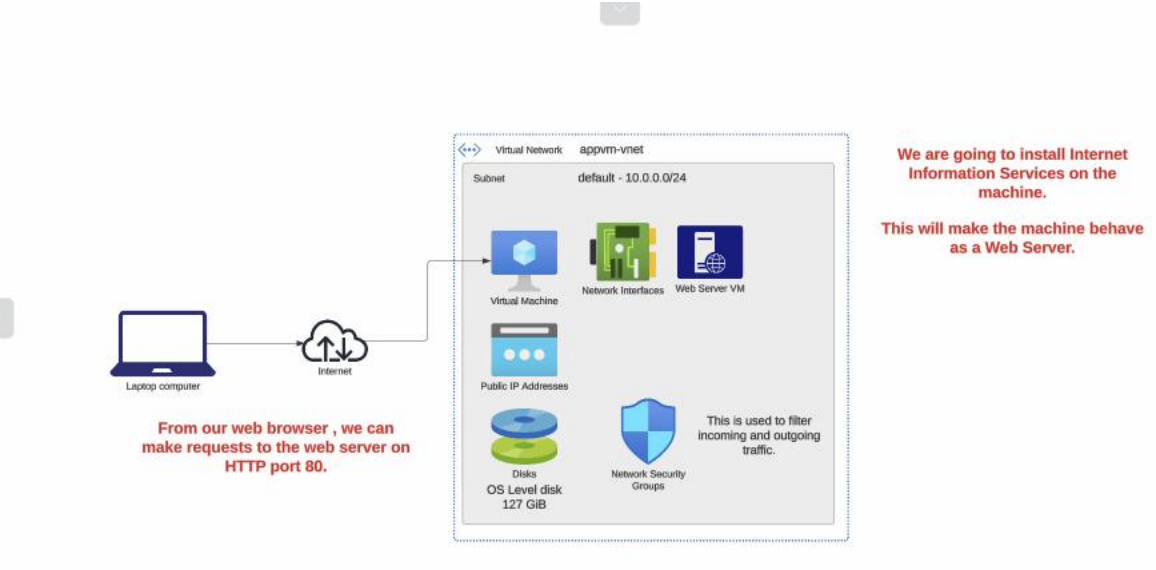

appvm - 68.219.209.199:3389 - Remote Desktop Connection

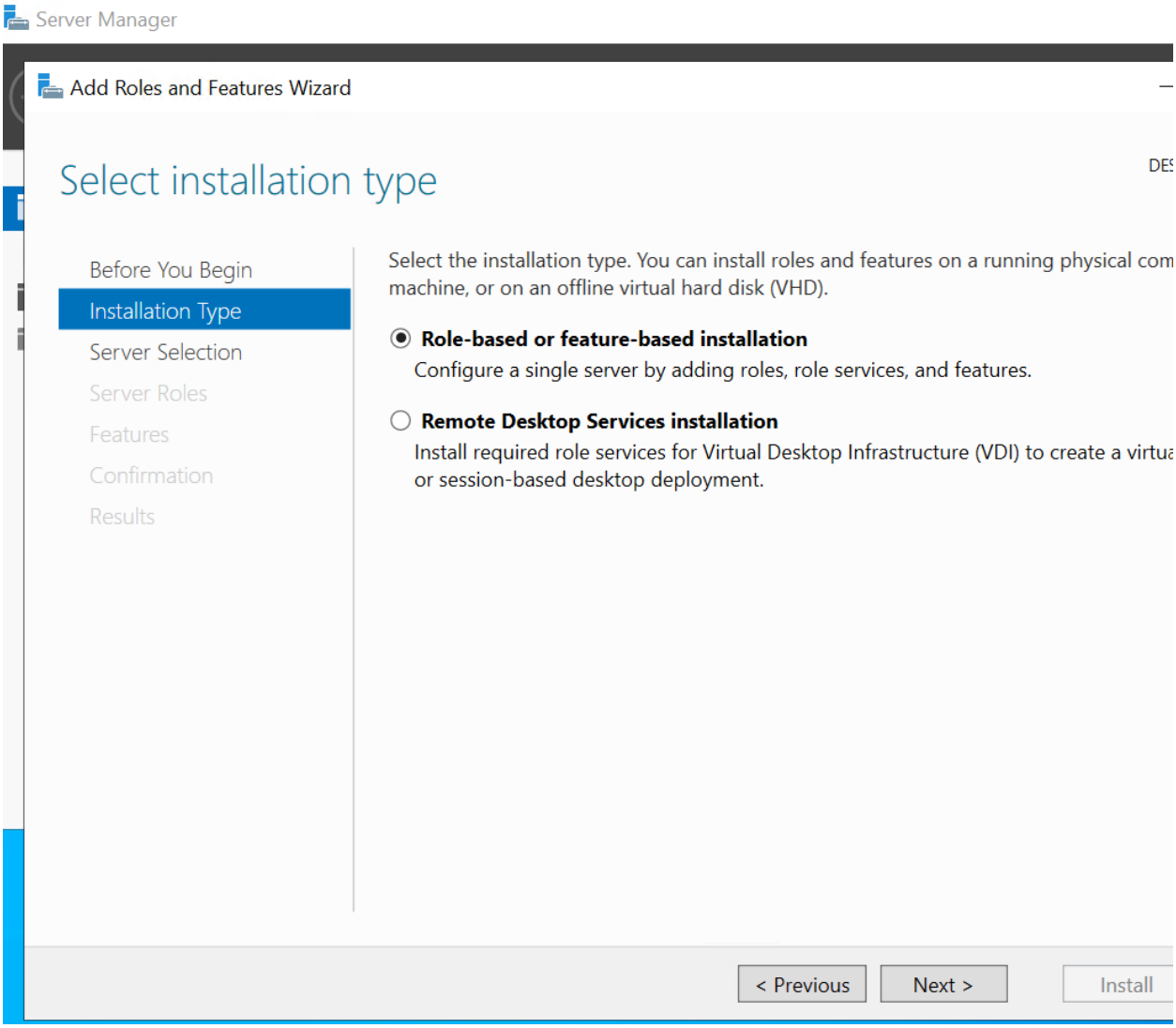
Resize vm

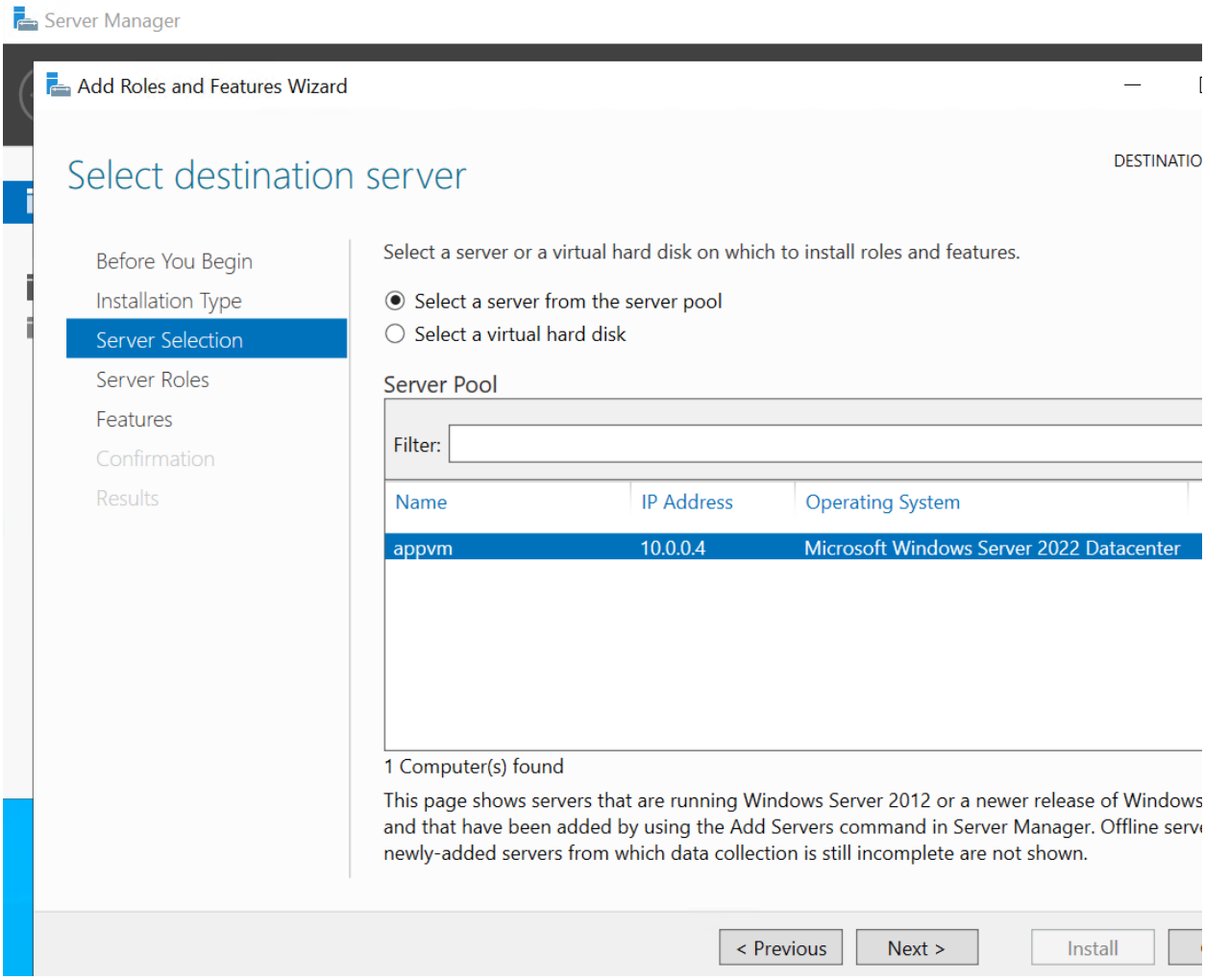

Home > appvm
appvm | Size
Virtual machine
Search
Resource visualizer
Connect
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Availability + scale
Size
Availability + scaling
Security
Backup + disaster recovery
Operations
Add or remove favorites by pressing Ctrl+Shift+F
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 sto
B-Series
Ideal for workloads that do not need continuous full CPU performance
B1ms
B1s (free services eligi
B2ms
B2s
B4ms
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 this virtual machine
Do you want to resize to size 'Standard_B2s'? If the virtual machine is currently running, changing its size will cause it to be restarted.
Resize
Cancel
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.
Give feedback


