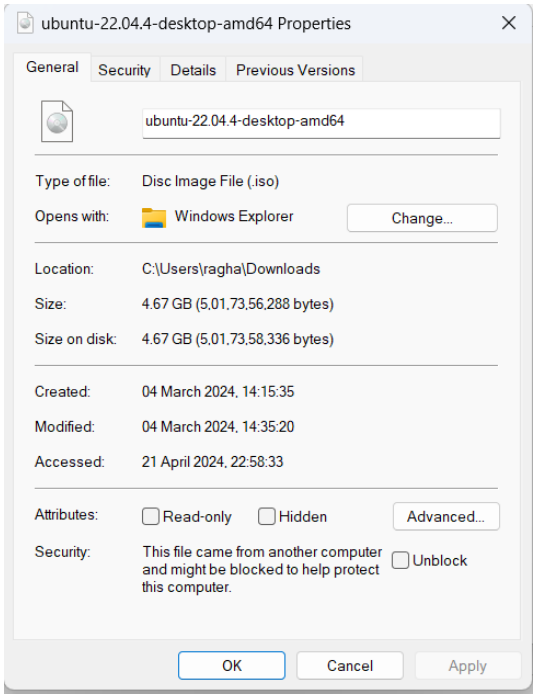
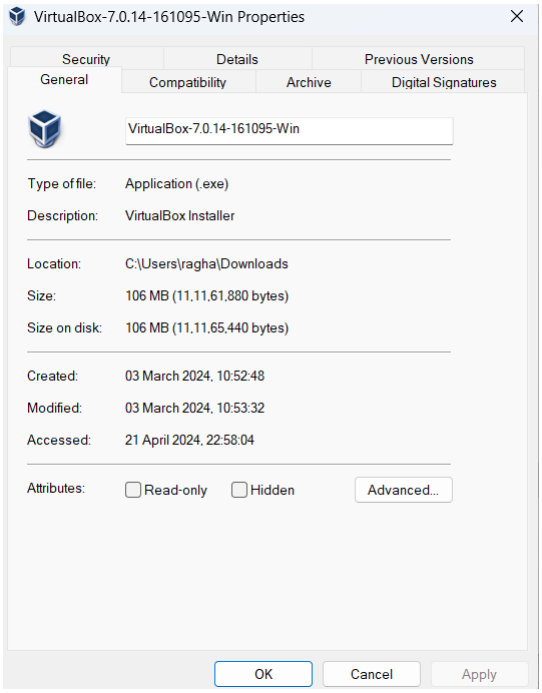
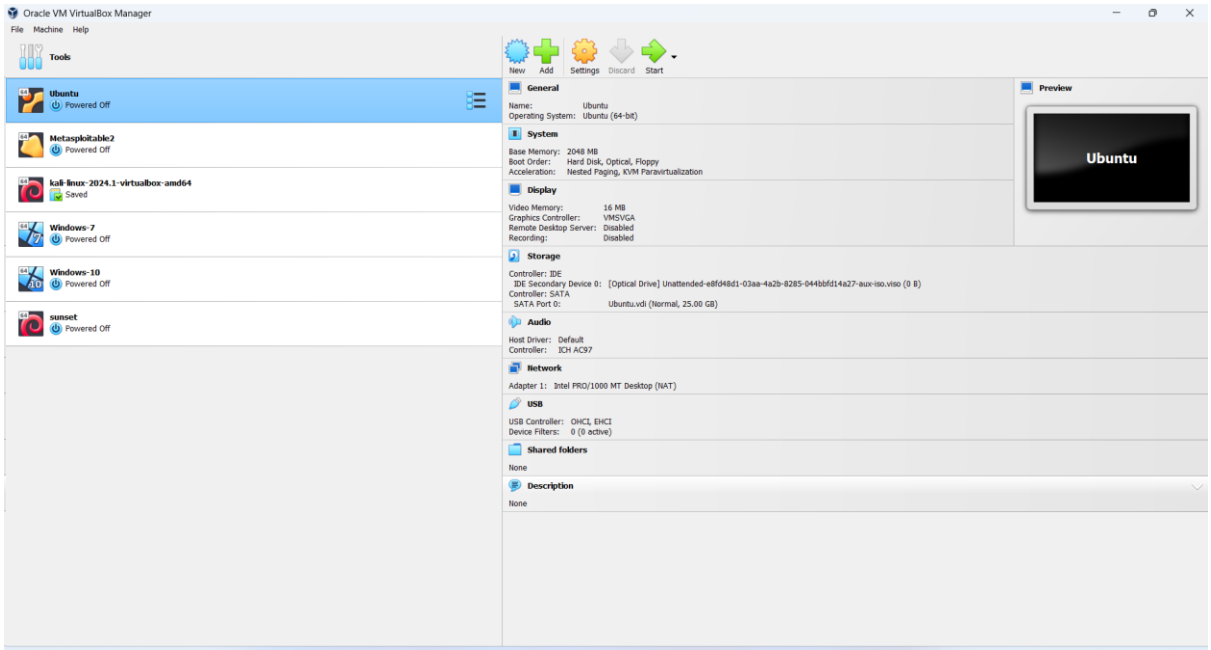
1. Install Virtual box and making Ubuntu in Virtual Machine.

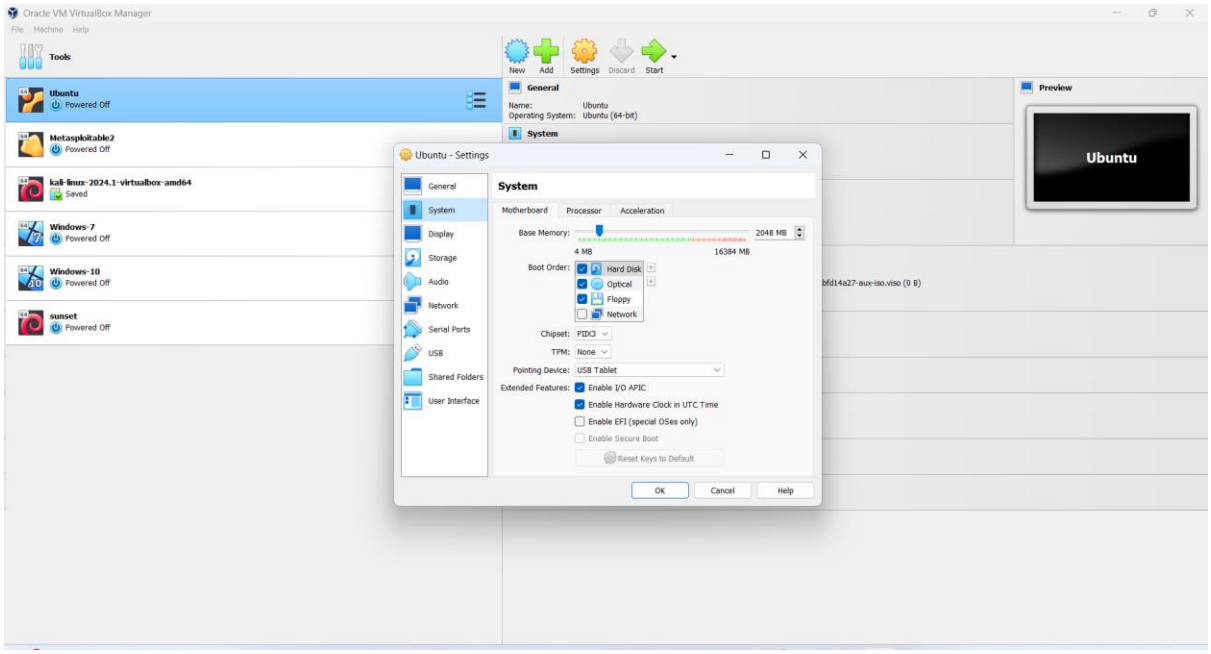
Step-1: Download VirtualBox for Windows and install it on your computer.

Step-2: Download the Ubuntu ISO file you want to install from the Ubuntu download page.



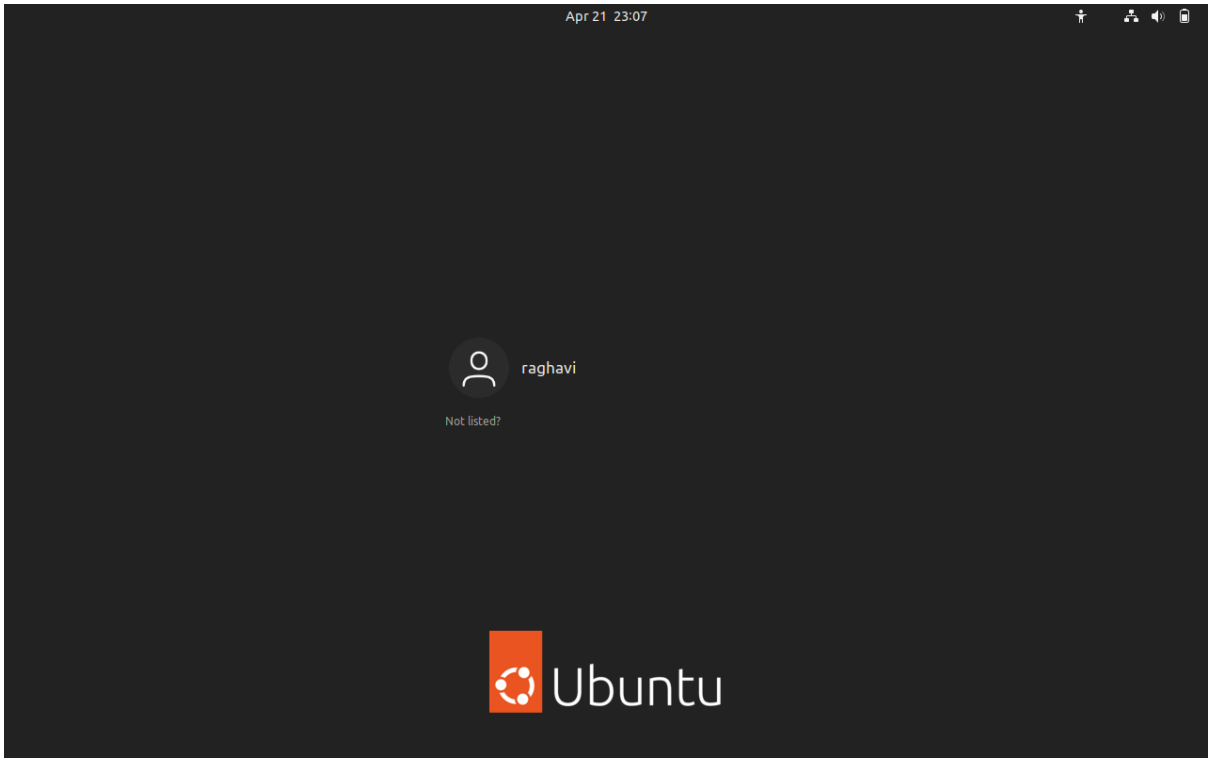




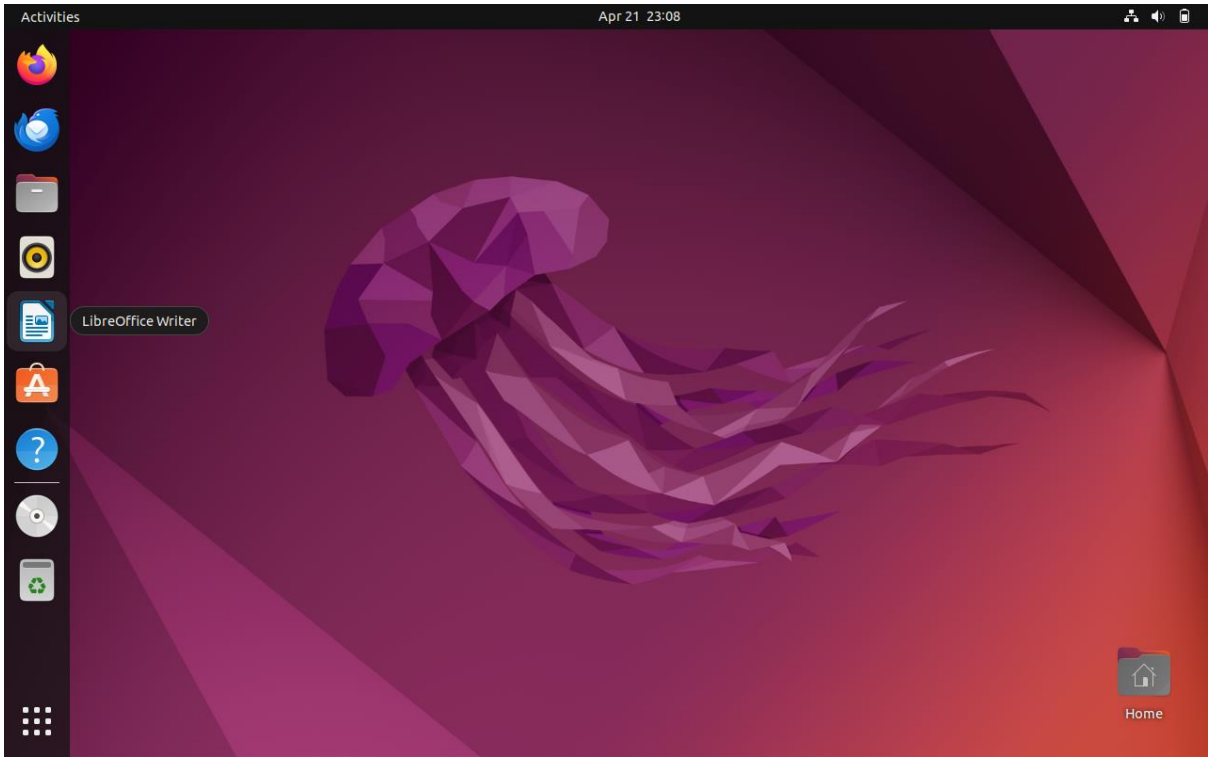


Step-3: Launch the ubuntu by selecting the path of ISO image in virtual box.

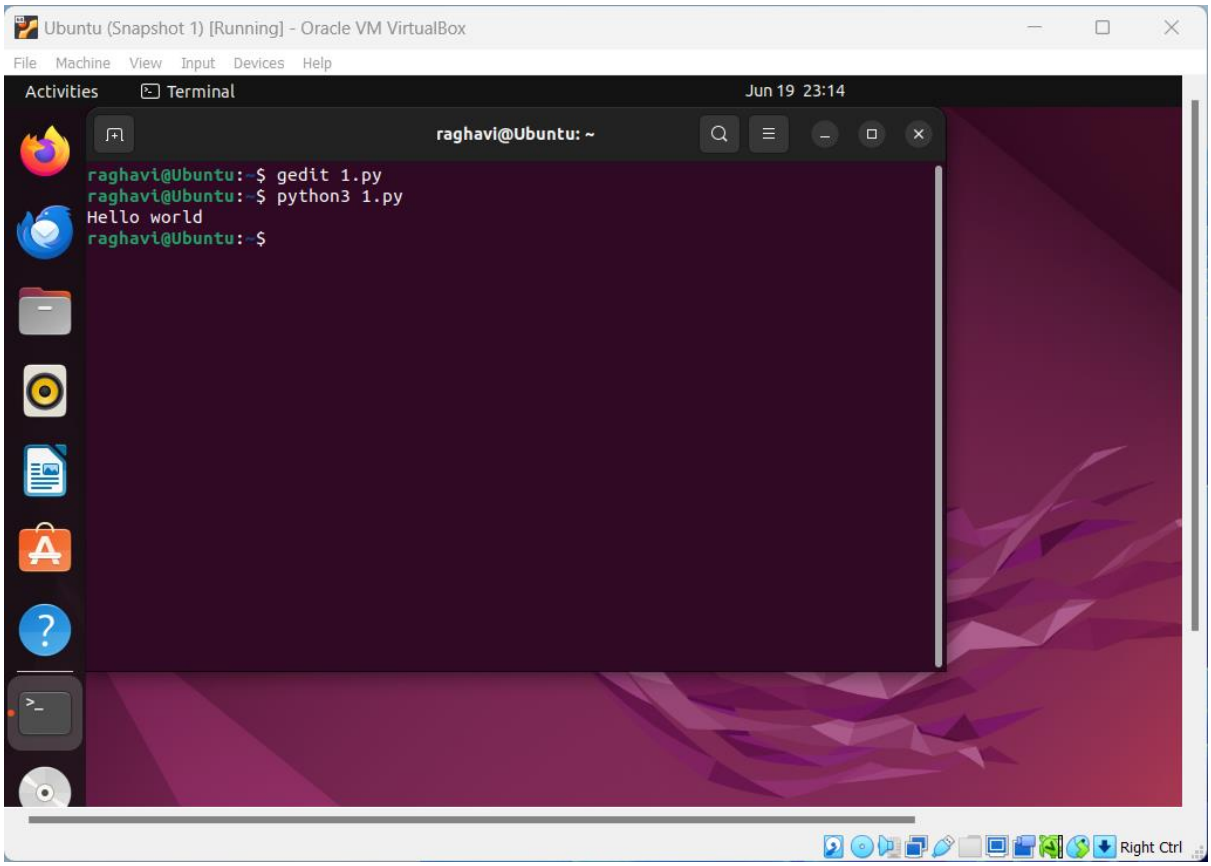
Step-4: Click next and so on and install.



Step-5: Login to the ubuntu by giving password given by you.



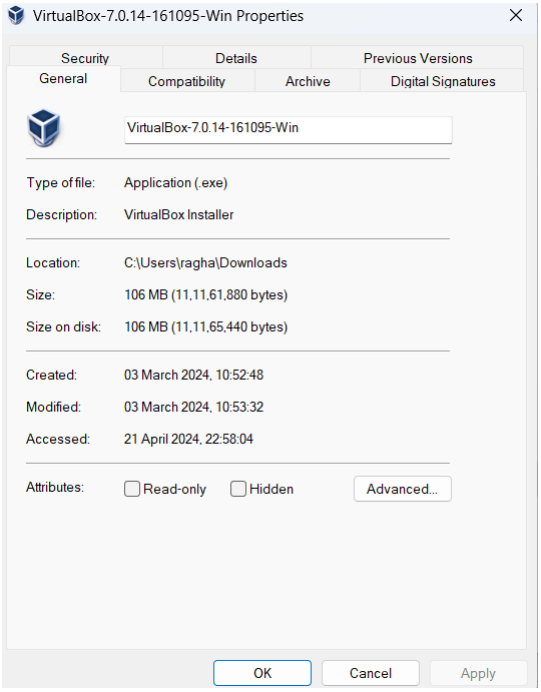
Step-6: Open terminal and execute python program

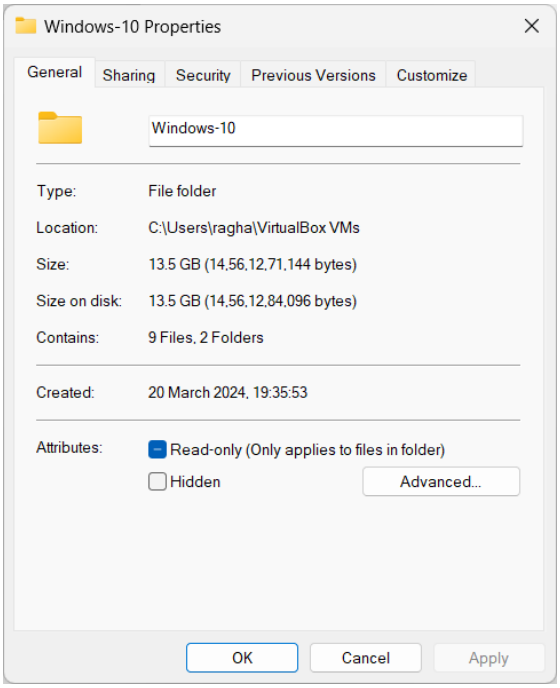


2. Install Virtual box and making Window Virtual Machine.

Similarly, Follow the same steps above to Build Windows Virtual Machine.

Step-1: Download VirtualBox for Windows and install it on your computer.



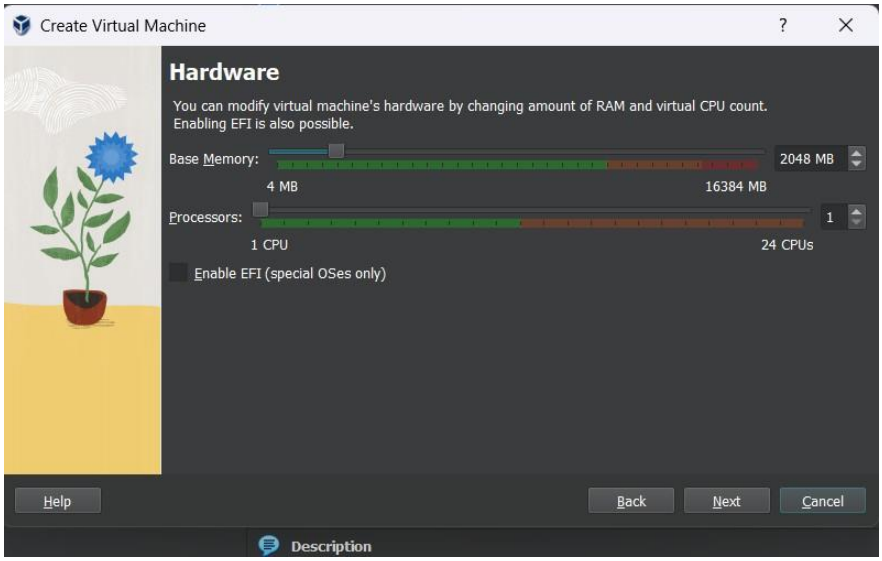


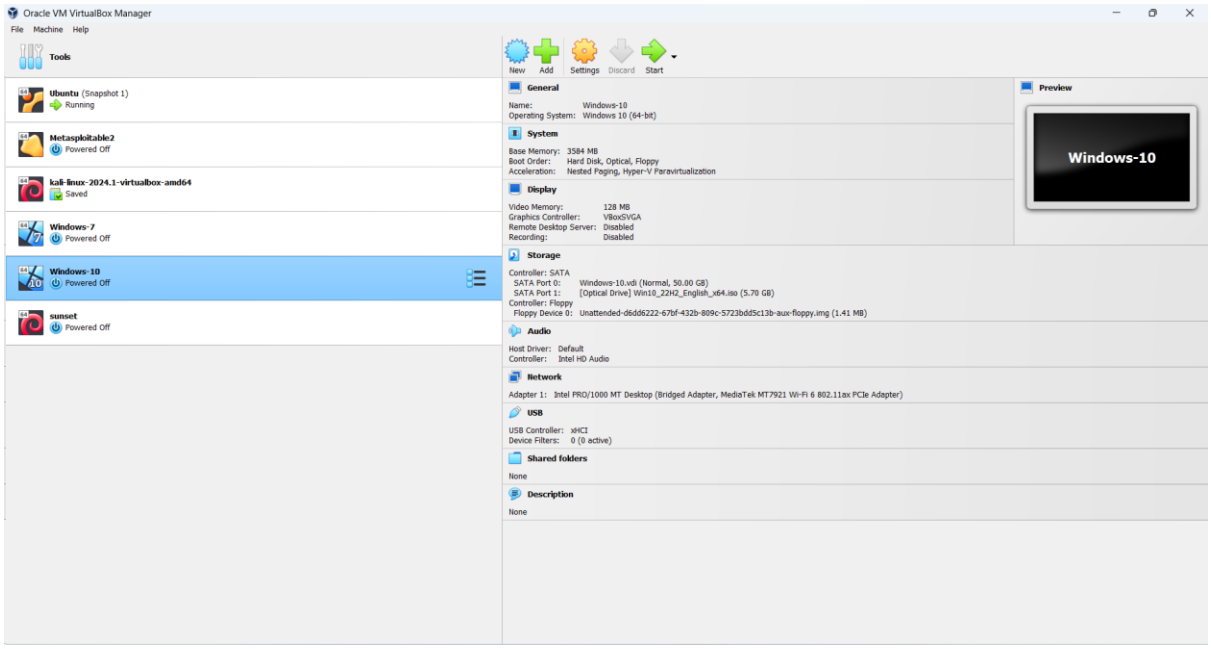
Step-2: Download the Windows-10 or 7 you want to install.

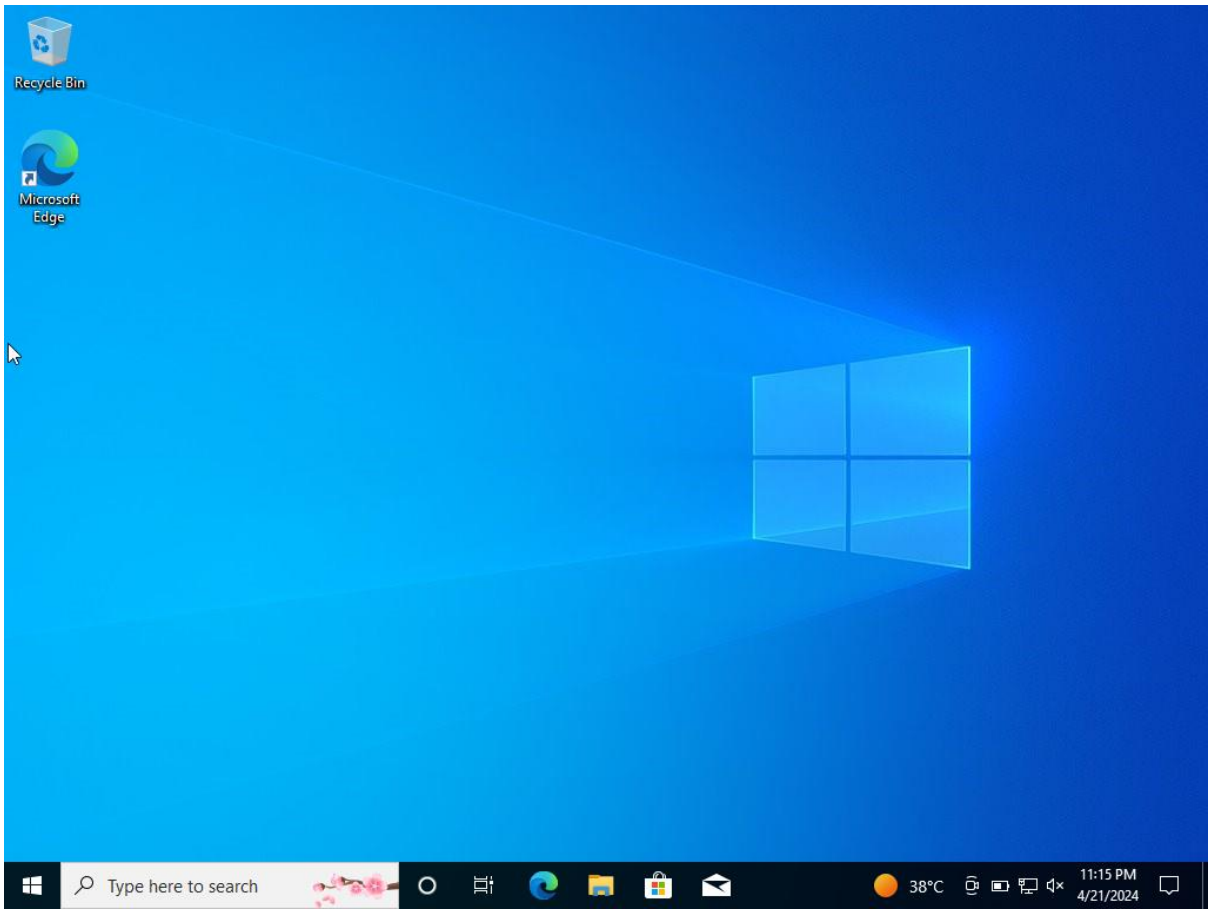
Step-3: Launch the windows by selecting the path of downloaded software in virtual box.

Step-4: Click next and so on and install.

Step-5: Login to the windows by giving password given by you.




Oracle VM VirtualBox Manager
File Machine Help
Tools
Ubuntu (Snapshot 1)
Running
Metasploitable2
Powered Off
kali-linux-2024.1-virtualbox-amd64
Saved
Windows-7
Powered Off
Windows-10
Powered Off
sunset
Powered Off
New Add Settings Discard Start
General
Name: Windows-10
Operating System: Windows 10 (64-bit)
System
Base Memory: 3584 MB
Boot Order: Hard Disk, Optical, Floppy
Acceleration: Nested Paging, Hyper-V Paravirtualization
Display
Video Memory: 128 MB
Graphics Controller: VBoxSVGA
Remote Desktop Server: Disabled
Recording: Disabled
Storage
Controller: SATA
SATA Port 0: Windows-10.vdi (Normal, 50.00 GB)
SATA Port 1: [Optical Drive] Win10_22H2_English_x64.iso (5.70 GB)
Controller: Floppy
Floppy Device 0: Unattended-d6dd6222-67bf-432b-809c-5723bdd5c13b-aux-floppy.img (1.41 MB)
Audio
Host Driver: Default
Controller: Intel HD Audio
Network
Adapter 1: Intel PRO/1000 MT Desktop (Bridged Adapter, MediaTek MT7921 Wi-Fi 6 802.11ax PCIe Adapter)
USB
USB Controller: xHCI
Device Filters: 0 (0 active)
Shared folders
None
Description
None
Preview
Windows-10


Recycle Bin
Microsoft Edge
Type here to search
38°C
11:15 PM
4/21/2024

3) Create an instance in Virtual Machine and launch windows server in Microsoft Azure

Step-1: Sign in to your Microsoft Azure account.

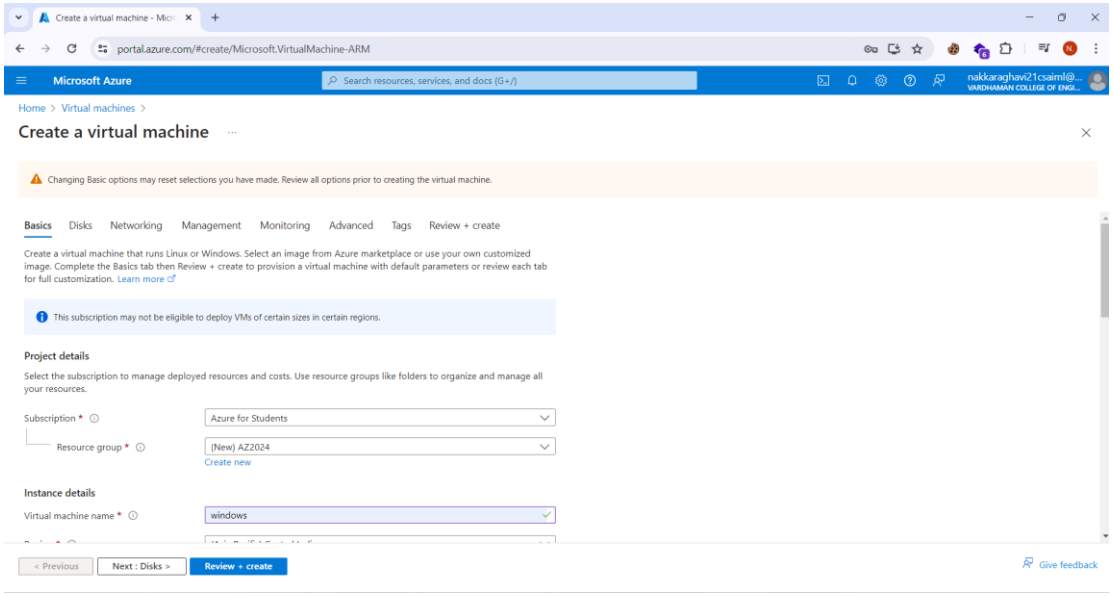
Step-2: Go To Virtual machine, and click on “Create” to create a window virtual machine.

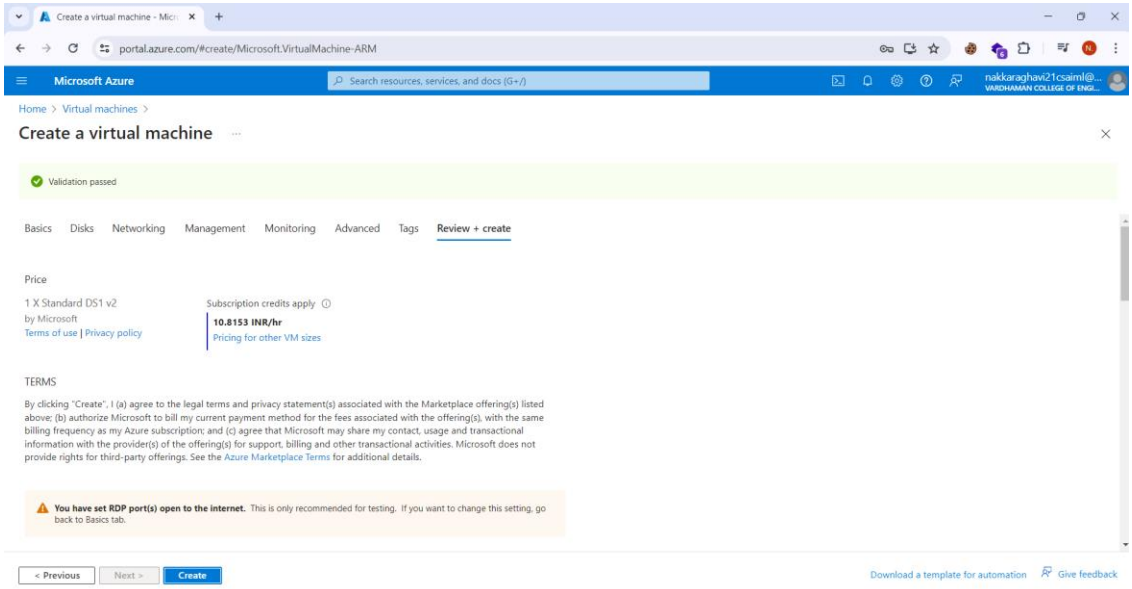
Step-3: Fill the details in that window by creating a “Resource Group”, Zone: Asia, Image: window, Select the disk storage and so on. After that click on “Create + Review”, click on “Create”

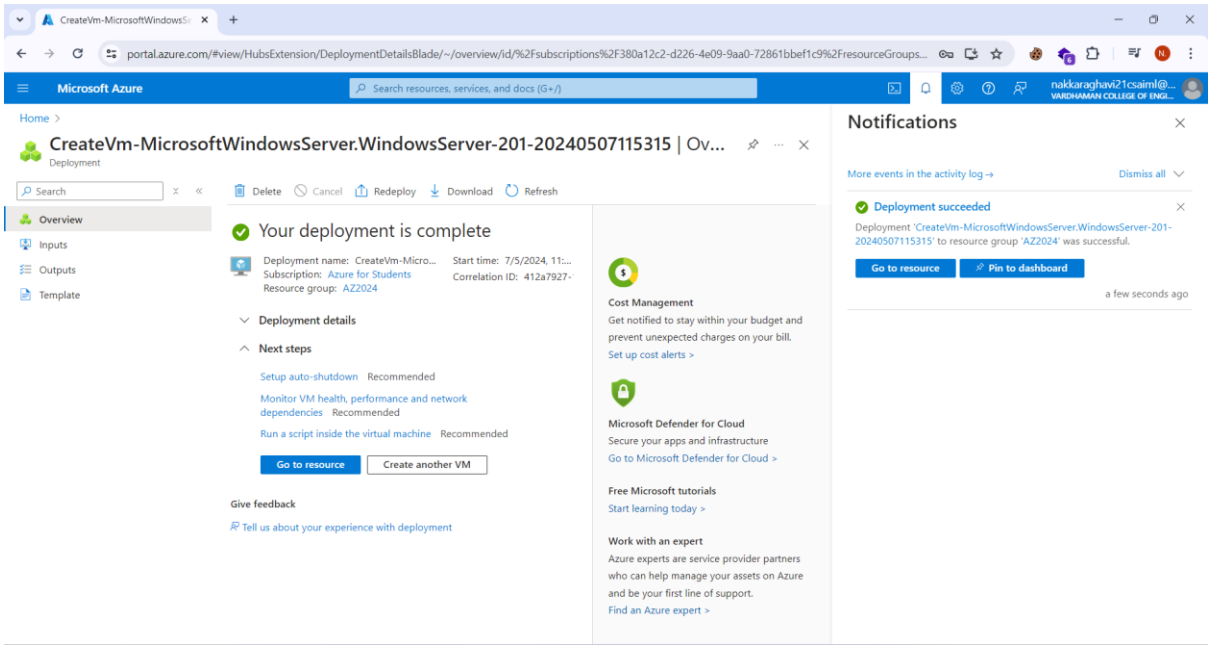
Step-4: Copy the public IP Address of that created virtual machine.

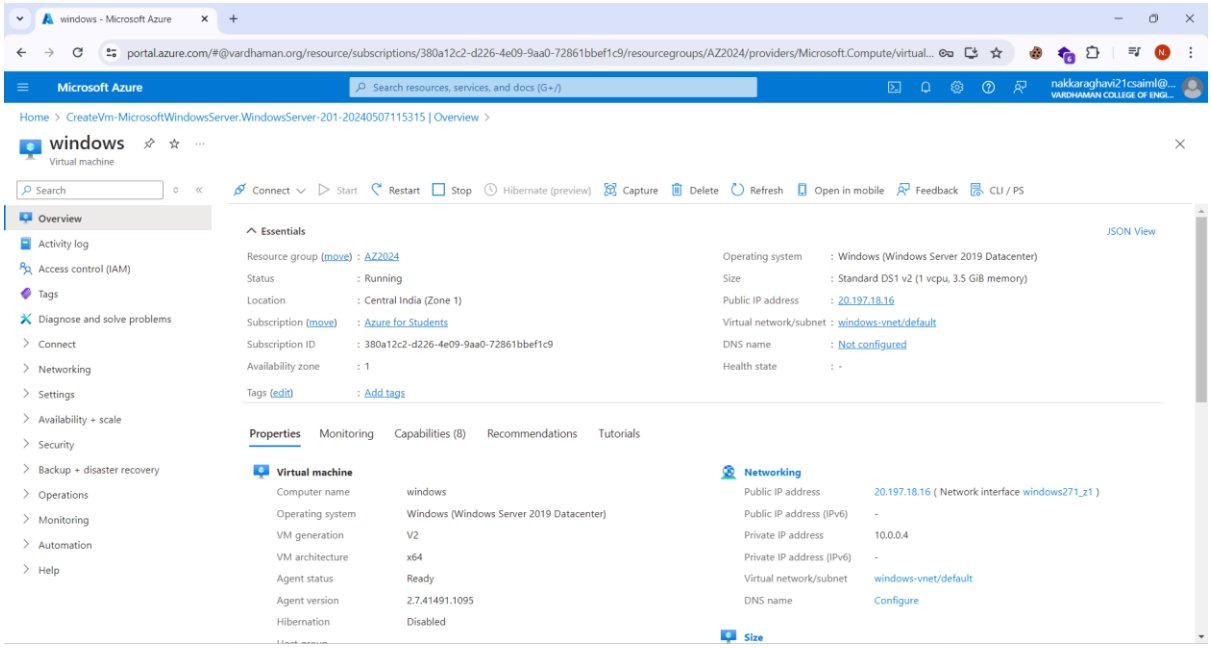
Step-5: Go to the remote desktop connection.

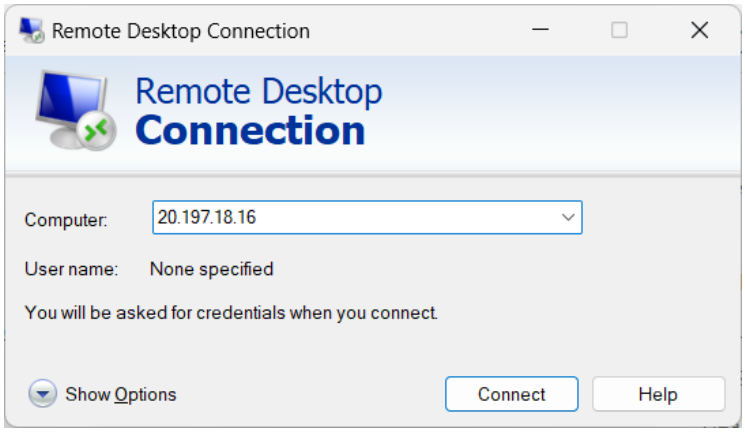
Step-6: By using that copied IP Address open the window virtual machine through remote desktop connection.

