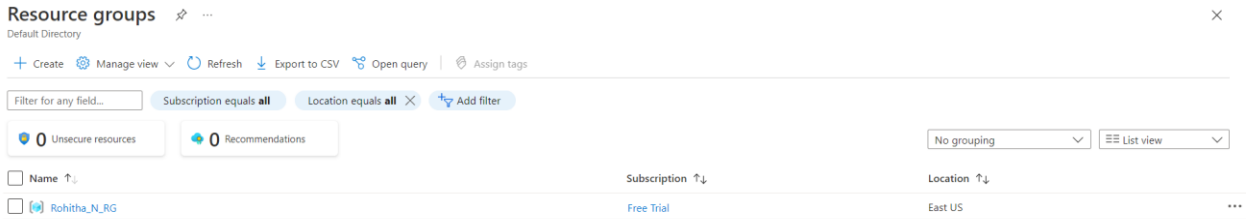


## Azure assignment topics:

### → Create Windows Virtual Machine:

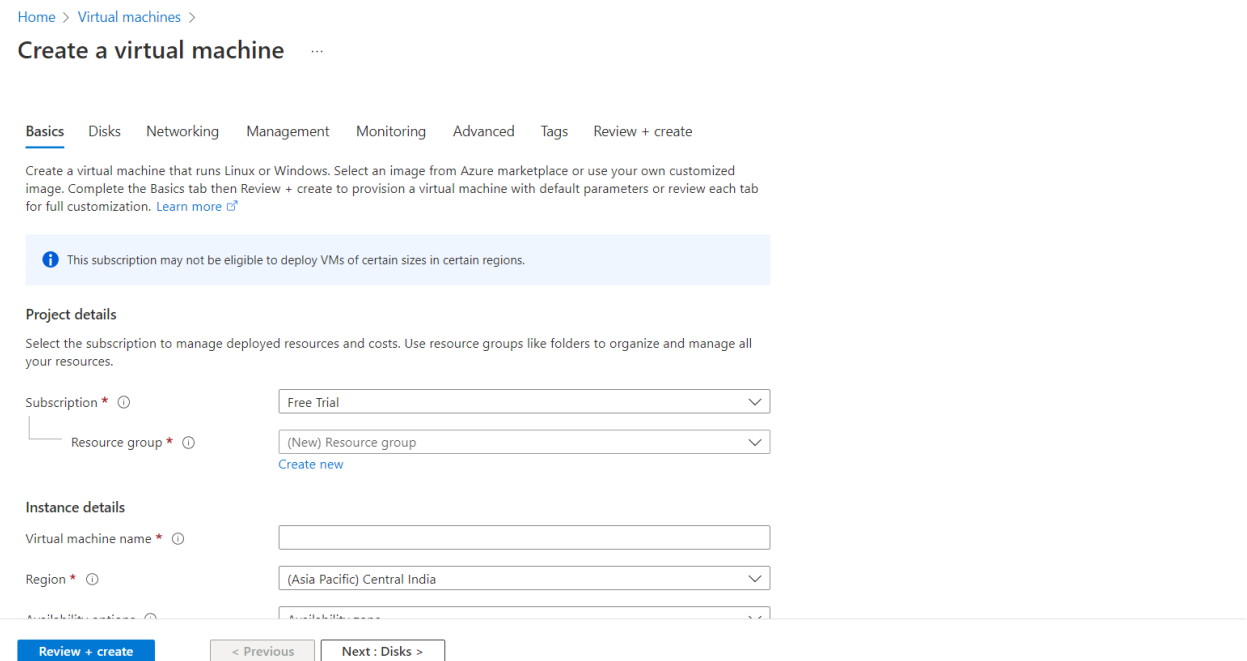
#### 1. Create resource group.



The screenshot shows the 'Resource groups' page in the Azure portal. At the top, there are navigation options: '+ Create', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', and 'Assign tags'. Below this is a search bar and filter buttons: 'Subscription equals all', 'Location equals all', and 'Add filter'. There are also indicators for '0 Unsecure resources' and '0 Recommendations'. On the right, there are dropdowns for 'No grouping' and 'List view'. A table below shows the following resource group:

Name	Subscription	Location
Rohitha_N_RG	Free Trial	East US

#### 2. Create Windows Virtual machine in same location.



The screenshot shows the 'Create a virtual machine' wizard in the Azure portal, specifically the 'Basics' tab. The breadcrumb navigation is 'Home > Virtual machines > Create a virtual machine'. The 'Basics' tab is selected, with other tabs including 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. A message states: 'This subscription may not be eligible to deploy VMs of certain sizes in certain regions.' Under 'Project details', the 'Subscription' is set to 'Free Trial' and the 'Resource group' is '(New) Resource group'. Under 'Instance details', the 'Virtual machine name' is empty, and the 'Region' is '(Asia Pacific) Central India'. At the bottom, there are three buttons: 'Review + create', '< Previous', and 'Next : Disks >'.