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

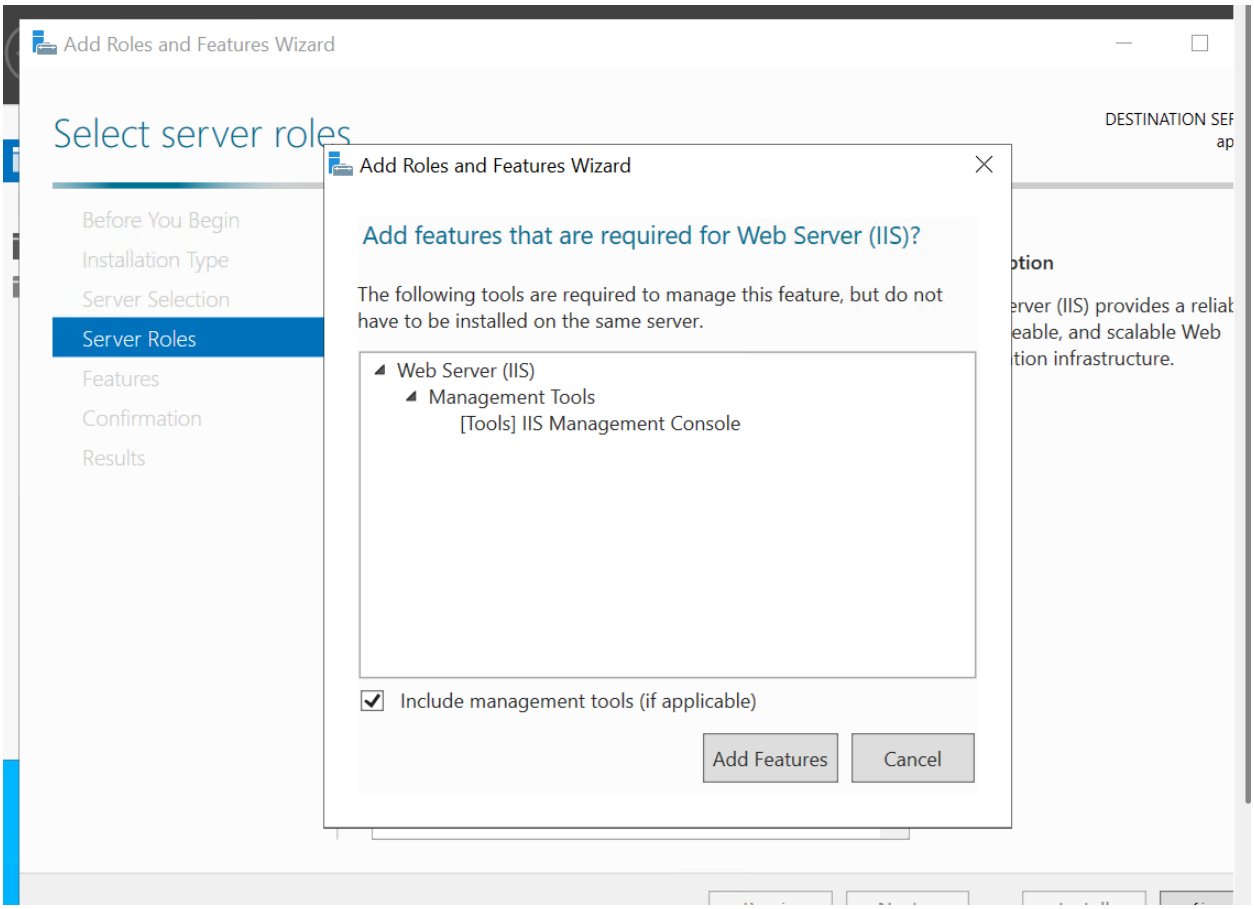
Install internet information on machin



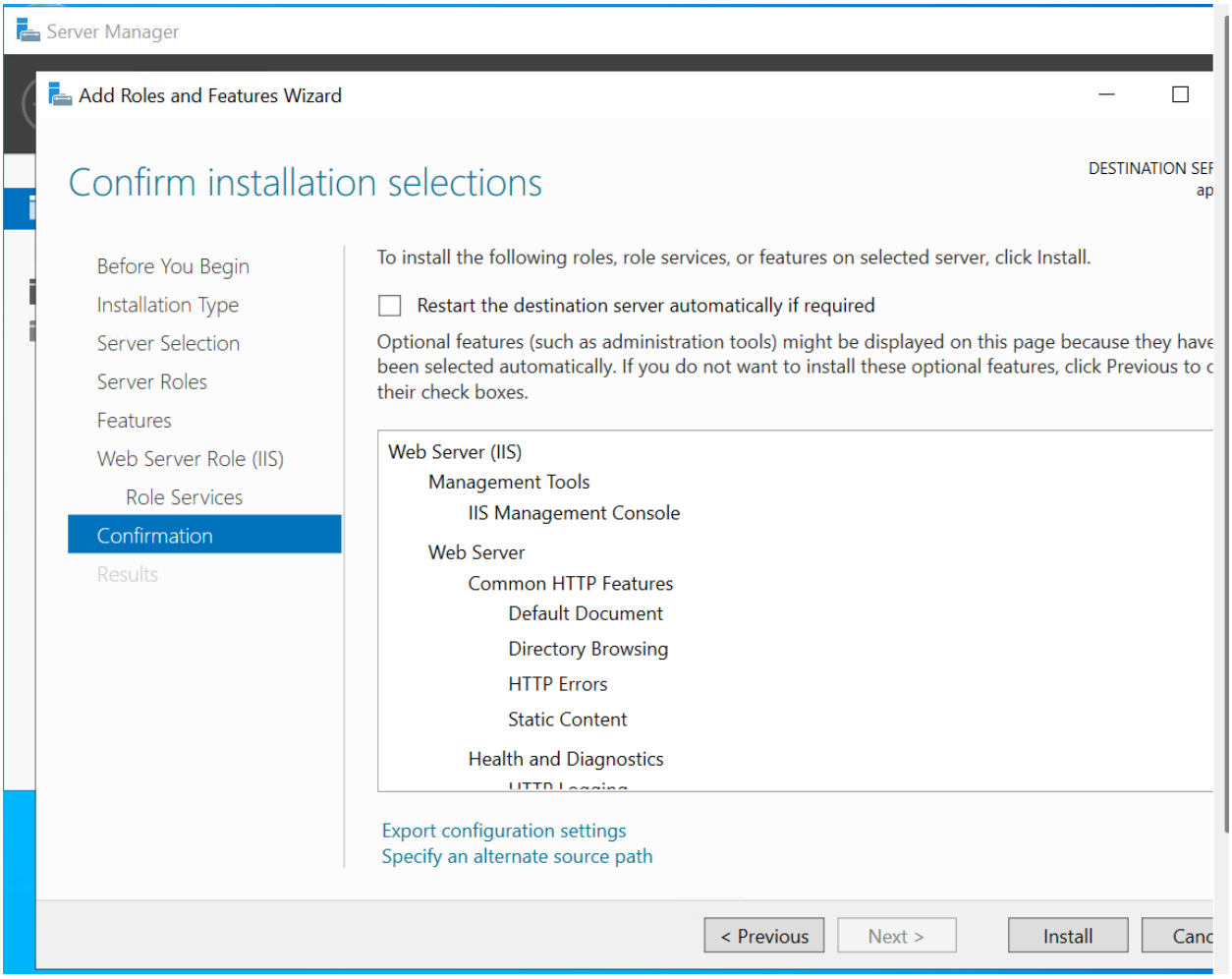

Server Manager
Add Roles and Features Wizard
Select installation type
DES
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical com
machine, or on an offline virtual hard disk (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 virtua
or session-based desktop deployment.
< Previous
Next >
Install