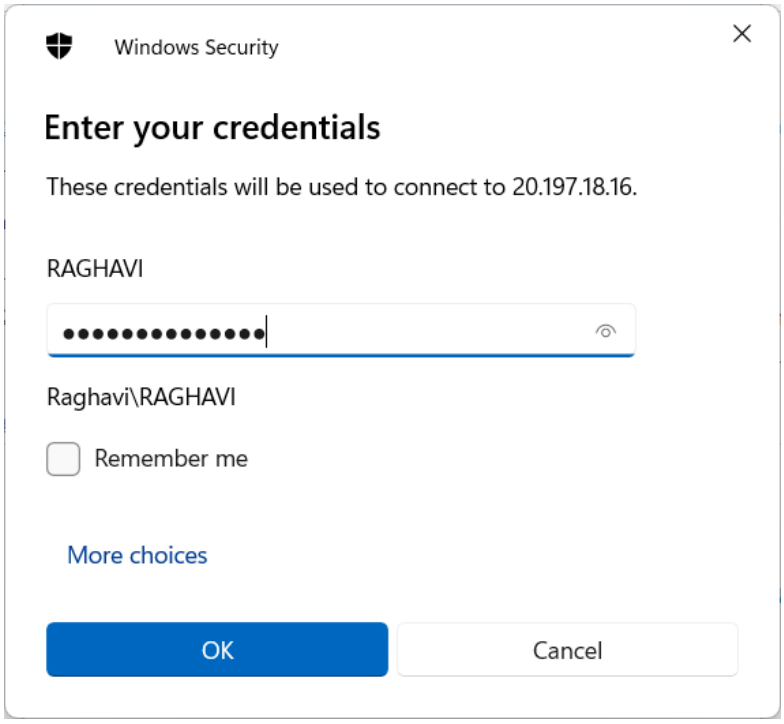


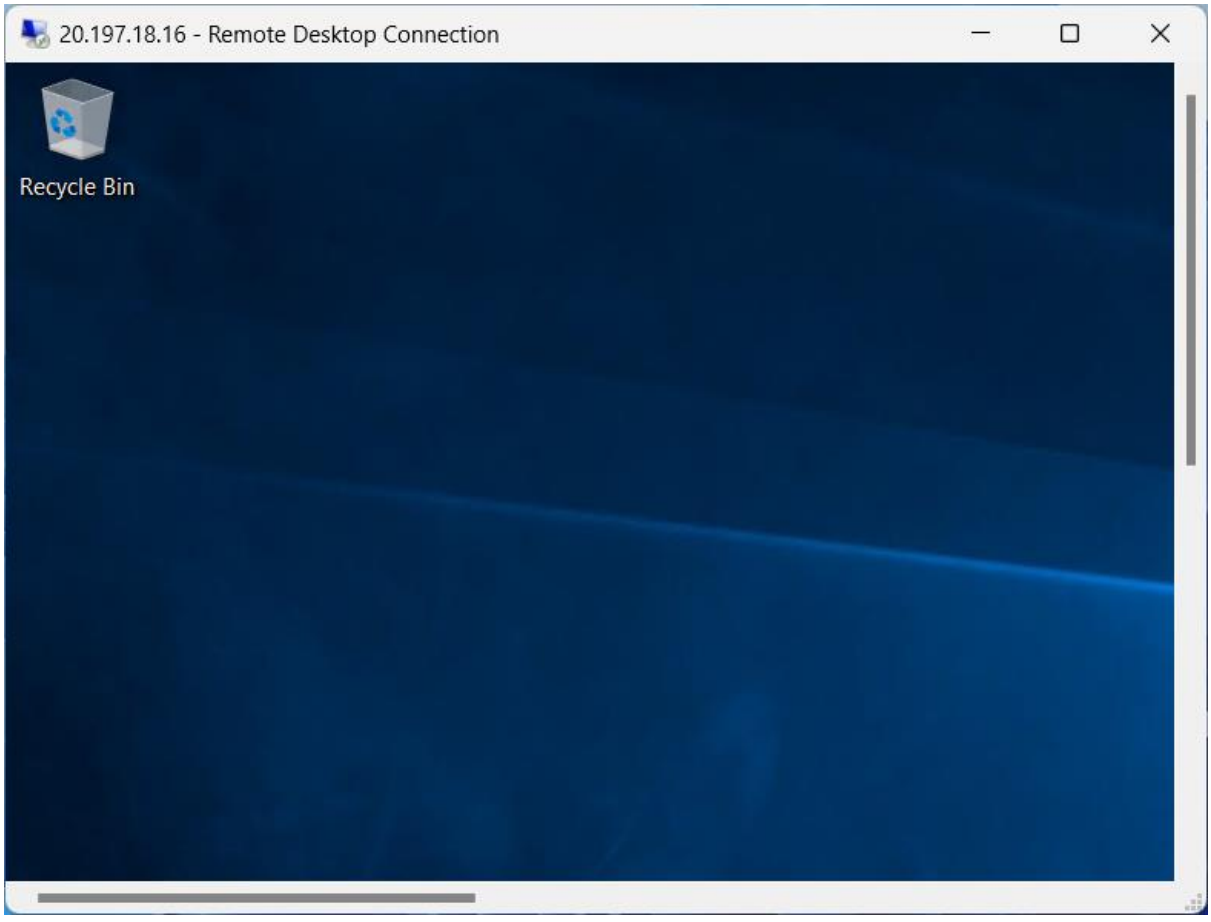



Microsoft Azure
Search resources, services, and docs (G+/)
Home >
CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240507115315 | Ov...
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-Micro...
Subscription: Azure for Students
Resource group: AZ2024
Start time: 7/5/2024, 11:...
Correlation ID: 412a7927-
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
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >
Notifications
More events in the activity log →
Dismiss all
Deployment succeeded
Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240507115315' to resource group 'AZ2024' was successful.
Go to resource
Pin to dashboard
a few seconds ago


Microsoft Azure
Search resources, services, and docs (G+/)
Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240507115315 | Overview >
windows
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Connect
Start
Restart
Stop
Hibernate (preview)
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : AZ2024
Status : Running
Location : Central India (Zone 1)
Subscription (move) : Azure for Students
Subscription ID : 380a12c2-d226-4e09-9aa0-72861bbef1c9
Availability zone : 1
Tags (edit) : Add tags
Operating system : Windows (Windows Server 2019 Datacenter)
Size : Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address : 20.197.18.16
Virtual network/subnet : windows-vnet/default
DNS name : Not configured
Health state : -
Properties
Monitoring
Capabilities (8)
Recommendations
Tutorials
Virtual machine
Computer name windows
Operating system Windows (Windows Server 2019 Datacenter)
VM generation V2
VM architecture x64
Agent status Ready
Agent version 2.7.41491.1095
Hibernation Disabled
Networking
Public IP address 20.197.18.16 (Network interface windows271_z1)
Public IP address (IPv6) -
Private IP address 10.0.0.4
Private IP address (IPv6) -
Virtual network/subnet windows-vnet/default
DNS name Configure
Size


Remote Desktop Connection
Remote Desktop
Connection
Computer:
20.197.18.16
User name:
None specified
You will be asked for credentials when you connect.
Show Options
Connect
Help





Result: Above experiment is successfully executed and verified.

4) Create an instance in Virtual Machine and launch Linux server in Microsoft Azure

Step-1: Sign in to your Microsoft Azure account.

Step-2: Go To Virtual machine, and click on “Create” to create a window virtual machine.

Step-3: Fill the details in that ubuntu by creating a “Resource Group”, Zone: Asia, Image: ubuntu, select “SSH”, Select the disk storage and so on. After that click on “Create + Review”, click on “Create”.

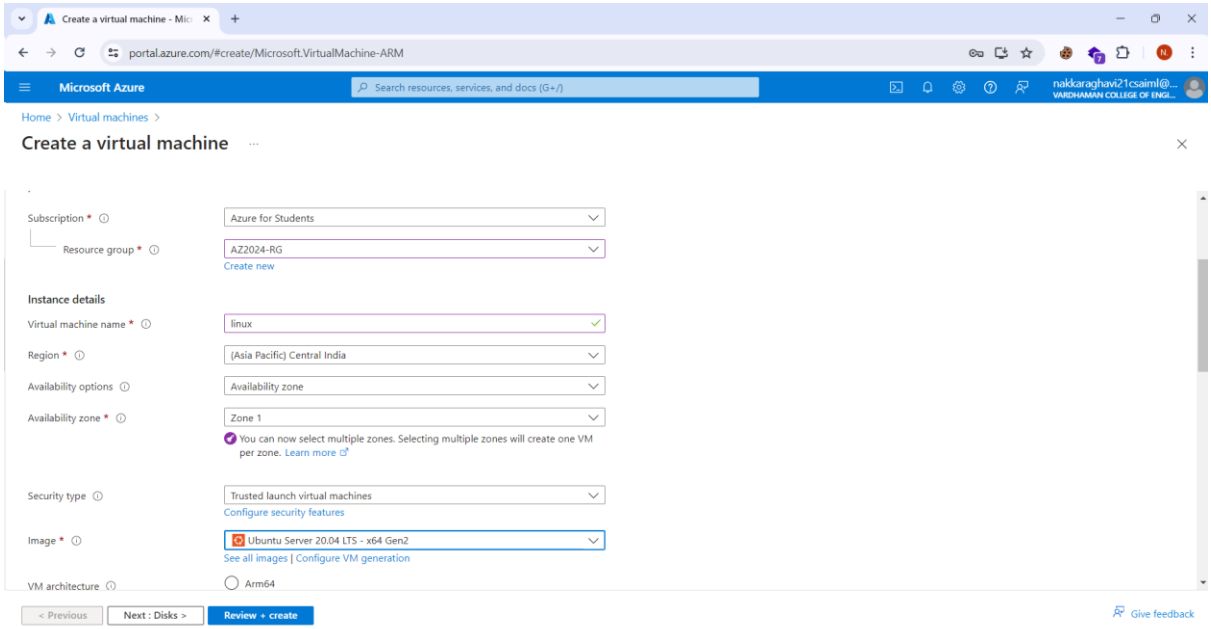
Step-4: Copy the public IP Address of that created virtual machine.

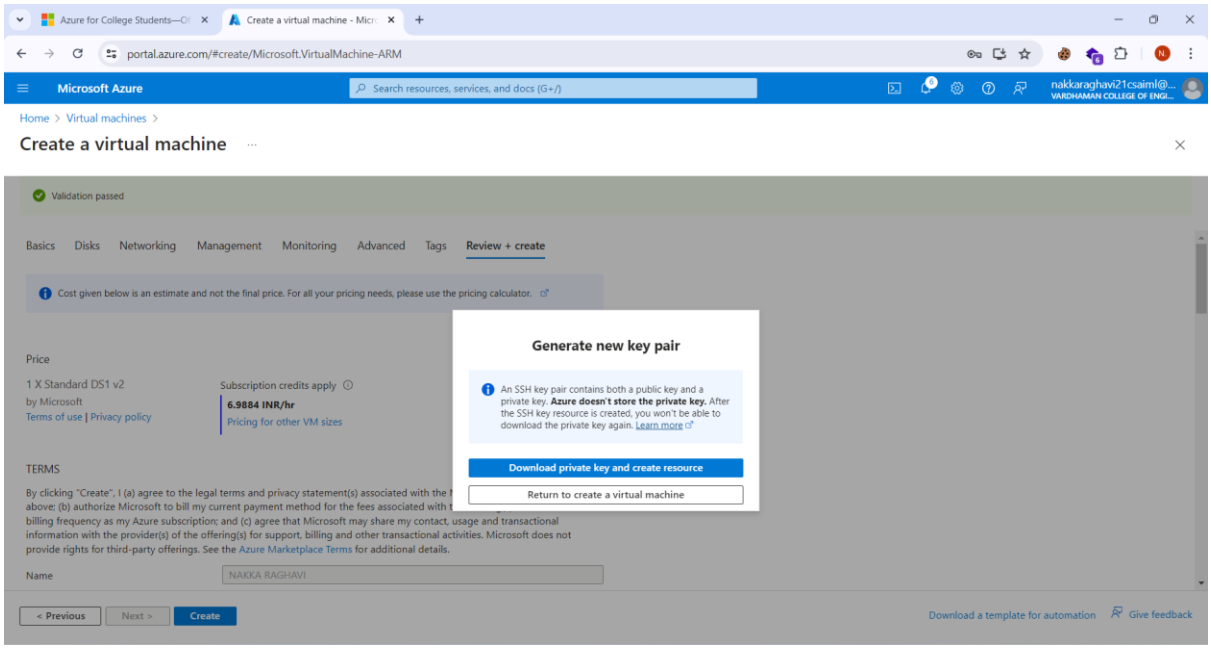
Step-5: Go to the remote desktop connection.

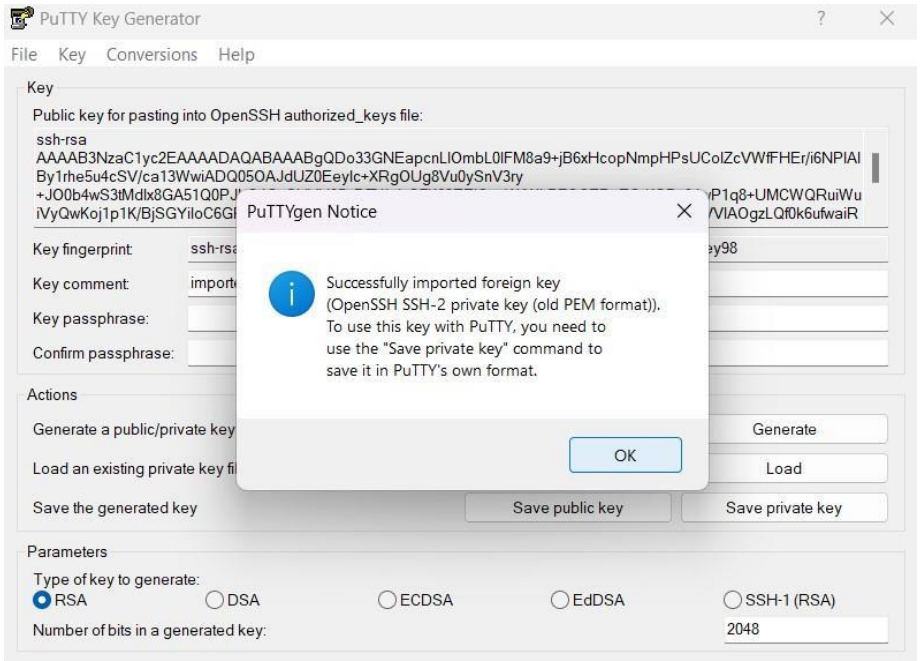
Step-6: Go to putty gen and click on load the key generator that you have downloaded.

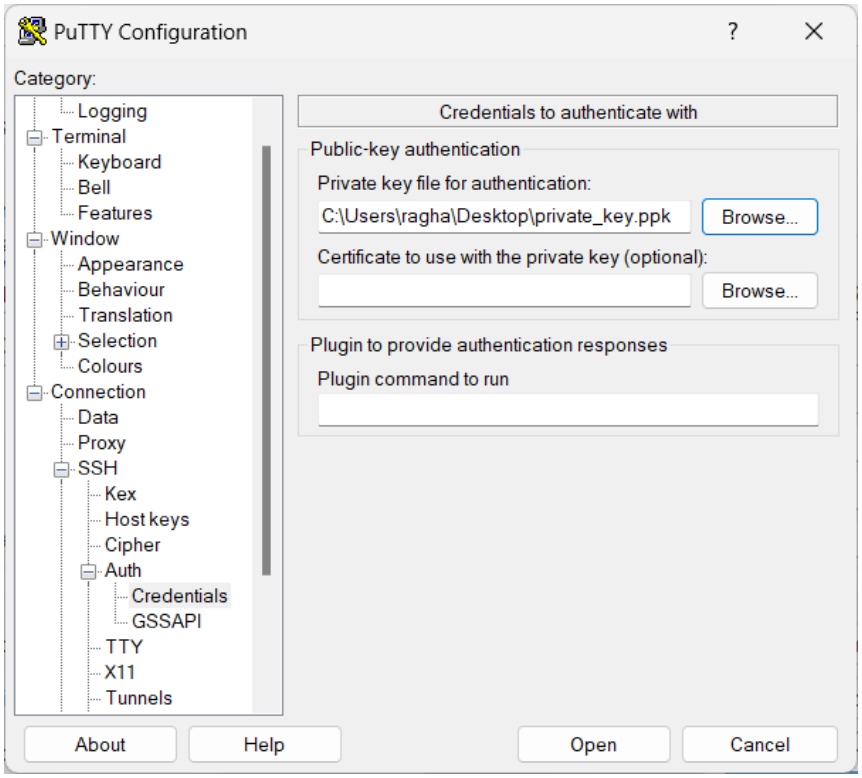
Step-7: In putty, put the Copied IP Adress into it, and then go to ssh->auth->credentials and the put the generated private key.

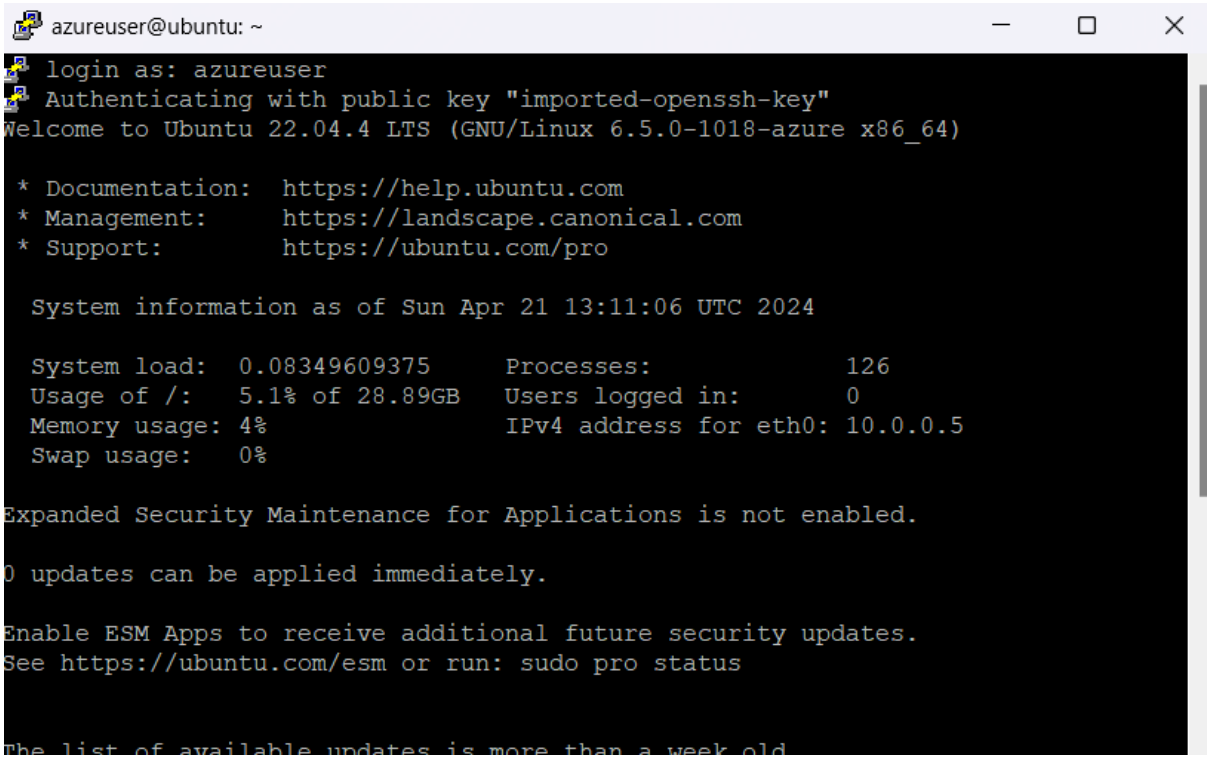
Step-8: A login page will be opened in that type your username and you will be into the ubuntu.
Step-9: After this delete its resource group and virtual machine.




Microsoft Azure
Search resources, services, and docs (G+/)
Home > Virtual machines >
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. For all your pricing needs, please use the pricing calculator.
Price
1 X Standard DS1 v2
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
6.9884 INR/hr
Pricing for other VM sizes
TERMS
Name
NAKKA RAGHAVI
< Previous
Next >
Create
Download a template for automation
Give feedback
Generate new key pair
An SSH key pair contains both a public key and a private key. Azure doesn't store the private key. After the SSH key resource is created, you won't be able to download the private key again. Learn more
Download private key and create resource
Return to create a virtual machine


PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABgQDo33GNEapcnLIOmbL0IFM8a9+jB6xHcopNmpHPsUCoIZcVWfFHEr/i6NPIAI
By1rhe5u4cSV/ca13WwiADQ05OAJdUZ0Eeyic+XRgOUg8Vu0ySnV3ry
+JO0b4wS3tMdlx8GA51Q0PJ
iVyQwKoj1p1K/BjSGYiloC6GI
Key fingerprint:
Key comment:
Key passphrase:
Confirm passphrase:
Actions
Generate a public/private key
Generate
Load an existing private key fi
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
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





Result: Above experiment is successfully executed and verified.

5) Create an instance in virtual machine and launch linux and windows server through Azure portal and transfer files from local machine to guest machine.

Linux:

Step-1: Create a ubuntu virtual machine using SSH as previous and copy public IP address.

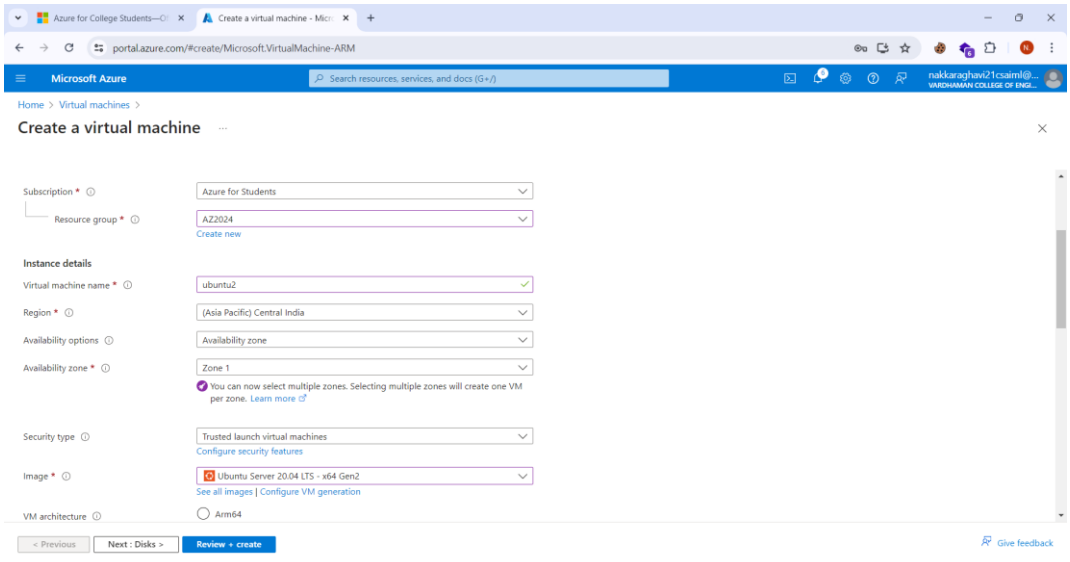
Step-2: Login into your ubuntu VM using PUTTY and type ls command as you can see nothing.

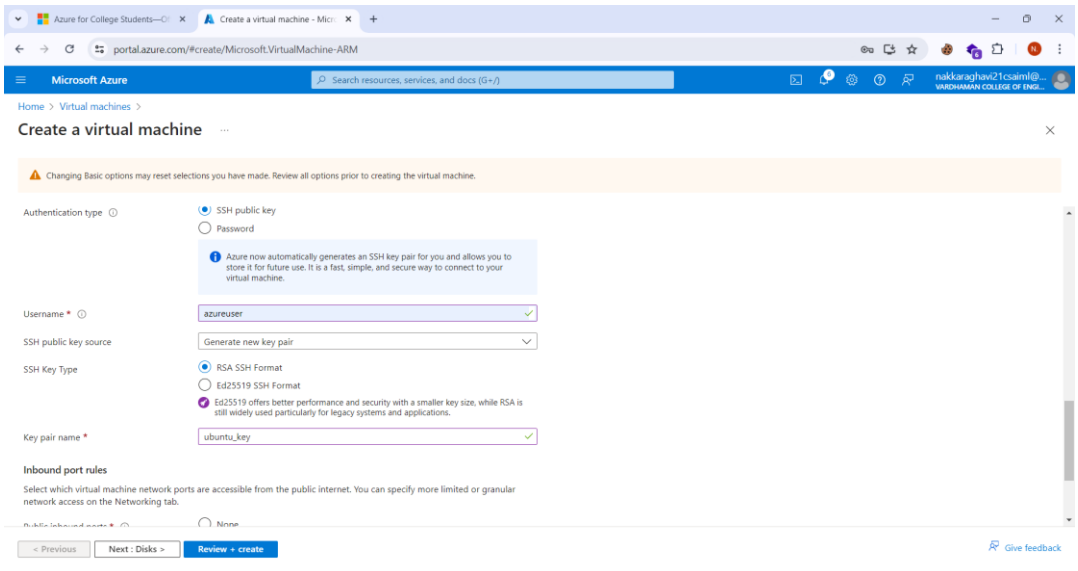
Step-3: Open WinScp, at right bottom you can see Advanced option ->SSH->Authentication->In that drag private key file and click on ok.

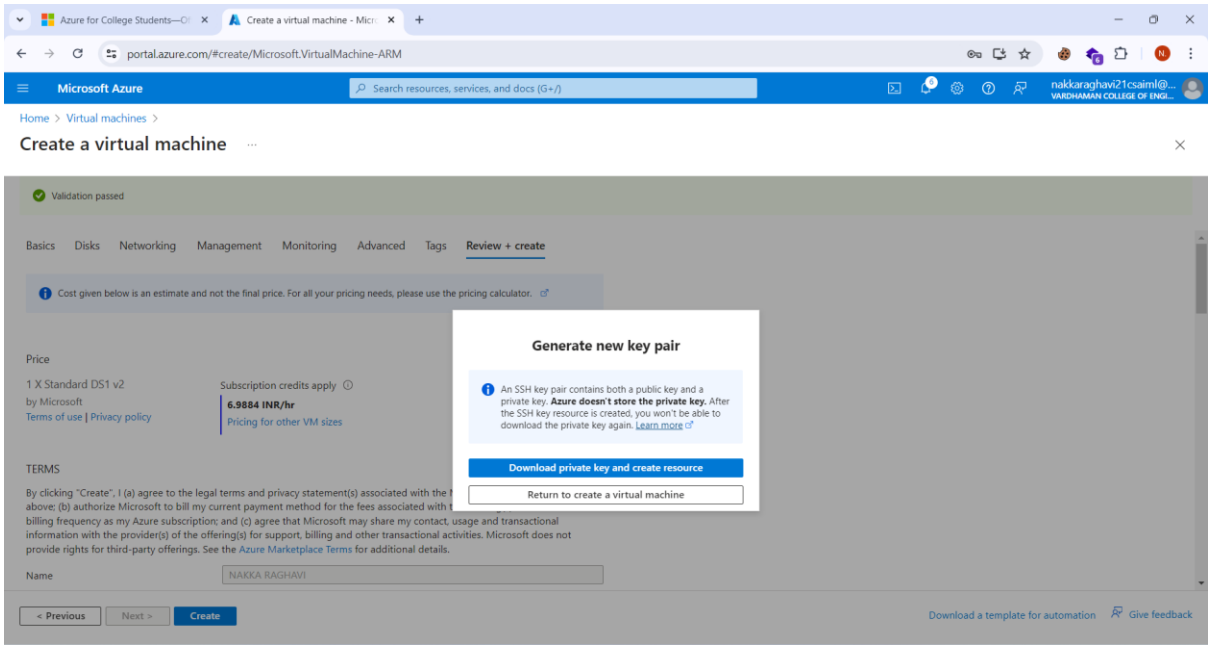
Step-4: At last Login into your account using public IP address and username in WinScp.

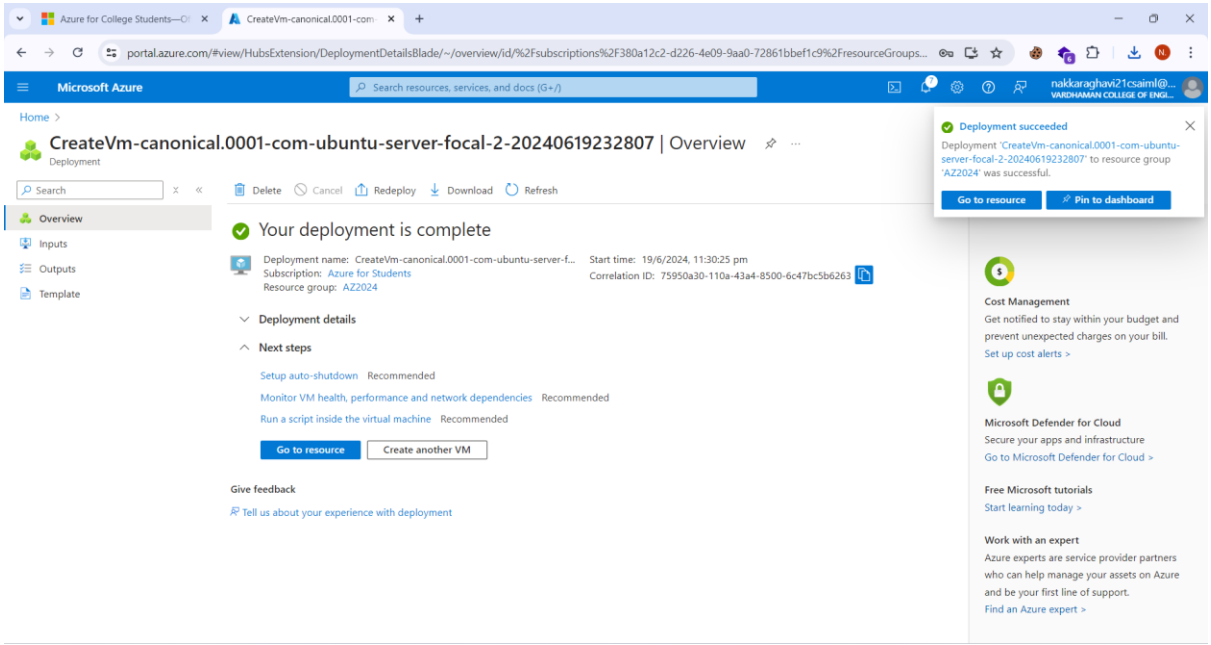
Step-6: Now, you can drag your files from your desktop to ubuntu VM in WinScp.

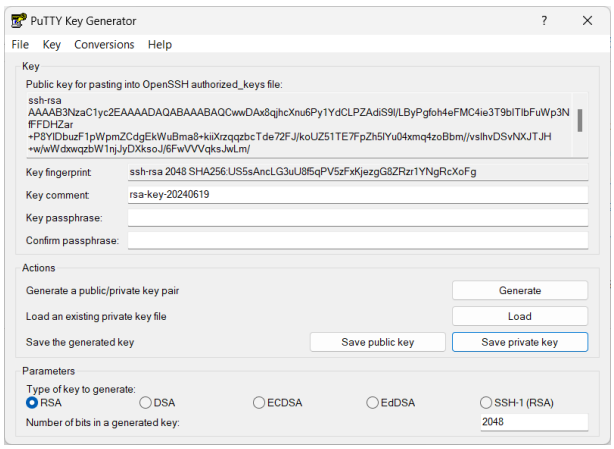
Step-7: Now again type ls command as you can see file inside ubuntu VM.

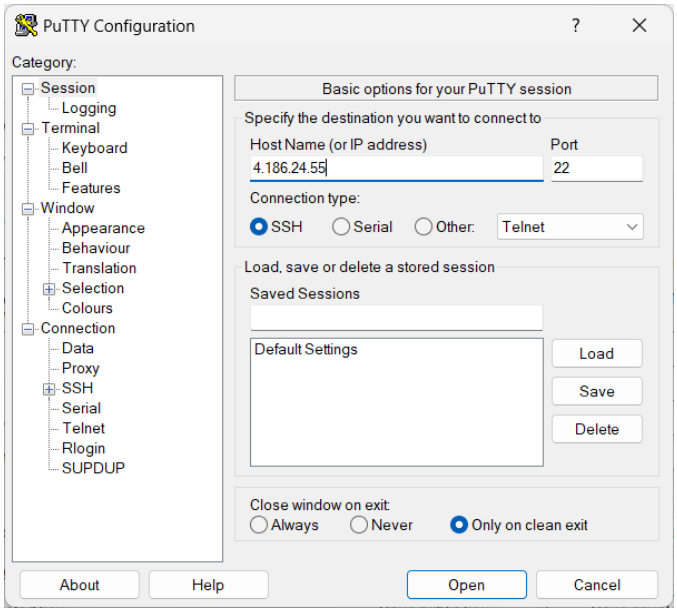


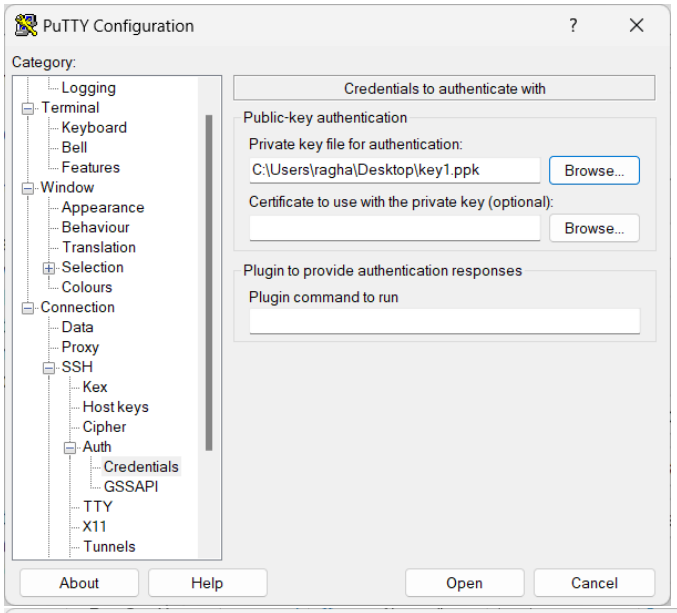


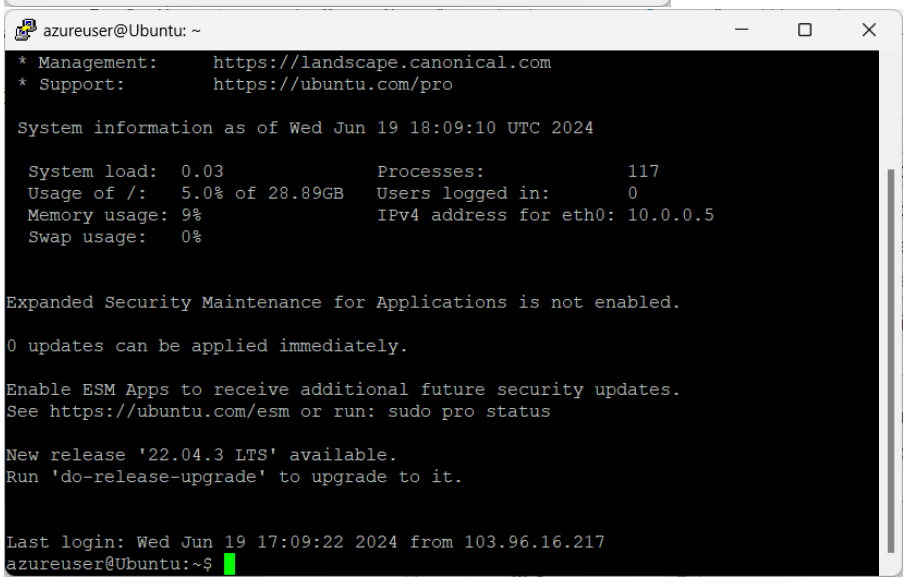

Microsoft Azure
Search resources, services, and docs (G+/)
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics Disks Networking Management Monitoring Advanced Tags Review + create
Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator.
Price
1 X Standard DS1 v2
by Microsoft
Terms of use | Privacy policy
Subscription credits apply
6.9884 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
above; (b) authorize Microsoft to bill my current payment method for the fees associated with t
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
NAKKA RAGHAVI
Generate new key pair
An SSH key pair contains both a public key and a private key. Azure doesn't store the private key. After the SSH key resource is created, you won't be able to download the private key again. Learn more
Download private key and create resource
Return to create a virtual machine
< Previous
Next >
Create
Download a template for automation
Give feedback

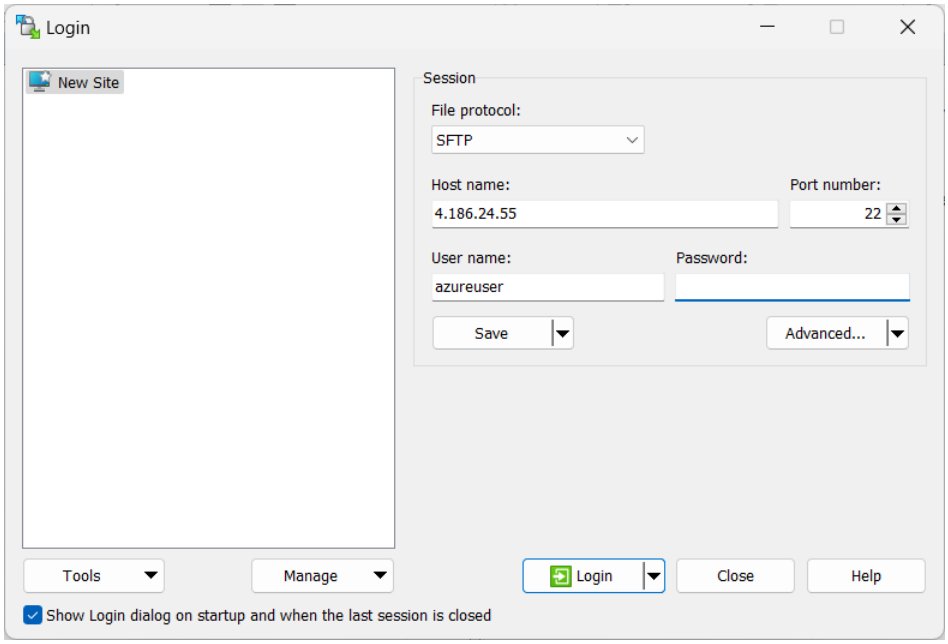

Microsoft Azure
Search resources, services, and docs (G+/)
Home >
CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240619232807 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f...
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 11:30:25 pm
Correlation ID: 75950a30-110a-43a4-8500-6c47bc5b6263
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-2-20240619232807' to resource group 'AZ2024' 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
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

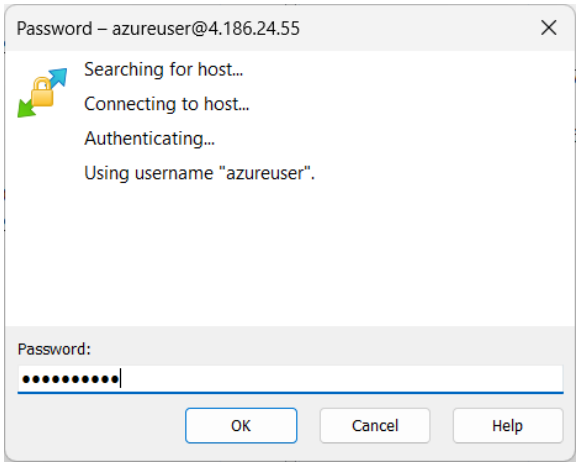

PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQCwwDAx8qjhcXnu6Py1YdCLPZAdiS9l/LByPgfoh4eFMC4ie3T9bITlbFuWp3N
fFFDHZar
+P8YlDbuzF1pWpmZCdgEkWuBma8+kiiXrzqqzbcTde72FJ/koUZ51TE7FpZh5lYu04xmq4zoBbm//vslhvDSvNXJTJH
+w/wWdxwqzbW1njJyDXksoJ/6FwVVVqksJwLm/
Key fingerprint: ssh-rsa 2048 SHA256:US5sAncLG3uU8f5qPV5zFxKjezgG8ZRzr1YNgRcXoFg
Key comment: rsa-key-20240619
Key passphrase:
Confirm passphrase:
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

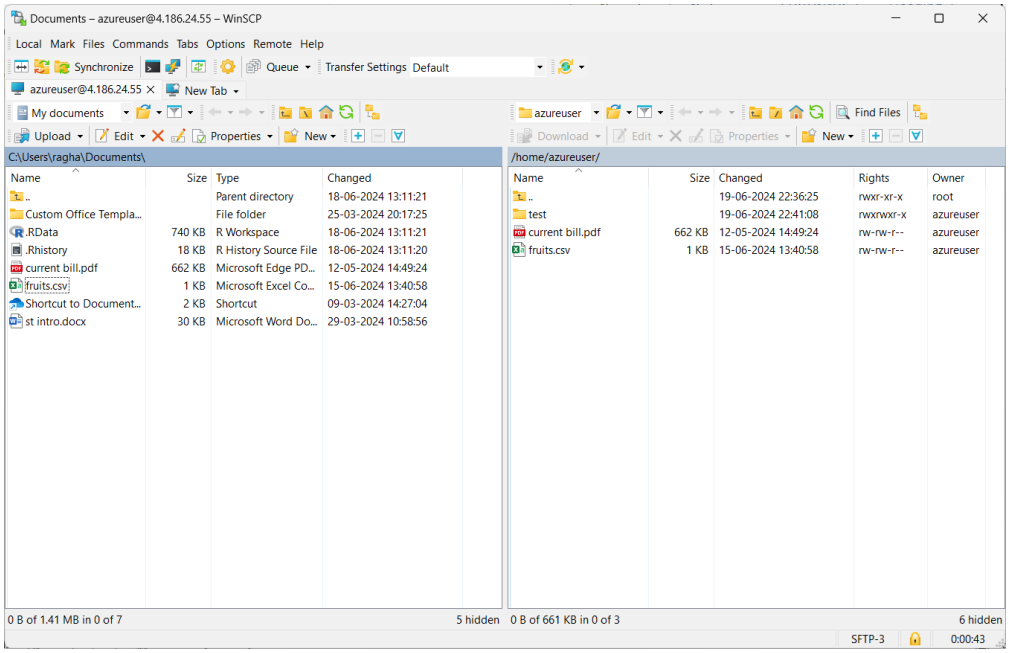

PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
SSH
Serial
Telnet
Rlogin
SUPDUP
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
4.186.24.55
22
Connection type:
SSH
Serial
Other:
Telnet
Load, save or delete a stored session
Saved Sessions
Default Settings
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Help
Open
Cancel


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
Credentials to authenticate with
Public-key authentication
Private key file for authentication:
C:\Users\ragha\Desktop\key1.ppk
Browse...
Certificate to use with the private key (optional):
Browse...
Plugin to provide authentication responses
Plugin command to run
About
Help
Open
Cancel


azureuser@Ubuntu: ~
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Wed Jun 19 18:09:10 UTC 2024
System load: 0.03
Usage of /: 5.0% of 28.89GB
Memory usage: 9%
Swap usage: 0%
Processes: 117
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
New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Wed Jun 19 17:09:22 2024 from 103.96.16.217
azureuser@Ubuntu:~$







Result: Above experiment is successfully executed and verified.