## Create a virtual machine ...

[See all sizes](#)

### Administrator account

Username \* ⓘ  ✓

Password \* ⓘ  ✓

Confirm password \* ⓘ  ✓

### Inbound port rules

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

Public inbound ports \* ⓘ  None  
 Allow selected ports

Select inbound ports \*  ✓

**⚠ This will allow all IP addresses to access your virtual machine.** This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.

[Review + create](#)

## Create a virtual machine ...

✓ Validation passed





**⚠ 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.

### Basics

Subscription	Free Trial
Resource group	Rohitha_N_RG
Virtual machine name	RohithaNamburiWindows
Region	East US
Availability options	Availability zone
Availability zone	1
Security type	Standard
Image	Windows Server 2022 Datacenter: Azure Edition - Gen2
VM architecture	x64
Size	Standard B1s (1 vcpu, 1 GiB memory)
Username	RohithaWindows
Public inbound ports	RDP
Already have a Windows license?	No
Azure Spot	No



Home >

## CreateVm-MicrosoftWindowsServer.WindowsServer-202-20221223193219 | Overview ...

Search <<  Delete  Cancel  Redeploy  Download  Refresh

- Overview
- Inputs
- Outputs
- Template

### Your deployment is complete

 Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 12/23/2022, 7:38:17 PM  
Subscription: [Free Trial](#) Correlation ID: b2511f2e-bd67-4dec-bffc-9e0fa761e195   
Resource group: [Rohitha\\_N\\_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](#)

Give feedback

 [Tell us about your experience with deployment](#)

3. Connect Windows virtual machine using Remote desktop connection.  
Give Public IP address and user name to connect.



# Remote Desktop Connection

General Display Local Resources Experience Advanced

## Logon settings



Enter the name of the remote computer.

Computer:

User name:

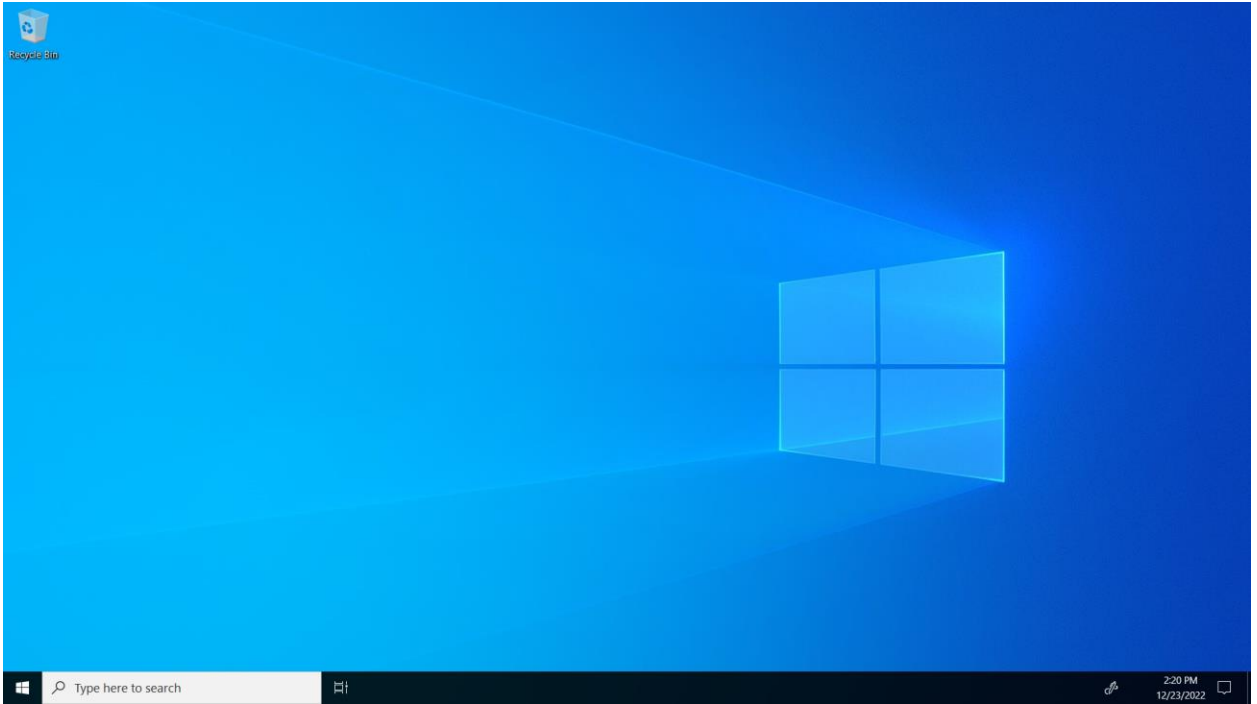
You will be asked for credentials when you connect.