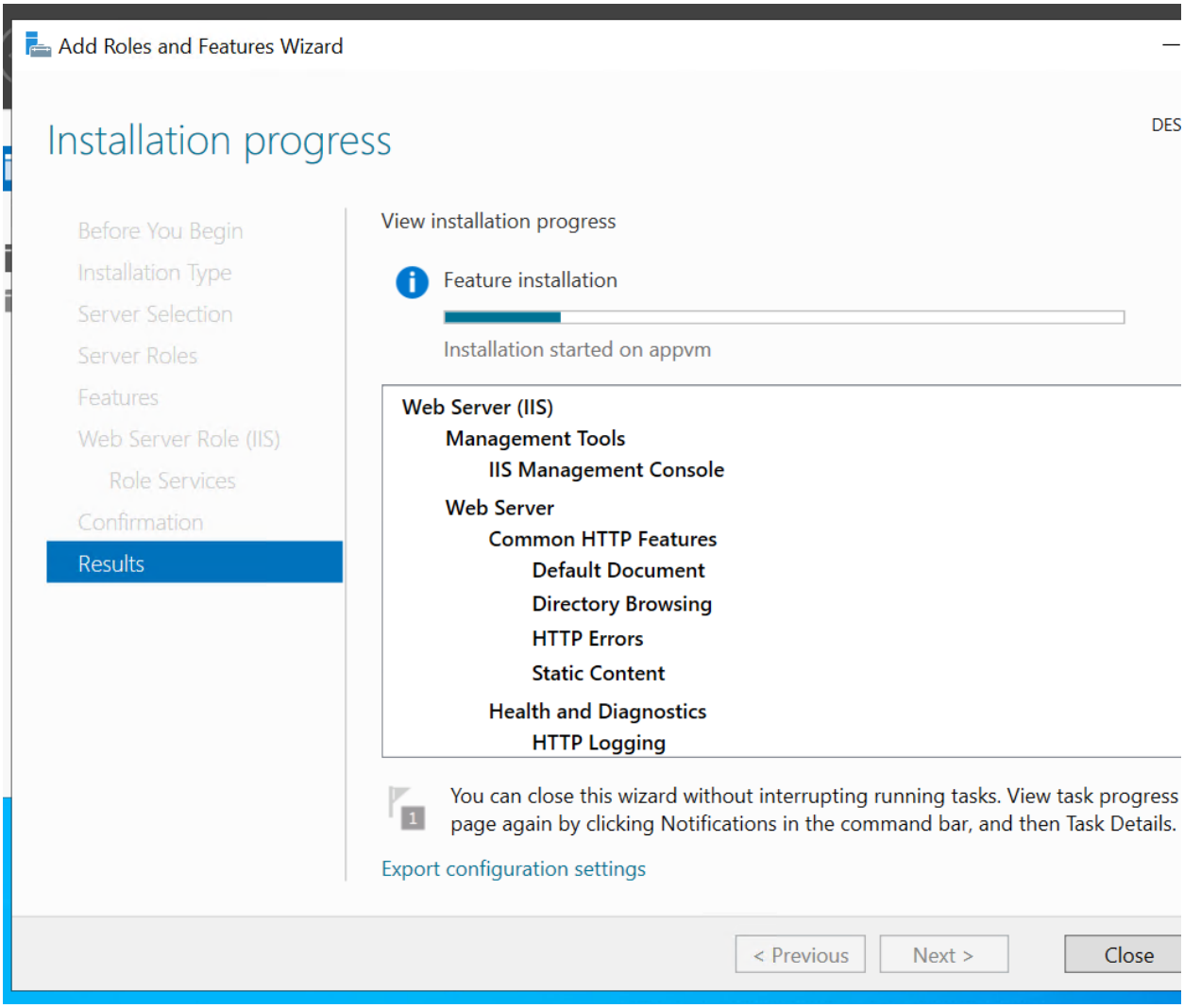


Click on webserver and add fetuare click next



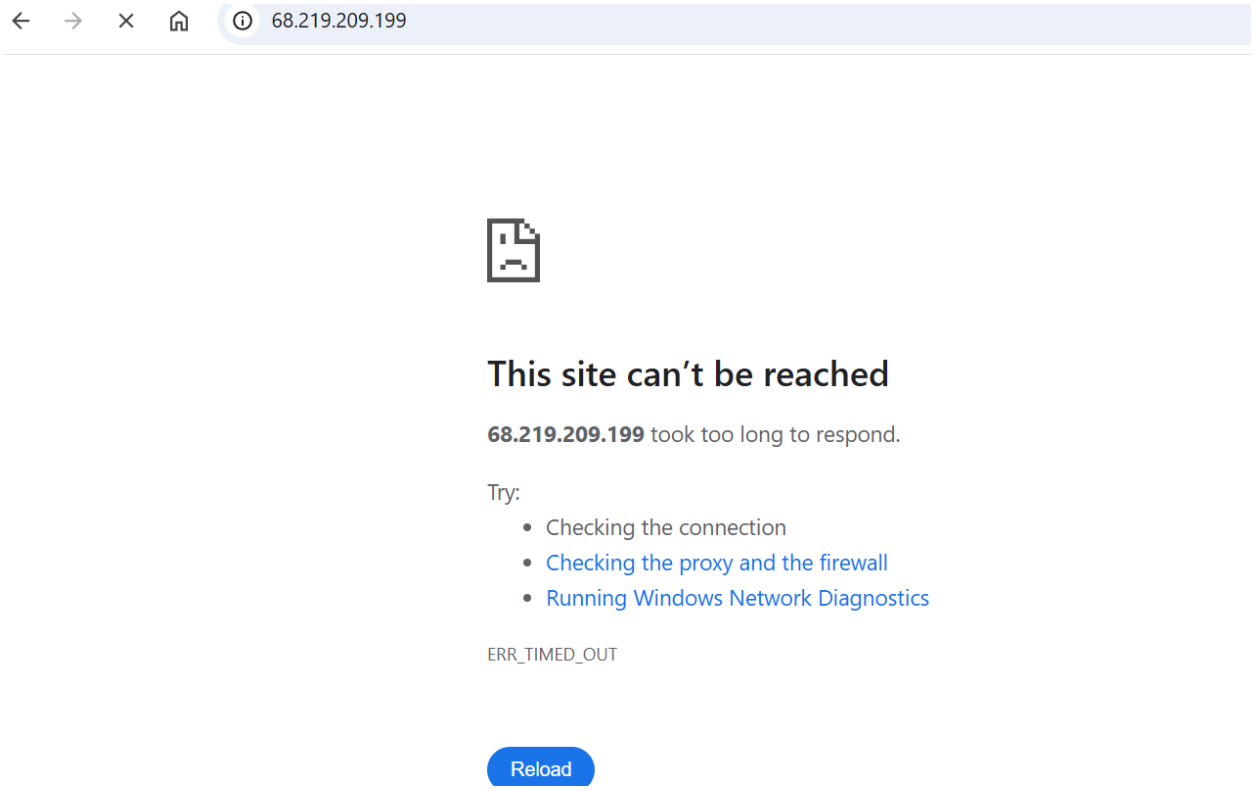
Click next and next and install


Server Manager
Add Roles and Features Wizard
Confirm installation selections
DESTINATION SEF
ap
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Web Server Role (IIS)
Role Services
Confirmation
Results
To install the following roles, role services, or features on selected server, click Install.
Restart the destination server automatically if required
Optional features (such as administration tools) might be displayed on this page because they have
been selected automatically. If you do not want to install these optional features, click Previous to c
their check boxes.
Web Server (IIS)
Management Tools
IIS Management Console
Web Server
Common HTTP Features
Default Document
Directory Browsing
HTTP Errors
Static Content
Health and Diagnostics
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Canc



Close

Site cant reached



Add network inbound rule on machin

Add inbound security rule

appvm-nsg

Source

Any

Source port ranges *

*

Destination

Any

Service

HTTP

Destination port ranges

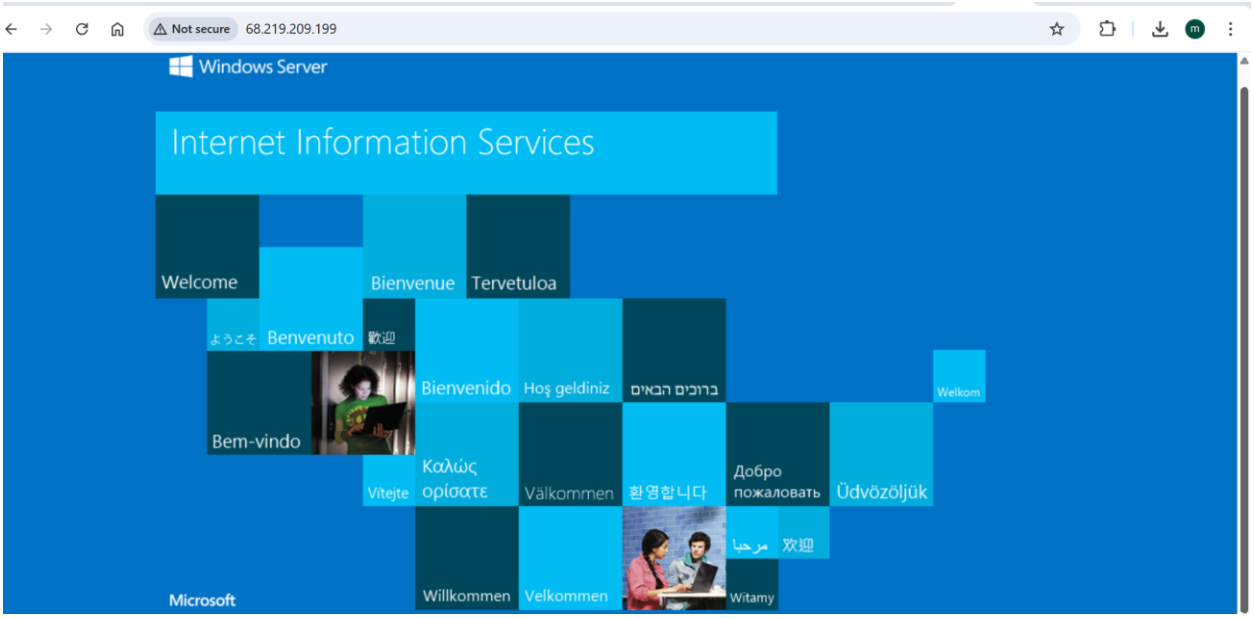
80

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

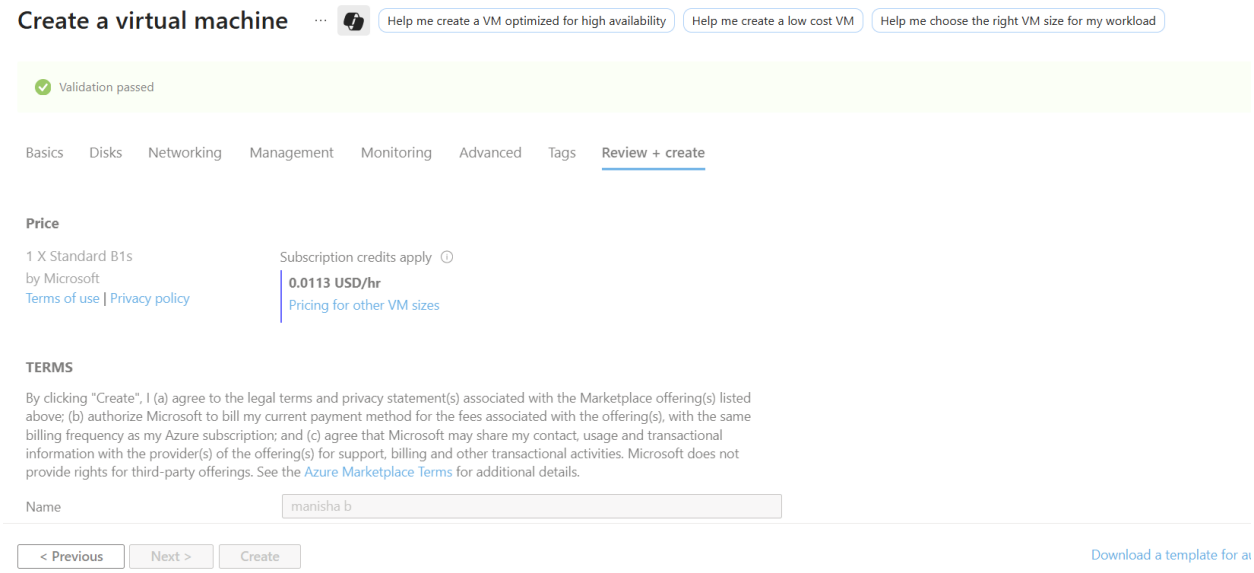
When host a resourse such as an azure virtual machine, it needs to be hosted on some physical infrastructure is an data center

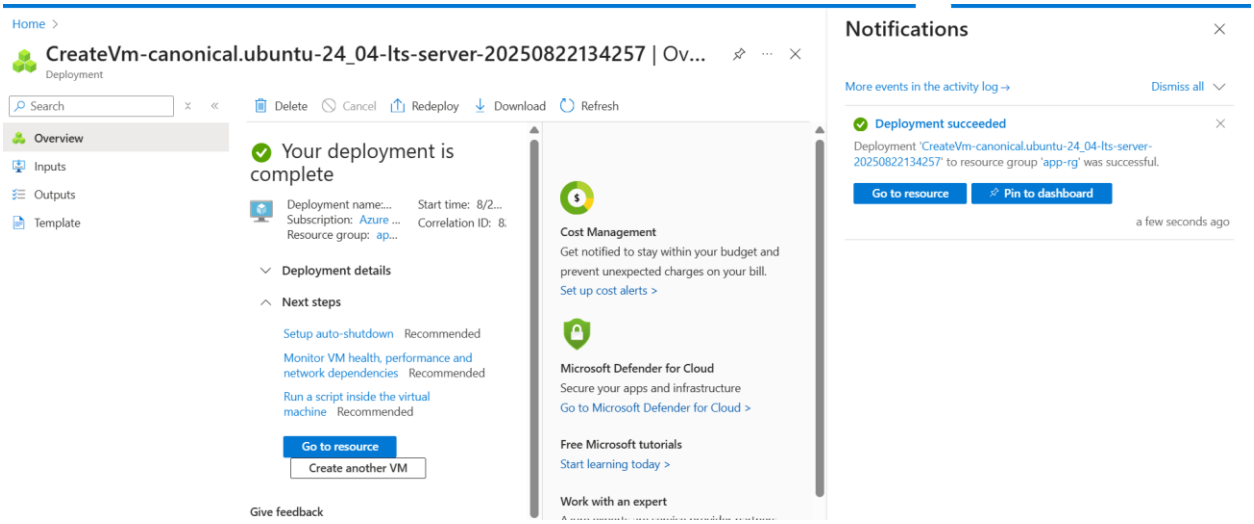
These resources are made available to you via internet and azure portal is web interface that allows you to interact with the azure resources