Windows:

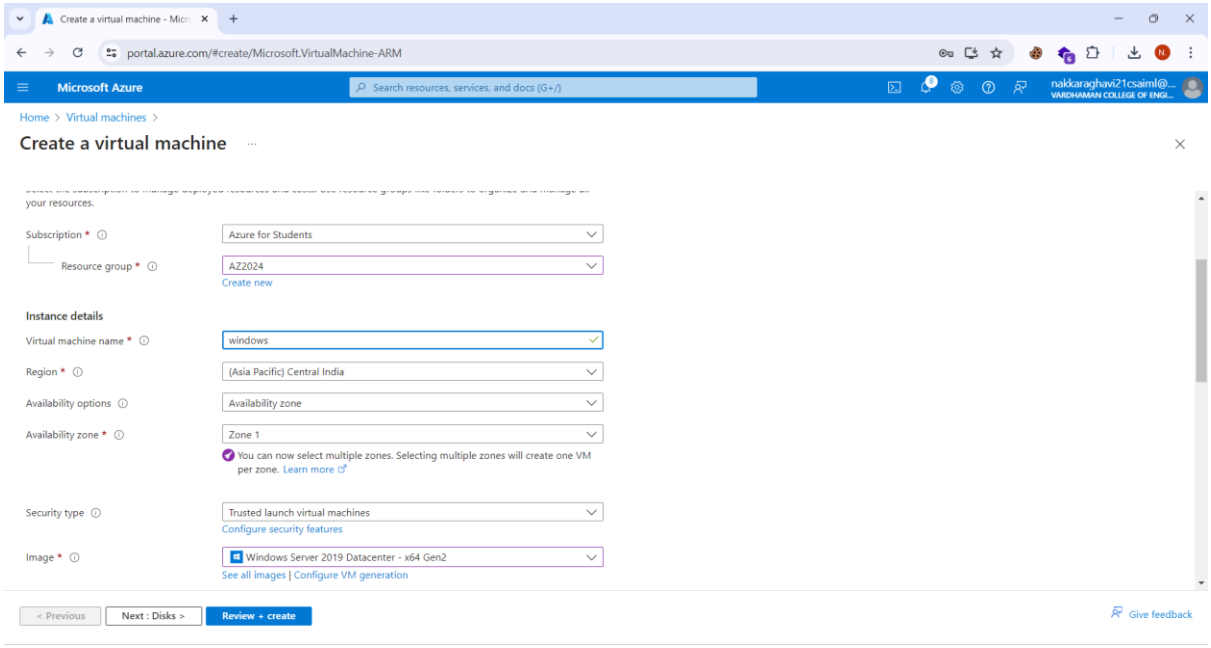
1. Login to Azure and create azure virtual machine.

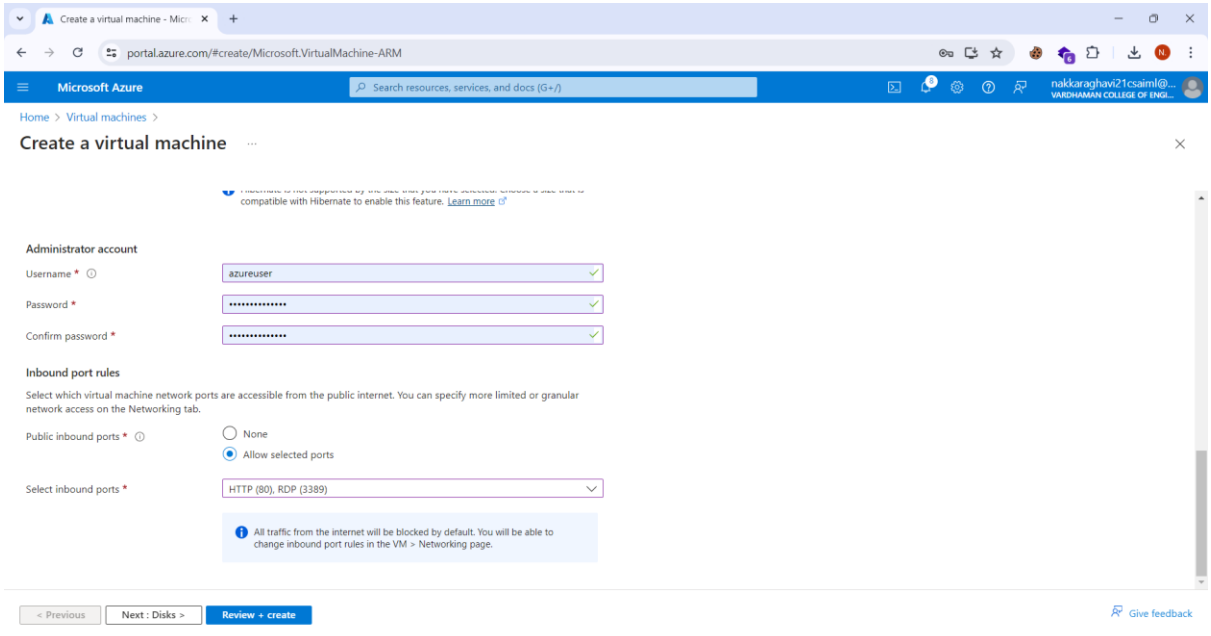
2. Fill the details in that window by creating a “Resource Group”, Zone: Asia, Image: window. click on “Create + Review”, click on “Create”

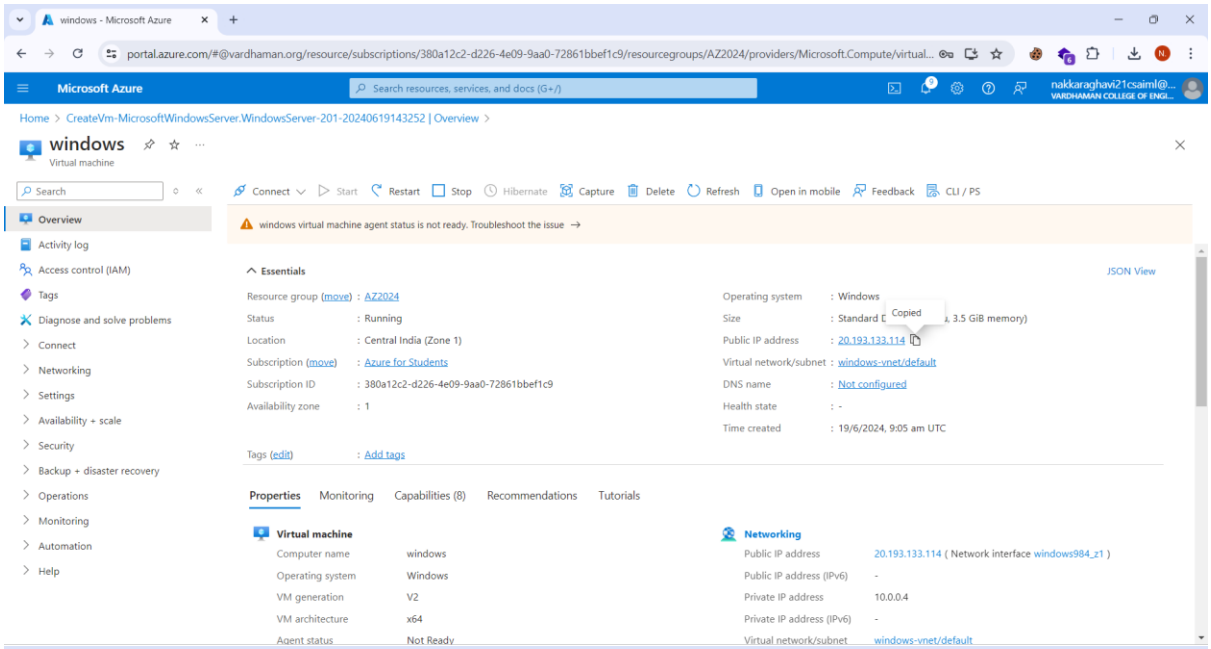
3. Copy public IP address and paste it in Remote Desktop Connection.

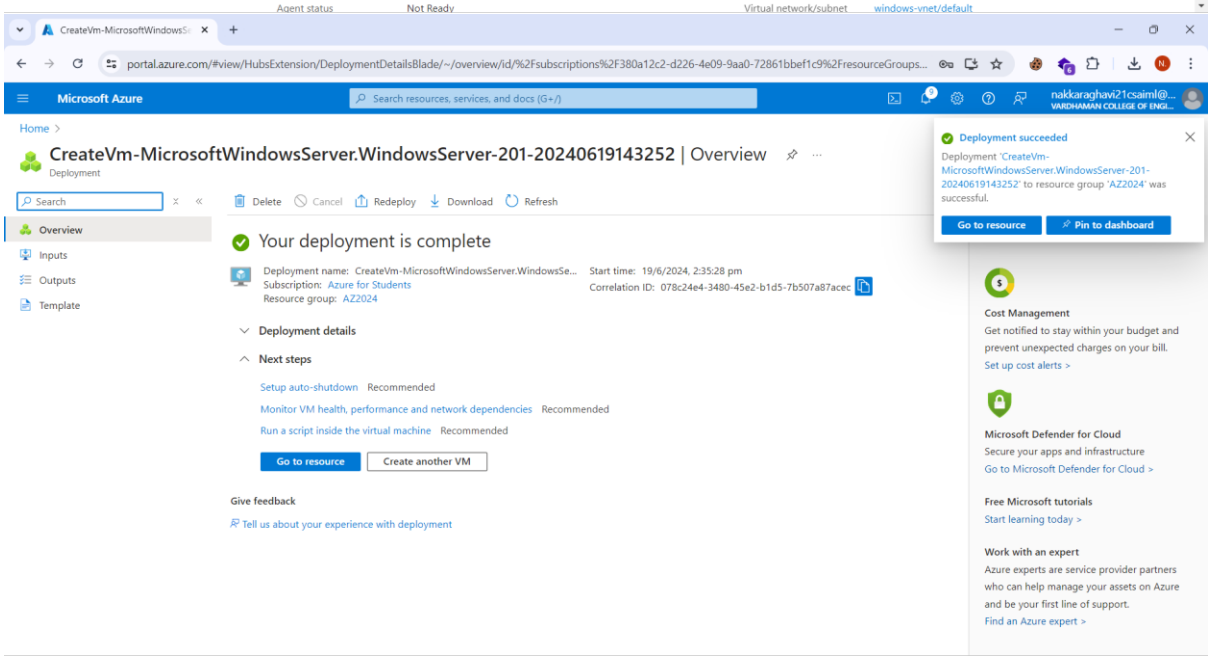
4. Click on connect.

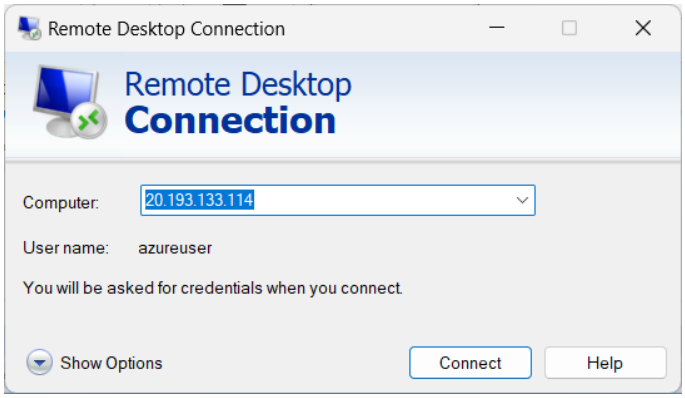
5. Copy files from our local Windows and paste it in guest machine.

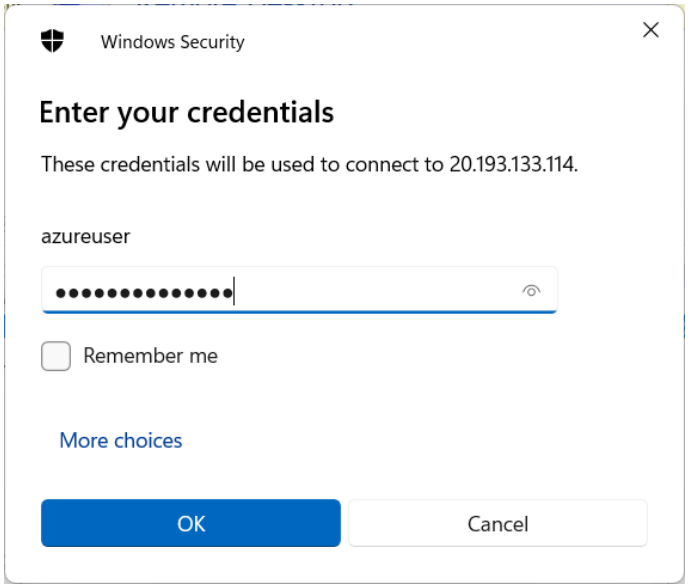


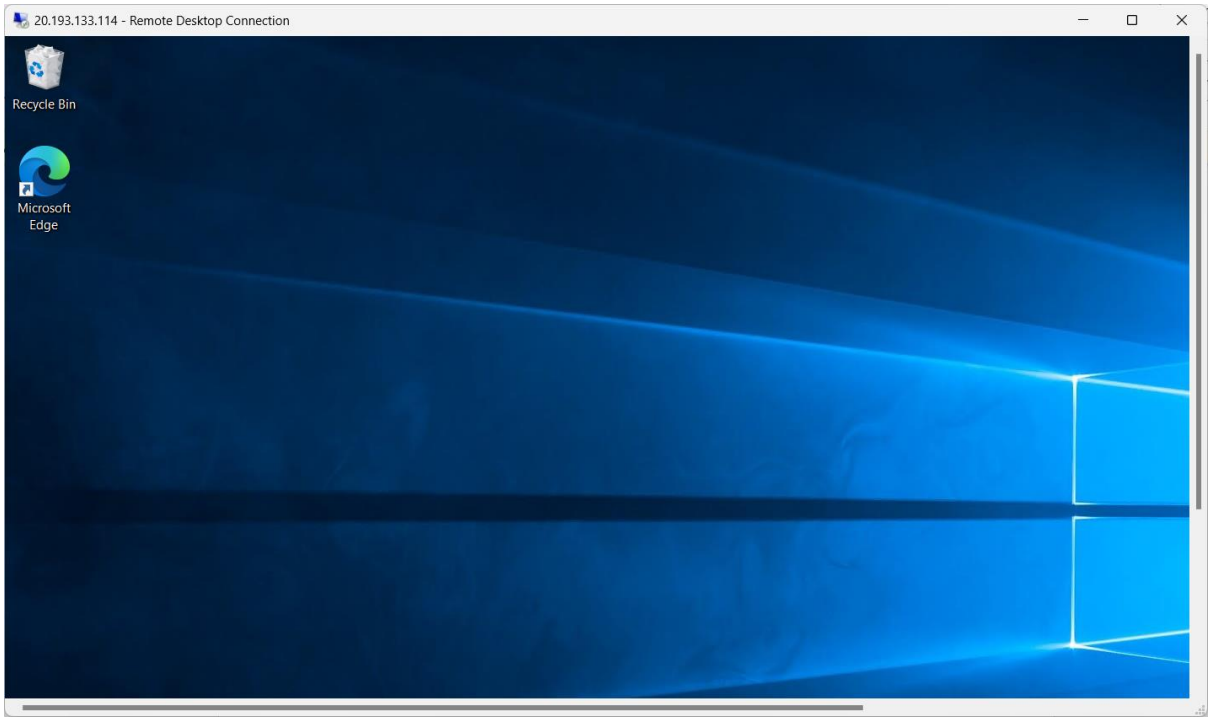


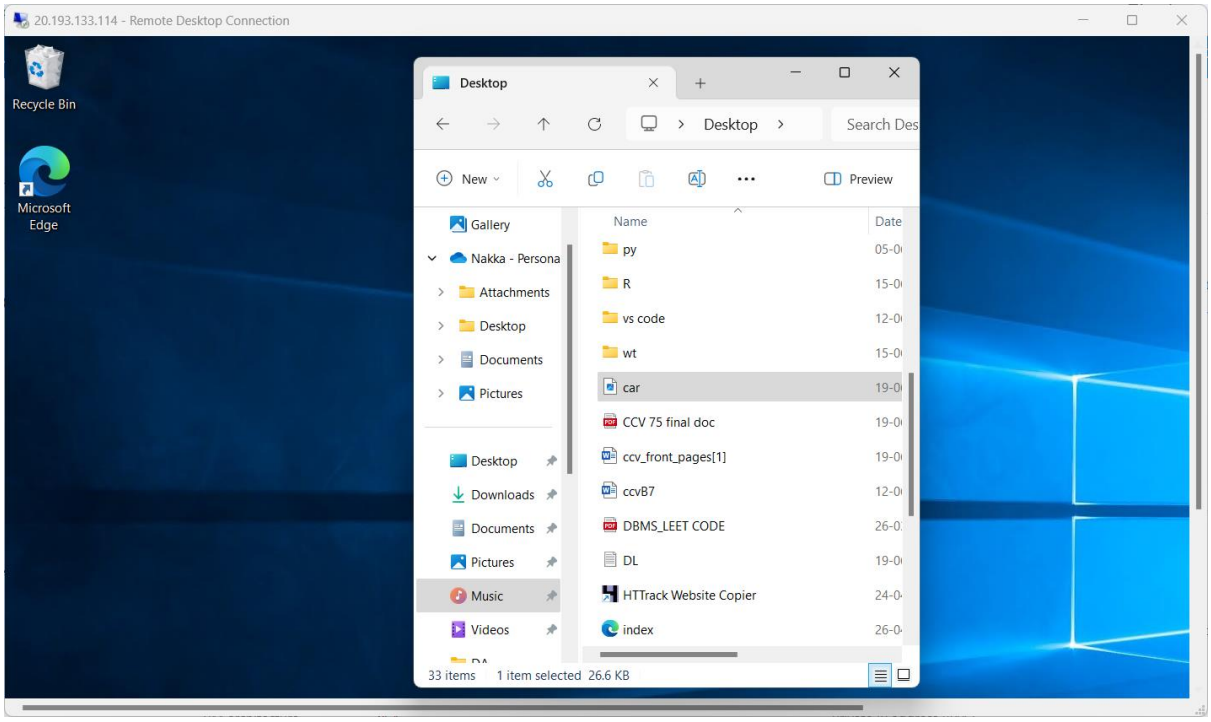

windows - Microsoft Azure
Microsoft Azure
Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619143252 | Overview >
windows
Virtual machine
Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS
windows virtual machine agent status is not ready. Troubleshoot the issue
Essentials
JSON View
Resource group (move) : AZ2024
Status : Running
Location : Central India (Zone 1)
Subscription (move) : Azure for Students
Subscription ID : 380a12c2-d226-4e09-9aa0-72861bbef1c9
Availability zone : 1
Operating system : Windows
Size : Standard D
Public IP address : 20.193.133.114
Virtual network/subnet : windows-vnet/default
DNS name : Not configured
Health state : -
Time created : 19/6/2024, 9:05 am UTC
Tags (edit) : Add tags
Properties Monitoring Capabilities (8) Recommendations Tutorials
Virtual machine
Computer name windows
Operating system Windows
VM generation V2
VM architecture x64
Networking
Public IP address 20.193.133.114 (Network interface windows984_z1)
Public IP address (IPv6) -
Private IP address 10.0.0.4
Private IP address (IPv6) -

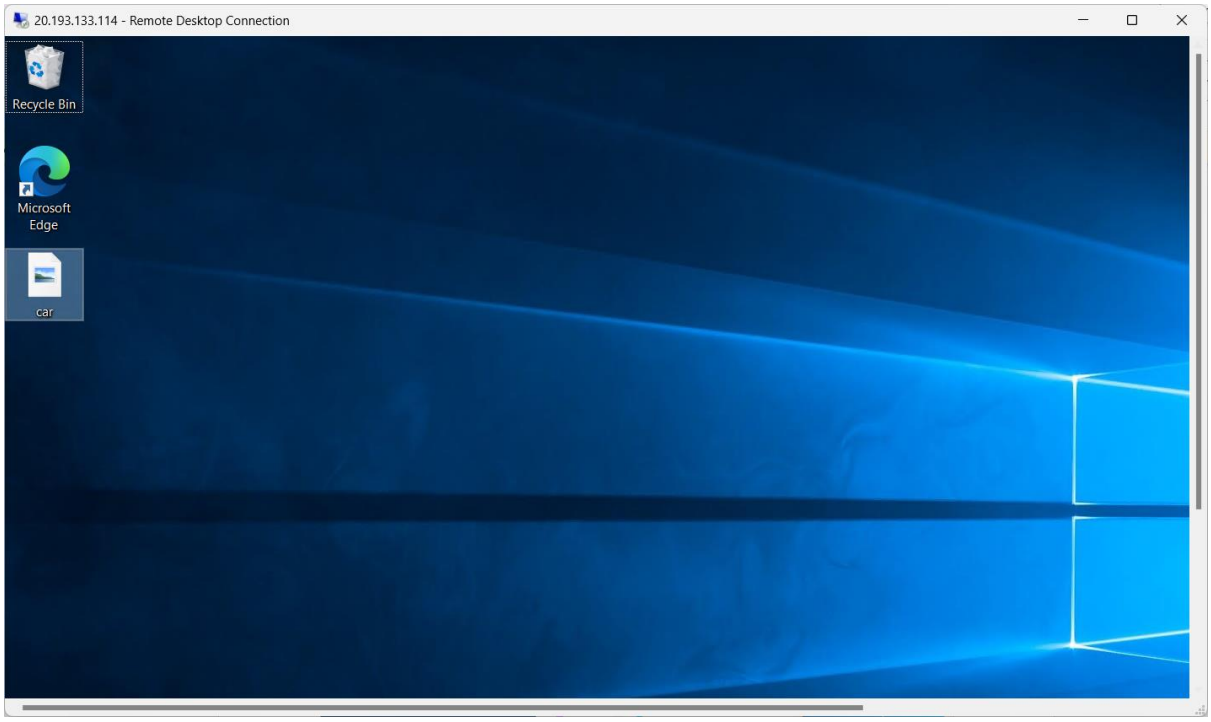

Microsoft Azure
Home >
CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619143252 | Overview
Deployment
Delete Cancel Redeploy Download Refresh
Overview
Inputs
Outputs
Template
Your deployment is complete
Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 2:35:28 pm
Correlation ID: 078c24e4-3480-45e2-b1d5-7b507a87acec
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-MicrosoftWindowsServer.WindowsServer-201-20240619143252' to resource group 'AZ2024' 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
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >


Remote Desktop Connection
Remote Desktop
Connection
Computer: 20.193.133.114
User name: azureuser
You will be asked for credentials when you connect.
Show Options
Connect
Help


Windows Security
Enter your credentials
These credentials will be used to connect to 20.193.133.114.
azureuser
Remember me
More choices
OK
Cancel


20.193.133.114 - Remote Desktop Connection
Recycle Bin
Microsoft Edge





Result: Above experiment is successfully executed and verified.

6) Setup and configure linux as webserver in azure portal i.e., nginx

1. Login to Azure account and Create a VM for ubuntu

2.Click on Download private key.

3. Create a ubuntu virtual machine using SSH as previous experiment and copy public IP address.

4. Login into your Ubuntu VM using your username and type the following commands.

$sudo su

$sudo apt-get update

After typing the two commands, now install web server using the below command

$sudo apt-get install nginx

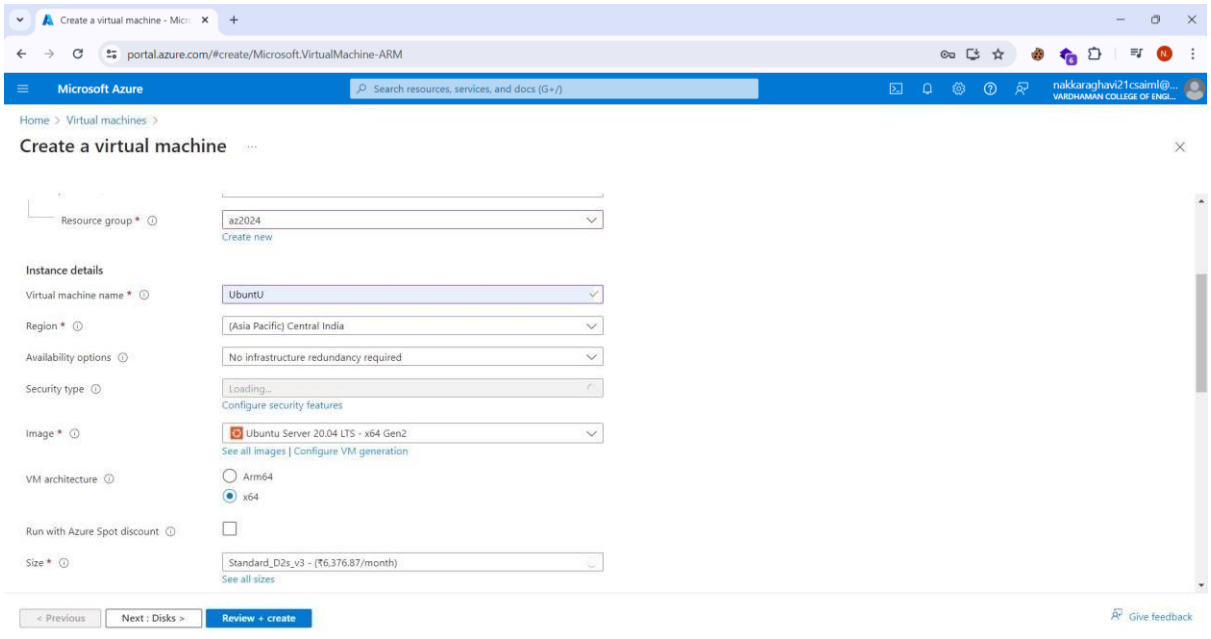
After installing in VM, paste the public IP address in desktop browser and you can see.

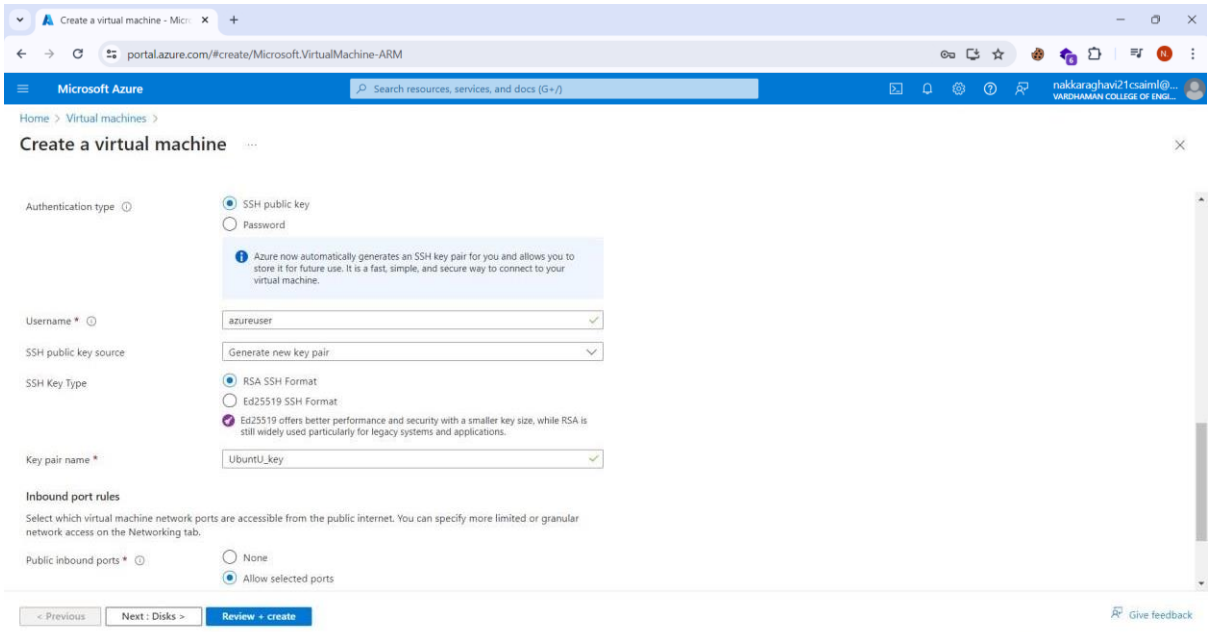
5. To remove following information and keep new information in that page type the following command and refresh the browser page.

$cd /var/www/html

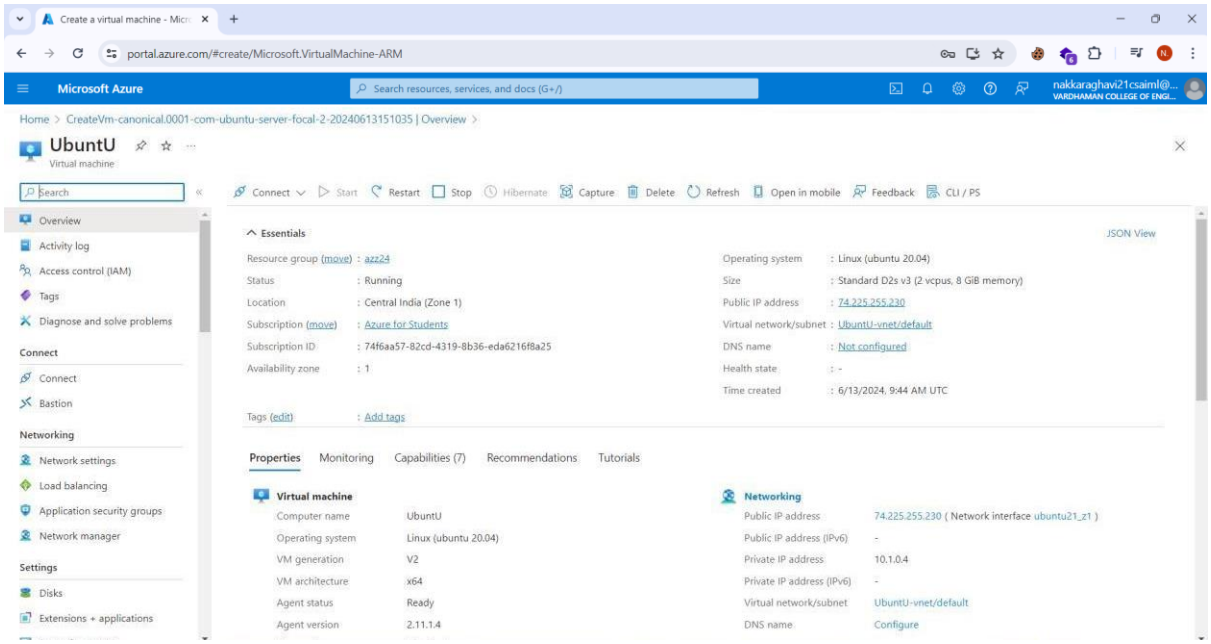
$rm index.nginx-debian.html

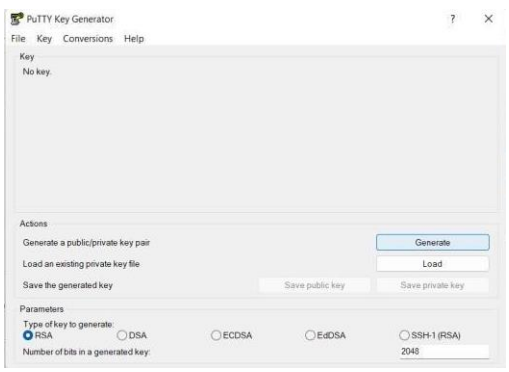
$echo “Welcome to CSM”>index.html

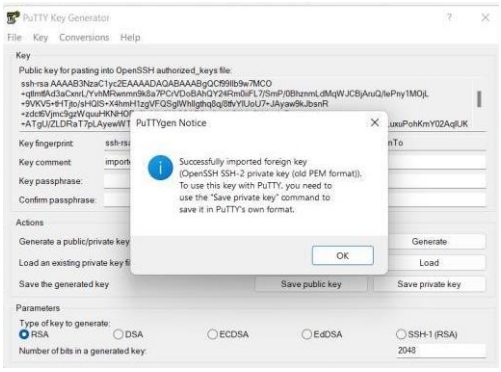



Create a virtual machine - Micr
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines >
Create a virtual machine
Authentication type
SSH public key
Password
Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.
Username *
azureuser
SSH public key source
Generate new key pair
SSH Key Type
RSA SSH Format
Ed25519 SSH Format
Ed25519 offers better performance and security with a smaller key size, while RSA is still widely used particularly for legacy systems and applications.
Key pair name *
UbuntU_key
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
< Previous
Next : Disks >
Review + create
Give feedback

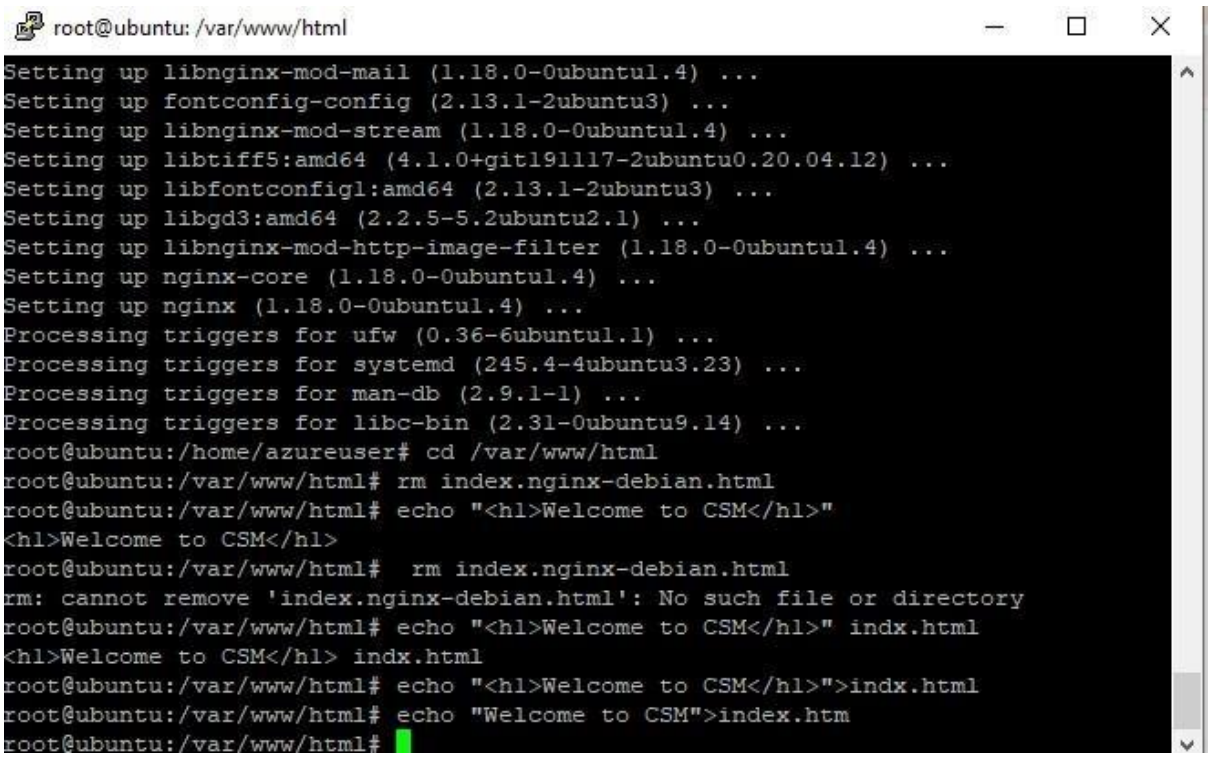

Generate new key pair
An SSH key pair contains both a public key and a private key. Azure doesn't store the private key. After the SSH key resource is created, you won't be able to download the private key again. Learn more
Download private key and create resource
Return to create a virtual machine

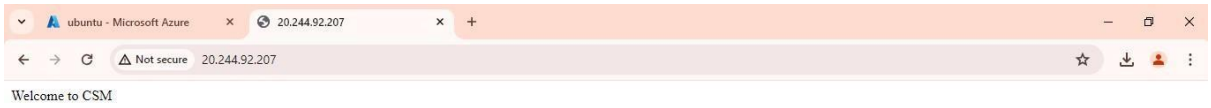

Create a virtual machine - Micr
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240613151035 | Overview >
UbuntU
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Connect
Bastion
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Disks
Extensions + applications
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : azz24
Status : Running
Location : Central India (Zone 1)
Subscription (move) : Azure for Students
Subscription ID : 74f6aa57-82cd-4319-8b36-eda6216f8a25
Availability zone : 1
Operating system : Linux (ubuntu 20.04)
Size : Standard D2s v3 (2 vcpus, 8 GiB memory)
Public IP address : 74.225.255.230
Virtual network/subnet : UbuntU-vnet/default
DNS name : Not configured
Health state : -
Time created : 6/13/2024, 9:44 AM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name UbuntU
Operating system Linux (ubuntu 20.04)
VM generation V2
VM architecture x64
Agent status Ready
Agent version 2.11.1.4
Networking
Public IP address 74.225.255.230 (Network interface ubuntu21_z1)
Public IP address (IPv6) -
Private IP address 10.1.0.4
Private IP address (IPv6) -
Virtual network/subnet UbuntU-vnet/default
DNS name Configure


PuTTY Key Generator
File Key Conversions Help
Key
No key.
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 Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
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
Key fingerprint:
Key comment:
Key passphrase:
Confirm passphrase:
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


ubuntu - Microsoft Azure
Welcome to nginx!
Not secure
20.244.92.207
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.


root@ubuntu: /var/www/html
Setting up libnginx-mod-mail (1.18.0-0ubuntu1.4) ...
Setting up fontconfig-config (2.13.1-2ubuntu3) ...
Setting up libnginx-mod-stream (1.18.0-0ubuntu1.4) ...
Setting up libtiff5:amd64 (4.1.0+git191117-2ubuntu0.20.04.12) ...
Setting up libfontconfig1:amd64 (2.13.1-2ubuntu3) ...
Setting up libgd3:amd64 (2.2.5-5.2ubuntu2.1) ...
Setting up libnginx-mod-http-image-filter (1.18.0-0ubuntu1.4) ...
Setting up nginx-core (1.18.0-0ubuntu1.4) ...
Setting up nginx (1.18.0-0ubuntu1.4) ...
Processing triggers for ufw (0.36-6ubuntu1.1) ...
Processing triggers for systemd (245.4-4ubuntu3.23) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.14) ...
root@ubuntu:/home/azureuser# cd /var/www/html
root@ubuntu:/var/www/html# rm index.nginx-debian.html
root@ubuntu:/var/www/html# echo "<h1>Welcome to CSM</h1>"
<h1>Welcome to CSM</h1>
root@ubuntu:/var/www/html# rm index.nginx-debian.html
rm: cannot remove 'index.nginx-debian.html': No such file or directory
root@ubuntu:/var/www/html# echo "<h1>Welcome to CSM</h1>" indx.html
<h1>Welcome to CSM</h1> indx.html
root@ubuntu:/var/www/html# echo "<h1>Welcome to CSM</h1>">indx.html
root@ubuntu:/var/www/html# echo "Welcome to CSM">index.htm
root@ubuntu:/var/www/html#



Result: Above experiment is successfully executed and verified.