Allow me to save credentials

## Connection settings



Save the current connection settings to an RDP file or open a saved connection.



#### 4. Delete Windows virtual machine.

Home >

### Virtual machines

Default Directory

+ Create   Switch to classic   Reservations   Manage view   Refresh   Export to CSV   Open query   Assign tags   Start   Restart

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

Name	Type	Subscription	Resource group	Location	Status	Operation
RohithaNamburWindows	Virtual machine	Free Trial	Rohitha_N_RG	East US	Running	Windows

< Previous   Page 1 of 1   Next >   Showing 1 to 1 of 1 records.

#### Delete Resources

Deleting 1 resource

Do you want to delete all the selected virtual machines?

**Warning!** Deleting the selected virtual machines is irreversible. This action will permanently delete the selected virtual machines. Associated resources, such as disks and virtual networks will not be deleted and can be removed manually. This action cannot be undone. Do you want to continue?

Apply force delete for selected Virtual machines and Virtual machine scale sets

Confirm delete \*

Selected resources

RohithaNamburWindows (Virtual machine)

**Delete**   **Cancel**

➔ Create Linux virtual machine:

# Create a virtual machine ...

✔ Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

ⓘ Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

## PRODUCT DETAILS

1 X Standard B1s

by Microsoft

[Terms of use](#) | [Privacy policy](#)

Subscription credits apply ⓘ

**0.7493 INR/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 information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

Rohitha Kalidindi


Create

< Previous

Next >

[Download a template for automation](#)

Home >

 **CreateVm-canonical.0001-com-ubuntu-server-focal-2-20221223195859** | Overview ⓘ ...

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✔ Your deployment is complete

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f... Start time: 12/23/2022, 8:03:51 PM  
Subscription: Free Trial Correlation ID: 32c66288-f755-4550-824e-ad9a059b36a9  
Resource group: Rohitha\_N\_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](#)

Give feedback

[Tell us about your experience with deployment](#)

✔ Deployment succeeded

Deployment 'CreateVm-canonical.0001-com-ubuntu-server-focal-2-20221223195859' to resource group 'Rohitha\_N\_RG' was successful.

[Go to resource](#)

[Pin to dashboard](#)



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## 2. Connect Linux machine using SSH any terminal.

```

PS C:\Users\DELL> cd downloads
PS C:\Users\DELL\downloads> ssh -i .\linuxmachine.pem azureuser@20.92.224.233
The authenticity of host '20.92.224.233 (20.92.224.233)' can't be established.
ECDSA key fingerprint is SHA256:1GHdWYtLb07r1n8QRkfZtJJZfc536KExjw4IgkAZ6pZo.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '20.92.224.233' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1029-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information disabled due to load higher than 1.0

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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.

azureuser@Linuxuser:~$ sudo su
root@Linuxuser:/home/azureuser#

```

## ➔ Create Disk for Virtual machine:

- a. lsblk will show the 8 GB additional disk that we added
- b. mkfs.ext4 /dev/sdc will make a file system
- c. Make a new directory
- d. Mount the file system "mount -t ext4 /dev/sdc <dirname>"
- e. df -hTP will show the additional disk that is mounted as below
- f. Create some files using touch command

Created a new disk, attached the disk to the VM

Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20221229180839 | Overview > RohithaVM

### RohithaVM | Disks

Virtual machine

Search | Save | Discard | Refresh | Additional settings | Feedback | Troubleshoot

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

Settings

- Networking
- Connect
- Disks**
- Size
- Microsoft Defender for Cloud
- Advisor recommendations
- Extensions + applications
- Continuous delivery
- Availability + scaling

**OS disk**

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
RohithaVM_disk1_5c006b2c59804ea9e	Premium SSD LRS	30	120	25	SSE with PMK	Read/write

**Data disks**

Filter by name

Showing 0 of 0 attached data disks

+ Create and attach a new disk | Attach existing disks

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
No data disks attached							

Click on Create and attach a new disk.