Virual sizes

Virtual Machine series | Microsoft Azure

create Linux vm

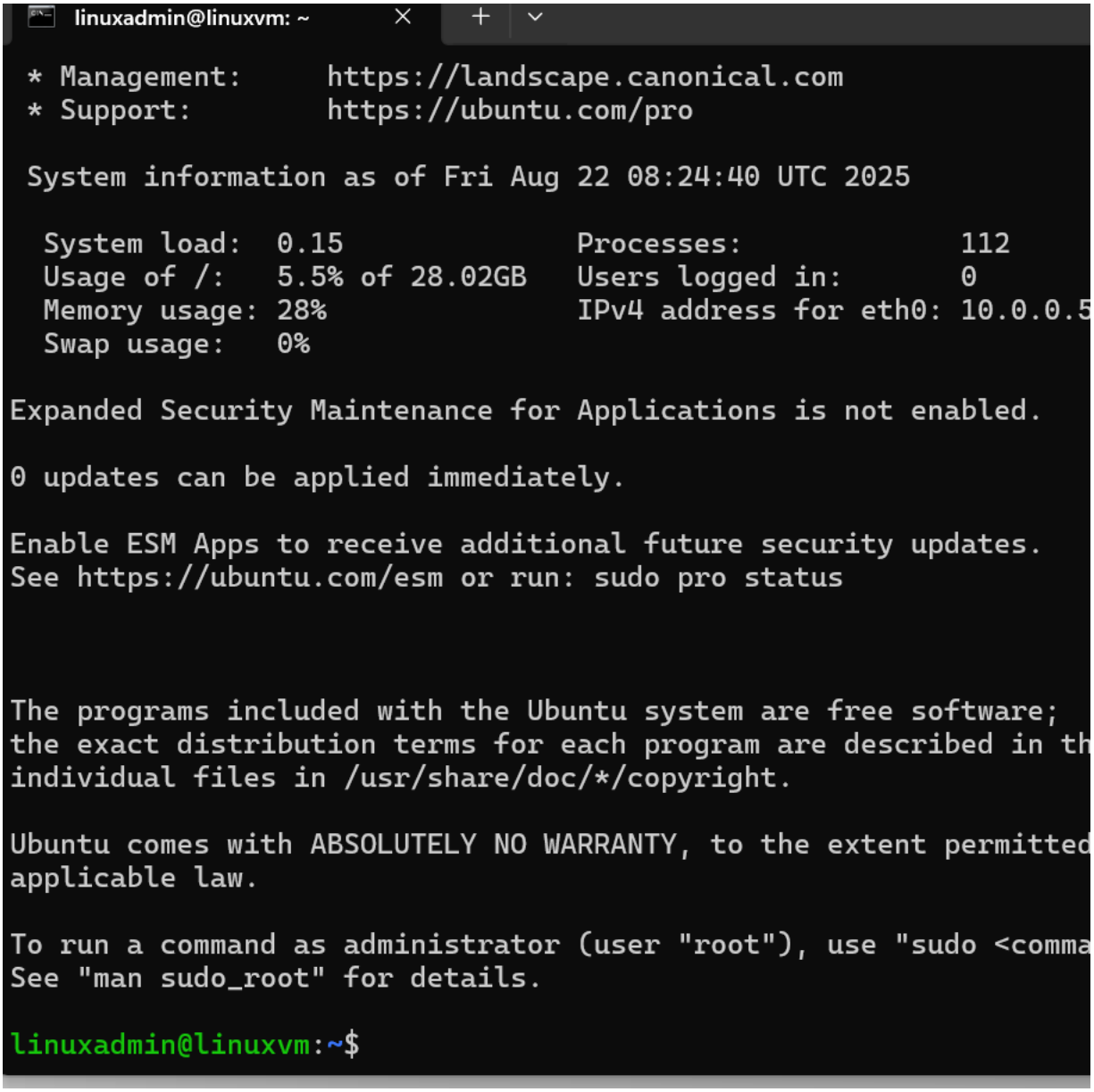




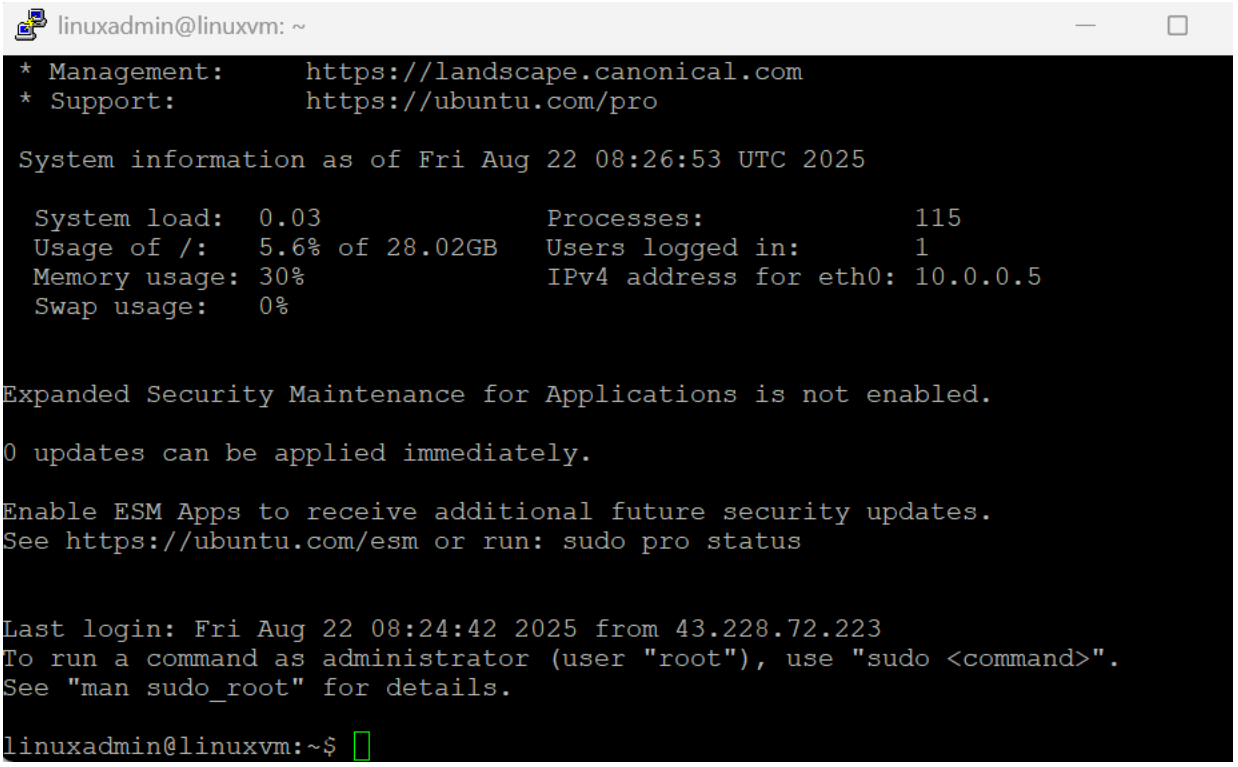
Connect to linux

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
Usage of /: 5.5% of 28.02GB
Memory usage: 28%
Swap usage: 0%
Processes: 112
Users logged in: 0
IPv4 address for eth0: 10.0.0.5
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 th
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted
applicable law.
To run a command as administrator (user "root"), use "sudo <comma
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
Usage of /: 5.6% of 28.02GB
Memory usage: 30%
Swap usage: 0%
Processes: 115
Users logged in: 1
IPv4 address for eth0: 10.0.0.5
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.
linuxadmin@linuxvm:~$