7) Setup and configure azure webserver for windows IIS- Internet Information Services.

1. Login to Azure and create a Virtual machine.

2. Copy public IP address and paste it in Remote Desktop Connection.

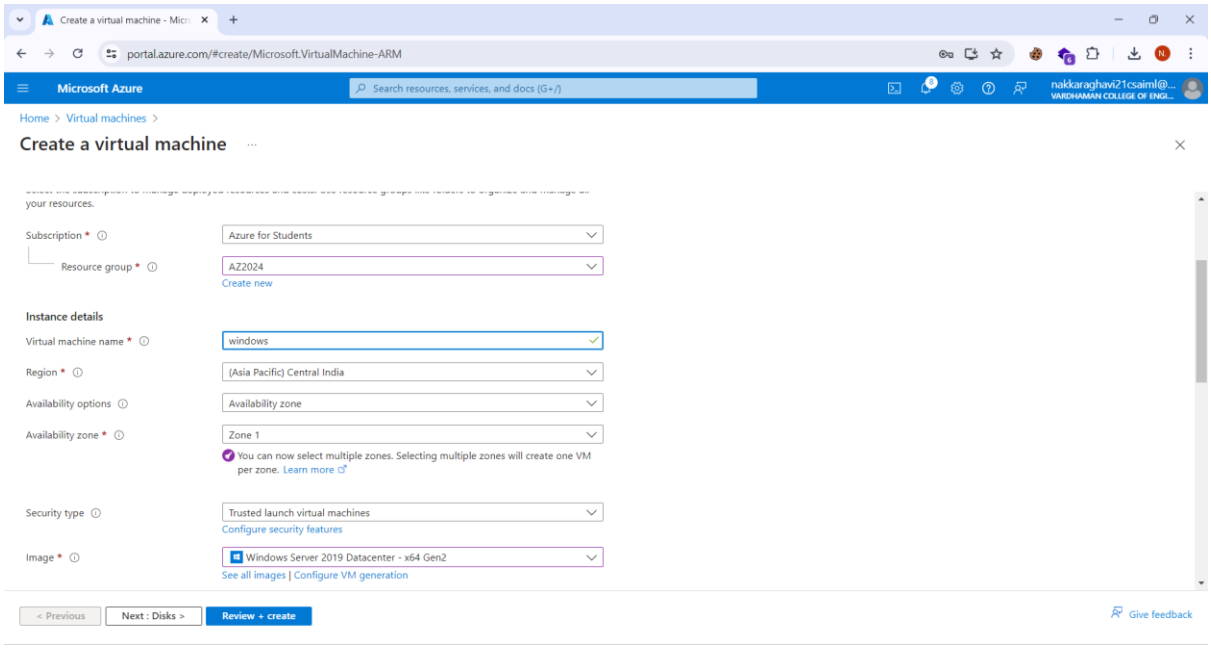
3. After launching windows 7, server manager opens automatically.

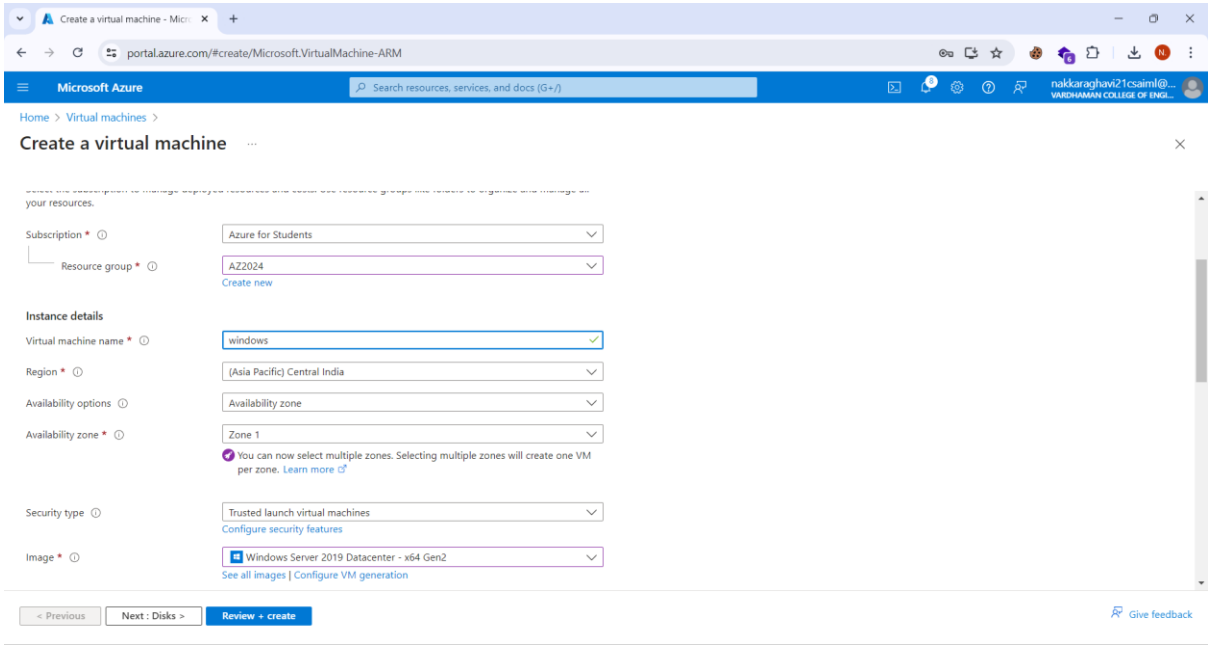
4. Server Manager -> Dashboard -> Add Roles and Features -> install IIS.

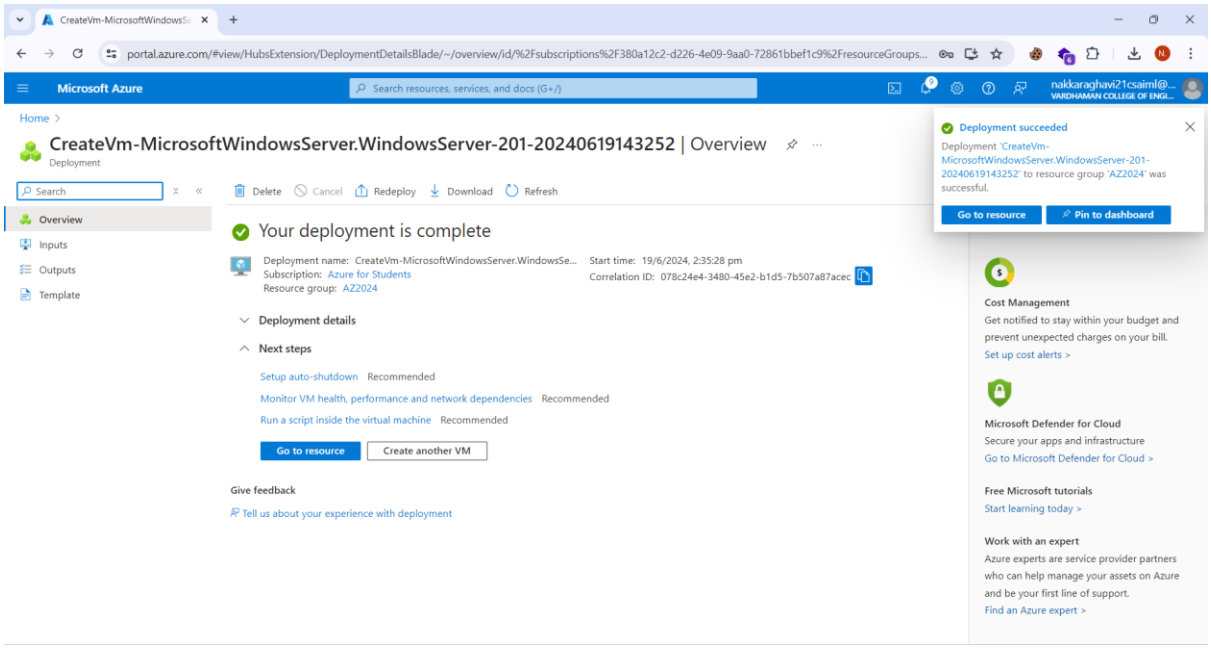
5. Select a sever -> Select web server (IIS) -> next -> next -> next -> Install.

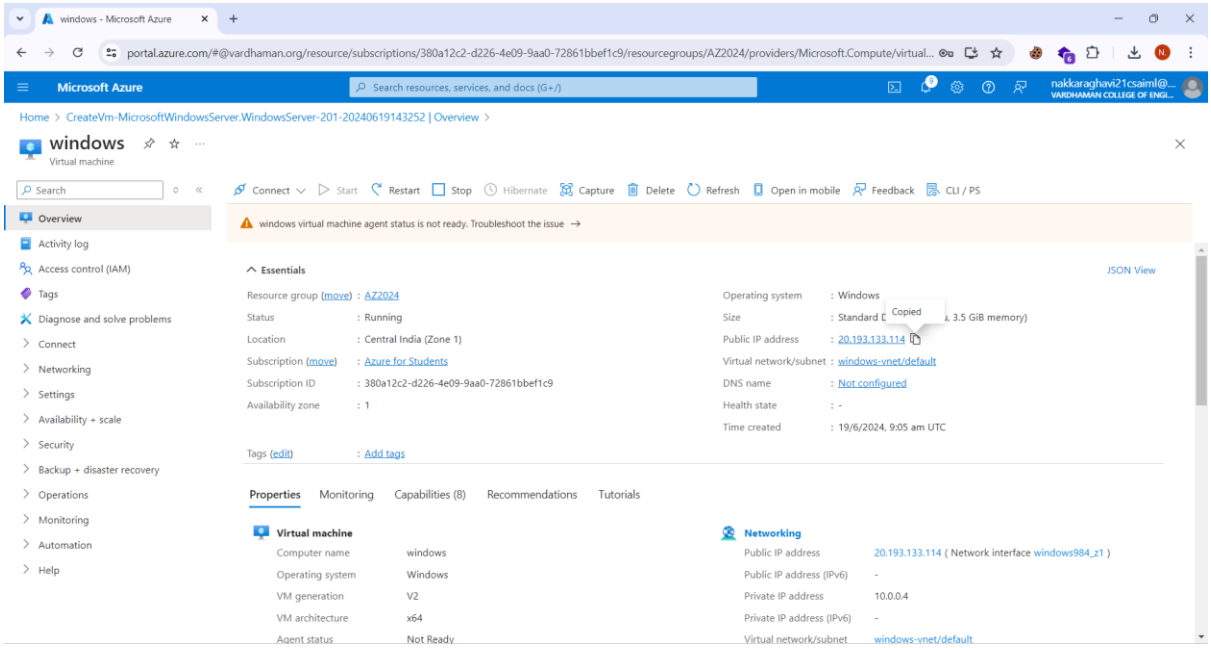
6. After completion of installation, refresh the VM in azure.

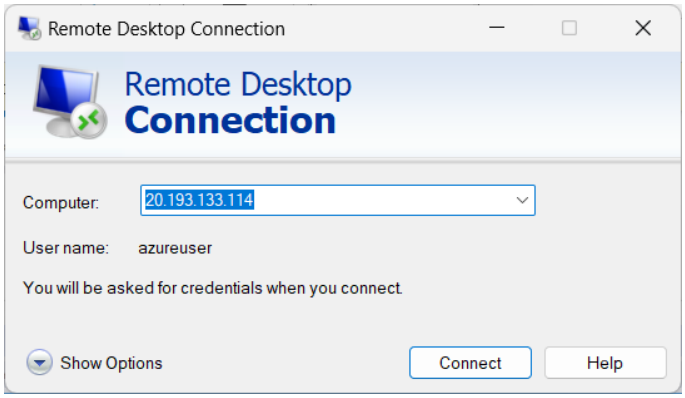
7. Copy public IP address and paste it in browser, we can get IIS.

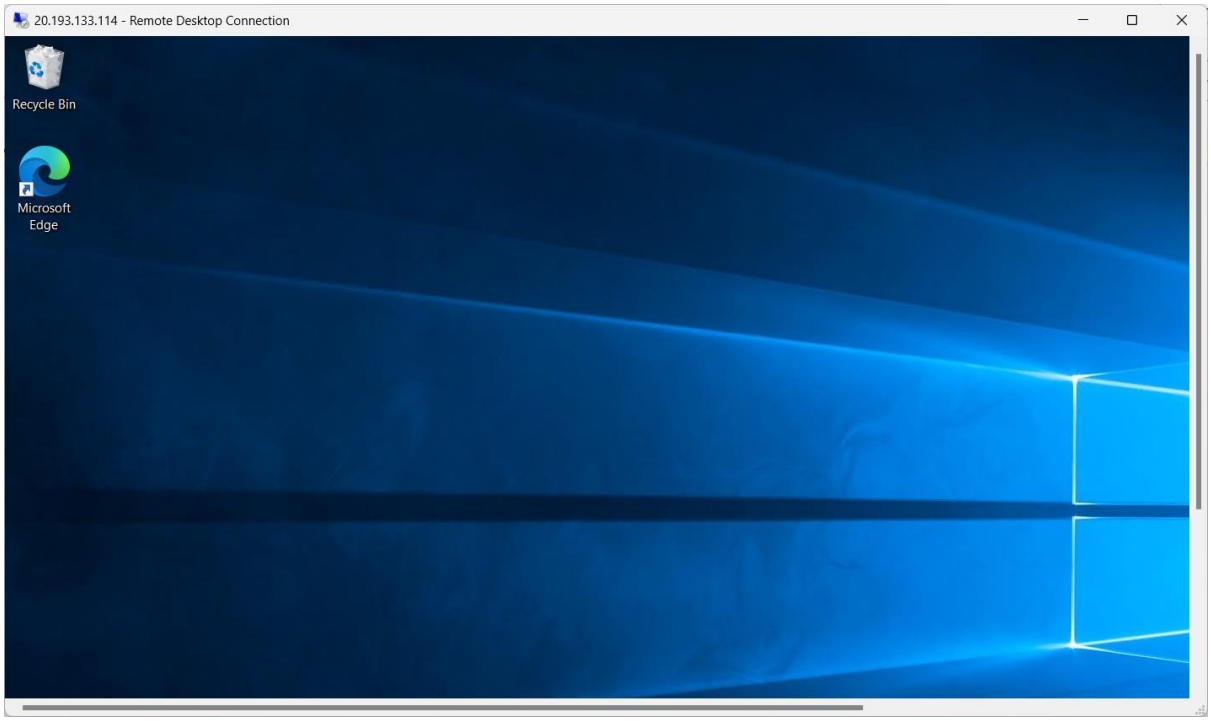


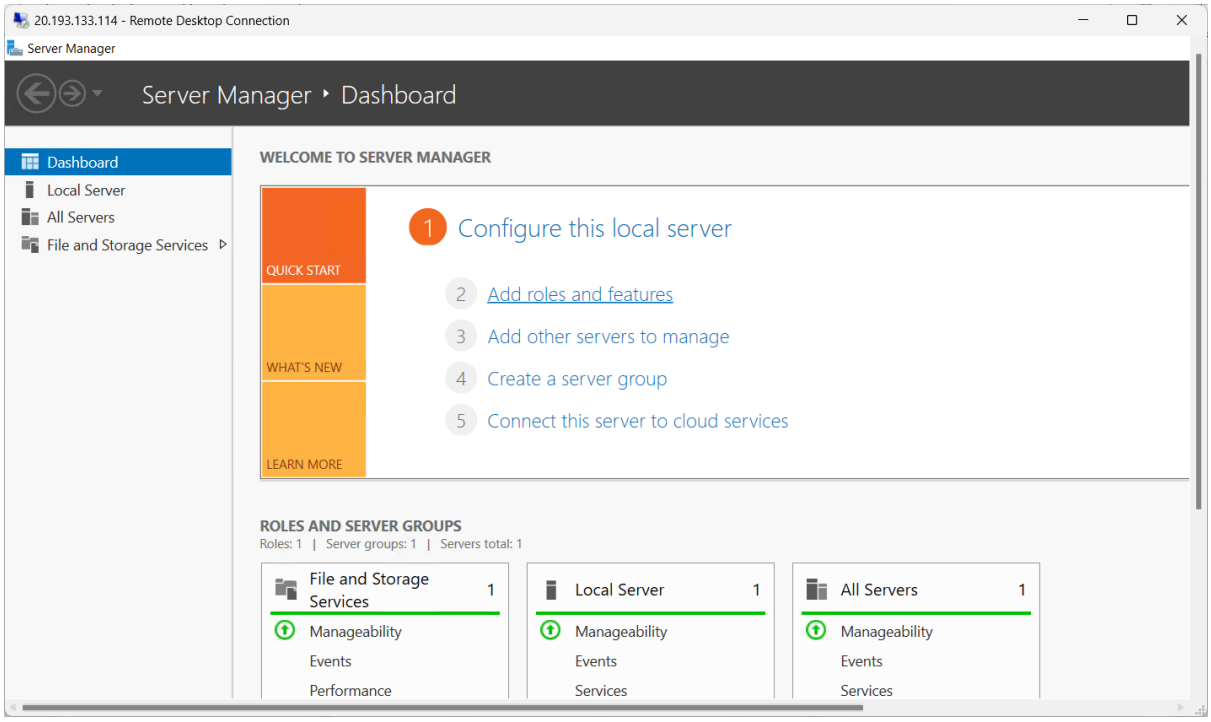


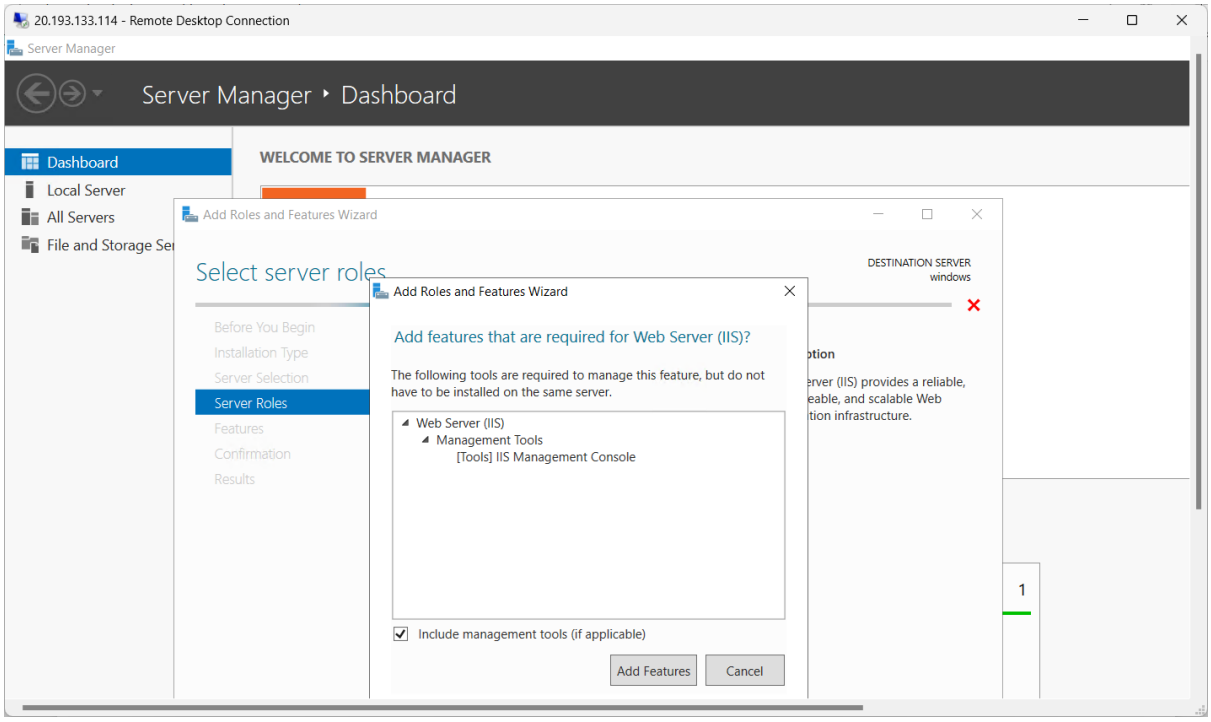

Microsoft Azure
Search resources, services, and docs (G+/)
Home >
CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619143252 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 2:35:28 pm
Correlation ID: 078c24e4-3480-45e2-b1d5-7b507a87acec
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-MicrosoftWindowsServer.WindowsServer-201-20240619143252' to resource group 'AZ2024' 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
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

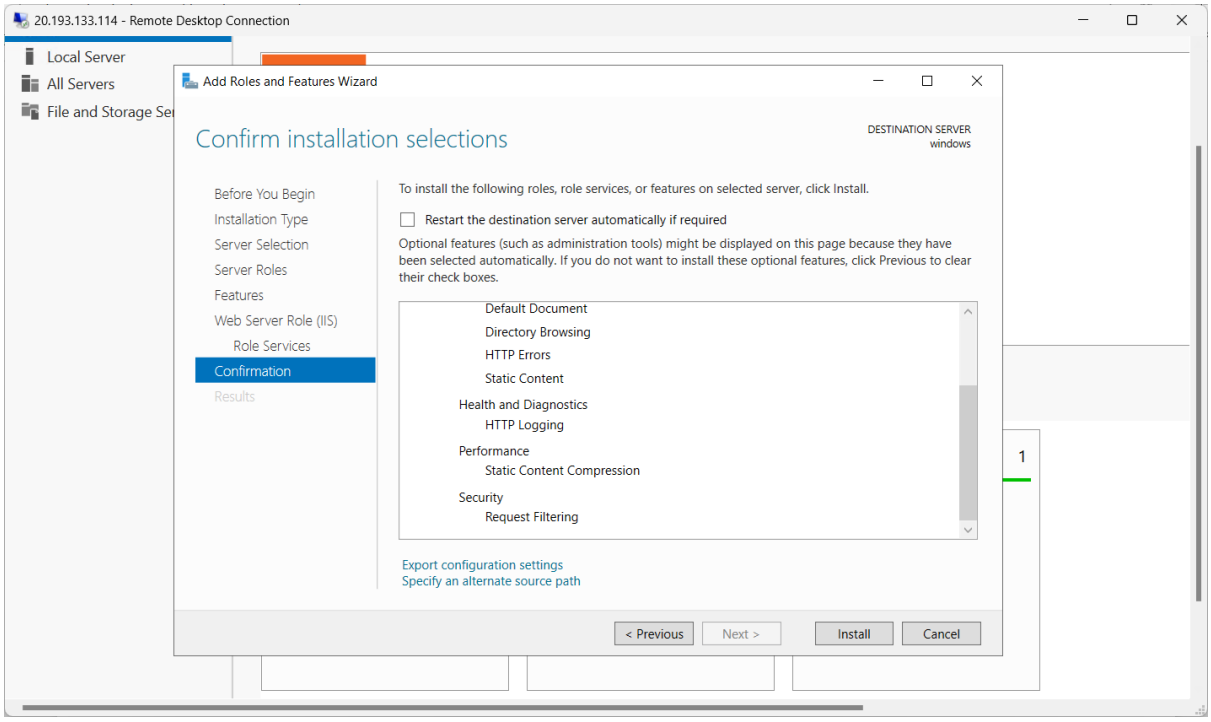

Microsoft Azure
Search resources, services, and docs (G+/)
Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619143252 | Overview >
windows
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
windows virtual machine agent status is not ready. Troubleshoot the issue
Essentials
JSON View
Resource group (move) : AZ2024
Status : Running
Location : Central India (Zone 1)
Subscription (move) : Azure for Students
Subscription ID : 380a12c2-d226-4e09-9aa0-72861bbef1c9
Availability zone : 1
Operating system : Windows
Size : Standard
Public IP address : 20.193.133.114
Virtual network/subnet : windows-vnet/default
DNS name : Not configured
Health state : -
Time created : 19/6/2024, 9:05 am UTC
Copied
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (8)
Recommendations
Tutorials
Virtual machine
Computer name windows
Operating system Windows
VM generation V2
VM architecture x64
Agent status Not Ready
Networking
Public IP address 20.193.133.114 (Network interface windows984_z1)
Public IP address (IPv6) -
Private IP address 10.0.0.4
Private IP address (IPv6) -
Virtual network/subnet windows-vnet/default

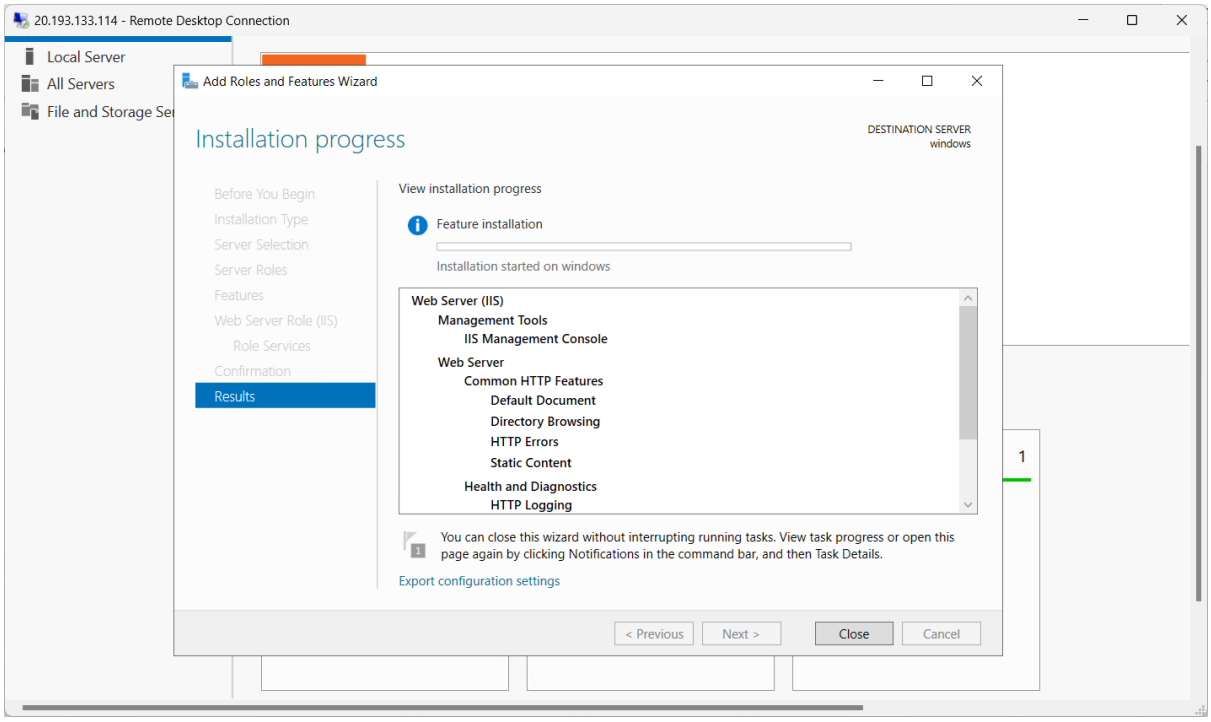

Remote Desktop Connection
Remote Desktop
Connection
Computer:
20.193.133.114
User name:
azureuser
You will be asked for credentials when you connect.
Show Options
Connect
Help

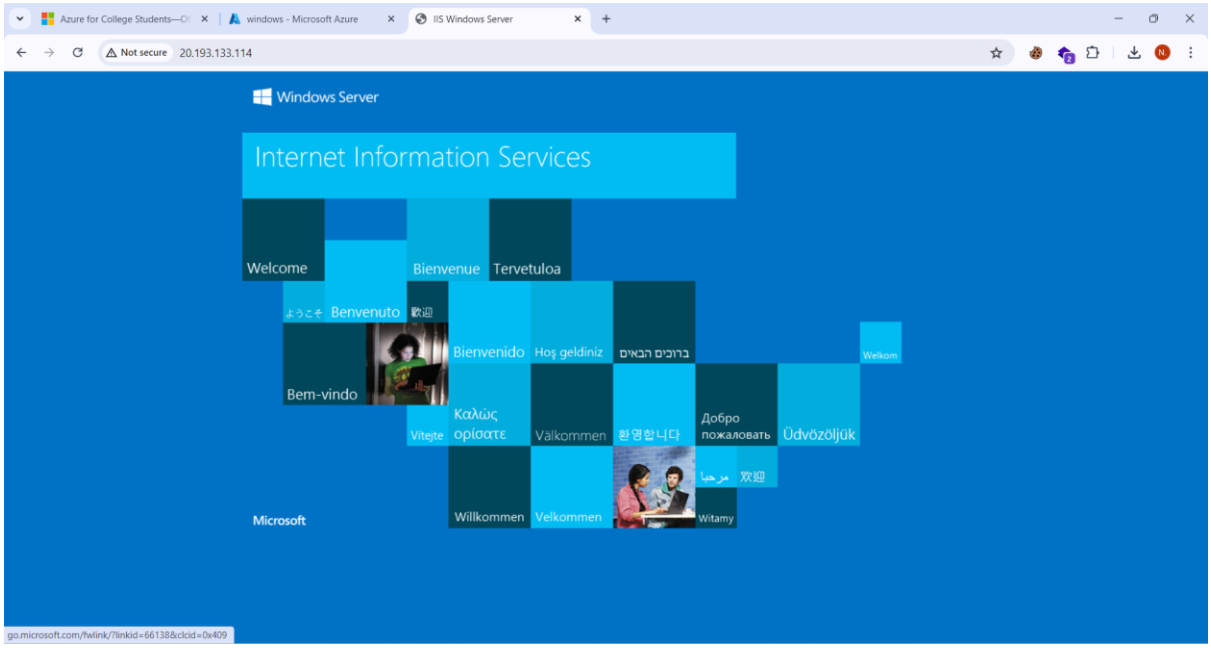

20.193.133.114 - Remote Desktop Connection
Recycle Bin
Microsoft Edge


20.193.133.114 - Remote Desktop Connection
Server Manager
Server Manager ‣ Dashboard
Dashboard
Local Server
All Servers
File and Storage Services
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
5 Connect this server to cloud services
ROLES AND SERVER GROUPS
Roles: 1 | Server groups: 1 | Servers total: 1
File and Storage Services 1
Manageability
Events
Performance
Local Server 1
Manageability
Events
Services
All Servers 1
Manageability
Events
Services


20.193.133.114 - Remote Desktop Connection
Server Manager
Server Manager ‣ Dashboard
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
windows
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Add Roles and Features Wizard
Add features that are required for Web Server (IIS)?
The following tools are required to manage this feature, but do not have to be installed on the same server.
Web Server (IIS)
Management Tools
[Tools] IIS Management Console
Include management tools (if applicable)
Add Features
Cancel
1


20.193.133.114 - Remote Desktop Connection
Local Server
All Servers
File and Storage Se
Add Roles and Features Wizard
Confirm installation selections
DESTINATION SERVER
windows
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 clear their check boxes.
Default Document
Directory Browsing
HTTP Errors
Static Content
Health and Diagnostics
HTTP Logging
Performance
Static Content Compression
Security
Request Filtering
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Cancel
1





Result: Above experiment is successfully executed and verified.

8) Implement locks in Microsoft Azure

Steps:

Step-1: Sign in to your Microsoft Azure account.

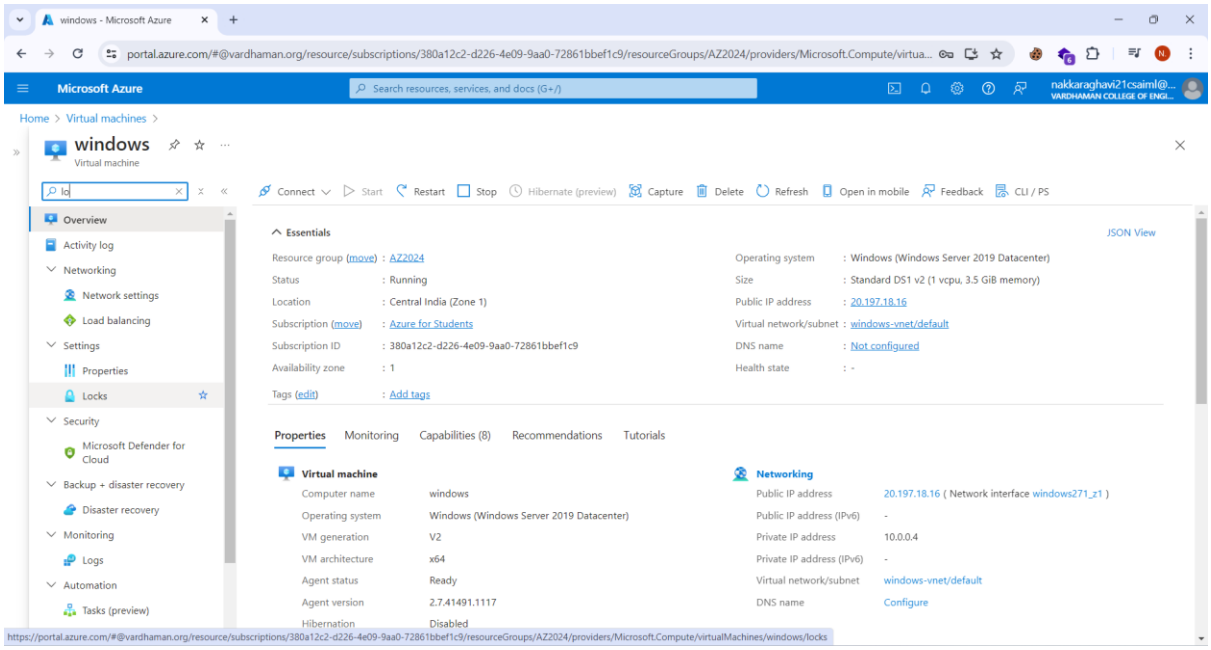
Step-2: Go To Virtual machine, and click on “Create” to create a virtual machine.

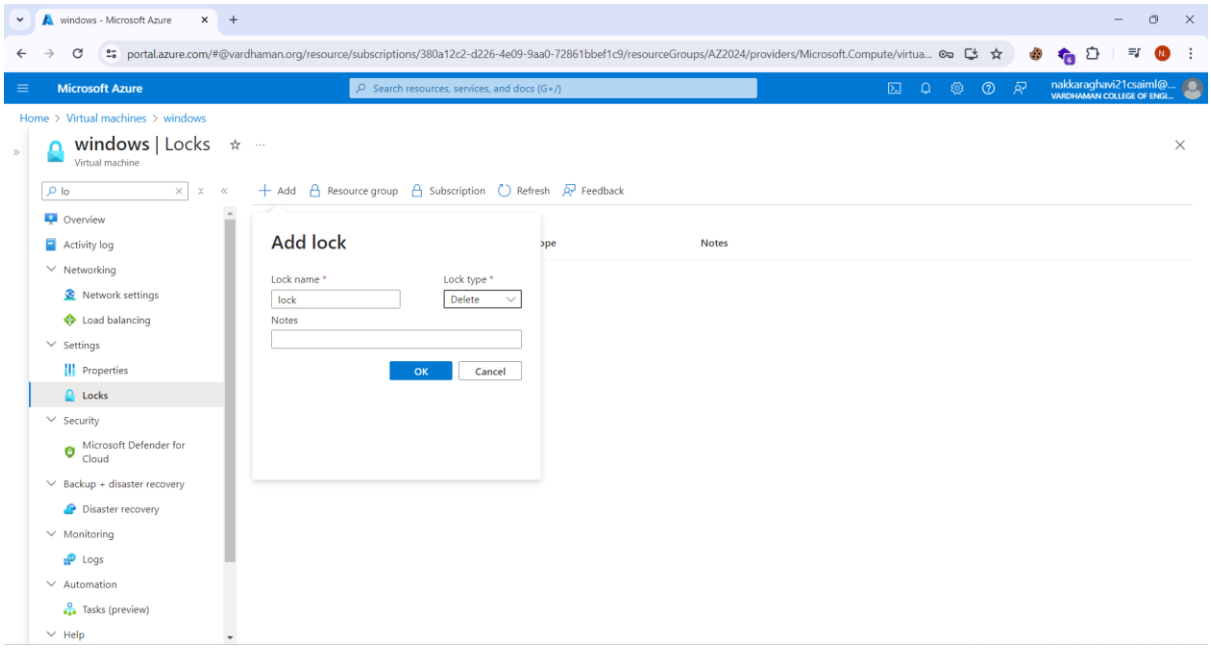
Step-3: Stop the VM service to lock it.