PuTTY (inactive)

```

└─sda15  8:15  0  106M  0  part  /boot/efi
sdb      8:16  0    4G  0  disk
└─sdb1   8:17  0    4G  0  part  /mnt
sdc      8:32  0    4G  0  disk
sr0     11:0  1  628K  0  rom
root@linuxvm2:/home/strs1# mkdir additionaldisk
root@linuxvm2:/home/strs1# mount -t ext4 /dev/sdc additionaldisk/
root@linuxvm2:/home/strs1# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
loop0       7:0    0  63.3M  1 loop /snap/core20/1852
loop1       7:1    0  91.9M  1 loop /snap/lxd/24061
loop2       7:2    0  49.9M  1 loop /snap/snapd/18596
sda         8:0    0   30G  0  disk
├─sda1      8:1    0  29.9G  0  part /
├─sda14     8:14   0    4M  0  part
└─sda15     8:15   0  106M  0  part /boot/efi
sdb         8:16   0    4G  0  disk
└─sdb1     8:17   0    4G  0  part /mnt
sdc         8:32   0    4G  0  disk /home/strs1/additionaldisk
sr0        11:0    1  628K  0  rom
root@linuxvm2:/home/strs1# cd additionaldisk/
root@linuxvm2:/home/strs1/additionaldisk# ls
1.txt  lost+found  {1..10}.txt
root@linuxvm2:/home/strs1/additionaldisk#

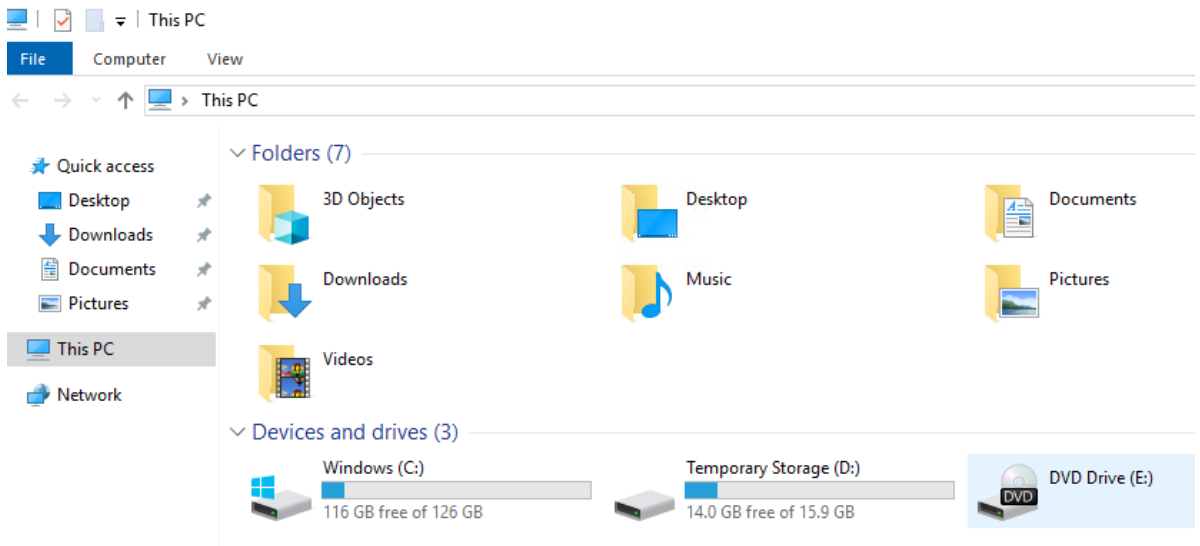
```