3>

Deploy webserver on linux vm

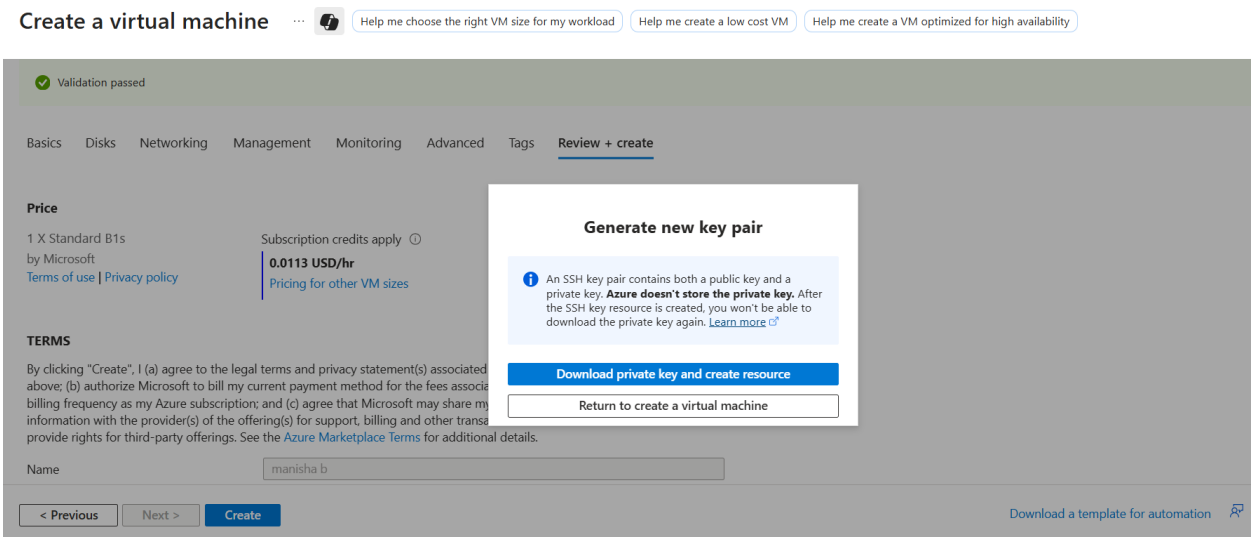
->Sudo apt update

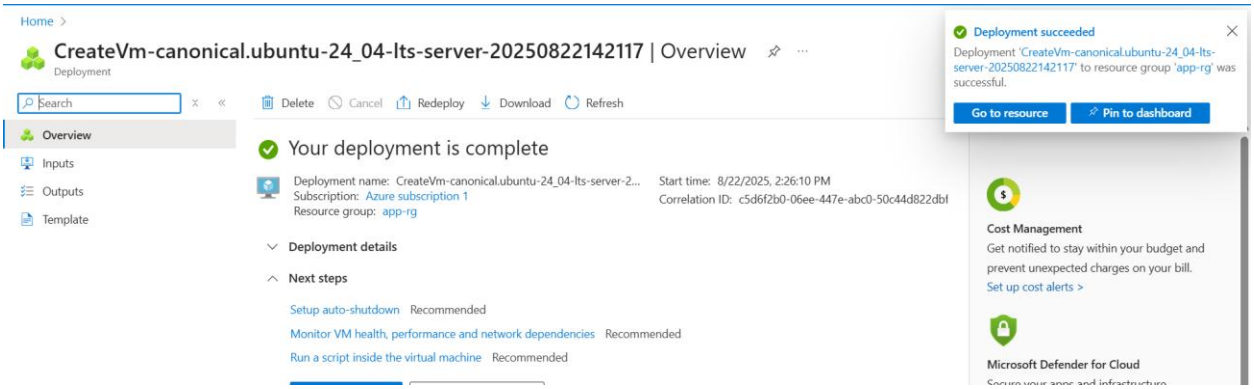
Sudo apt install nginx

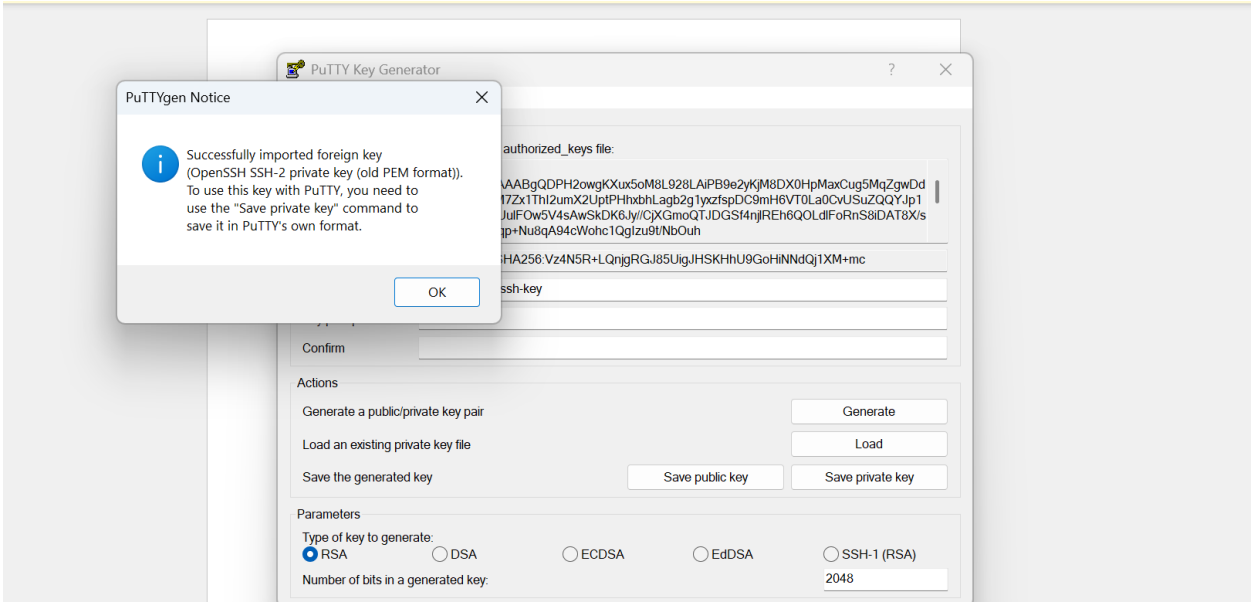
Add inbound rule Http – 80

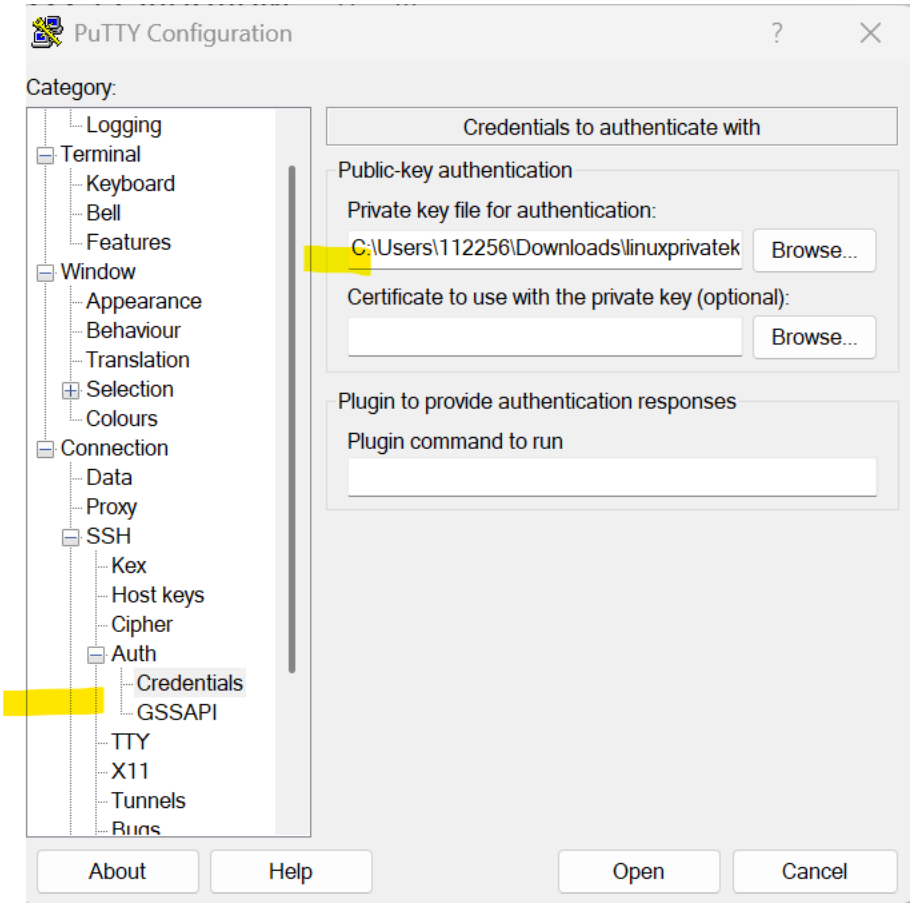
Got to public ip -

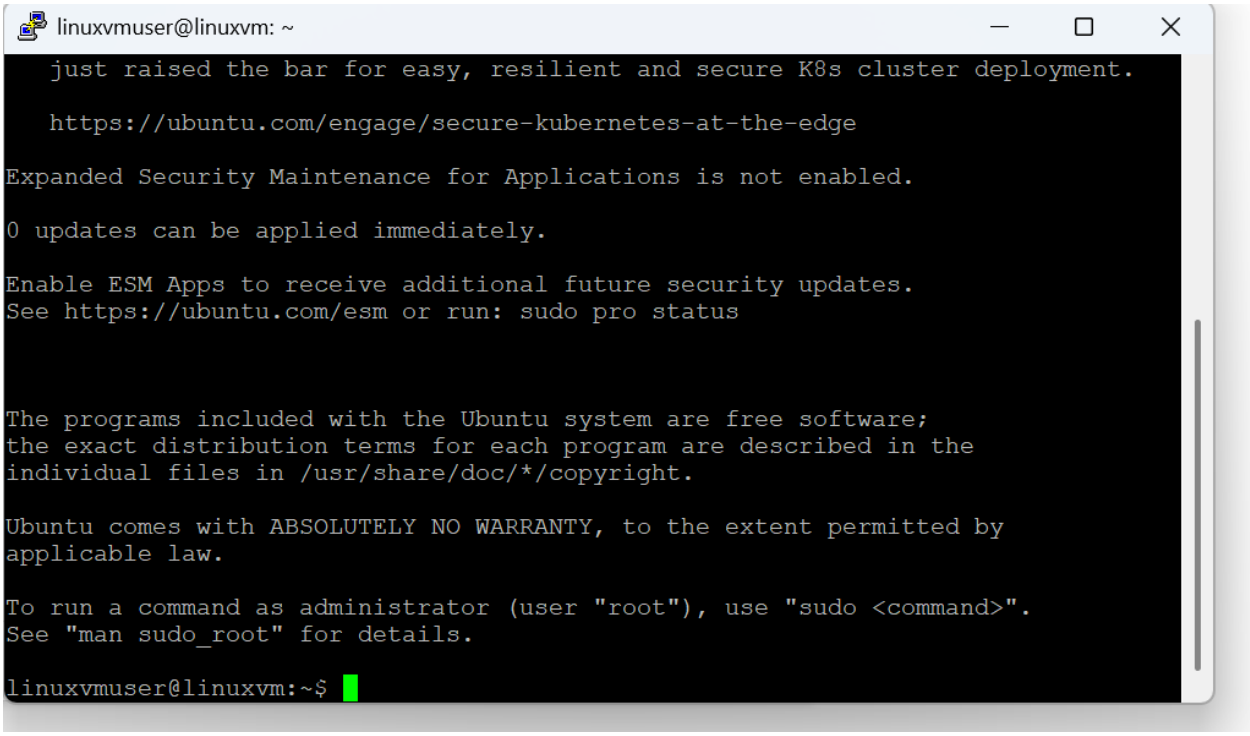
Lab - Deploying a Linux machine - SSH keys




Home
CreateVm-canonical.ubuntu-24_04-lts-server-20250822142117 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
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
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud


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:
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


PuTTY Configuration
Category:
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Kex
Host keys
Cipher
Auth
Credentials
GSSAPI
TTY
X11
Tunnels
Bugs
Credentials to authenticate with
Public-key authentication
Private key file for authentication:
C:\Users\112256\Downloads\linuxprivatek
Browse...
Certificate to use with the private key (optional):
Browse...
Plugin to provide authentication responses
Plugin command to run
About
Help
Open
Cancel