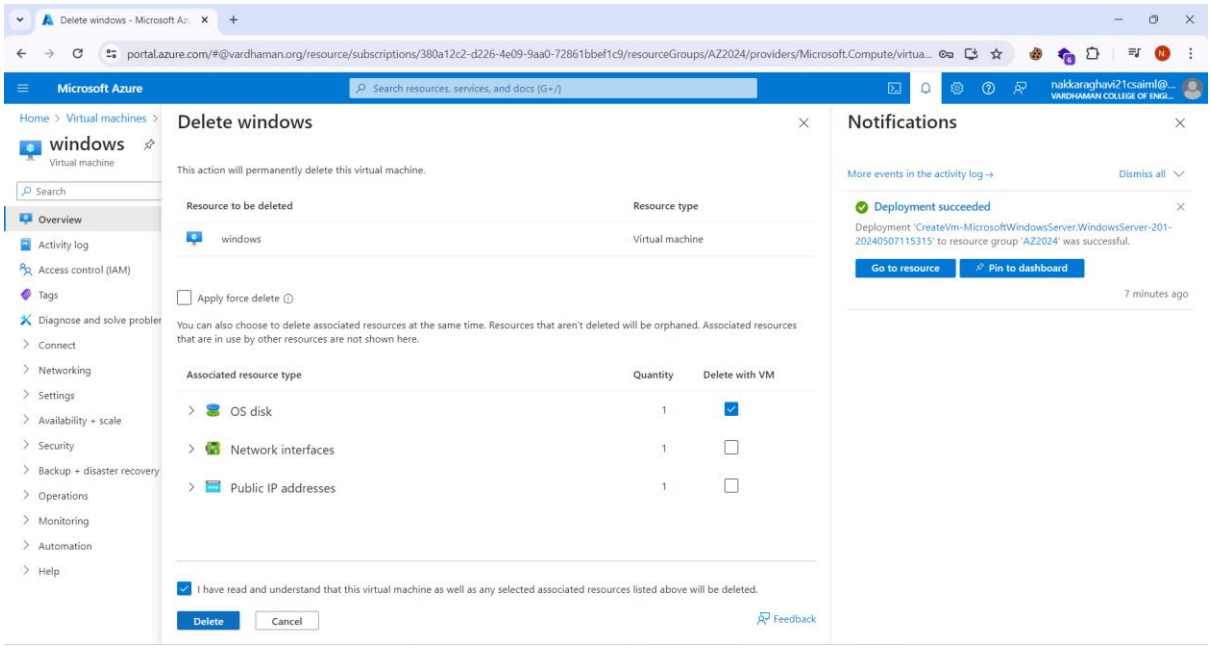
Step-4: Search for the LOCK on left hand side in the path of Virtual machine.

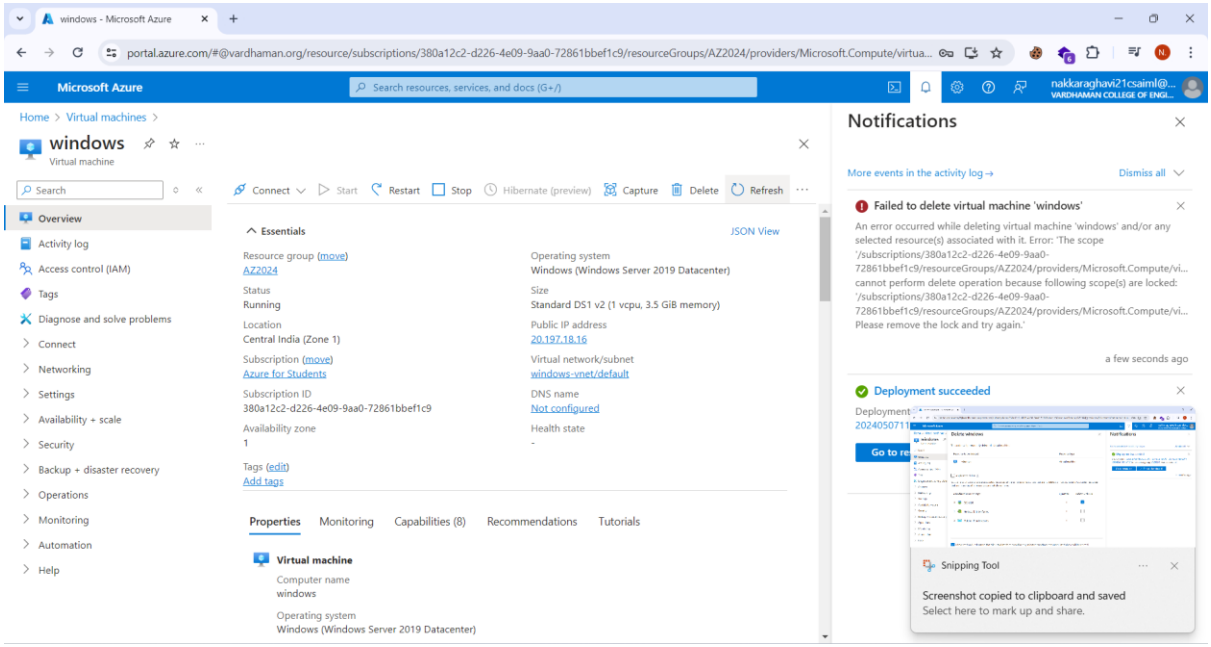
Step-5: Give the name to lock by selecting “Read only/delete” as lock type. Click on create.

Step-6: Go to home and start the Virtual machine, try to delete it, but fails.






Delete windows - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroups/AZ2024/providers/Microsoft.Compute/virtua...
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines >
windows
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve proble
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Delete windows
This action will permanently delete this virtual machine.
Resource to be deleted
Resource type
windows
Virtual machine
Apply force delete
You can also choose to delete associated resources at the same time. Resources that aren't deleted will be orphaned. Associated resources that are in use by other resources are not shown here.
Associated resource type
Quantity
Delete with VM
OS disk
1
Network interfaces
1
Public IP addresses
1
I have read and understand that this virtual machine as well as any selected associated resources listed above will be deleted.
Delete
Cancel
Feedback
Notifications
More events in the activity log →
Dismiss all
Deployment succeeded
Deployment 'CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240507115315' to resource group 'AZ2024' was successful.
Go to resource
Pin to dashboard
7 minutes ago


windows - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroups/AZ2024/providers/Microsoft.Compute/virtua...
Microsoft Azure
Search resources, services, and docs (G+/)
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VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines >
windows
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Connect
Start
Restart
Stop
Hibernate (preview)
Capture
Delete
Refresh
Essentials
JSON View
Resource group (move)
AZ2024
Status
Running
Location
Central India (Zone 1)
Subscription (move)
Azure for Students
Subscription ID
380a12c2-d226-4e09-9aa0-72861bbef1c9
Availability zone
1
Tags (edit)
Add tags
Operating system
Windows (Windows Server 2019 Datacenter)
Size
Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address
20.197.18.16
Virtual network/subnet
windows-vnet/default
DNS name
Not configured
Health state
-
Properties
Monitoring
Capabilities (8)
Recommendations
Tutorials
Virtual machine
Computer name
windows
Operating system
Windows (Windows Server 2019 Datacenter)
Notifications
More events in the activity log →
Dismiss all
Failed to delete virtual machine 'windows'
An error occurred while deleting virtual machine 'windows' and/or any selected resource(s) associated with it. Error: 'The scope '/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroups/AZ2024/providers/Microsoft.Compute/vi... cannot perform delete operation because following scope(s) are locked: '/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroups/AZ2024/providers/Microsoft.Compute/vi... Please remove the lock and try again.'
a few seconds ago
Deployment succeeded
Snipping Tool
Screenshot copied to clipboard and saved
Select here to mark up and share.

9) Perform Scaling up and scaling down in azure portal

Steps:

Step-1: Select a virtual machine created

Step-2: Check the size

Step-3: Stop the service of virtual machine

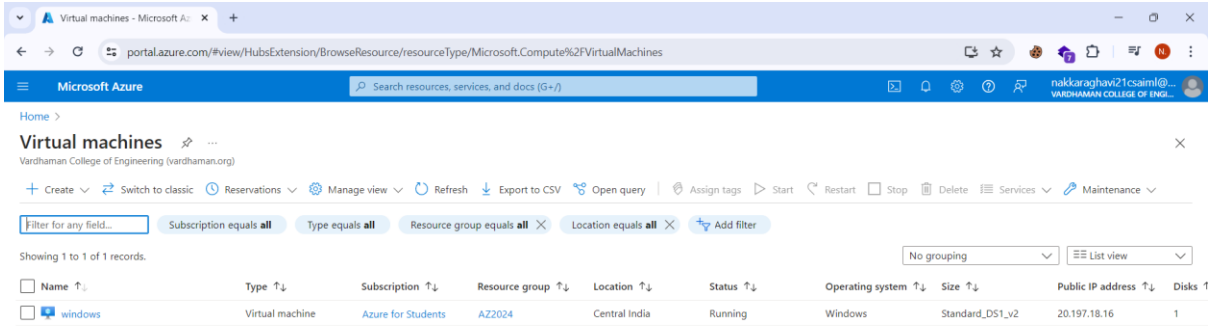
Step-4: Select size from left panel

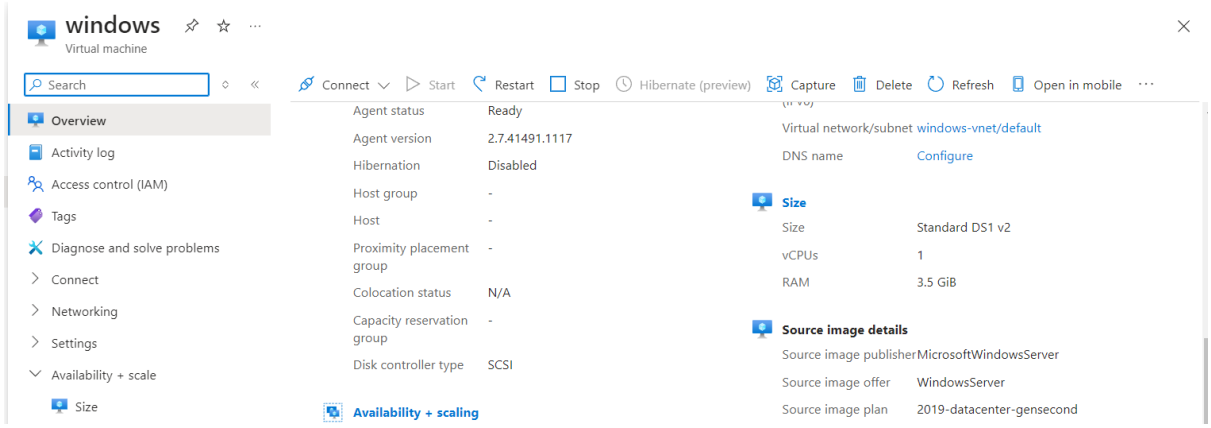
Step-5: Upgrade the size from 3.5 GiB to 8 GiB

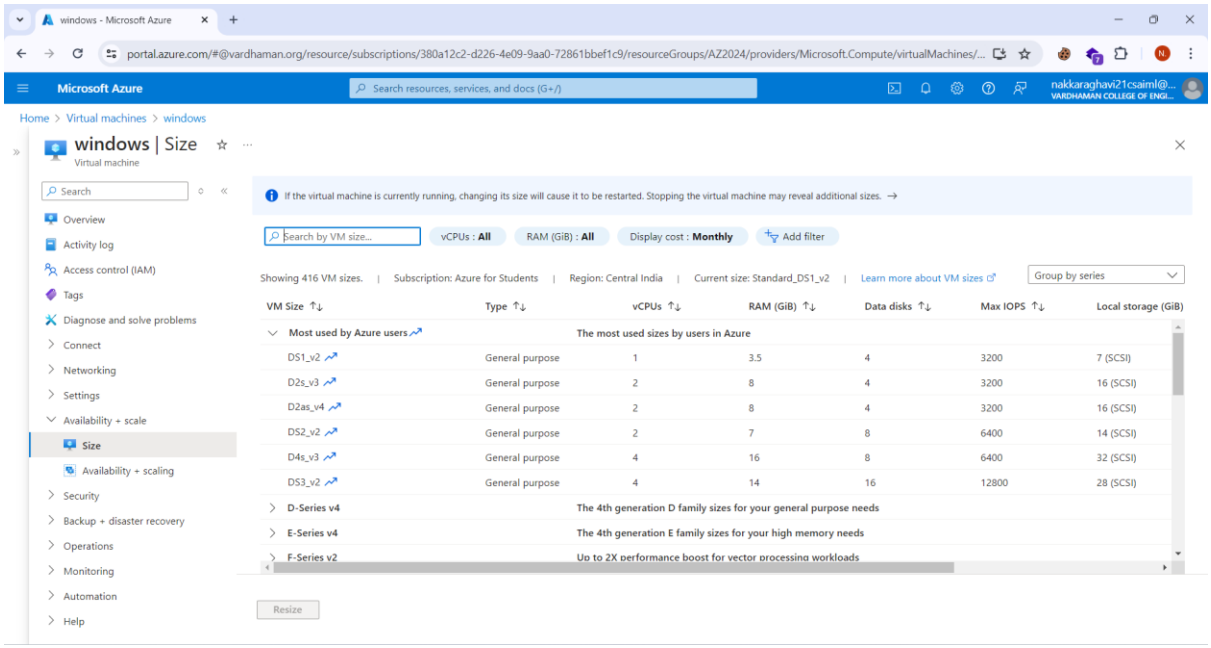
Step-6: Start the virtual machine and refresh it

Step-7: Check whether the size has increased or not. This is scaling up

Step-8: Scaling down is not possible in azure due to data loss issues






windows - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroups/AZ2024/providers/Microsoft.Compute/virtualMachines/...
Microsoft Azure
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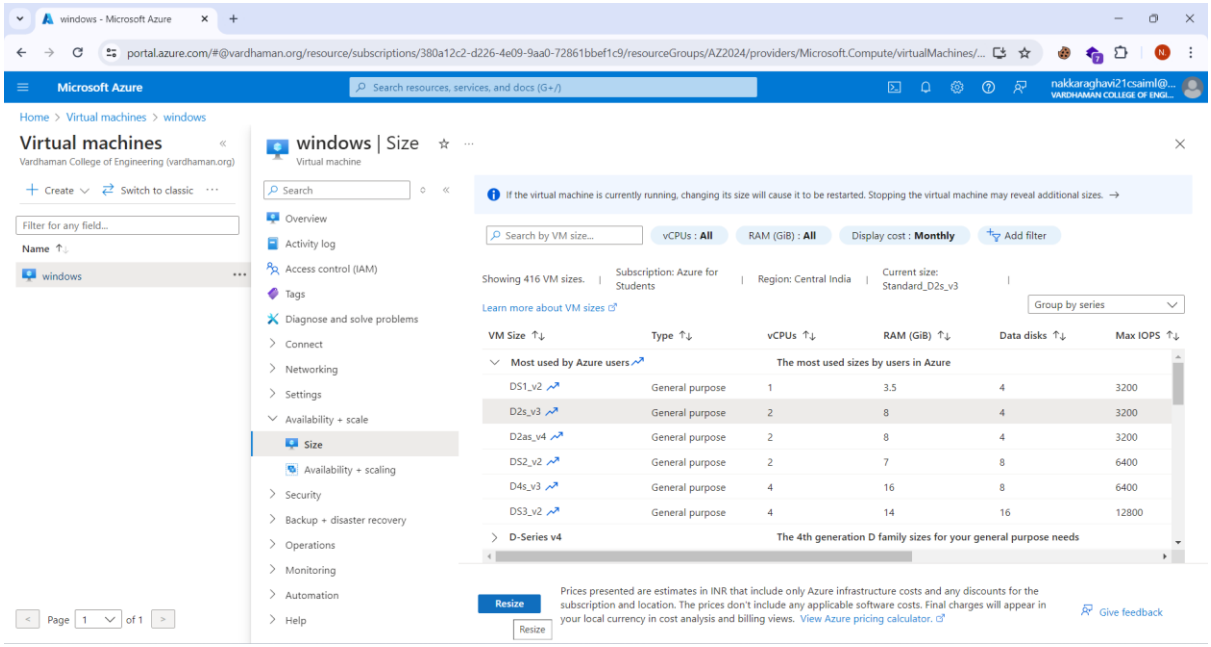
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines > windows
windows | Size
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Availability + scale
Size
Availability + scaling
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional sizes.
Search by VM size...
vCPUs : All
RAM (GiB) : All
Display cost : Monthly
Add filter
Showing 416 VM sizes. | Subscription: Azure for Students | Region: Central India | Current size: Standard_DS1_v2 | Learn more about VM sizes
Group by series
VM Size | Type | vCPUs | RAM (GiB) | Data disks | Max IOPS | Local storage (GiB)
Most used by Azure users | The most used sizes by users in Azure
DS1_v2 | General purpose | 1 | 3.5 | 4 | 3200 | 7 (SCSI)
D2s_v3 | General purpose | 2 | 8 | 4 | 3200 | 16 (SCSI)
D2as_v4 | General purpose | 2 | 8 | 4 | 3200 | 16 (SCSI)
DS2_v2 | General purpose | 2 | 7 | 8 | 6400 | 14 (SCSI)
D4s_v3 | General purpose | 4 | 16 | 8 | 6400 | 32 (SCSI)
DS3_v2 | General purpose | 4 | 14 | 16 | 12800 | 28 (SCSI)
D-Series v4 | The 4th generation D family sizes for your general purpose 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
Resize


windows - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroups/AZ2024/providers/Microsoft.Compute/virtualMachines/...
Microsoft Azure
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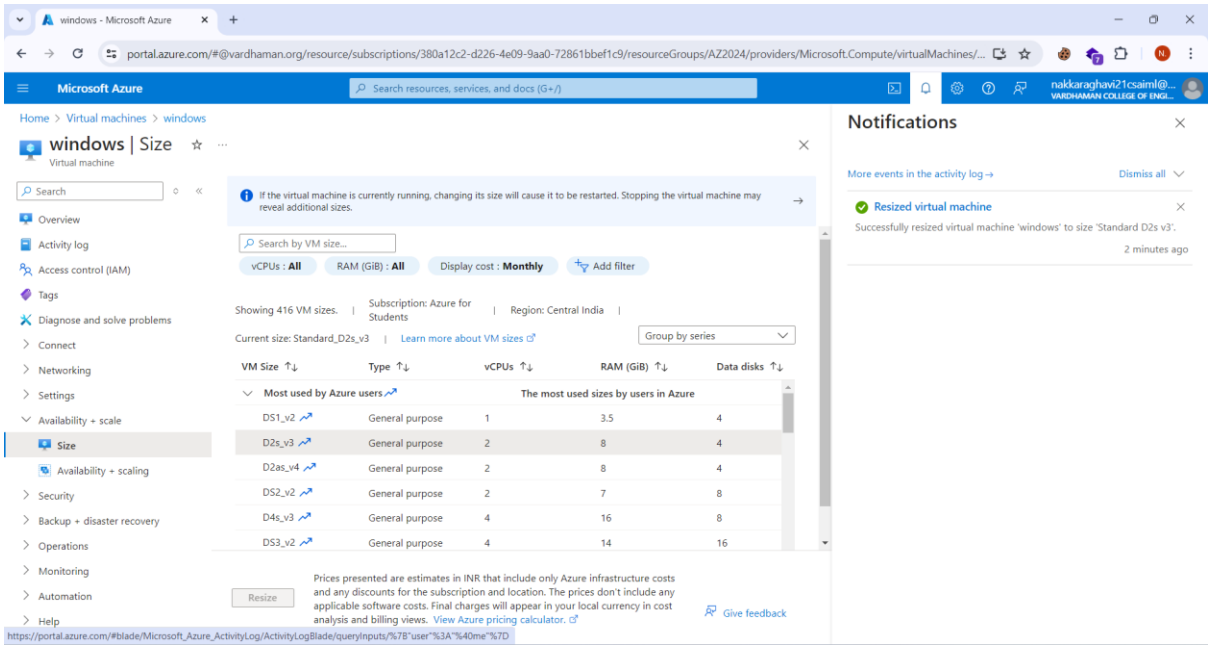
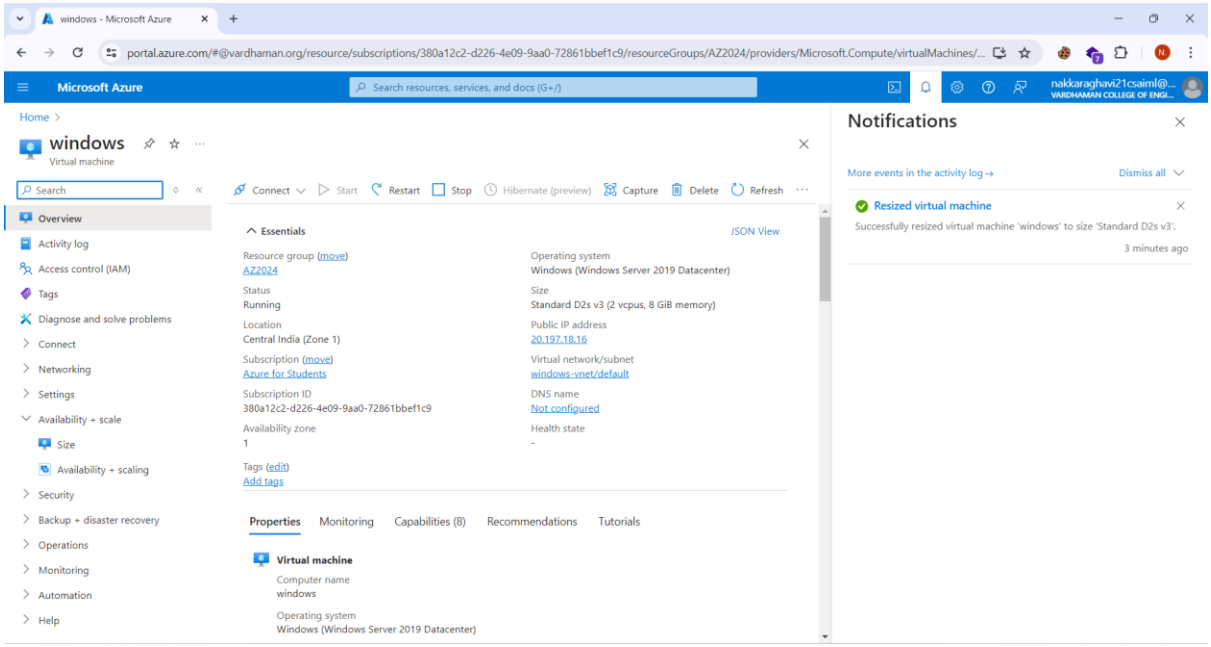
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines > windows
Virtual machines
Vardhaman College of Engineering (vardhaman.org)
Create
Switch to classic
Filter for any field...
Name
windows
Page 1 of 1
windows | Size
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Availability + scale
Size
Availability + scaling
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
If the virtual machine is currently running, changing its size will cause it to be restarted. Stopping the virtual machine may reveal additional sizes.
Search by VM size...
vCPUs : All
RAM (GiB) : All
Display cost : Monthly
Add filter
Showing 416 VM sizes. | Subscription: Azure for Students | Region: Central India | Current size: Standard_D2s_v3
Learn more about VM sizes
Group by series
VM Size | Type | vCPUs | RAM (GiB) | Data disks | Max IOPS
Most used by Azure users | The most used sizes by users in Azure
DS1_v2 | General purpose | 1 | 3.5 | 4 | 3200
D2s_v3 | General purpose | 2 | 8 | 4 | 3200
D2as_v4 | General purpose | 2 | 8 | 4 | 3200
DS2_v2 | General purpose | 2 | 7 | 8 | 6400
D4s_v3 | General purpose | 4 | 16 | 8 | 6400
DS3_v2 | General purpose | 4 | 14 | 16 | 12800
D-Series v4 | The 4th generation D family sizes for your general purpose needs
Resize
Prices presented are estimates in INR 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
Resize





Result: Above experiment is successfully executed and verified.

10) Perform attach and detach data disks to linux server in azure data center.

Steps:

1)Create a Virtual name with VM name as "Ubuntu" with username &password.

2)click on "Next: Disks>"

3)Click on "Create & attach a new disk".

4)Select Storage type -------Premium SSD(LRS), Custom disk size (GB)5, click on OK.

5)Click on "Review+ create" & click on create.

6)Click on "Go to resource group".

7)Copy public IP Address.

8)Open "PUTTY" & paste the IP address and click on "open".

9)Login into it with username and password.

10)Type the below commands

$ df -hT

$ lsblk

$ sudo filoe -s/dev/sdc

$ sudo mkfs -t ext4 /dev/sdc

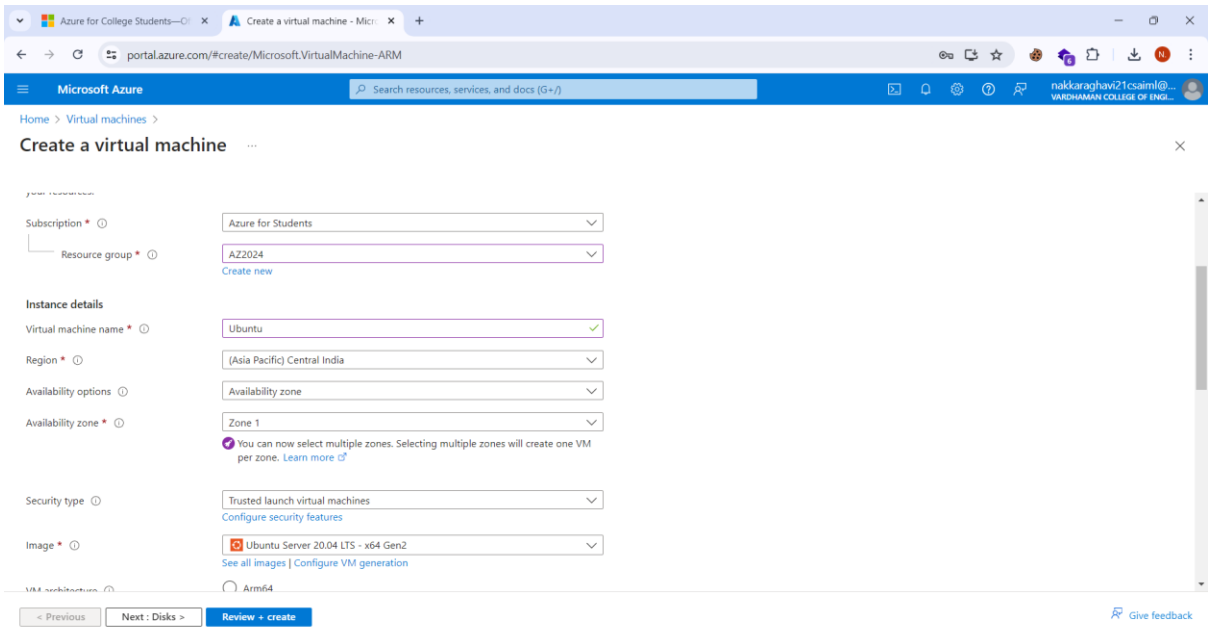
$ mkdir test

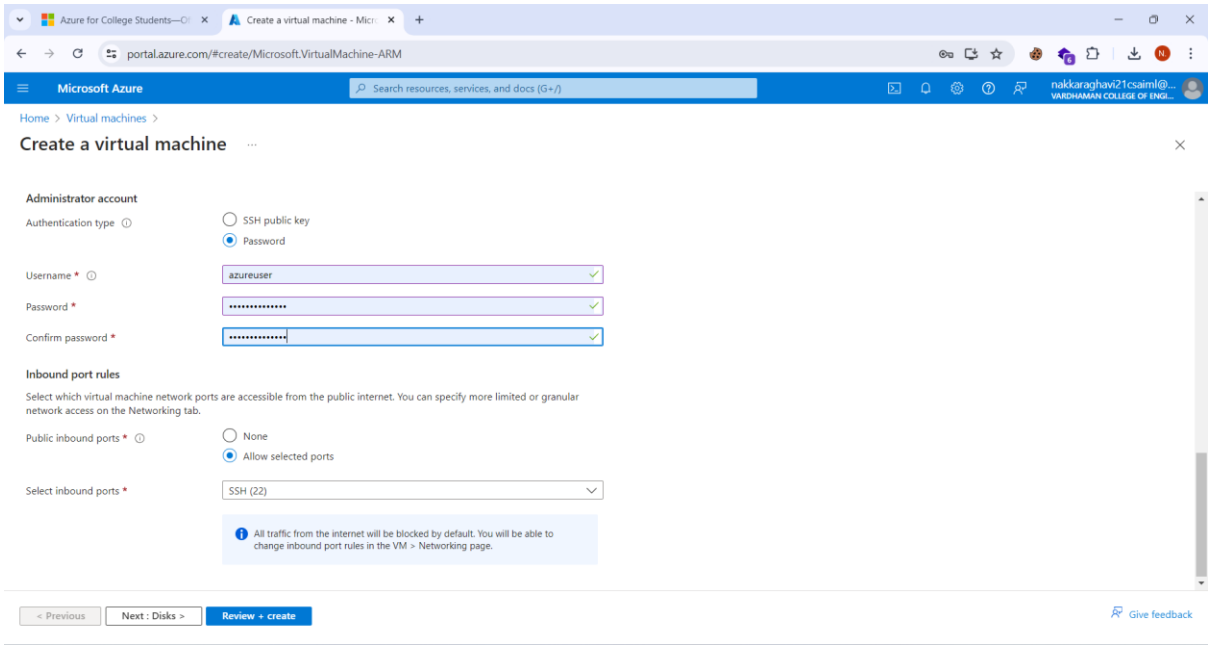
$ sudo mount /dev/sdc/ test

$ cd test

11)Open the VM and move to disks.

12)Click on detach and click on apply.




Azure for College Students—Cr
Create a virtual machine - Micr
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
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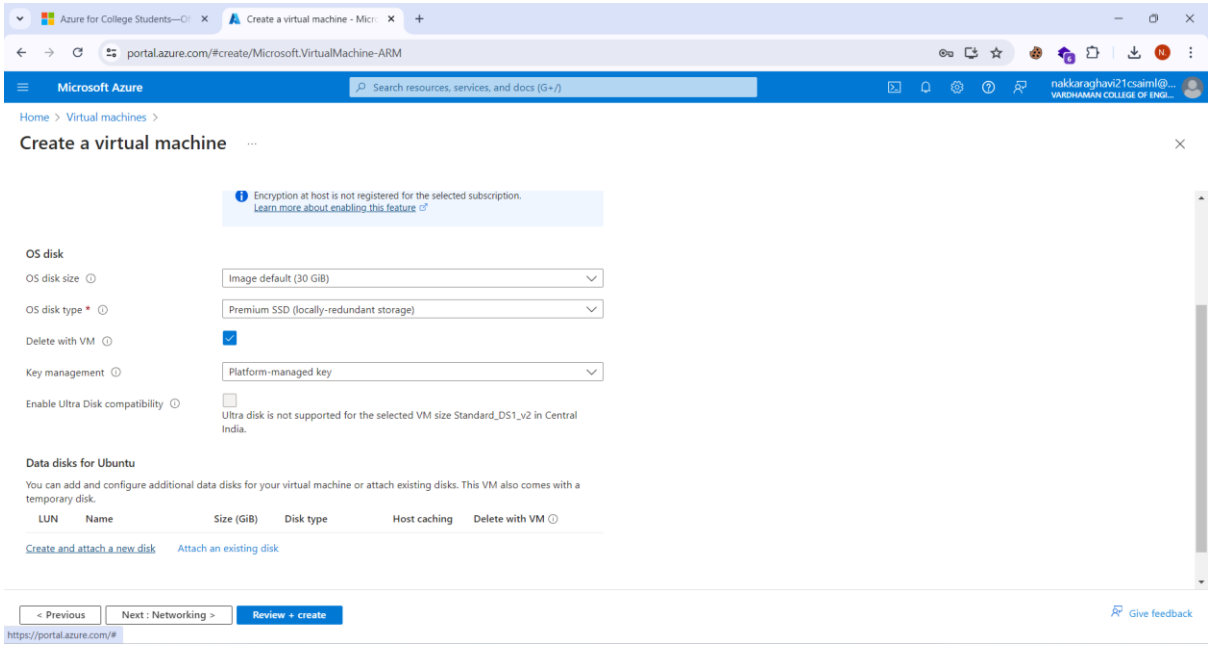
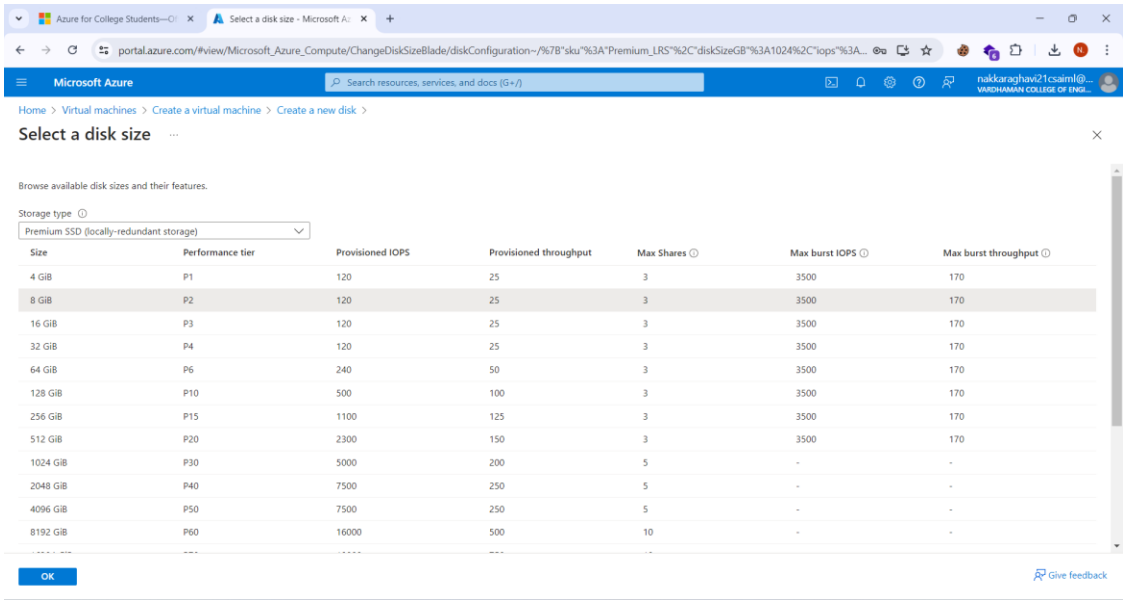
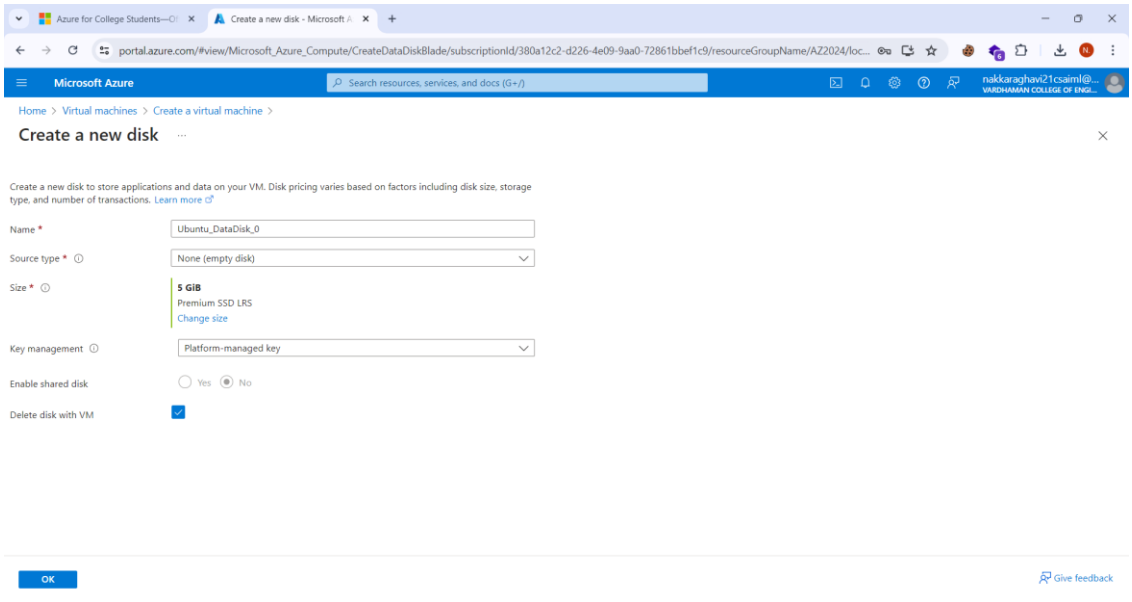
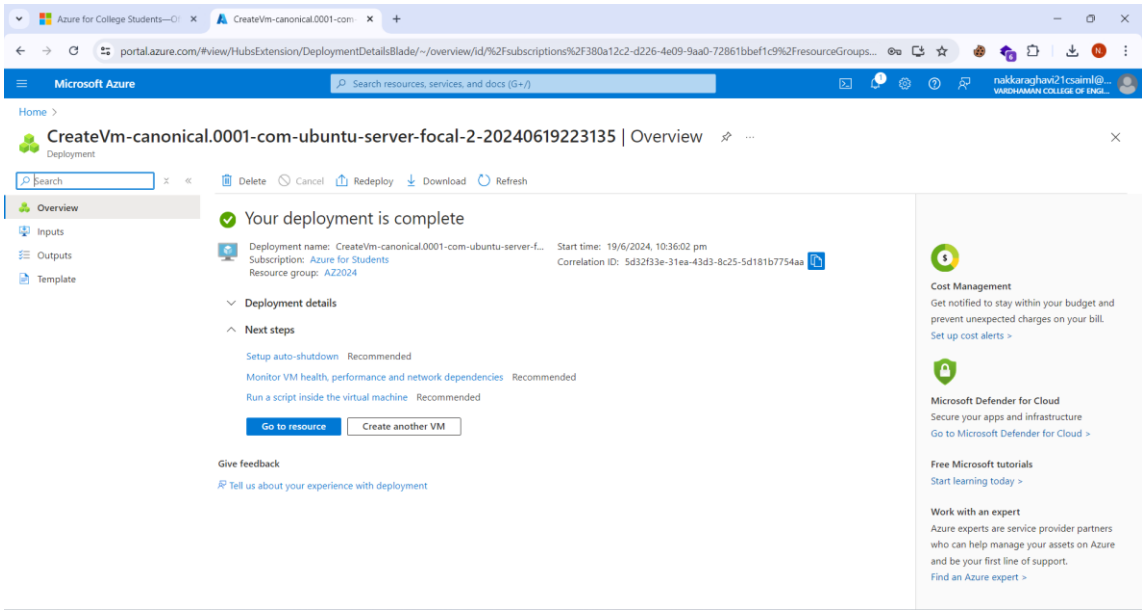
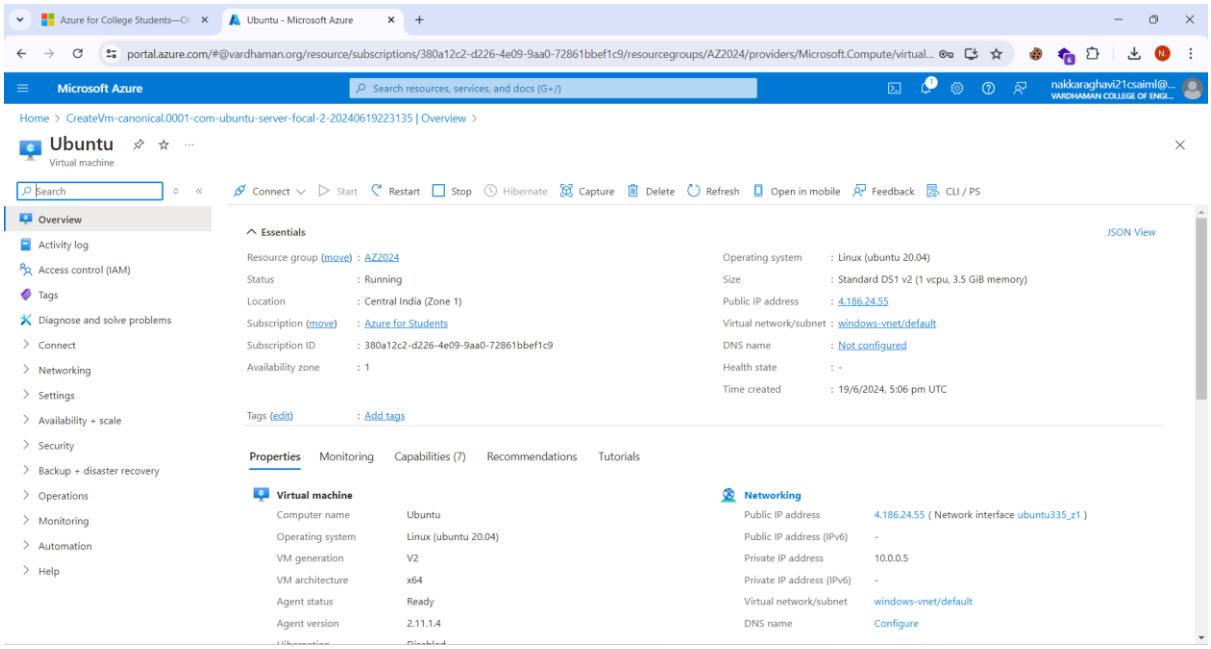
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines >
Create a virtual machine
Administrator account
Authentication type
SSH public key
Password
Username *
azureuser
Password *
Confirm password *
Inbound port rules
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.
Public inbound ports *
None
Allow selected ports
Select inbound ports *
SSH (22)
All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.
< Previous
Next : Disks >
Review + create
Give feedback