+ Create and attach a new disk | Attach existing disks

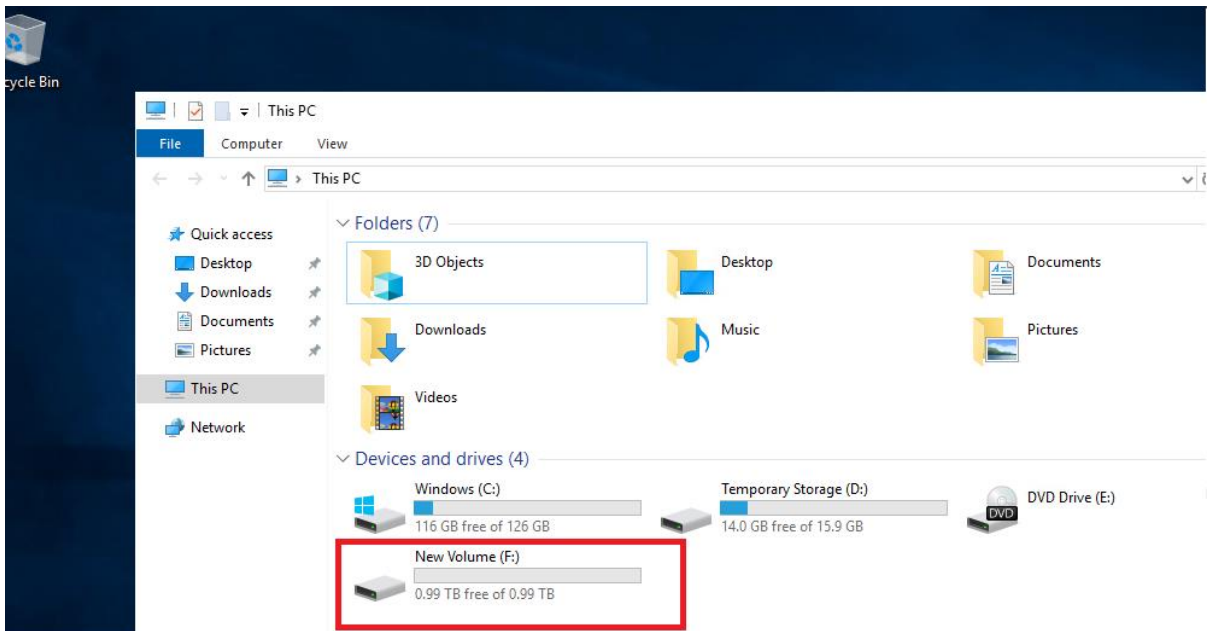
LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (...)	Encryption	Host caching
1	RohithaDisk	Standard SSD (L...	4	500	60	Platform-managed k...	None



Server Manager ▸ File and Storage Services ▸ Volumes ▸ Disks



Add new volume as below:



Create a snapshot from existing disk.

Search

[+ Create disk](#)
[+ Create VM image version](#)
[Copy snapshot](#)
[Delete](#)
[Refresh](#)
[Give feedback](#)

- Overview
- Activity log
- Access control (IAM)
- Tags

Settings

- Encryption
- Networking
- Snapshot export
- Properties
- Locks

Automation

- Tasks (preview)
- Export template

Help

- New Support Request

Essentials

Resource group (mscr) : [Sandy-rng](#) Created : 4/4/2023, 11:10:35 PM

Location : East US Storage type : Zone-redundant

Subscription (mscr) : [Free Trial](#) Source : [Sandy-Disk](#)

Subscription ID : a99278f5-2586-4643-ba2b-614e2177a05e Size : 1024 GB

Snapshot state : Unattached Encryption : [Platform-managed key](#)

Tags (edit) : [Click here to add tags](#)