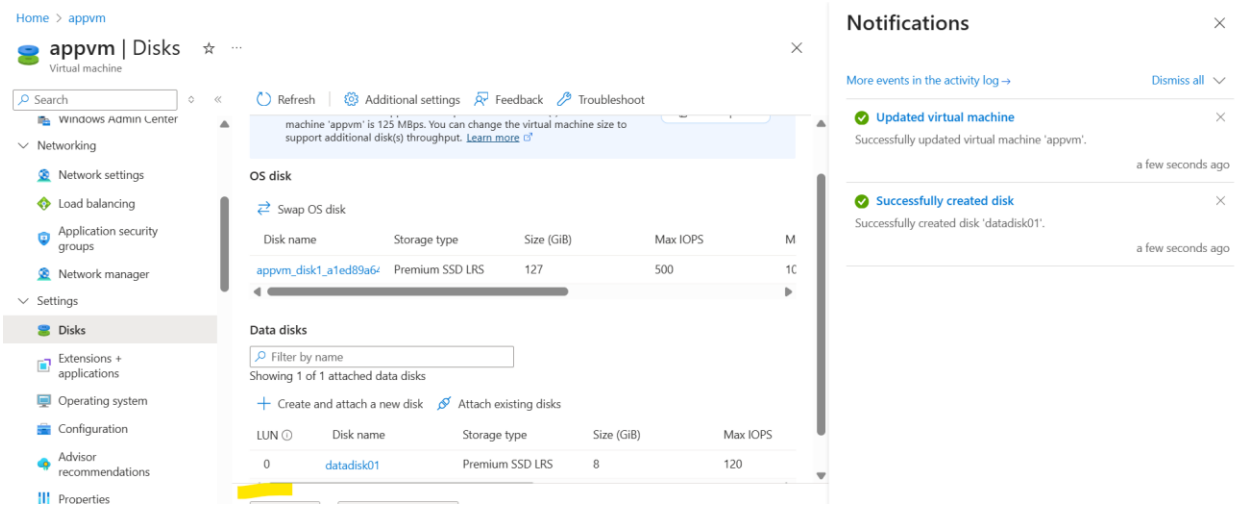
Azure disk –

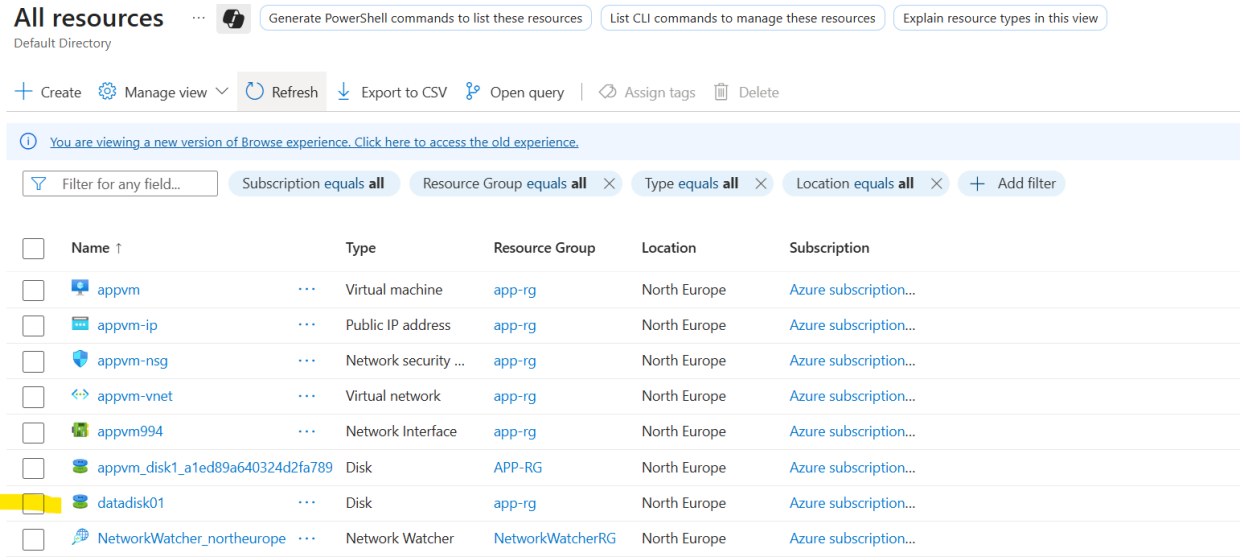
Storage volume managed by azure

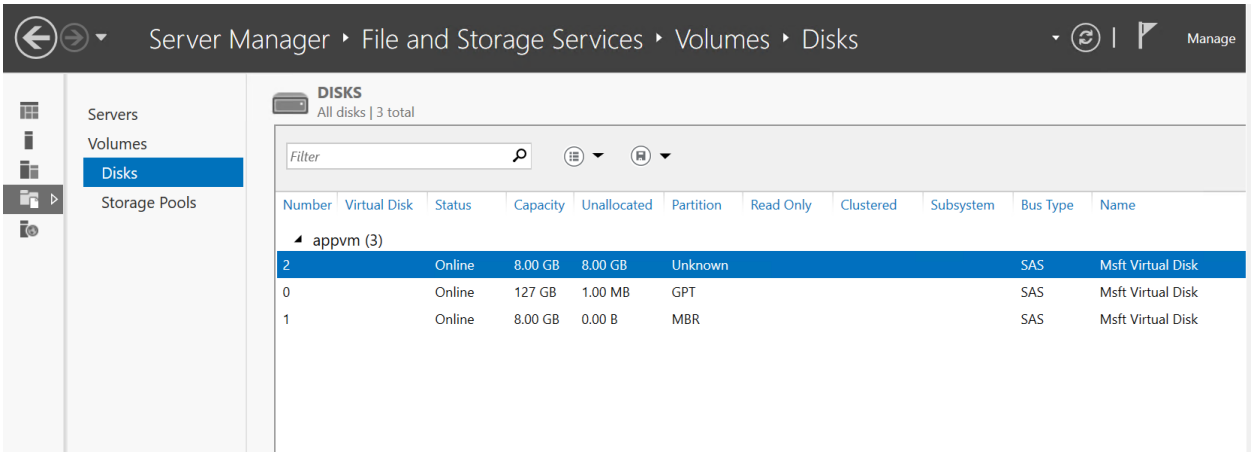
Stard hdd – low cost, prformace issue

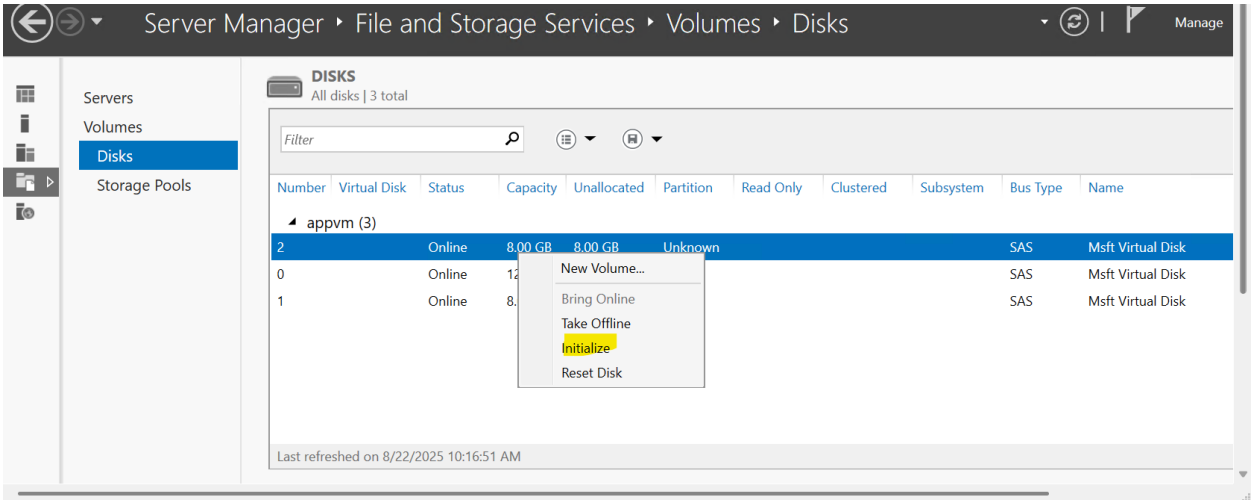
LUN -Logical unit number of the data disk. This value is used to identify data disks within the VM and therefore must be unique for each data disk attached to a VM.

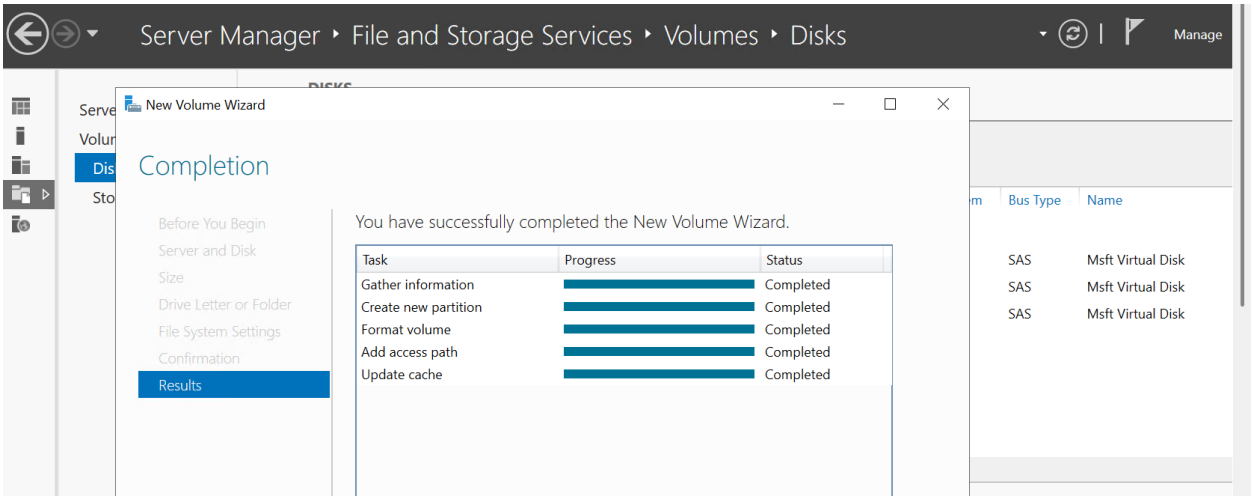
Lab - Adding data disks


Home > appvm
appvm | Disks
Virtual machine
Search
Refresh
Additional settings
Feedback
Troubleshoot
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Disks
Extensions + applications
Operating system
Configuration
Advisor recommendations
Properties
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
appvm_disk1_a1ed89a64
Premium SSD LRS
127
500
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
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

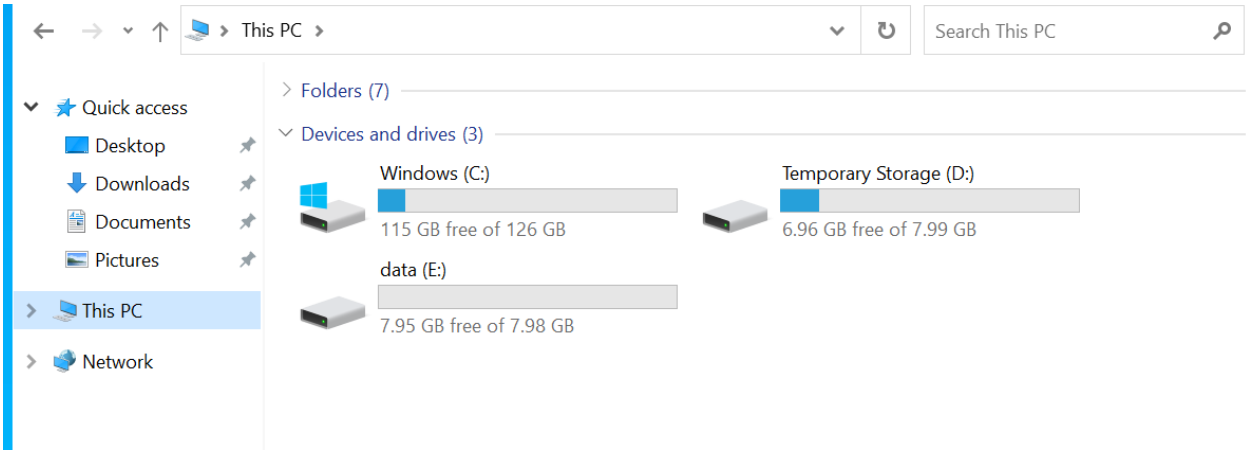

All resources
Default Directory
Generate PowerShell commands to list these resources
List CLI commands to manage these resources
Explain resource types in this view
Create
Manage view
Refresh
Export to CSV
Open query
Assign tags
Delete
You are viewing a new version of Browse experience. Click here to 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
appvm
Virtual machine
app-rg
North Europe
Azure subscription...
appvm-ip
Public IP address
app-rg
North Europe
Azure subscription...
appvm-nsg
Network security ...
app-rg
North Europe
Azure subscription...
appvm-vnet
Virtual network
app-rg
North Europe
Azure subscription...
appvm994
Network Interface
app-rg
North Europe
Azure subscription...
appvm_disk1_a1ed89a640324d2fa789
Disk
APP-RG
North Europe
Azure subscription...
datadisk01
Disk
app-rg
North Europe
Azure subscription...
NetworkWatcher_northeurope
Network Watcher
NetworkWatcherRG
North Europe
Azure subscription...


Server Manager ‣ File and Storage Services ‣ Volumes ‣ Disks
Manage
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
Manage
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 SAS Msft Virtual Disk
1 Online SAS Msft Virtual Disk
New Volume...
Bring Online
Take Offline
Initialize
Reset Disk
Last refreshed on 8/22/2025 10:16:51 AM