Azure for College Students—Cr
Create a virtual machine - Micr
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines >
Create a virtual machine
Encryption at host is not registered for the selected subscription.
Learn more about enabling this feature
OS disk
OS disk size
Image default (30 GiB)
OS disk type *
Premium SSD (locally-redundant storage)
Delete with VM
Key management
Platform-managed key
Enable Ultra Disk compatibility
Ultra disk is not supported for the selected VM size Standard_DS1_v2 in Central India.
Data disks for Ubuntu
You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.
LUN
Name
Size (GiB)
Disk type
Host caching
Delete with VM
Create and attach a new disk
Attach an existing disk
< Previous
Next : Networking >
Review + create
Give feedback
https://portal.azure.com/#


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Virtual machines > Create a virtual machine > Create a new disk >
Select a disk size
Browse available disk sizes and their features.
Storage type
Premium SSD (locally-redundant storage)
Size | Performance tier | Provisioned IOPS | Provisioned throughput | Max Shares | Max burst IOPS | Max burst throughput
4 GiB | P1 | 120 | 25 | 3 | 3500 | 170
8 GiB | P2 | 120 | 25 | 3 | 3500 | 170
16 GiB | P3 | 120 | 25 | 3 | 3500 | 170
32 GiB | P4 | 120 | 25 | 3 | 3500 | 170
64 GiB | P6 | 240 | 50 | 3 | 3500 | 170
128 GiB | P10 | 500 | 100 | 3 | 3500 | 170
256 GiB | P15 | 1100 | 125 | 3 | 3500 | 170
512 GiB | P20 | 2300 | 150 | 3 | 3500 | 170
1024 GiB | P30 | 5000 | 200 | 5 | - | -
2048 GiB | P40 | 7500 | 250 | 5 | - | -
4096 GiB | P50 | 7500 | 250 | 5 | - | -
8192 GiB | P60 | 16000 | 500 | 10 | - | -
OK
Give feedback


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Virtual machines > Create a virtual machine >
Create a new disk
Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. Learn more
Name * Ubuntu_DataDisk_0
Source type * None (empty disk)
Size * 5 GiB
Premium SSD LRS
Change size
Key management Platform-managed key
Enable shared disk Yes No
Delete disk with VM
OK
Give feedback


Microsoft Azure
Search resources, services, and docs (G+/)
Home >
CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240619223135 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-canonical.0001-com-ubuntu-server-f...
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 10:36:02 pm
Correlation ID: 5d32f33e-31ea-43d3-8c25-5d181b7754aa
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
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >


Azure for College Students
Ubuntu - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourcegroups/AZ2024/providers/Microsoft.Compute/virtual...
Microsoft Azure
Search resources, services, and docs (G+/)
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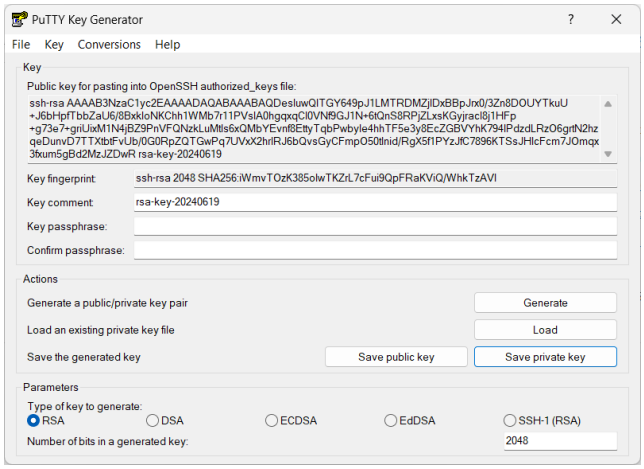
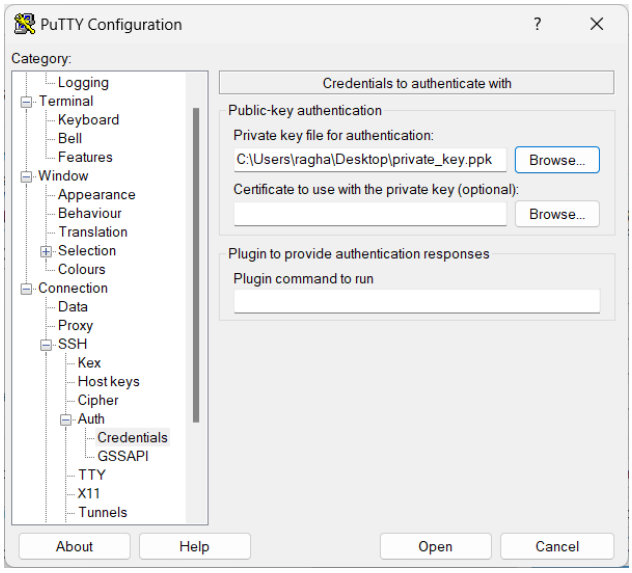
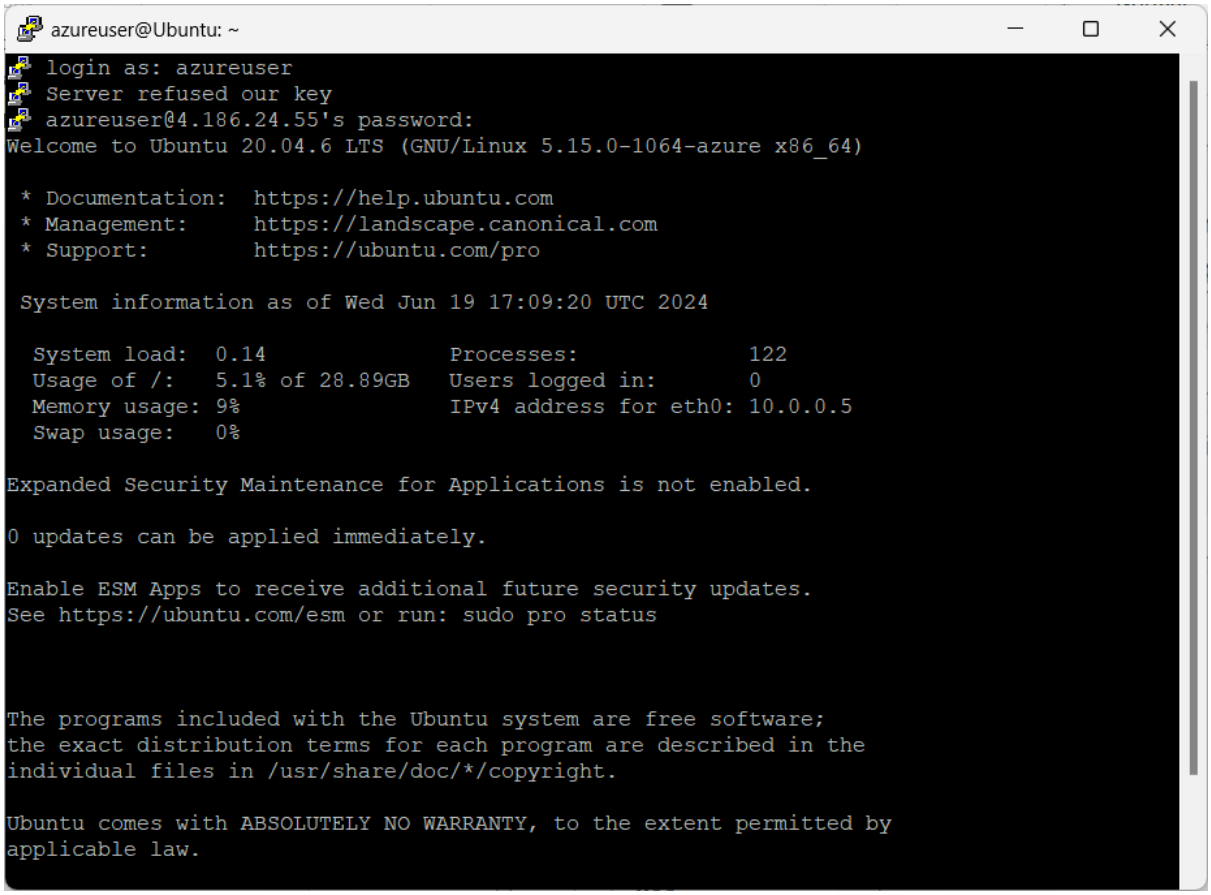
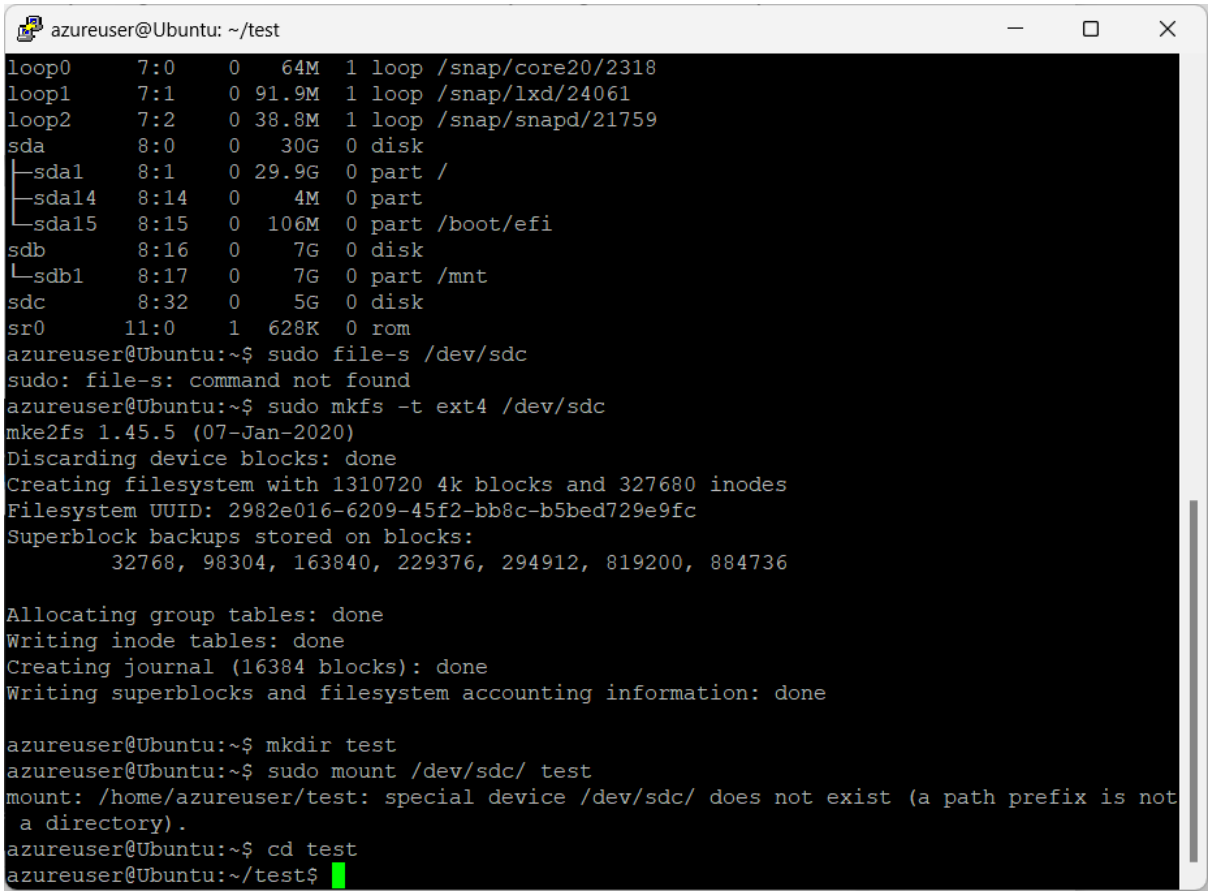
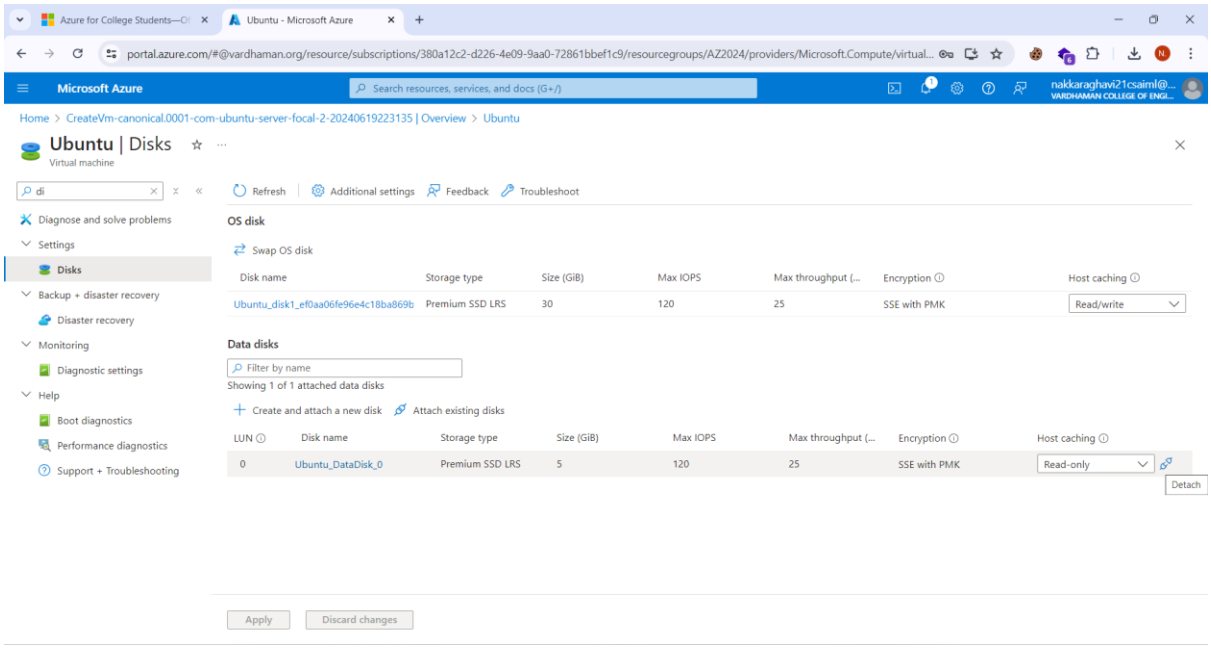
VARDHAMAN COLLEGE OF ENGI...
Home > CreateVm-canonical.0001-com-ubuntu-server-focal-2-20240619223135 | Overview >
Ubuntu
Virtual machine
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Networking
Settings
Availability + scale
Security
Backup + disaster recovery
Operations
Monitoring
Automation
Help
Connect
Start
Restart
Stop
Hibernate
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Essentials
JSON View
Resource group (move) : AZ2024
Status : Running
Location : Central India (Zone 1)
Subscription (move) : Azure for Students
Subscription ID : 380a12c2-d226-4e09-9aa0-72861bbef1c9
Availability zone : 1
Operating system : Linux (ubuntu 20.04)
Size : Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address : 4.186.24.55
Virtual network/subnet : windows-vnet/default
DNS name : Not configured
Health state : -
Time created : 19/6/2024, 5:06 pm UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name Ubuntu
Operating system Linux (ubuntu 20.04)
VM generation V2
VM architecture x64
Agent status Ready
Agent version 2.11.1.4
Networking
Public IP address 4.186.24.55 (Network interface ubuntu335_z1)
Public IP address (IPv6) -
Private IP address 10.0.0.5
Private IP address (IPv6) -
Virtual network/subnet windows-vnet/default
DNS name Configure

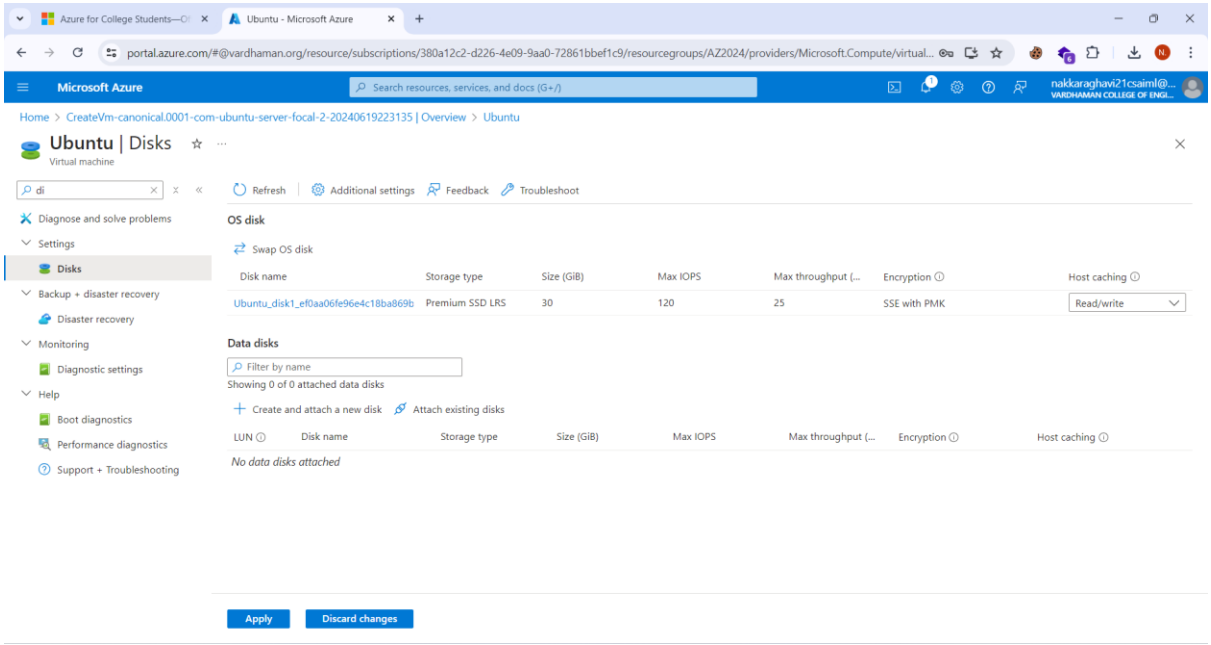

PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDesIuwQITGY649pJ1LMTRDMZjiDxBBpJrx0/3Zn8DOUYTkuU
+J6bHpfTbbZaU6/8BxkloNKChh1WMb7r11PVsIA0hgqxqCl0VNf9GJ1N+6tQnS8RPjZLxsKGyjracl8j1HFp
+g73e7+gnUixM1N4jBZ9PnVFQNzkLuMtls6xQMbYEvnf8EttyTqbPwbyle4hhTF5e3y8Ec2GBVYhK794IPdzdLRzO6grtN2hz
qeDunvD7TTXtbFvUb/0G0RpZQTGwPq7UVxX2hrlRJ6bQvsGyCFmpO50tlnid/RgX5f1PYzJfC7896KTSsJHlcFcm7JOmqx
3fxum5gBd2MzJZDwR rsa-key-20240619
Key fingerprint: ssh-rsa 2048 SHA256:iWmvTOzK385olwTKZrL7cFui9QpFRaKViQ/WhkTzAVI
Key comment: rsa-key-20240619
Key passphrase:
Confirm passphrase:
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
Credentials to authenticate with
Public-key authentication
Private key file for authentication:
C:\Users\ragha\Desktop\private_key.ppk
Browse...
Certificate to use with the private key (optional):
Browse...
Plugin to provide authentication responses
Plugin command to run
About
Help
Open
Cancel


azureuser@Ubuntu: ~
login as: azureuser
Server refused our key
azureuser@4.186.24.55's password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1064-azure x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
System information as of Wed Jun 19 17:09:20 UTC 2024
System load: 0.14 Processes: 122
Usage of /: 5.1% of 28.89GB Users logged in: 0
Memory usage: 9% 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.


azureuser@Ubuntu: ~/test
loop0 7:0 0 64M 1 loop /snap/core20/2318
loop1 7:1 0 91.9M 1 loop /snap/lxd/24061
loop2 7:2 0 38.8M 1 loop /snap/snapd/21759
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 7G 0 disk
└─sdb1 8:17 0 7G 0 part /mnt
sdc 8:32 0 5G 0 disk
sr0 11:0 1 628K 0 rom
azureuser@Ubuntu:~$ sudo file-s /dev/sdc
sudo: file-s: command not found
azureuser@Ubuntu:~$ sudo mkfs -t ext4 /dev/sdc
mke2fs 1.45.5 (07-Jan-2020)
Discarding device blocks: done
Creating filesystem with 1310720 4k blocks and 327680 inodes
Filesystem UUID: 2982e016-6209-45f2-bb8c-b5bed729e9fc
Superblock backups stored on blocks:
32768, 98304, 163840, 229376, 294912, 819200, 884736
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
azureuser@Ubuntu:~$ mkdir test
azureuser@Ubuntu:~$ sudo mount /dev/sdc/ test
mount: /home/azureuser/test: special device /dev/sdc/ does not exist (a path prefix is not a directory).
azureuser@Ubuntu:~$ cd test
azureuser@Ubuntu:~/test$

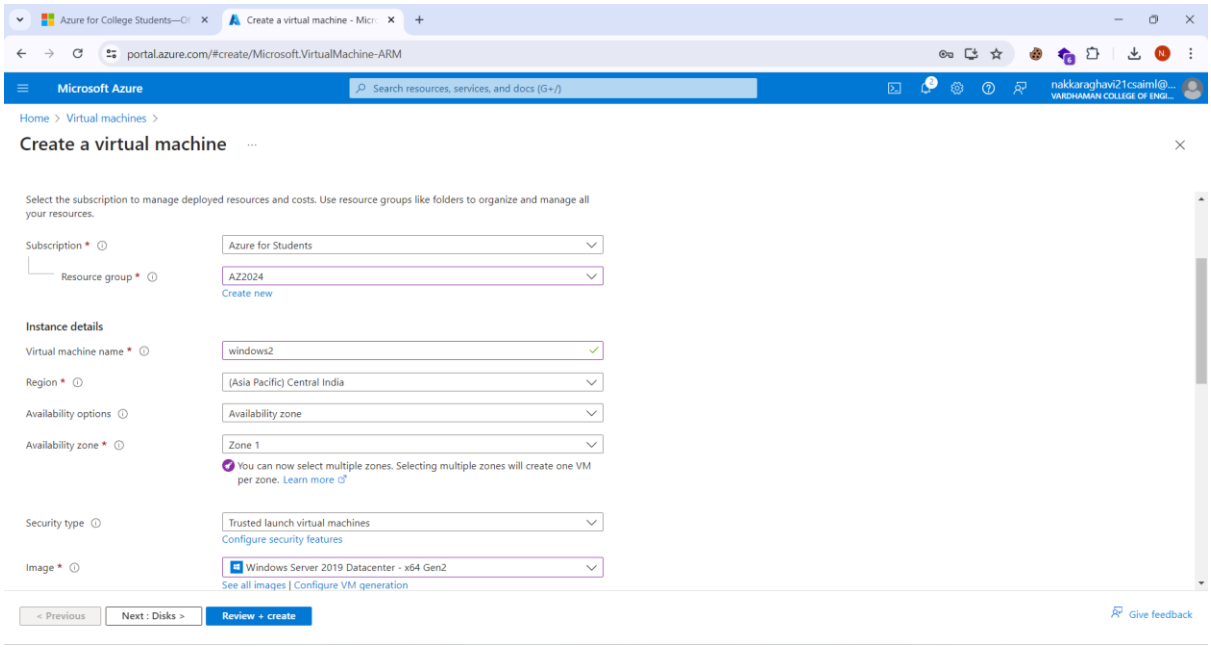


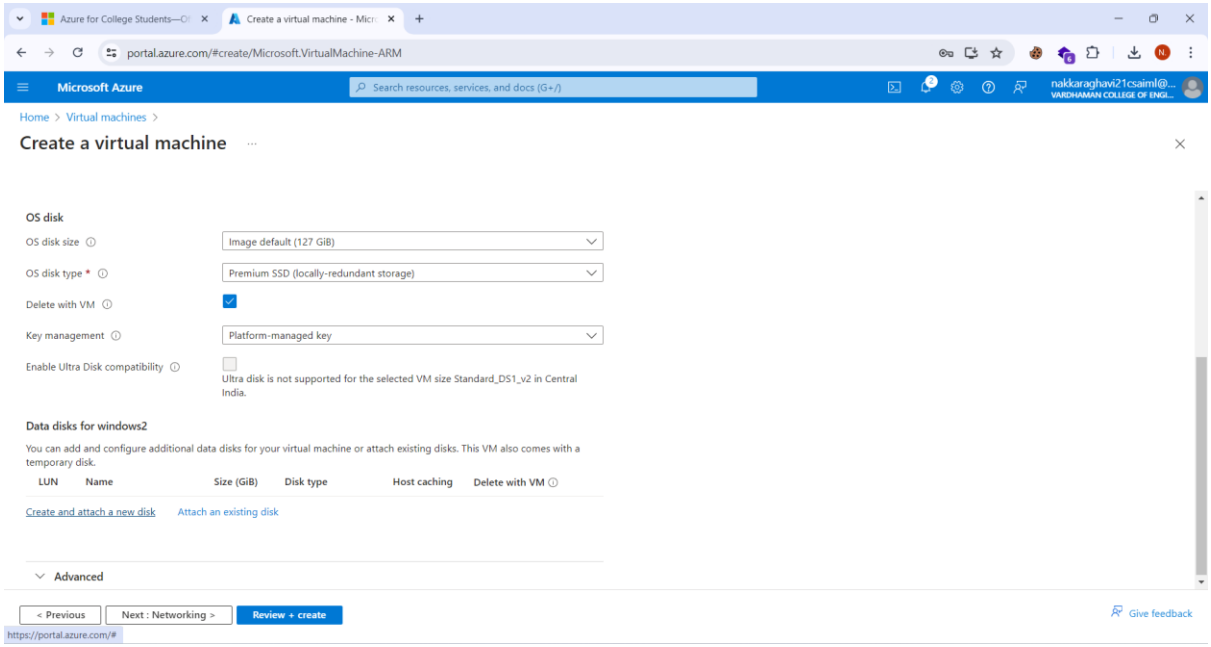


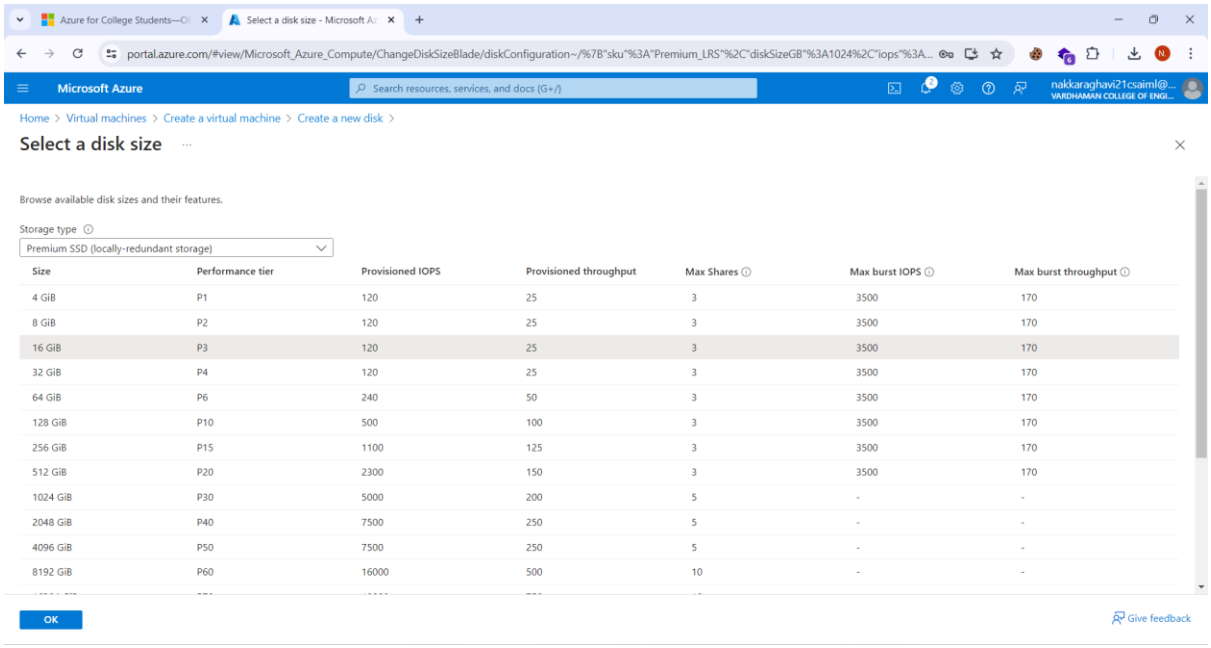
Result: Above experiment is successfully executed and verified.

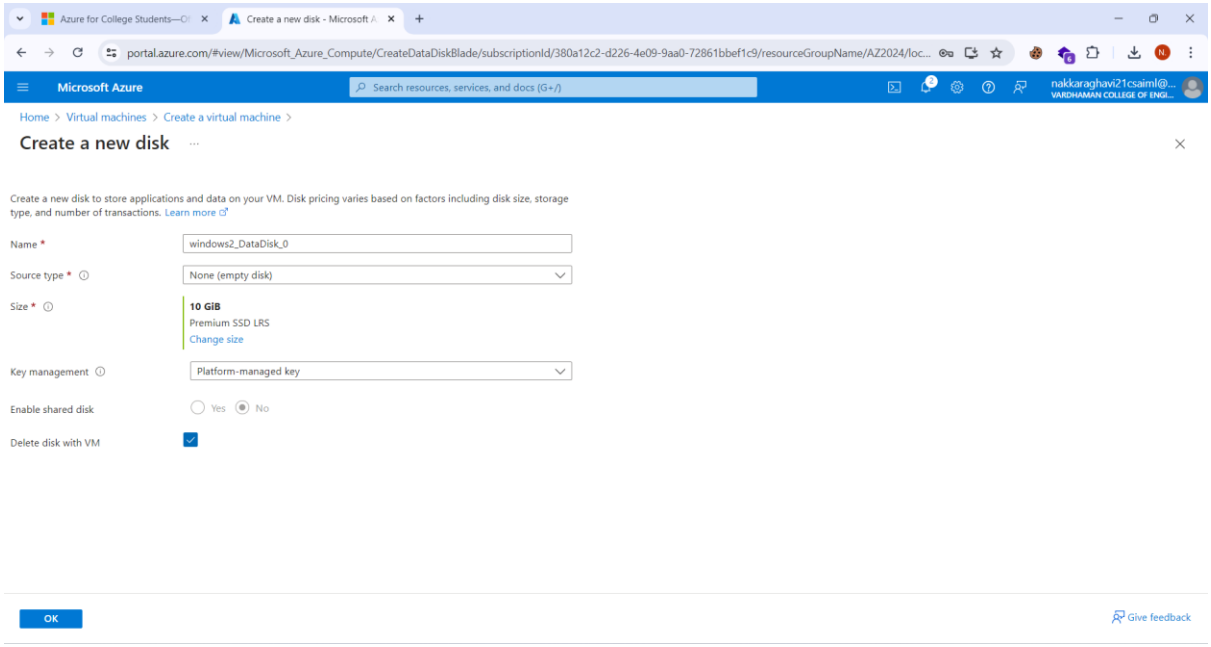
11) Perform attach and detach data disk to windows server in Azure

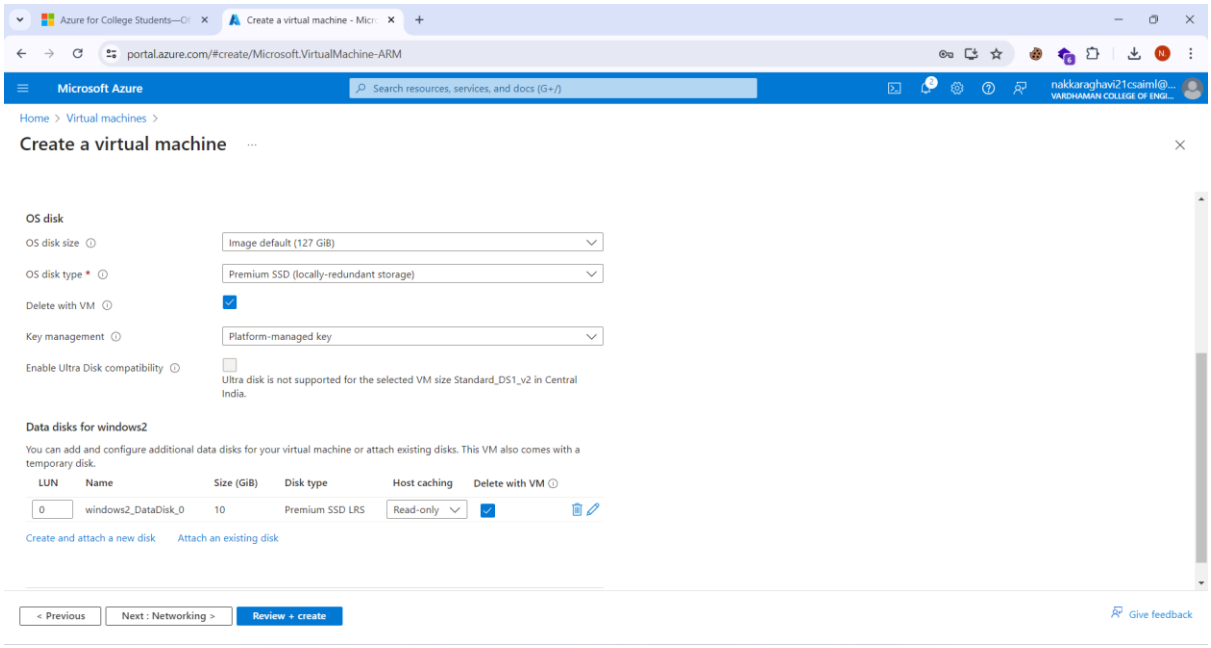
Steps:

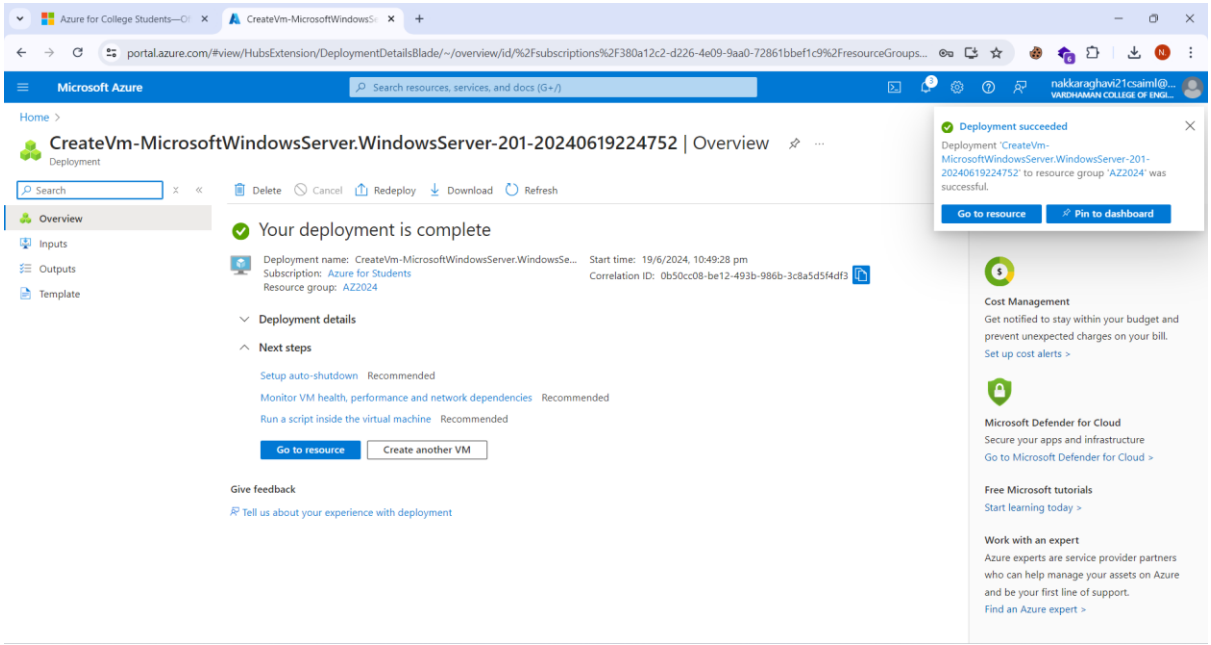


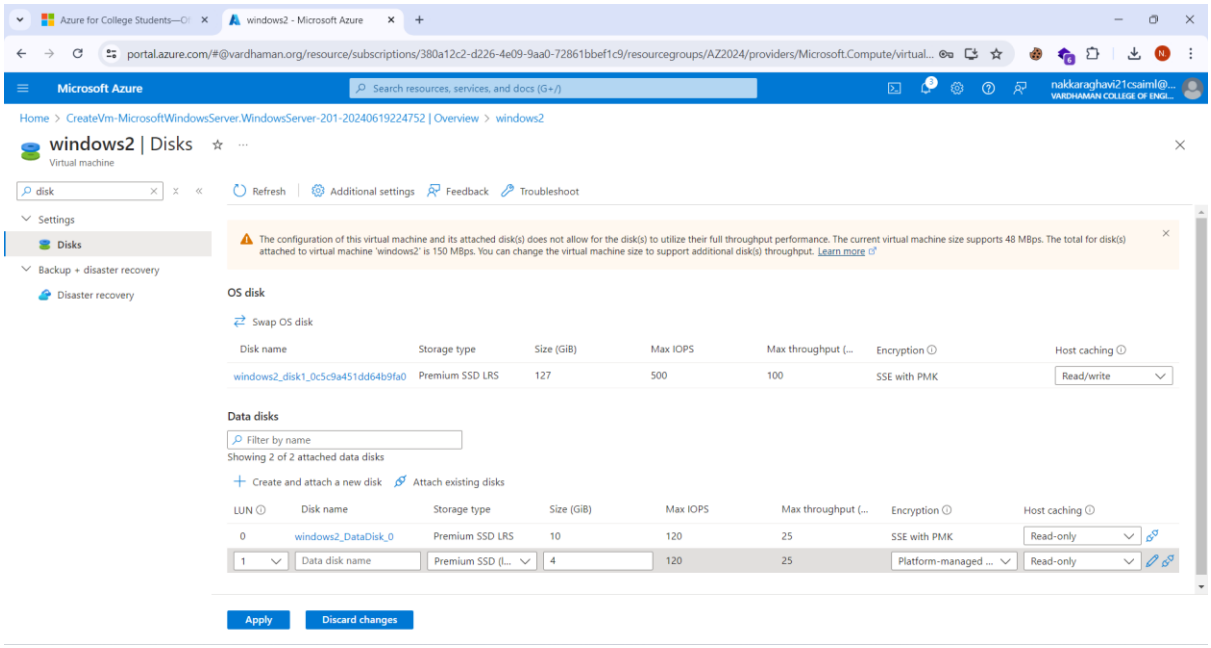


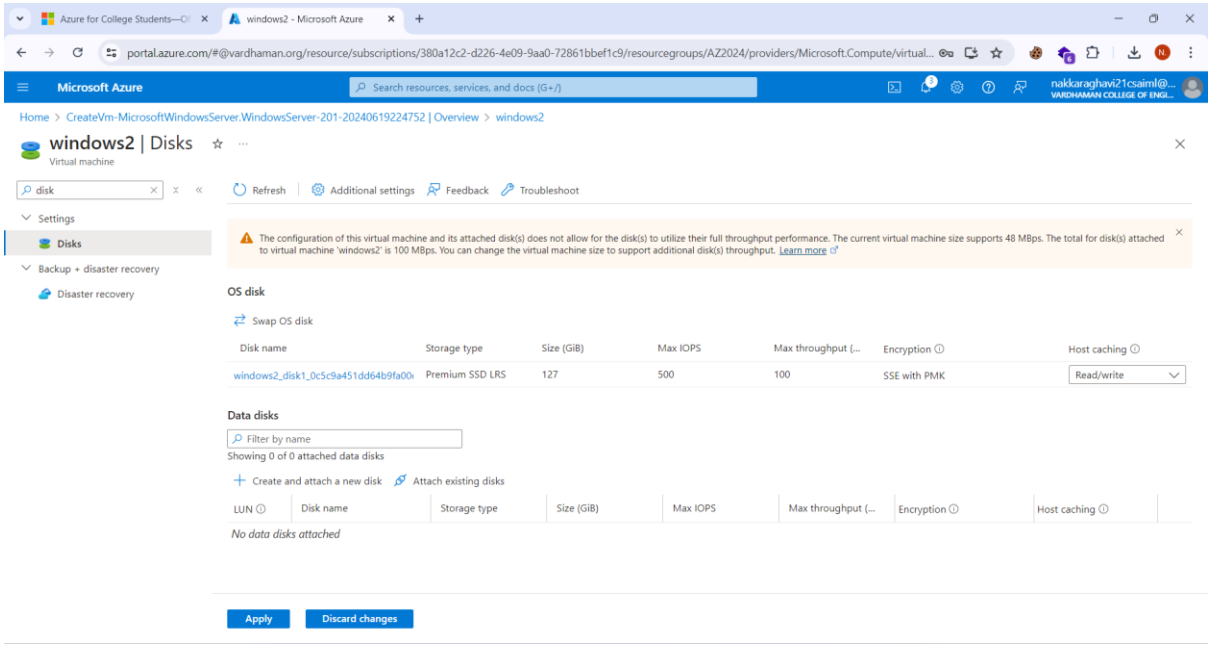

Azure for College Students—Cl
Select a disk size - Microsoft Az
portal.azure.com/#view/Microsoft_Azure_Compute/ChangeDiskSizeBlade/diskConfiguration~/%7B"sku"%3A"Premium_LRS"%2C"diskSizeGB"%3A1024%2C"iops"%3A...
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines > Create a virtual machine > Create a new disk >
Select a disk size
Browse available disk sizes and their features.
Storage type
Premium SSD (locally-redundant storage)
Size | Performance tier | Provisioned IOPS | Provisioned throughput | Max Shares | Max burst IOPS | Max burst throughput
4 GiB | P1 | 120 | 25 | 3 | 3500 | 170
8 GiB | P2 | 120 | 25 | 3 | 3500 | 170
16 GiB | P3 | 120 | 25 | 3 | 3500 | 170
32 GiB | P4 | 120 | 25 | 3 | 3500 | 170
64 GiB | P6 | 240 | 50 | 3 | 3500 | 170
128 GiB | P10 | 500 | 100 | 3 | 3500 | 170
256 GiB | P15 | 1100 | 125 | 3 | 3500 | 170
512 GiB | P20 | 2300 | 150 | 3 | 3500 | 170
1024 GiB | P30 | 5000 | 200 | 5 | - | -
2048 GiB | P40 | 7500 | 250 | 5 | - | -
4096 GiB | P50 | 7500 | 250 | 5 | - | -
8192 GiB | P60 | 16000 | 500 | 10 | - | -
OK
Give feedback