Get started **Properties**

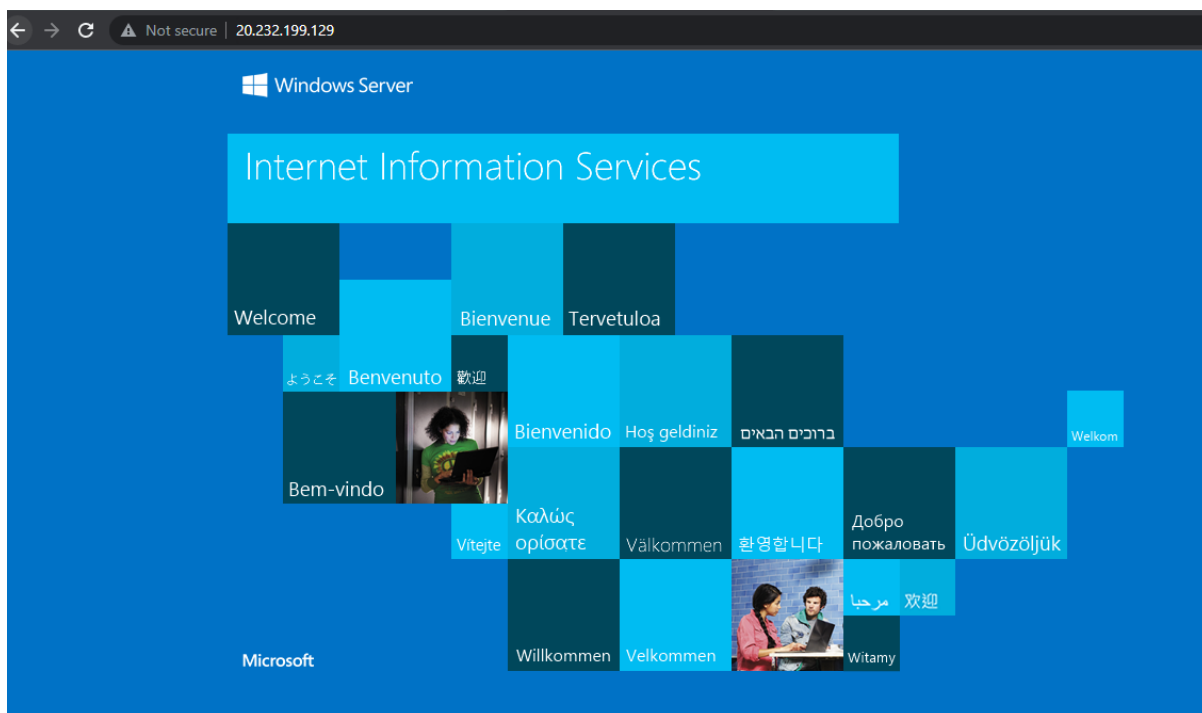
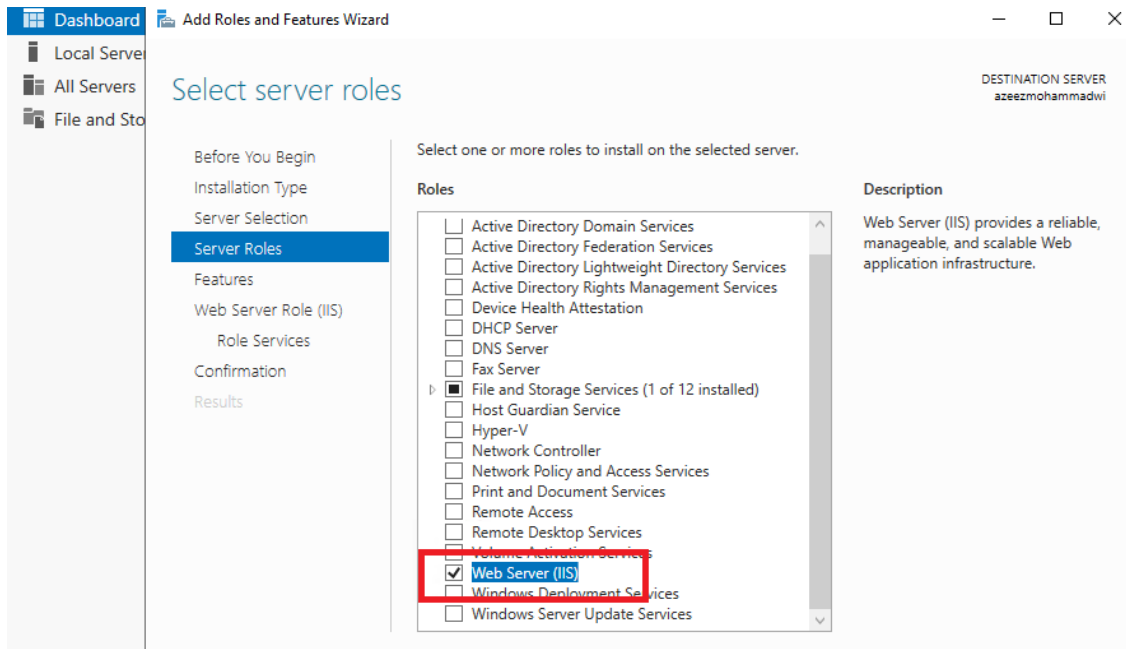
Snapshot		Size	
Name	sandya-snapshot	Size	1024 GB
Snapshot type	Full	Storage type	Zone-redundant
VM generation	Gen 1		
Completion percent	100		
VM architecture	x64		
Provisioning state	Succeeded		