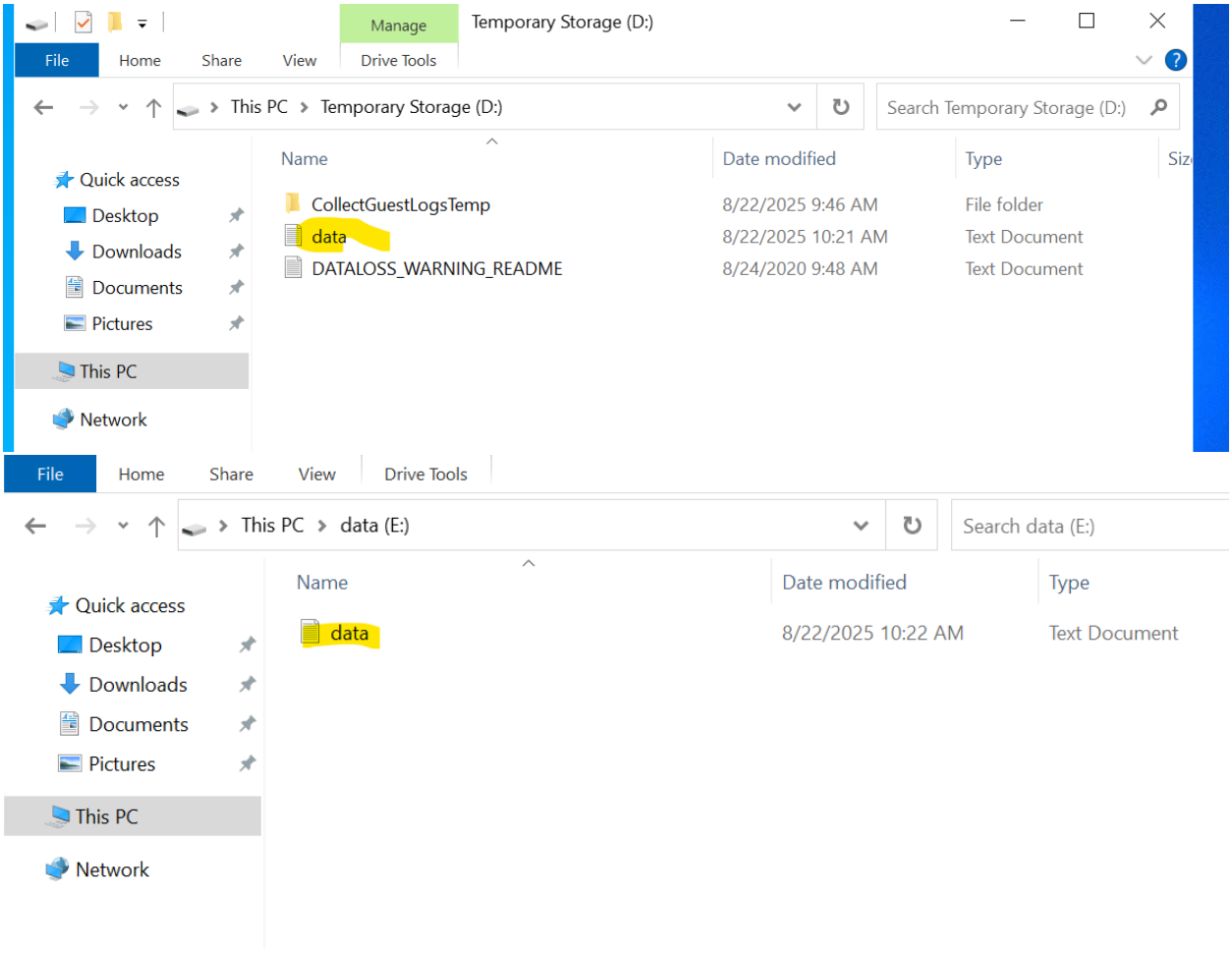

Server Manager ‣ File and Storage Services ‣ Volumes ‣ Disks
Manage
New Volume Wizard
Completion
Before You Begin
Server and Disk
Size
Drive Letter or Folder
File System Settings
Confirmation
Results
You have successfully completed the New Volume Wizard.
Task Progress Status
Gather information Completed
Create new partition Completed
Format volume Completed
Add access path Completed
Update cache Completed
Bus Type Name
SAS Msft Virtual Disk
SAS Msft Virtual Disk
SAS Msft Virtual Disk

Added disk

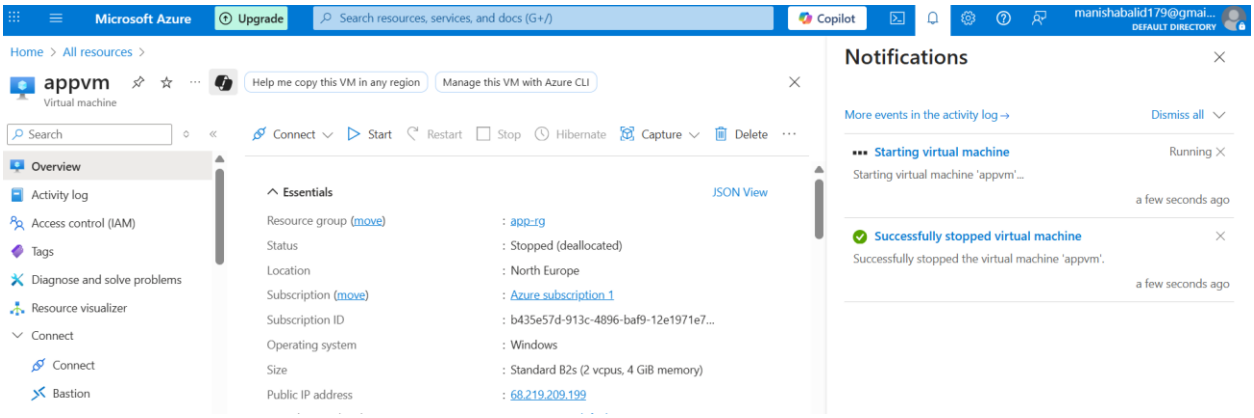


What happened we stop machin

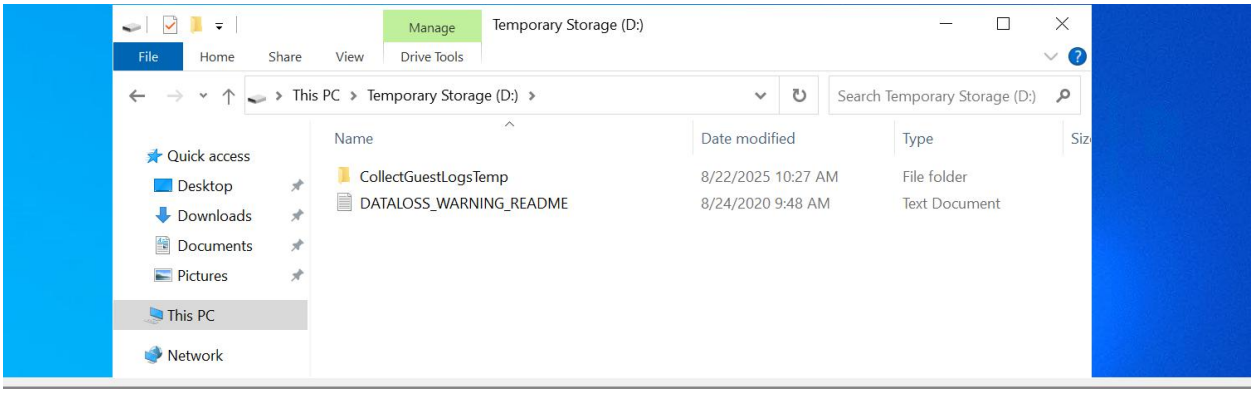
1. Created notepad file save in D drive and E drive on machin

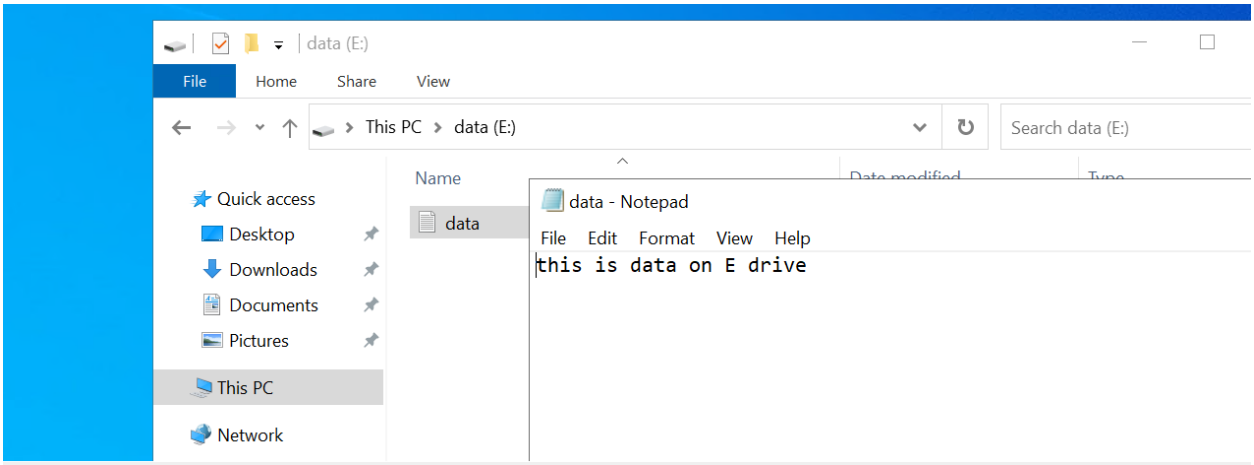


stop/deallocate vm and start vm again



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



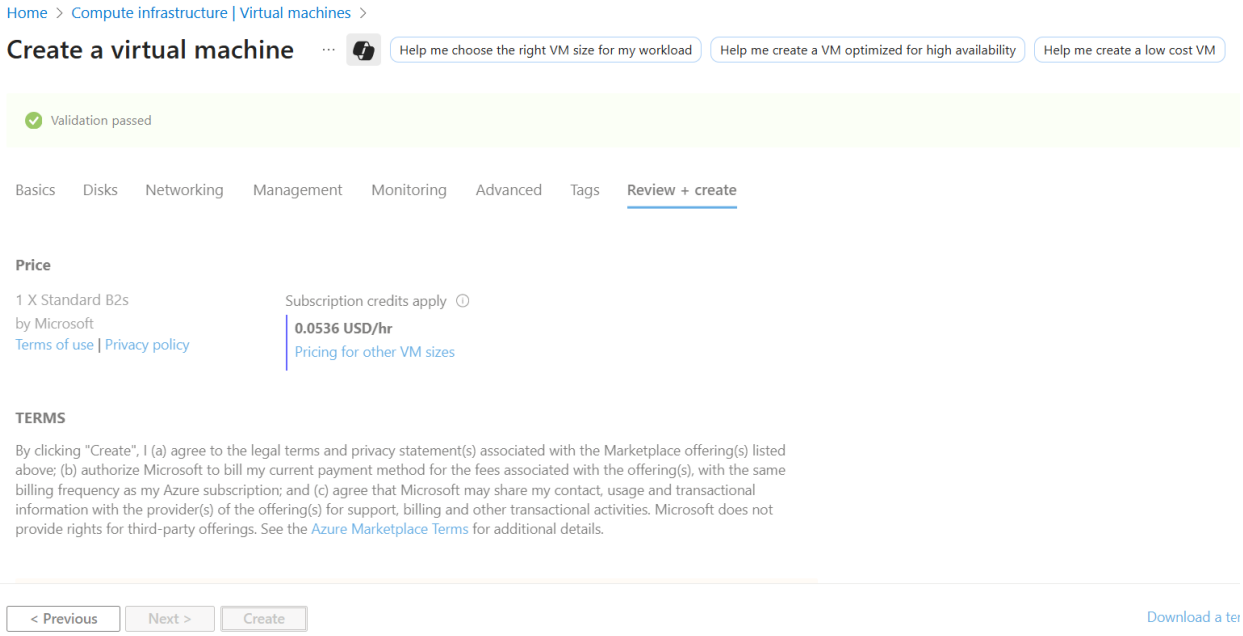


Lab - Data Disks Snapshot

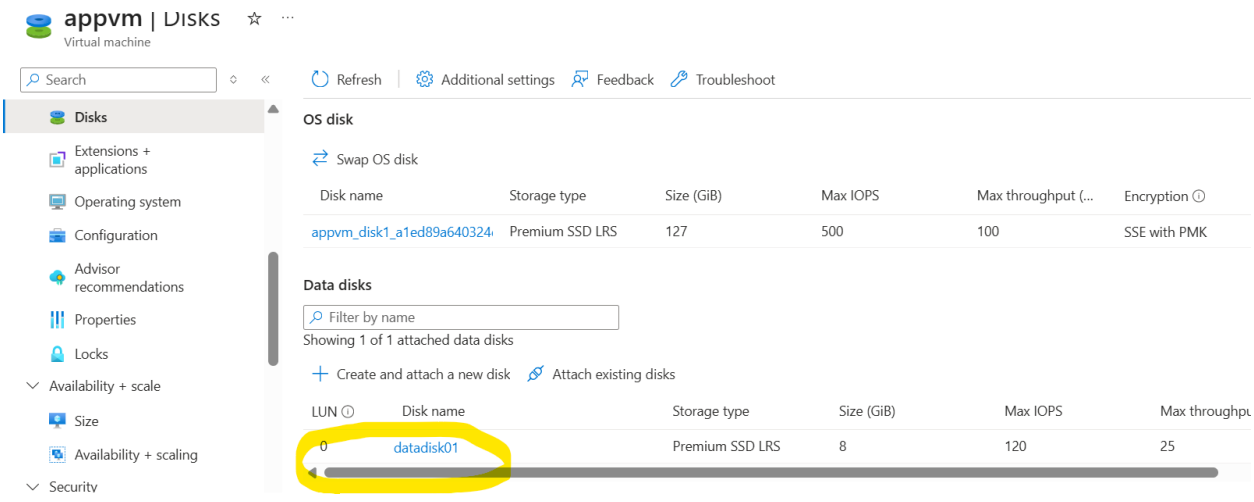
Read data copy of dick

1> Create 2 vm

Appvm02



Create snapshot data disk



Click on disk and click on create snapshot

Home > Compute infrastructure | Virtual machines > appvm | Disks > datadisk01 >

Create snapshot ...