Azure for College Students—Cl
Create a new disk - Microsoft A
portal.azure.com/#view/Microsoft_Azure_Compute/CreateDataDiskBlade/subscriptionId/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourceGroupName/AZ2024/loc...
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines > Create a virtual machine >
Create a new disk
Create a new disk to store applications and data on your VM. Disk pricing varies based on factors including disk size, storage type, and number of transactions. Learn more
Name *
windows2_DataDisk_0
Source type *
None (empty disk)
Size *
10 GiB
Premium SSD LRS
Change size
Key management
Platform-managed key
Enable shared disk
Yes
No
Delete disk with VM
OK
Give feedback


Azure for College Students—Cr
Create a virtual machine - Micr
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > Virtual machines >
Create a virtual machine
OS disk
OS disk size
Image default (127 GiB)
OS disk type *
Premium SSD (locally-redundant storage)
Delete with VM
Key management
Platform-managed key
Enable Ultra Disk compatibility
Ultra disk is not supported for the selected VM size Standard_DS1_v2 in Central India.
Data disks for windows2
You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.
LUN
Name
Size (GiB)
Disk type
Host caching
Delete with VM
0
windows2_DataDisk_0
10
Premium SSD LRS
Read-only
Create and attach a new disk
Attach an existing disk
< Previous
Next : Networking >
Review + create
Give feedback


Azure for College Students—Cr
CreateVm-MicrosoftWindowsSe
portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F380a12c2-d226-4e09-9aa0-72861bbef1c9%2FresourceGroups...
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home >
CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619224752 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe...
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 10:49:28 pm
Correlation ID: 0b50cc08-be12-493b-986b-3c8a5d5f4df3
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-MicrosoftWindowsServer.WindowsServer-201-20240619224752' to resource group 'AZ2024' 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
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >


Azure for College Students—Cl
windows2 - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourcegroups/AZ2024/providers/Microsoft.Compute/virtual...
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619224752 | Overview > windows2
windows2 | Disks
Virtual machine
disk
Settings
Disks
Backup + disaster recovery
Disaster recovery
Refresh
Additional settings
Feedback
Troubleshoot
The configuration of this virtual machine and its attached disk(s) does not allow for the disk(s) to utilize their full throughput performance. The current virtual machine size supports 48 MBps. The total for disk(s) attached to virtual machine 'windows2' is 150 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
Max throughput (...
Encryption
Host caching
windows2_disk1_0c5c9a451dd64b9fa0
Premium SSD LRS
127
500
100
SSE with PMK
Read/write
Data disks
Filter by name
Showing 2 of 2 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
0
windows2_DataDisk_0
Premium SSD LRS
10
120
25
SSE with PMK
Read-only
1
Data disk name
Premium SSD (l...
4
120
25
Platform-managed ...
Read-only
Apply
Discard changes


Azure for College Students—Cl
windows2 - Microsoft Azure
portal.azure.com/#@vardhaman.org/resource/subscriptions/380a12c2-d226-4e09-9aa0-72861bbef1c9/resourcegroups/AZ2024/providers/Microsoft.Compute/virtual...
Microsoft Azure
Search resources, services, and docs (G+/)
nakkaraghavi21csaiml@...
VARDHAMAN COLLEGE OF ENGI...
Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20240619224752 | Overview > windows2
windows2 | Disks
Virtual machine
disk
Settings
Disks
Backup + disaster recovery
Disaster recovery
Refresh
Additional settings
Feedback
Troubleshoot
The configuration of this virtual machine and its attached disk(s) does not allow for the disk(s) to utilize their full throughput performance. The current virtual machine size supports 48 MBps. The total for disk(s) attached to virtual machine 'windows2' is 100 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
Max throughput (...
Encryption
Host caching
windows2_disk1_0c5c9a451dd64b9fa00
Premium SSD LRS
127
500
100
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
Apply
Discard changes

12) Create azure storage account, container and upload / delete objects

Steps:

1.Login to Azure account and create a storage account.

2.Giving a resource name, storage account name and changing region to

(Asia Pacific) South India and change redundancy to LRS (Local redundant storage).

3.Click Review + Create

4.Now go to “Advanced” option and choose “Allow enabling anonymous access on individual containers”.

5.Click on Review + Create

6.After completion of deployment, click on “Go to resources “.

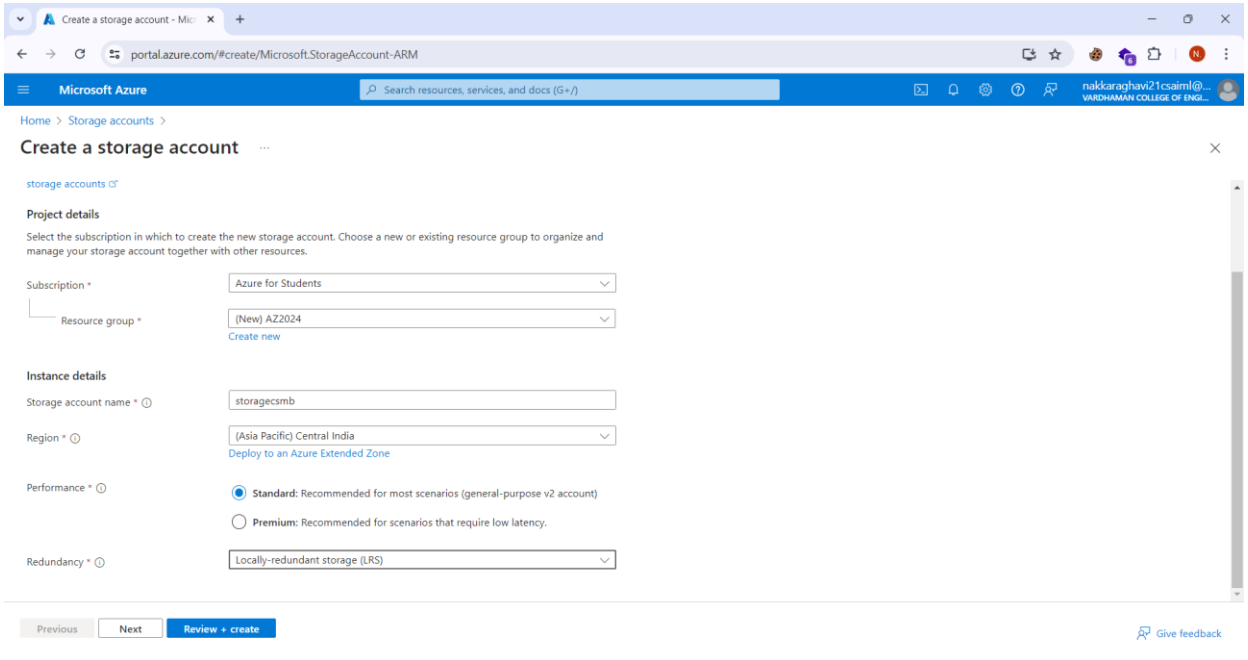
7.Click on container and “+ container” and give a name to create and set anonymous access level to “Blob”.

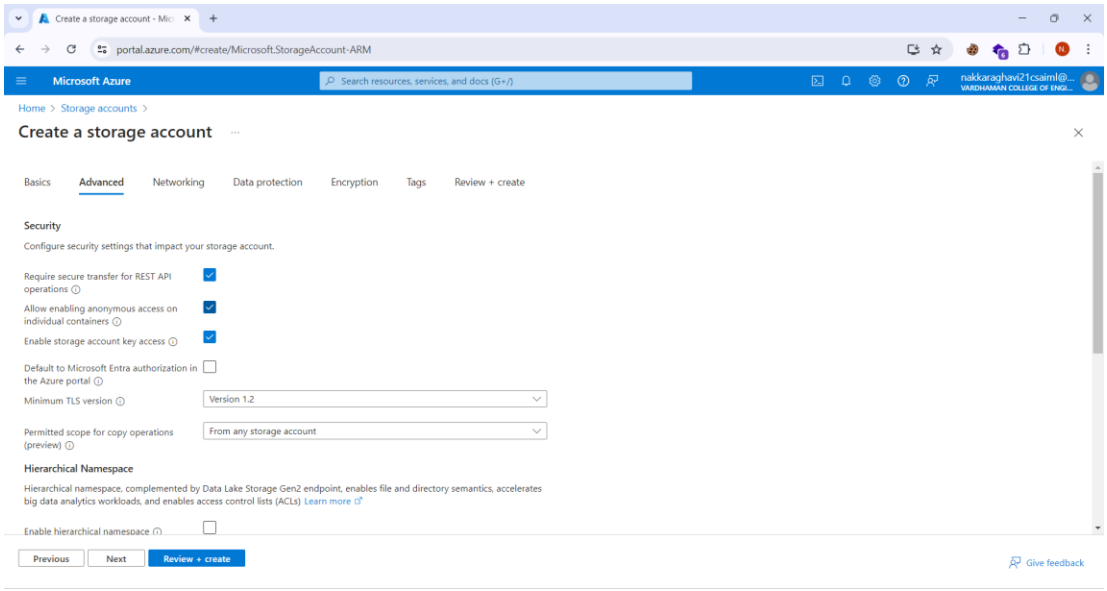
8.Open named container and click on upload and upload a file.

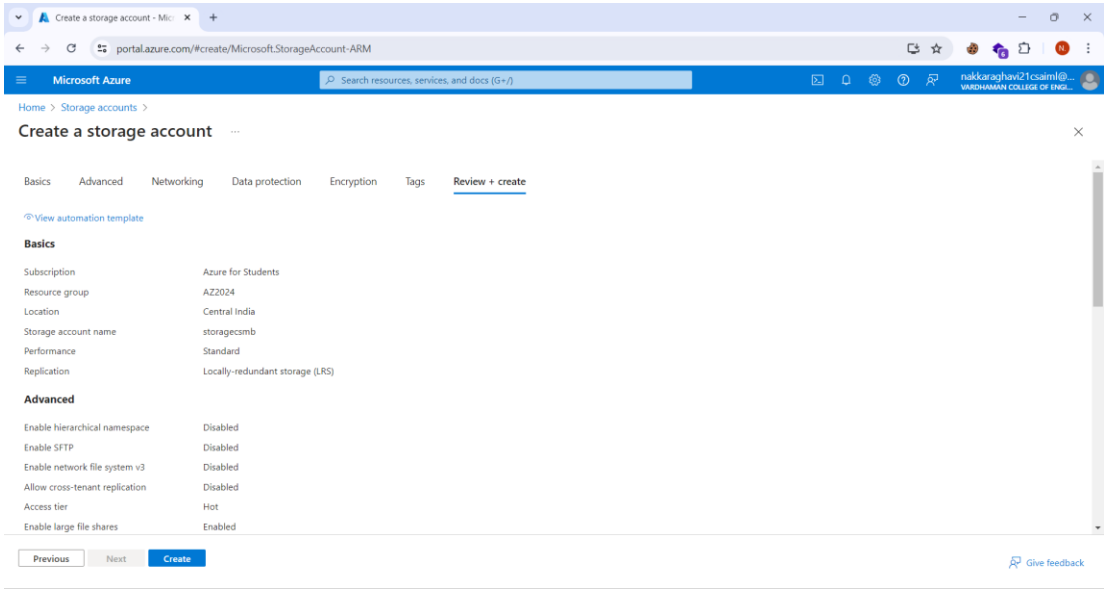
9.Open the file and copy the URL and paste it in browser.

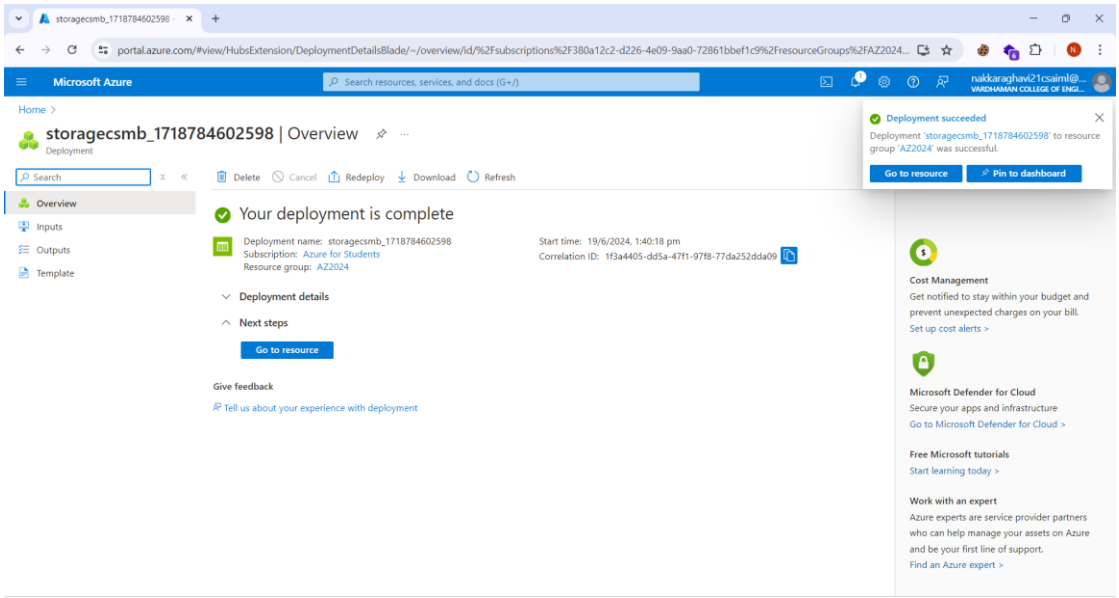
10.Do this step 7 by changing access level to “Private”.

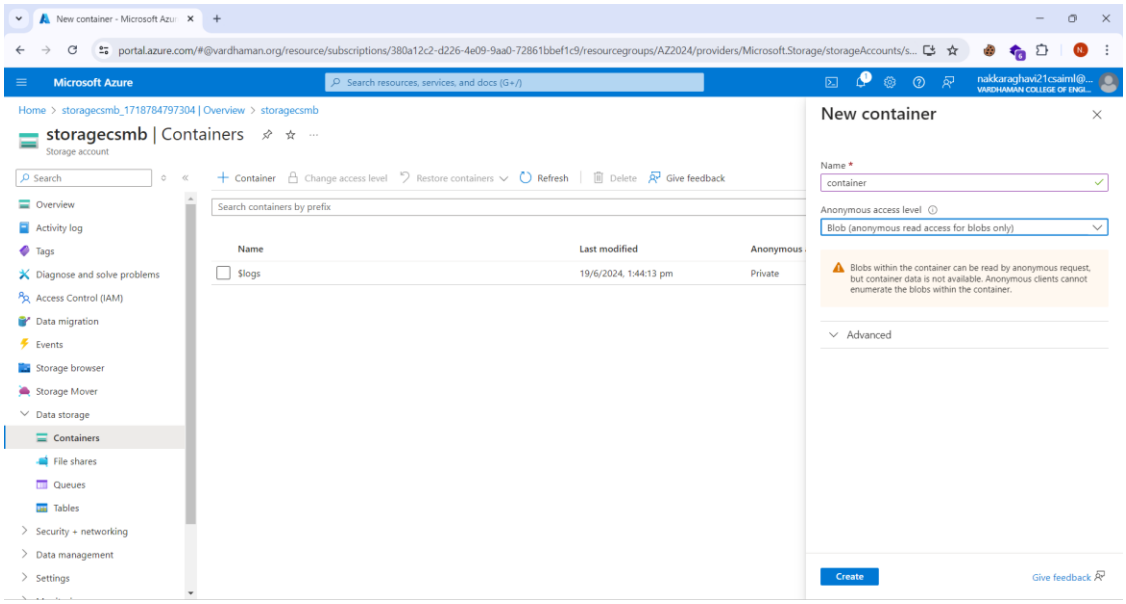
11.Click on delete to delete a file along with Blobs.

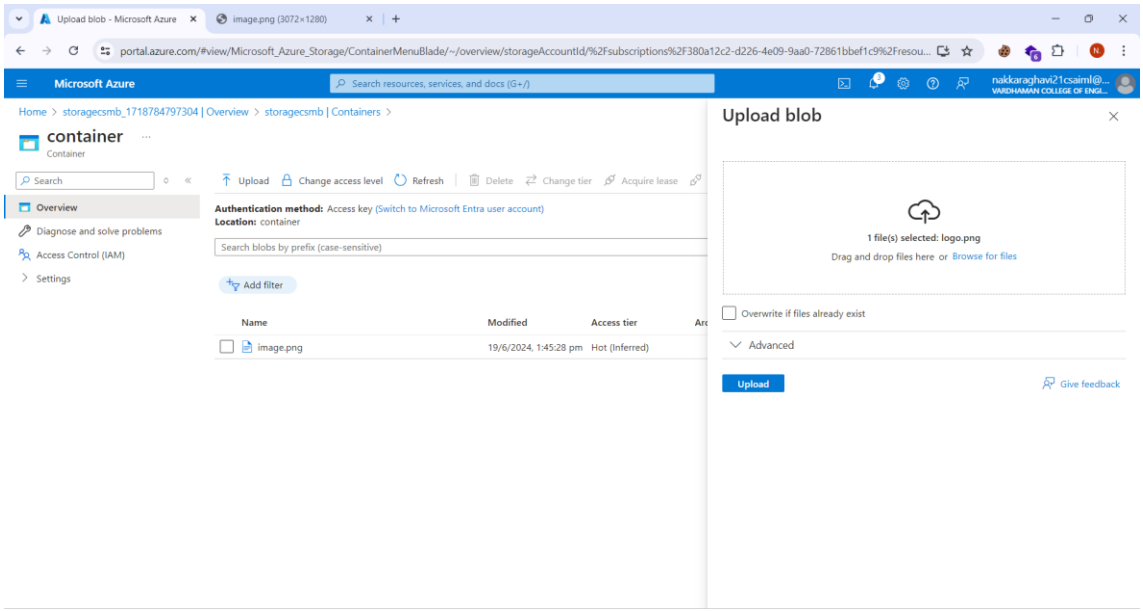


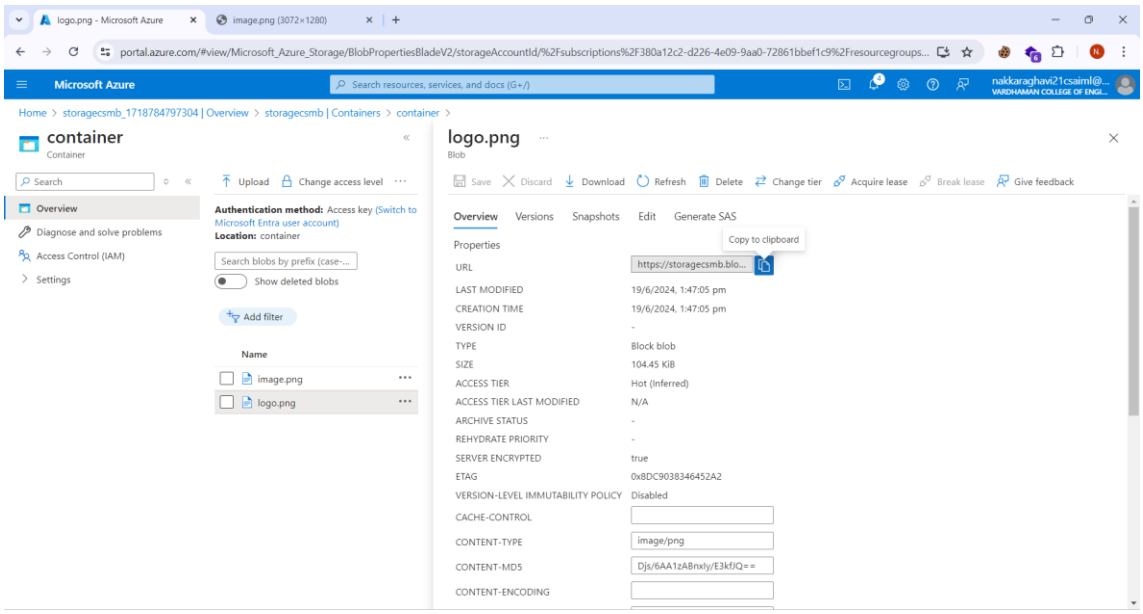

Create a storage account - Mic
portal.azure.com/#create/Microsoft.StorageAccount-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
Home > Storage accounts >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review + create
Security
Configure security settings that impact your storage account.
Require secure transfer for REST API operations
Allow enabling anonymous access on individual containers
Enable storage account key access
Default to Microsoft Entra authorization in the Azure portal
Minimum TLS version
Version 1.2
Permitted scope for copy operations (preview)
From any storage account
Hierarchical Namespace
Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) Learn more
Enable hierarchical namespace
Previous
Next
Review + create
Give feedback

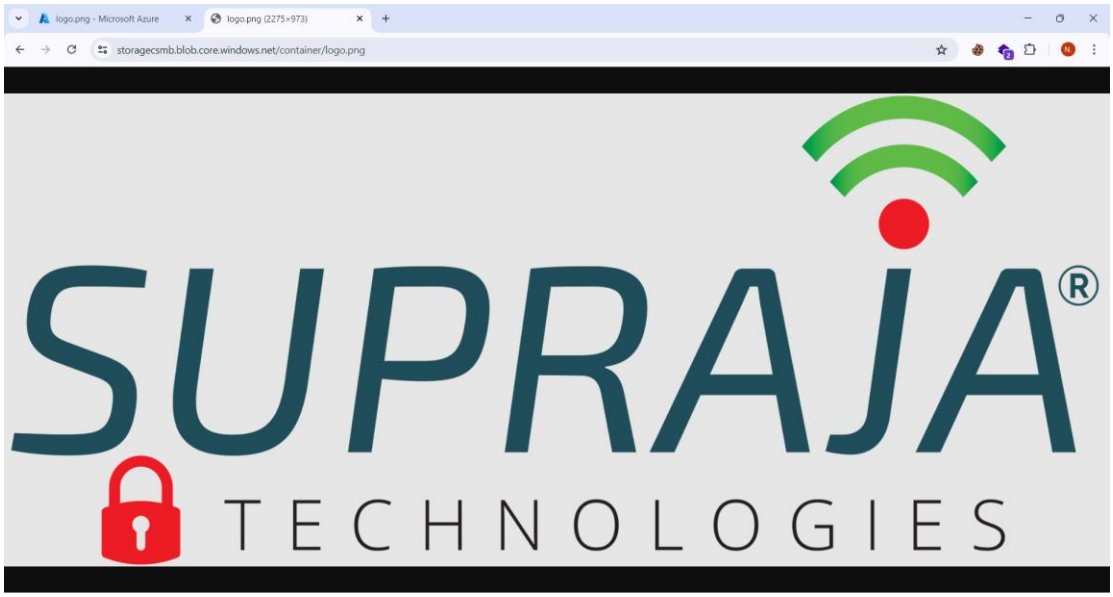

Create a storage account - Mic
portal.azure.com/#create/Microsoft.StorageAccount-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
Home > Storage accounts >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review + create
View automation template
Basics
Subscription
Azure for Students
Resource group
AZ2024
Location
Central India
Storage account name
storagecsmb
Performance
Standard
Replication
Locally-redundant storage (LRS)
Advanced
Enable hierarchical namespace
Disabled
Enable SFTP
Disabled
Enable network file system v3
Disabled
Allow cross-tenant replication
Disabled
Access tier
Hot
Enable large file shares
Enabled
Previous
Next
Create
Give feedback


storagecsmb_1718784602598
portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F380a12c2-d226-4e09-9aa0-72861bbef1c9%2FresourceGroups%2FAZ2024...
Microsoft Azure
Search resources, services, and docs (G+/)
Home >
storagecsmb_1718784602598 | Overview
Deployment
Search
Delete
Cancel
Redeploy
Download
Refresh
Overview
Inputs
Outputs
Template
Your deployment is complete
Deployment name: storagecsmb_1718784602598
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 1:40:18 pm
Correlation ID: 1f3a4405-dd5a-47f1-97f8-77da252dda09
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Deployment succeeded
Deployment 'storagecsmb_1718784602598' to resource group 'AZ2024' 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
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >


Microsoft Azure
storagecsmb | Containers
Storage account
New container
Name *
container
Anonymous access level
Blob (anonymous read access for blobs only)
Blobs within the container can be read by anonymous request, but container data is not available. Anonymous clients cannot enumerate the blobs within the container.
Advanced
Create
Give feedback
Name
Last modified
Anonymous
$logs
19/6/2024, 1:44:13 pm
Private


Microsoft Azure
container
Container
Upload blob
1 file(s) selected: logo.png
Drag and drop files here or Browse for files
Overwrite if files already exist
Advanced
Upload
Give feedback
Authentication method: Access key (Switch to Microsoft Entra user account)
Location: container
Search blobs by prefix (case-sensitive)
Add filter
Name
Modified
Access tier
image.png
19/6/2024, 1:45:28 pm
Hot (Inferred)


Microsoft Azure
container
Container
logo.png
Blob
Overview
Versions
Snapshots
Edit
Generate SAS
Copy to clipboard
Properties
URL
LAST MODIFIED
19/6/2024, 1:47:05 pm
CREATION TIME
19/6/2024, 1:47:05 pm
VERSION ID
TYPE
Block blob
SIZE
104.45 KiB
ACCESS TIER
Hot (Inferred)
ACCESS TIER LAST MODIFIED
N/A
ARCHIVE STATUS
REHYDRATE PRIORITY
SERVER ENCRYPTED
true
ETAG
0x8DC9038346452A2
VERSION-LEVEL IMMUTABILITY POLICY
Disabled
CACHE-CONTROL
CONTENT-TYPE
image/png
CONTENT-MD5
CONTENT-ENCODING
image.png
logo.png


logo.png - Microsoft Azure
logo.png (2275×973)
storagecsmb.blob.core.windows.net/container/logo.png
SUPRAJA®
TECHNOLOGIES

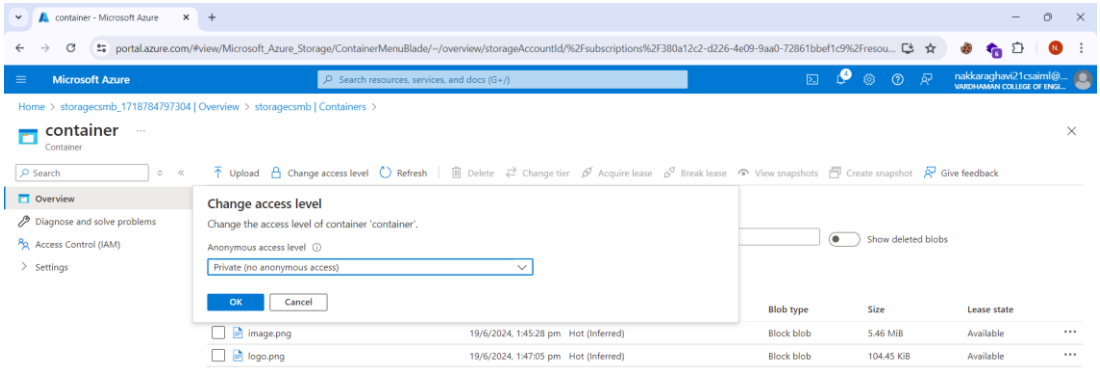
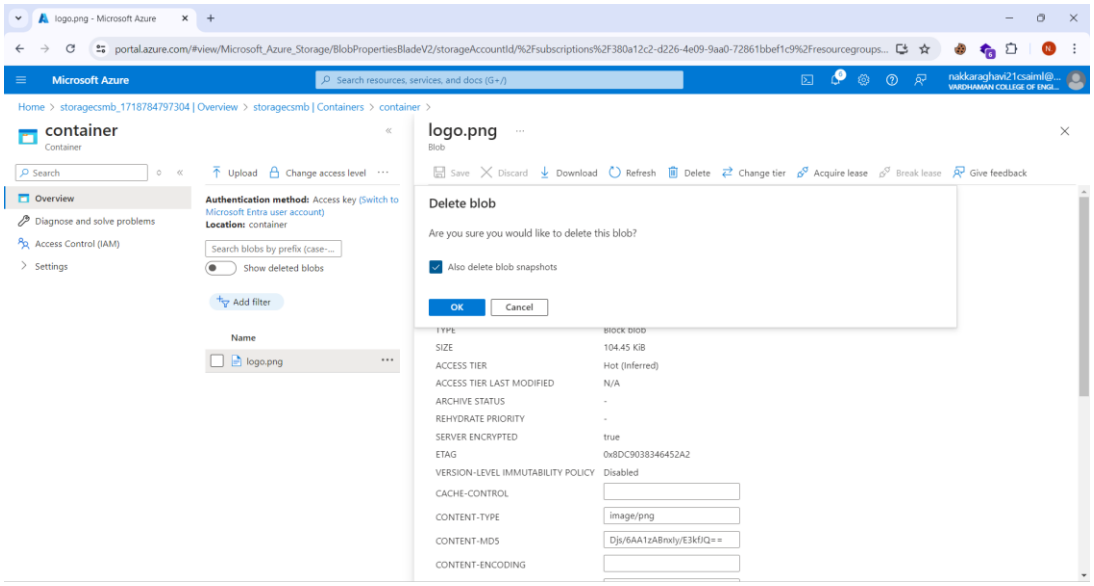
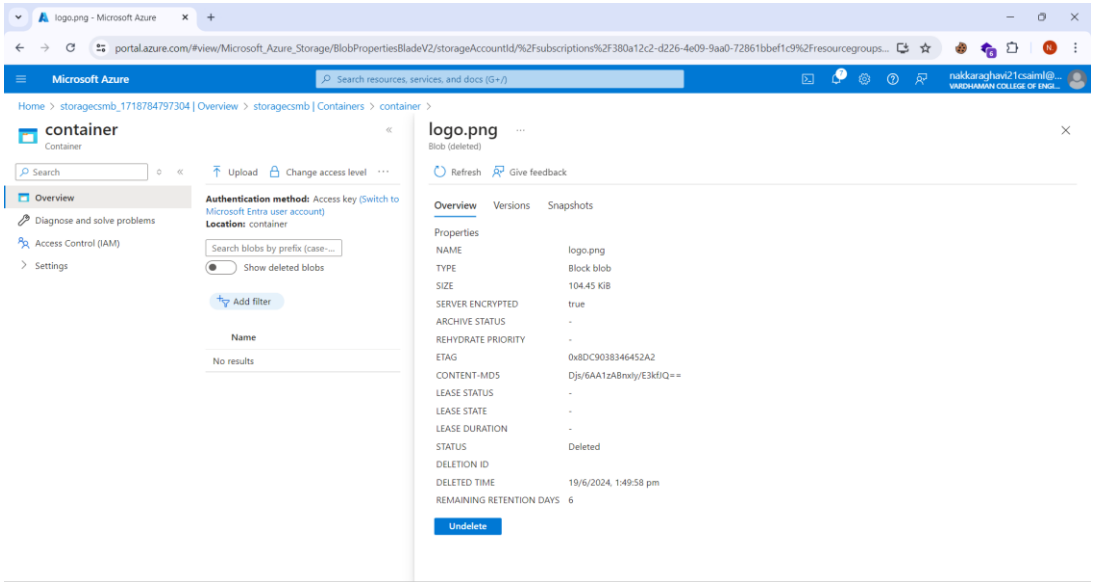
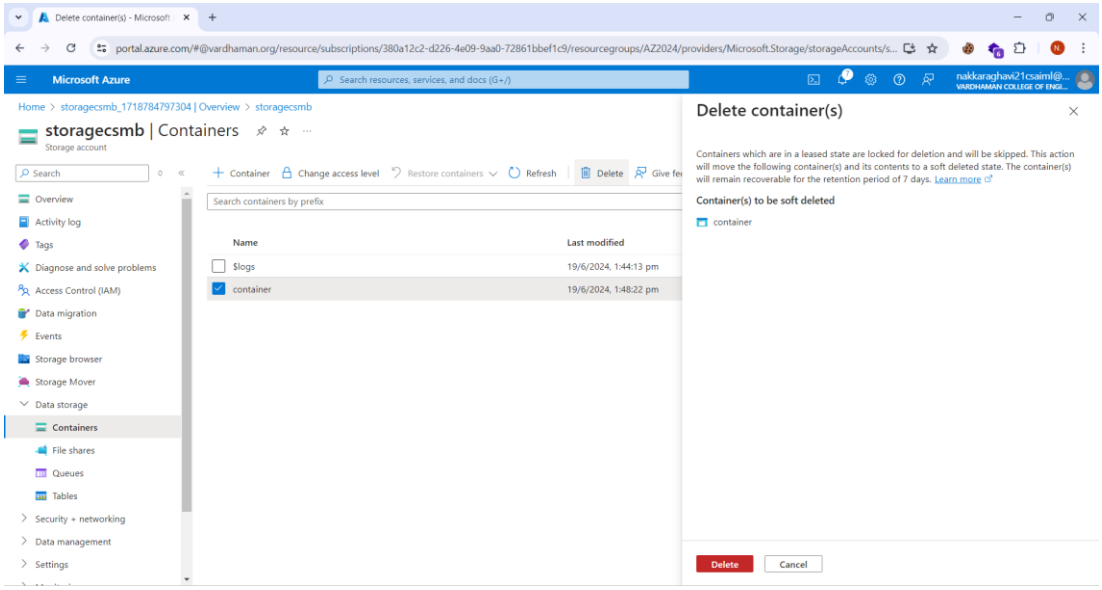

container - Microsoft Azure
portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F380a12c2-d226-4e09-9aa0-72861bbef1c9%2Fresou...
Microsoft Azure
Search resources, services, and docs (G+/)
Home > storagecsmb_1718784797304 | Overview > storagecsmb | Containers >
container
Container
Search
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Break lease
View snapshots
Create snapshot
Give feedback
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Change access level
Change the access level of container 'container'.
Anonymous access level
Private (no anonymous access)
OK
Cancel
Show deleted blobs
Blob type
Size
Lease state
image.png
19/6/2024, 1:45:28 pm
Hot (Inferred)
Block blob
5.46 MiB
Available
logo.png
19/6/2024, 1:47:05 pm
Hot (Inferred)
Block blob
104.45 KiB
Available


image.png - Microsoft Azure
storagecsmb.blob.core.windows.net/container/image.png
This XML file does not appear to have any style information associated with it. The document tree is shown below.
<Error>
<Code>ResourceNotFound</Code>
<Message>The specified resource does not exist. RequestId:10a64985-301e-0054-4721-c2f443000000 Time:2024-06-19T08:18:35.9410158Z</Message>
</Error>







Result: Above experiment is successfully executed and verified.