This PC > Desktop > New folder > Rohitha

Search Rohitha

Name	Date modified	Type	Size
test - copy	4/8/2023 9:15 PM	Text Document	0 KB
test	4/8/2023 9:14 PM	Text Document	0 KB

## Installing Web Server



➔ Resizing the Windows Virtual machine.  
Present Size of the VM

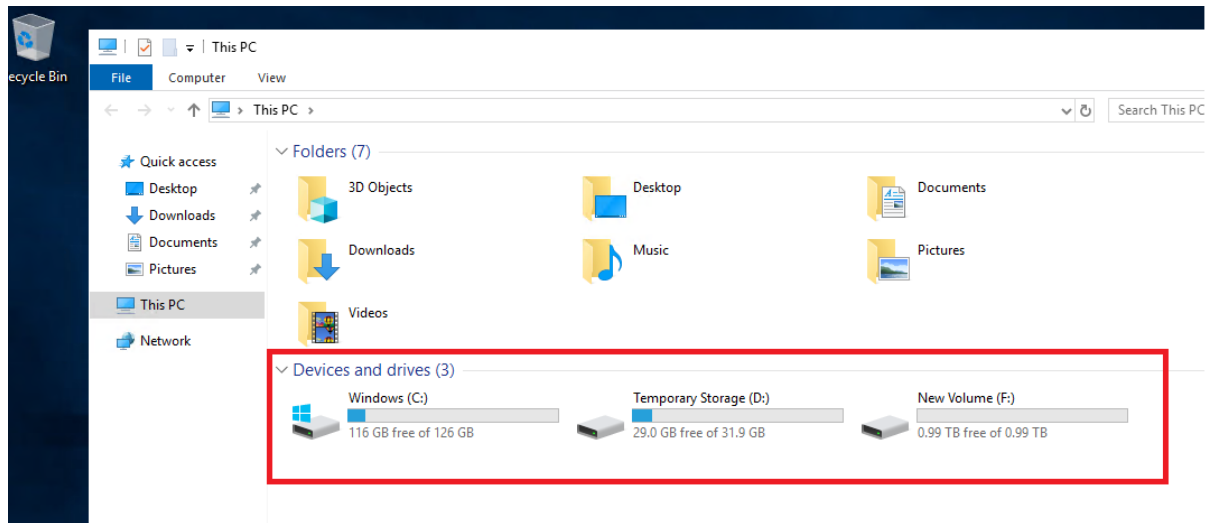
Search by VM size...

Display cost: Monthly vCPUs: All RAM (GB): All Add filter

Showing 383 VM sizes | Subscription: Free Trial | Region: West US 3 | Current size: Standard\_D2s\_v3 | Learn more about VM sizes | Group by series

VM Size ↑↓	Type ↑↓	vCPUs ↑↓	RAM (GB) ↑↓	Data disks ↑↓	Max IOPS ↑↓	Temp storage (GiB) ↑↓	Premium disk
Most used by Azure users							
The most used sizes by users in Azure							
D51_v2	General purpose	1	3.5	4	3200	7	Supported
D2s_v3	General purpose	2	8	4	3200	16	Supported
D2s_v4	General purpose	2	8	4	3200	16	Supported
D52_v2	General purpose	2	7	8	6400	14	Supported
D4s_v3	General purpose	4	16	8	6400	32	Supported
D52_v2	General purpose	4	14	16	12800	28	Supported
D-Series v5							
The latest generation D family sizes recommended for your general purpose needs							
D-Series v4							
The 4th generation D family sizes for your general purpose needs							
E-Series v5							
The latest generation E family sizes for your high memory needs							
E-Series v4							
The 4th generation E family sizes for your high memory needs							
F-Series v2							
Up to 2X performance boost for vector processing workloads							
D-Series v3							
The 3rd generation D family sizes for your general purpose needs							
E-Series v3							
The 3rd generation E family sizes for your high memory needs							
D-Series v2							
The 2nd generation D family sizes for your general purpose needs							

Resize the disk as below:



→ Create windows virtual machine from disk.

# Server Manager Dashboard

- Dashboard
- Local Server
- All Servers
- File and Storage Services
- IIS

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Don't show this message again

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## ROLES AND SERVER GROUPS

Roles: 2 | Server groups: 1 | Servers total: 1

 File and Storage Services	1	 IIS	1
---	---	---	---