Validation passed

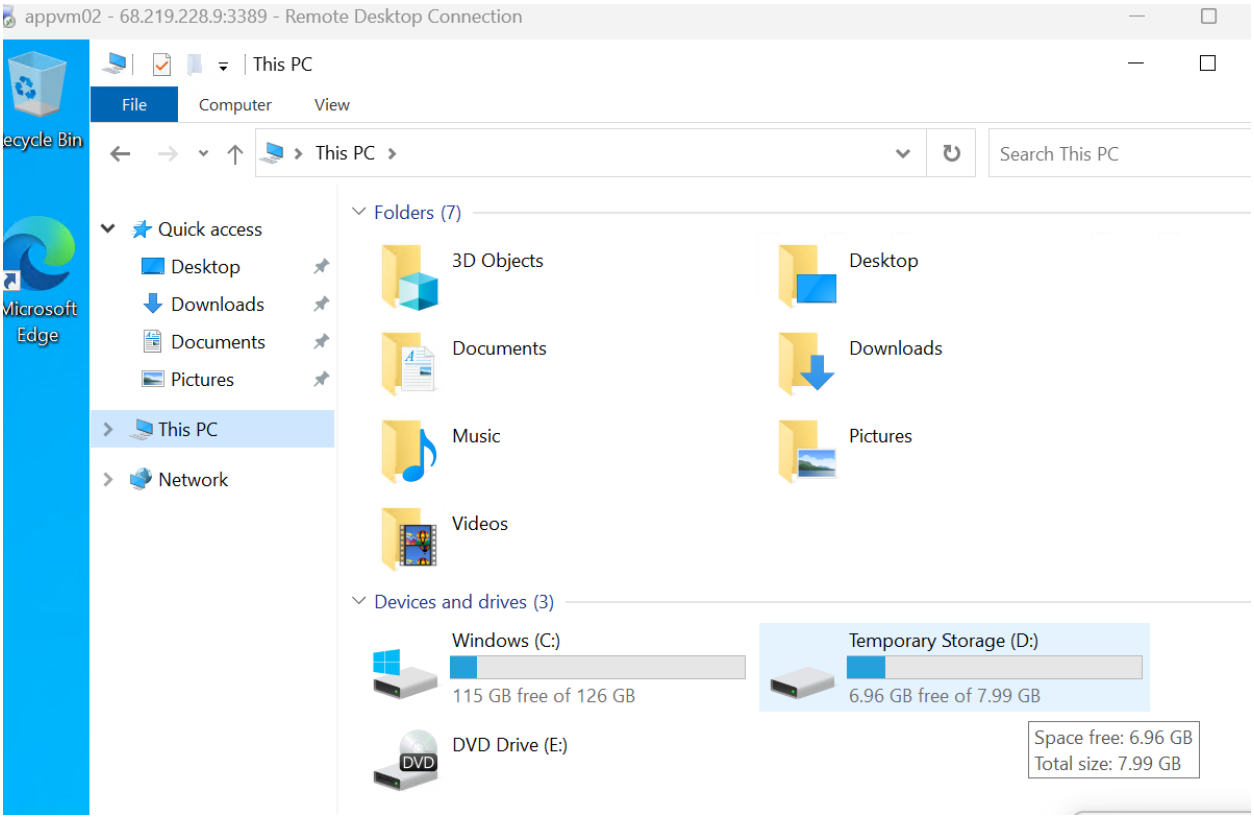
Basics Encryption Networking Advanced Tags **Review + create**

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

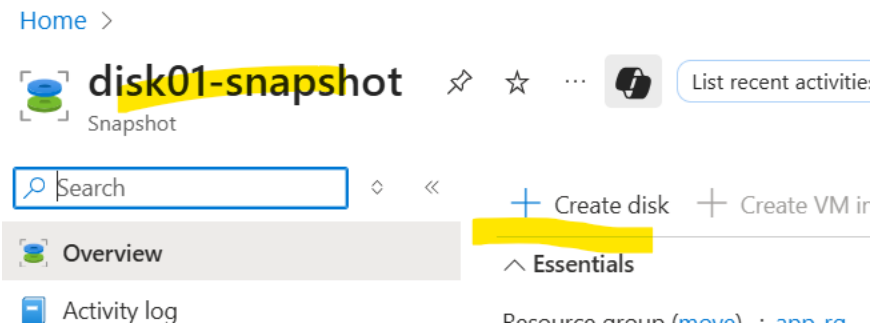
Create < Previous Next > Download a template for automation

Login to 2vm



Goto snapshot disk

Goto snapshot disk and click on crete disk



Home > disk01-snapshot >

Create a managed disk ...

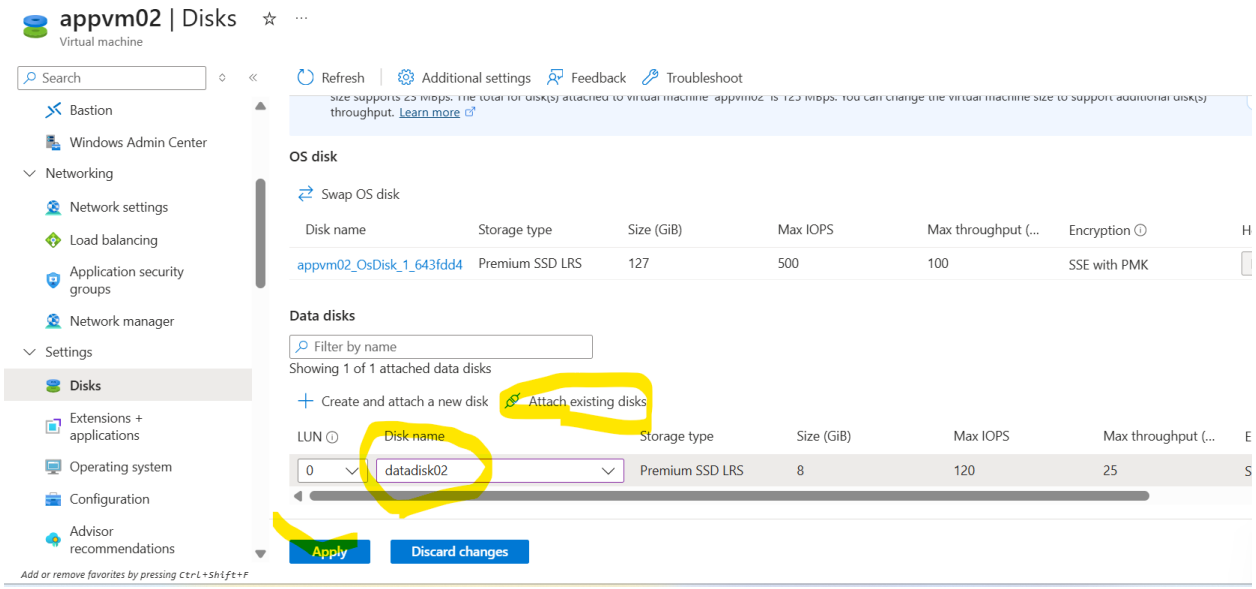
Validation passed

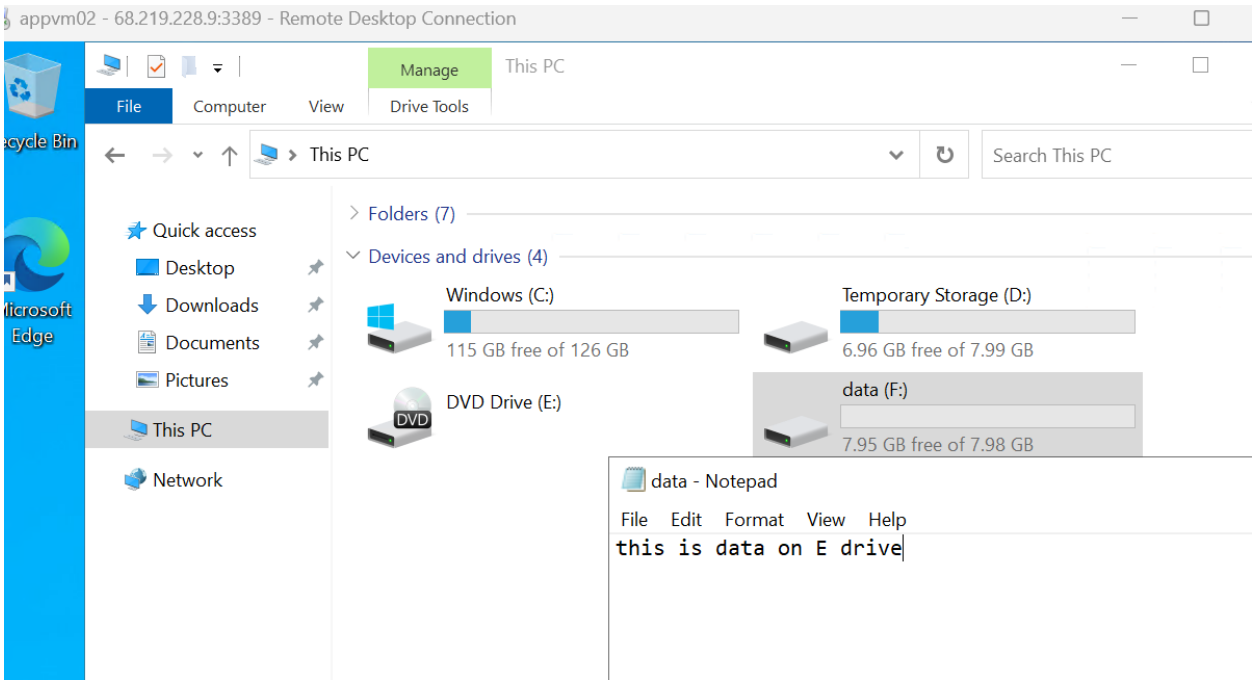
Basics Encryption Networking Advanced Tags **Review + create**

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 - 68.219.228.9:3389 - Remote Desktop Connection
Manage
This PC
File
Computer
View
Drive Tools
This PC
Search This PC
Quick access
Desktop
Downloads
Documents
Pictures
This PC
Network
Folders (7)
Devices and drives (4)
Windows (C:)
115 GB free of 126 GB
Temporary Storage (D:)
6.96 GB free of 7.99 GB
DVD Drive (E:)
data (F:)
7.95 GB free of 7.98 GB
data - Notepad
File Edit Format View Help
this is data on E drive