13) Implement Static Web Host in Azure Portal

Steps:

1) Open azure portal and click on Storage Accounts

2) Create a Storage Account with name storagecsmb

3) Click on review + create

4) Once Deployment is completed, go to recourse

5) Go to storagecsmb storage account and click on “static website”

6) Enable the static website and name document with “index.html” and error as 404 and save

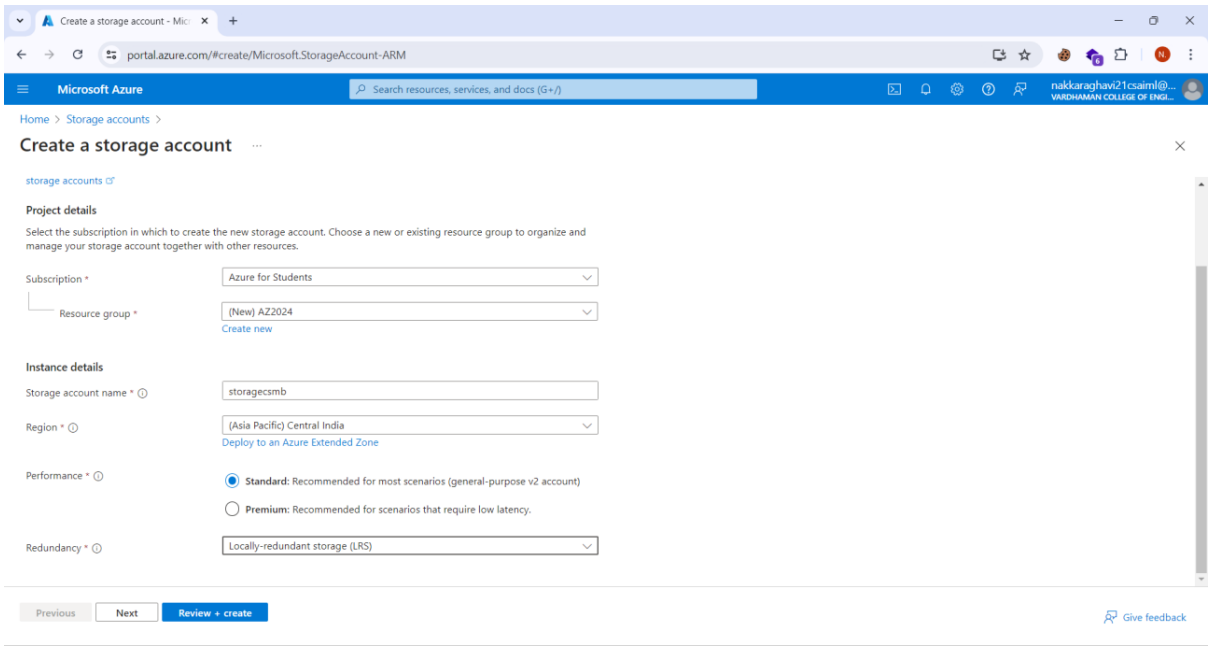
7) Copy link generated and save

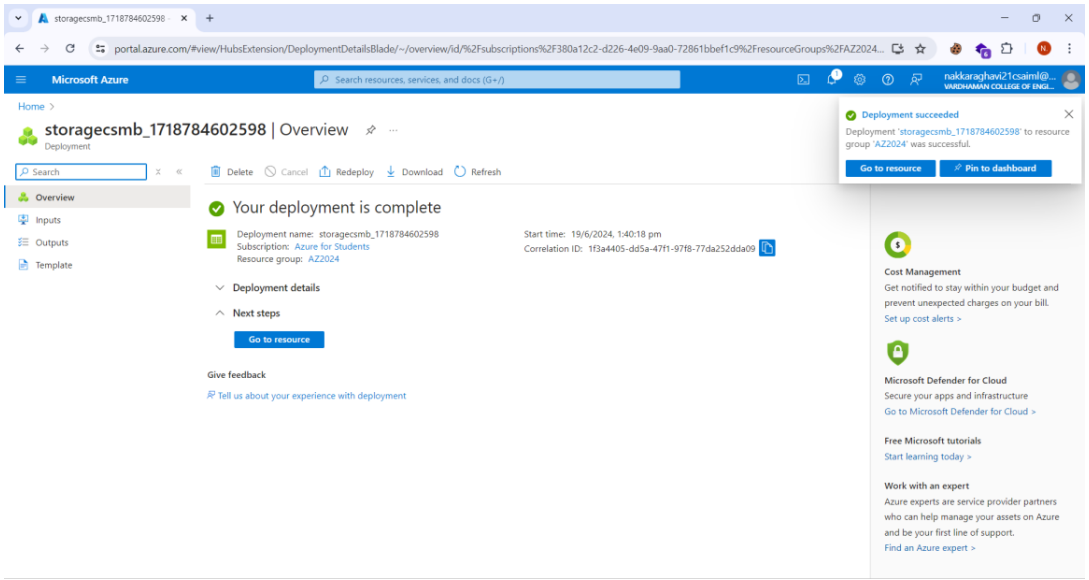
8) Go to containers and click on web

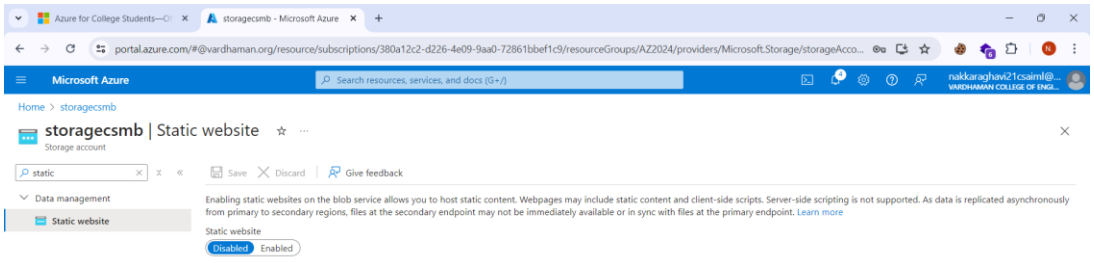
9) Add a file as blob named “index.html”

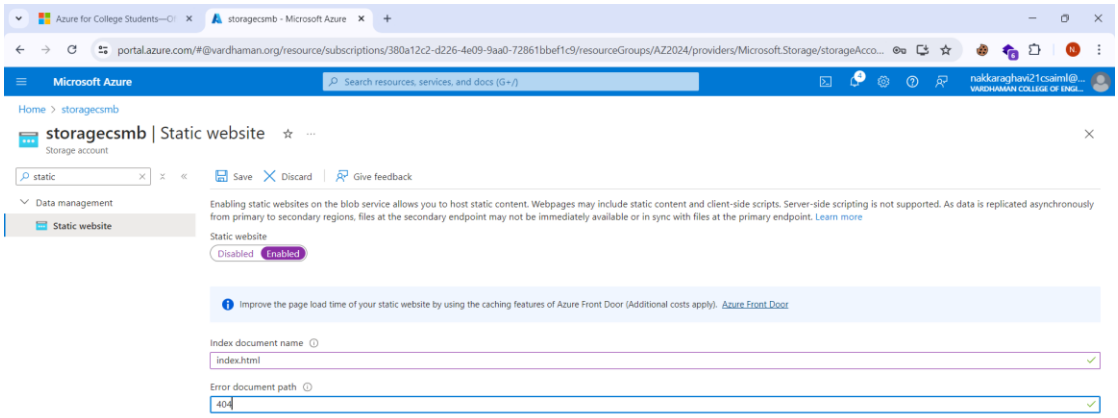
10) Open new tab in the browser and paste the copied link

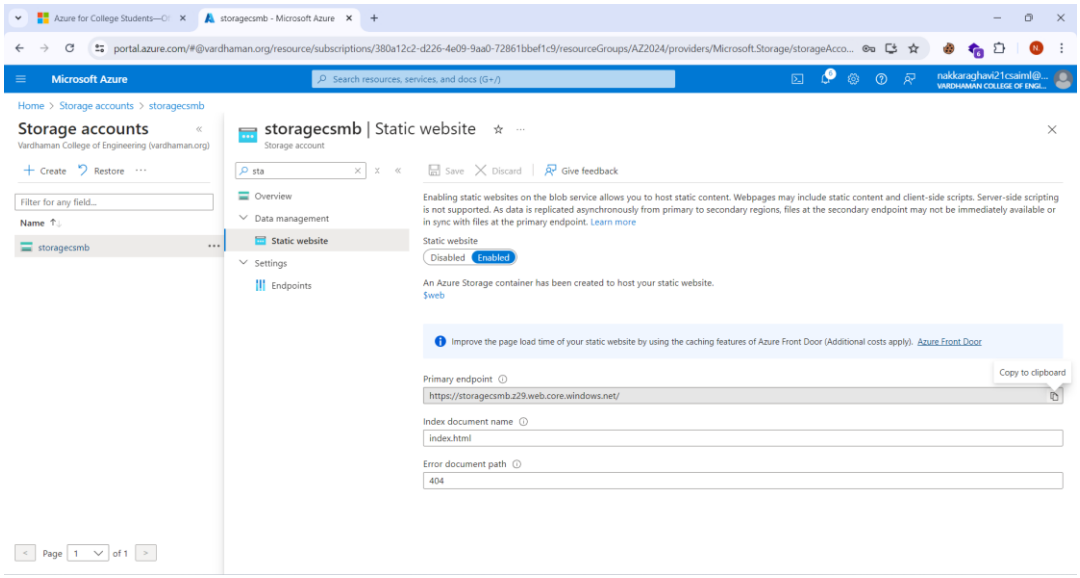
11) We can see the web hosted in the browser

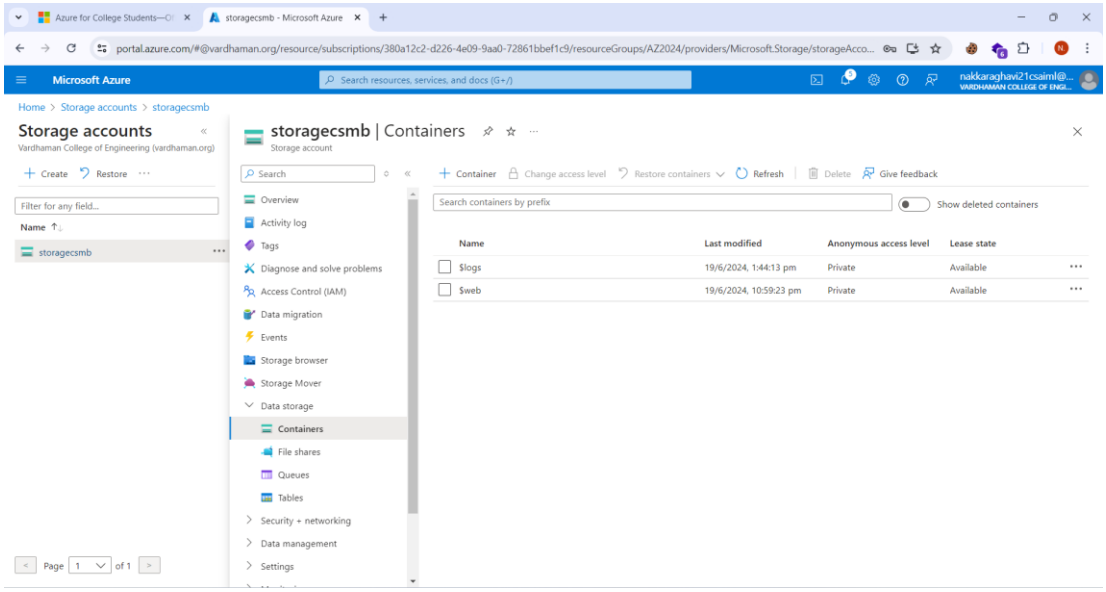


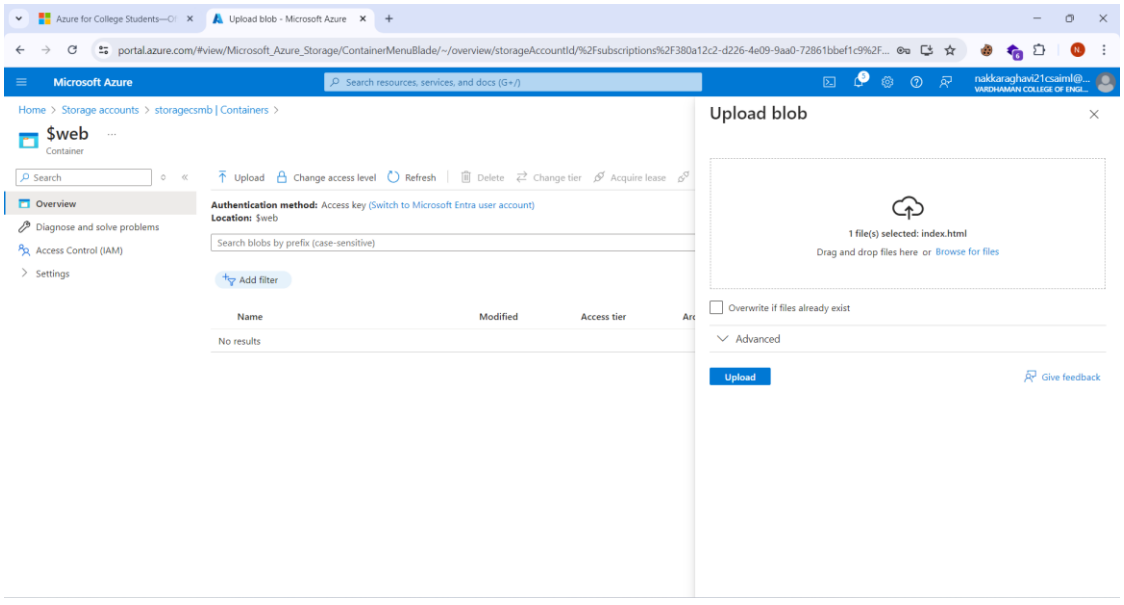

Microsoft Azure
Home >
storagecsmb_1718784602598 | Overview
Deployment
Search
Delete
Cancel
Redeploy
Download
Refresh
Overview
Inputs
Outputs
Template
Your deployment is complete
Deployment name: storagecsmb_1718784602598
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 1:40:18 pm
Correlation ID: 1f3a4405-dd5a-47f1-97f8-77da252dda09
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Deployment succeeded
Deployment 'storagecsmb_1718784602598' to resource group 'AZ2024' 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
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

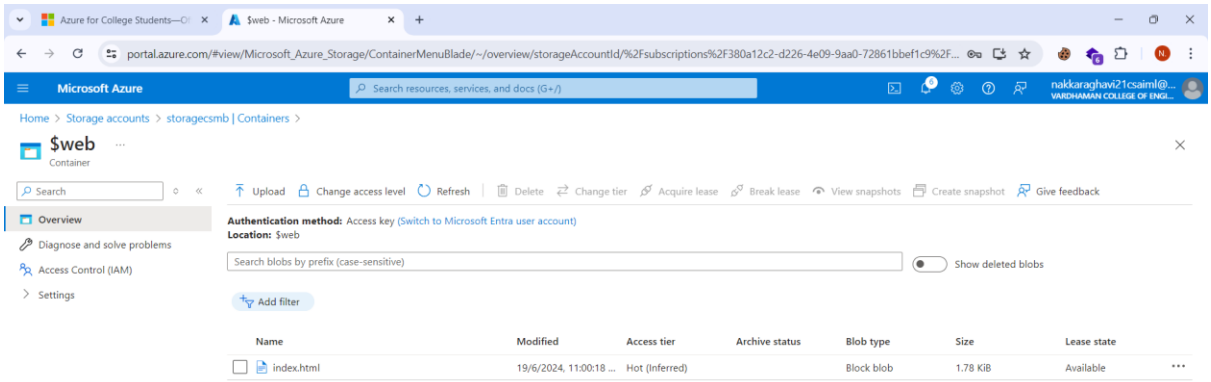

Microsoft Azure
Home > storagecsmb
storagecsmb | Static website
Storage account
static
Data management
Static website
Save
Discard
Give feedback
Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. Learn more
Static website
Disabled
Enabled

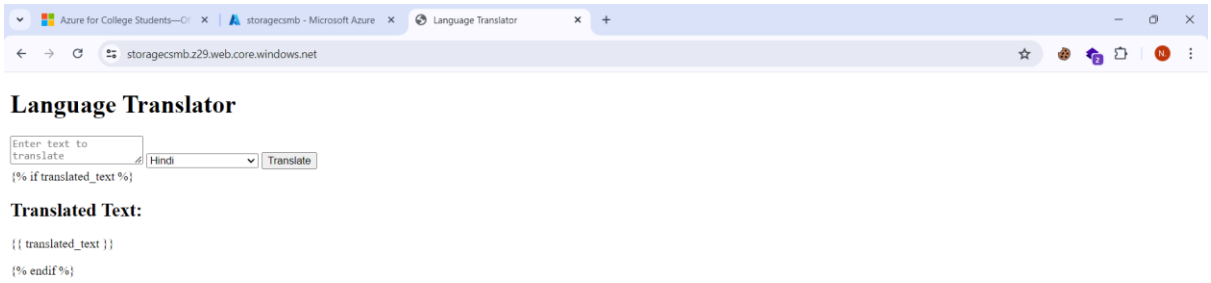

Microsoft Azure
Home > storagecsmb
storagecsmb | Static website
Storage account
static
Data management
Static website
Save
Discard
Give feedback
Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. Learn more
Static website
Disabled
Enabled
Improve the page load time of your static website by using the caching features of Azure Front Door (Additional costs apply). Azure Front Door
Index document name
index.html
Error document path
404


Microsoft Azure
Home > Storage accounts > storagecsmb
Storage accounts
Vardhaman College of Engineering (vardhaman.org)
storagecsmb | Static website
Storage account
Overview
Data management
Static website
Settings
Endpoints
Enabling static websites on the blob service allows you to host static content. Webpages may include static content and client-side scripts. Server-side scripting is not supported. As data is replicated asynchronously from primary to secondary regions, files at the secondary endpoint may not be immediately available or in sync with files at the primary endpoint. Learn more
Static website
Disabled
Enabled
An Azure Storage container has been created to host your static website.
$web
Improve the page load time of your static website by using the caching features of Azure Front Door (Additional costs apply). Azure Front Door
Primary endpoint
https://storagecsmb.z29.web.core.windows.net/
Copy to clipboard
Index document name
index.html
Error document path
404


Microsoft Azure
Home > Storage accounts > storagecsmb
Storage accounts
Vardhaman College of Engineering (vardhaman.org)
storagecsmb | Containers
Storage account
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Data storage
Containers
File shares
Queues
Tables
Security + networking
Data management
Settings
Container
Change access level
Restore containers
Refresh
Delete
Give feedback
Search containers by prefix
Show deleted containers
Name
Last modified
Anonymous access level
Lease state
$logs
19/6/2024, 1:44:13 pm
Private
Available
$web
19/6/2024, 10:59:23 pm
Private
Available


Microsoft Azure
Home > Storage accounts > storagecsmb | Containers >
$web
Container
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Upload
Change access level
Refresh
Delete
Change tier
Acquire lease
Authentication method: Access key (Switch to Microsoft Entra user account)
Location: $web
Search blobs by prefix (case-sensitive)
Add filter
Name
Modified
Access tier
No results
Upload blob
1 file(s) selected: index.html
Drag and drop files here or Browse for files
Overwrite if files already exist
Advanced
Upload
Give feedback





Result: Above experiment is successfully executed and verified.

14) Implement Object Replication in storage explorer

Steps:

Step-1: Create a storage account-1 with name storagecsmb with LRS redundancy

Step-2: Create a container in storage account-1 with name container-1

Step-3: Create a storage account-2 with name storagecsmb2 with LRS redundancy

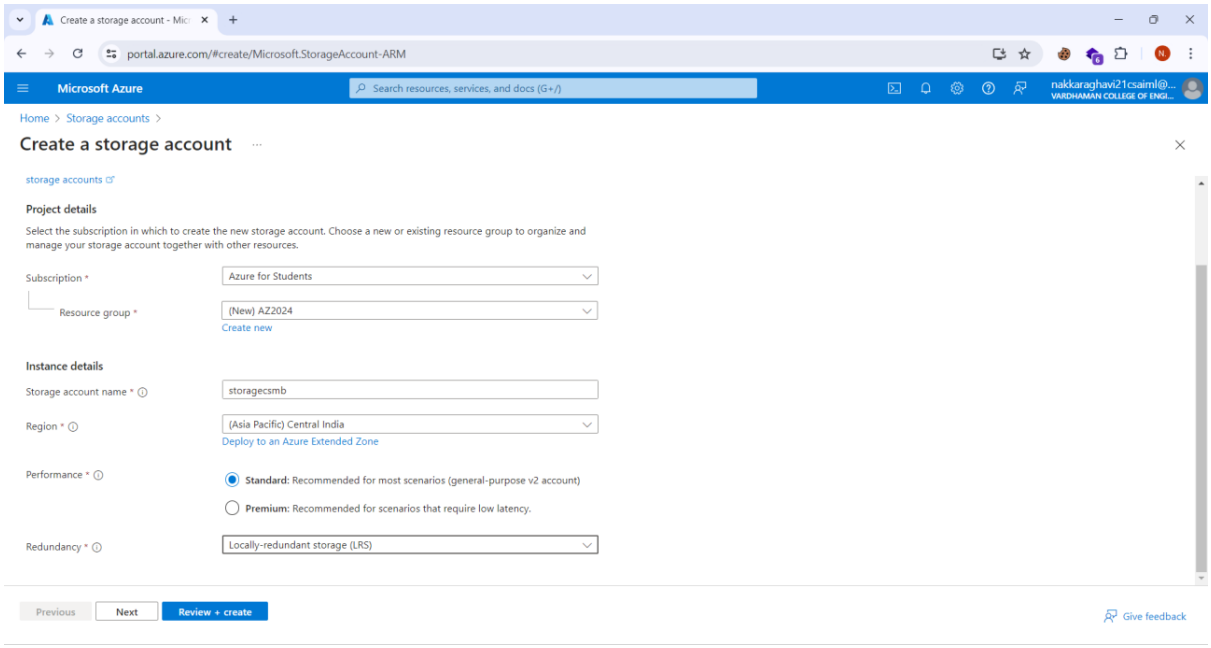
Step-4: Create a container in storage account-2 with name container-2

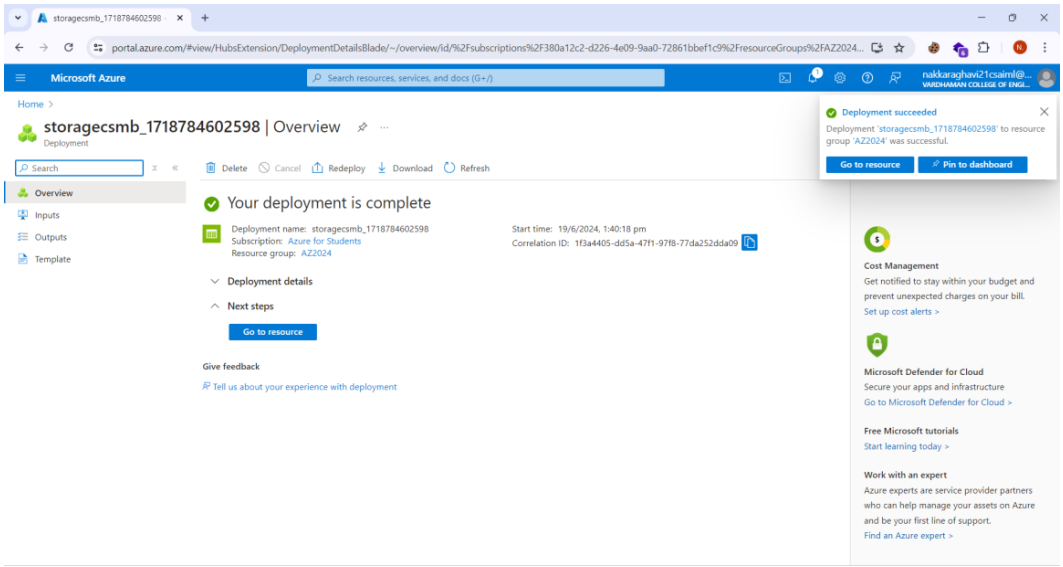
Step-5: Open storage account1, Open object replication: Destination file: account2 and Source: conatiner1, Destination container: 2

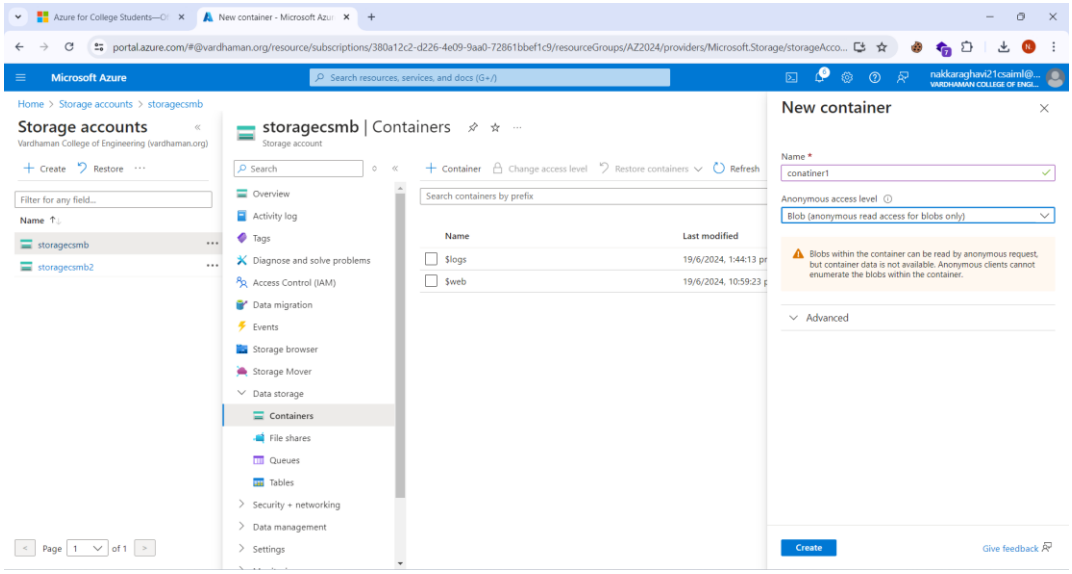
Step-6: Upload file in container1 for example index.html

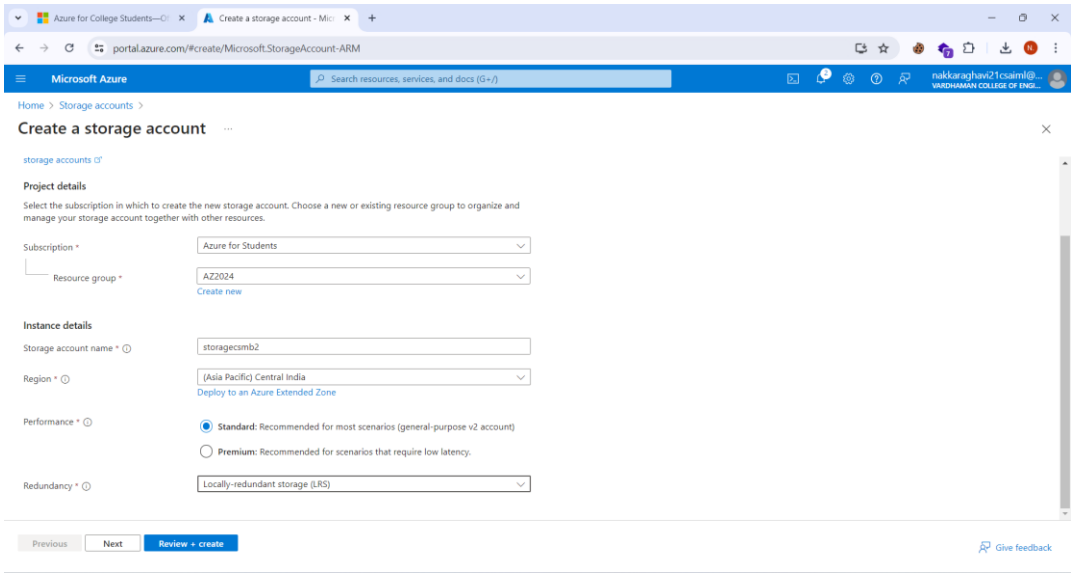
Step-7: Check in the container 2 for document uploaded in container 1

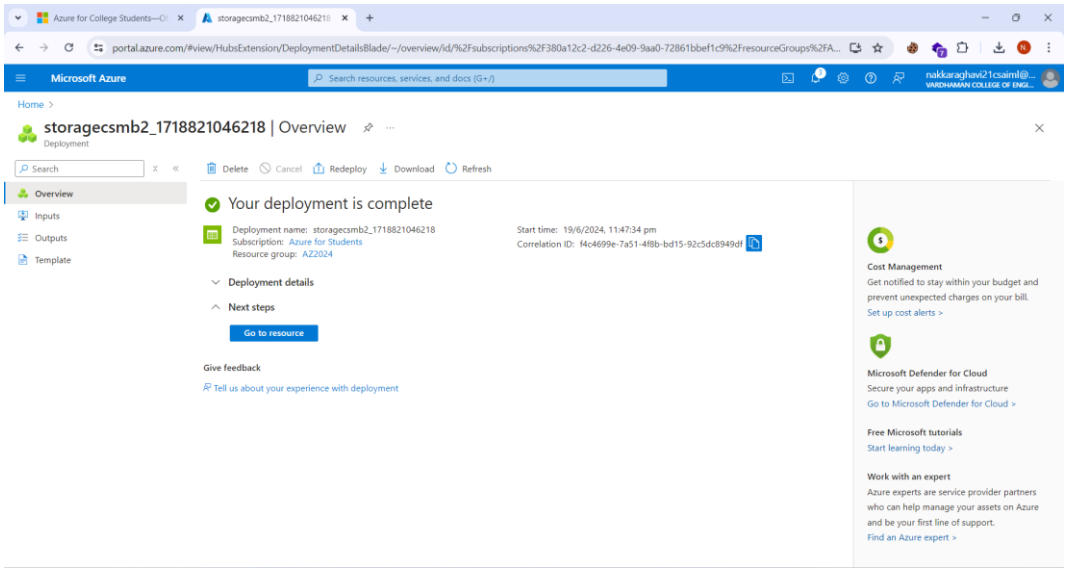
Step-8: Refresh for better results

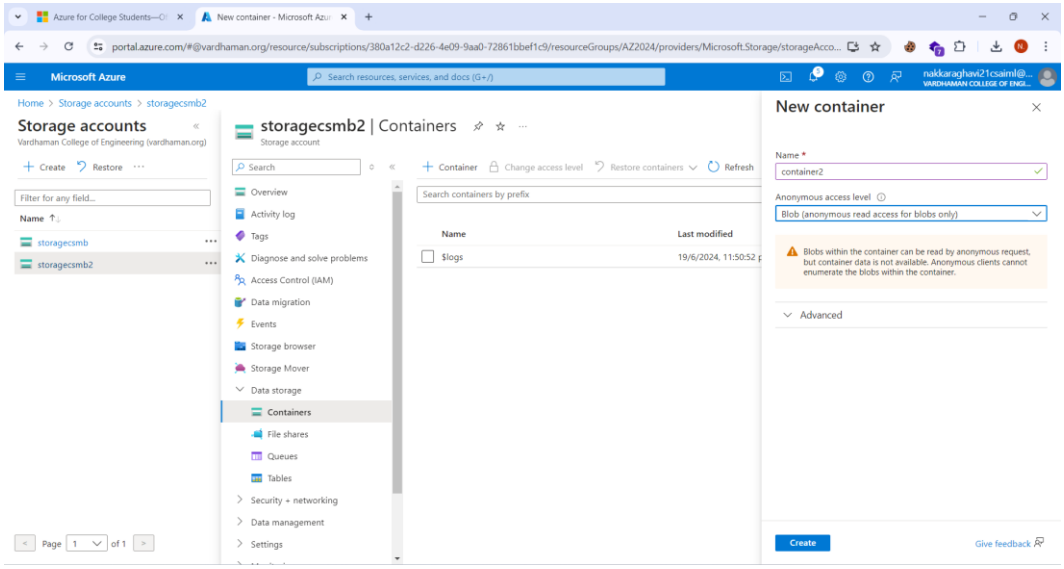


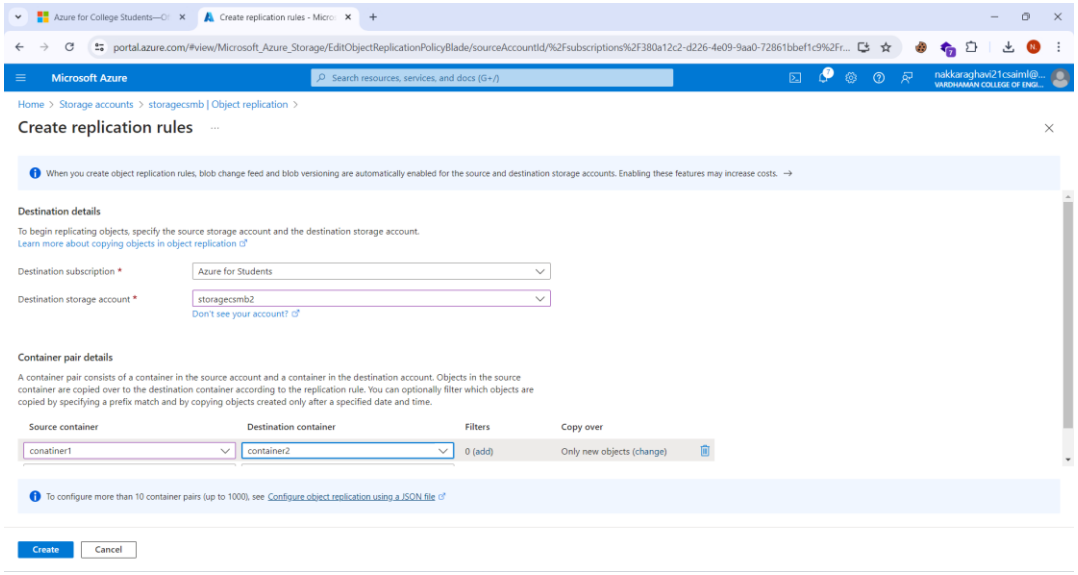

Microsoft Azure
storagecsmb_1718784602598 | Overview
Deployment
Your deployment is complete
Deployment succeeded
Go to resource
Pin to dashboard
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment name: storagecsmb_1718784602598
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 1:40:18 pm
Correlation ID: 1f3a4405-dd5a-47f1-97f8-77da252dda09
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >

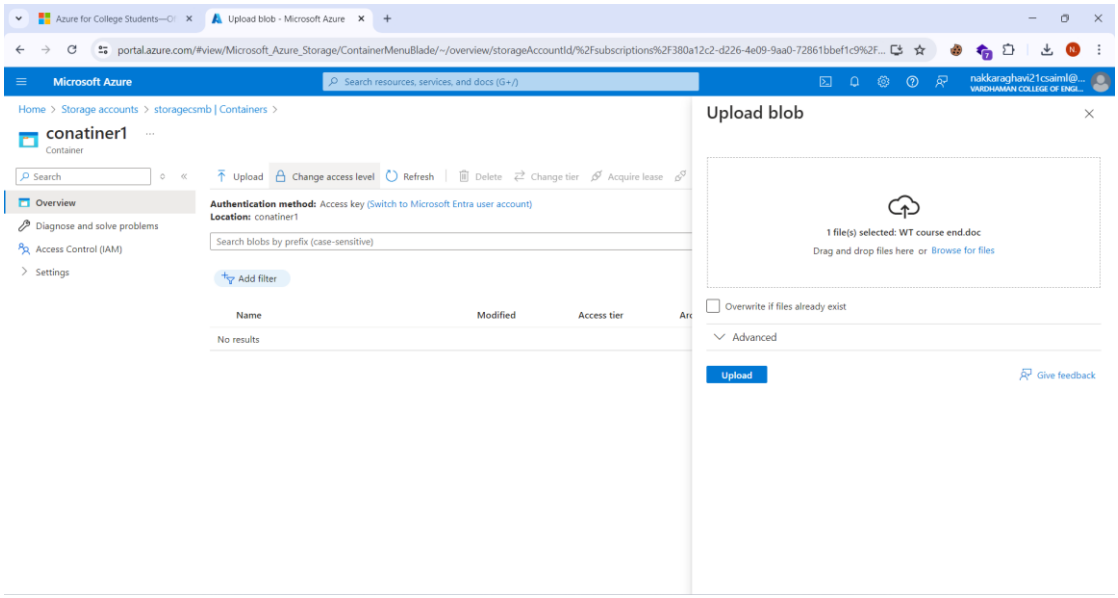

Microsoft Azure
Storage accounts
Vardhaman College of Engineering (vardhaman.org)
storagecsmb | Containers
Storage account
New container
Name *
conatiner1
Anonymous access level
Blob (anonymous read access for blobs only)
Blobs within the container can be read by anonymous request, but container data is not available. Anonymous clients cannot enumerate the blobs within the container.
Advanced
Create
Give feedback
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Data storage
Containers
File shares
Queues
Tables
Security + networking
Data management
Settings
$logs
$web

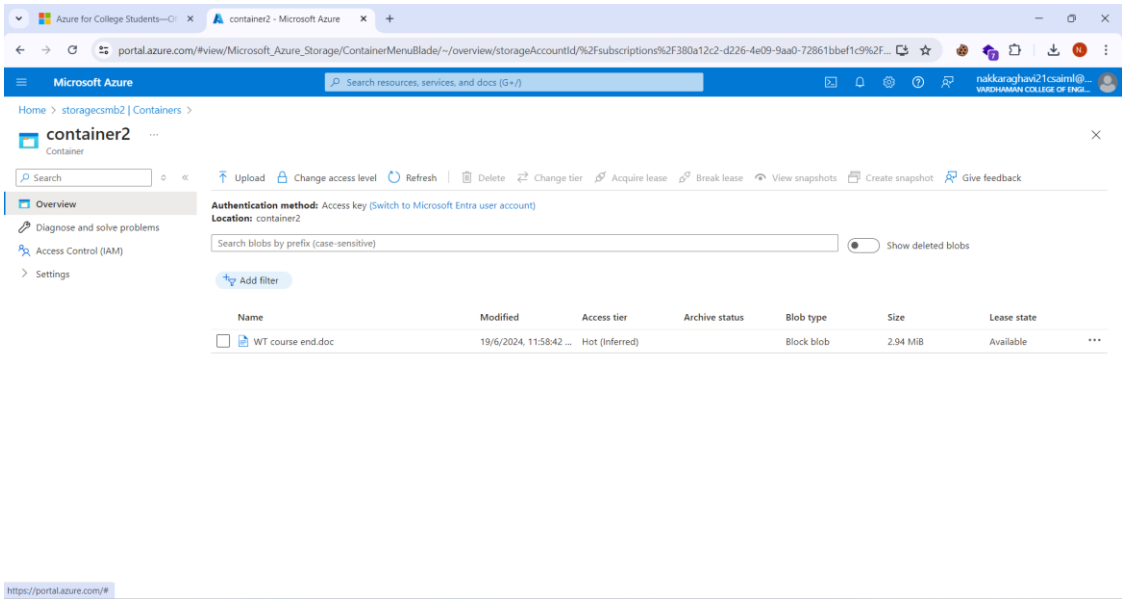

Microsoft Azure
Create a storage account
Project details
Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.
Subscription *
Azure for Students
Resource group *
AZ2024
Create new
Instance details
Storage account name *
storagecsmb2
Region *
(Asia Pacific) Central India
Deploy to an Azure Extended Zone
Performance *
Standard: Recommended for most scenarios (general-purpose v2 account)
Premium: Recommended for scenarios that require low latency.
Redundancy *
Locally-redundant storage (LRS)
Previous
Next
Review + create
Give feedback


Microsoft Azure
Home >
storagecsmb2_1718821046218 | Overview
Deployment
Delete
Cancel
Redeploy
Download
Refresh
Overview
Inputs
Outputs
Template
Your deployment is complete
Deployment name: storagecsmb2_1718821046218
Subscription: Azure for Students
Resource group: AZ2024
Start time: 19/6/2024, 11:47:34 pm
Correlation ID: f4c4699e-7a51-4f8b-bd15-92c5dc8949df
Deployment details
Next steps
Go to resource
Give feedback
Tell us about your experience with deployment
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
Work with an expert
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.
Find an Azure expert >


Microsoft Azure
Home > Storage accounts > storagecsmb2
Storage accounts
Vardhaman College of Engineering (vardhaman.org)
storagecsmb2 | Containers
Storage account
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover
Data storage
Containers
File shares
Queues
Tables
Security + networking
Data management
Settings
Name
Last modified
$logs
New container
Name *
container2
Anonymous access level
Blob (anonymous read access for blobs only)
Blobs within the container can be read by anonymous request, but container data is not available. Anonymous clients cannot enumerate the blobs within the container.
Advanced
Create
Give feedback


Microsoft Azure
Home > Storage accounts > storagecsmb | Object replication >
Create replication rules
When you create object replication rules, blob change feed and blob versioning are automatically enabled for the source and destination storage accounts. Enabling these features may increase costs.
Destination details
To begin replicating objects, specify the source storage account and the destination storage account.
Learn more about copying objects in object replication
Destination subscription *
Azure for Students
Destination storage account *
storagecsmb2
Don't see your account?
Container pair details
A container pair consists of a container in the source account and a container in the destination account. Objects in the source container are copied over to the destination container according to the replication rule. You can optionally filter which objects are copied by specifying a prefix match and by copying objects created only after a specified date and time.
Source container
Destination container
Filters
Copy over
conatiner1
container2
0 (add)
Only new objects (change)
To configure more than 10 container pairs (up to 1000), see Configure object replication using a JSON file
Create
Cancel





Result: Above experiment is successfully executed and verified.

GITHUB REPOSITORY :

https://github.com/RaghaviNakka/Azure_CCV