Microsoft Azure Project

Group Members

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2. **Pratiksha Suresh Wankhade**
3. **Prisha Rajeshkumar pandey**

Project Title:

Doctor Appointment Application's Virtual Networking Through Azure Administration.

Problem Statement:

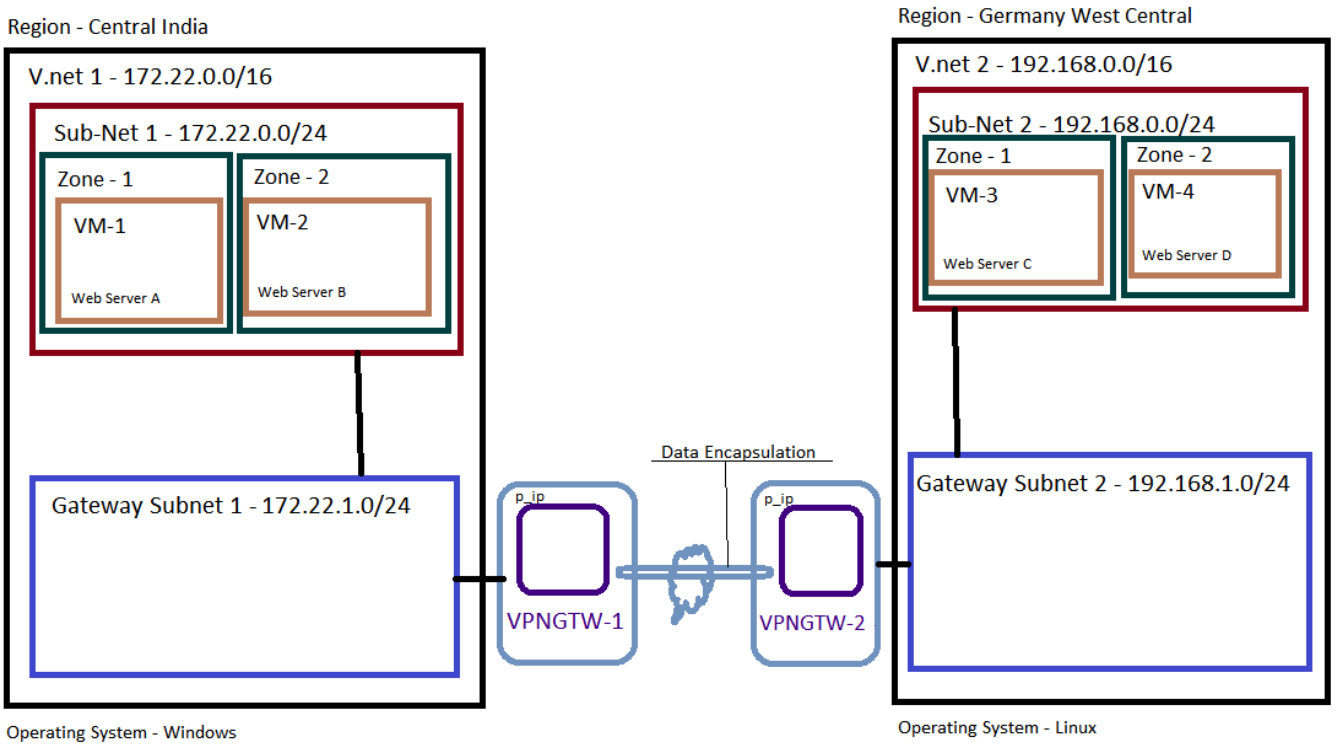
In order to facilitate doctor appointment application, the project aims to provide peering and a Virtual Private Network (VPN) connection between two virtual networks that are globally located in different regions.

Project Description:

This Project includes Various Azure instances and Services, Azure Virtual Networks, Azure Virtual Machines, Azure Portal, Azure VPN Gateway, Availability Zones, Windows and Linux images, Storage Account etc.

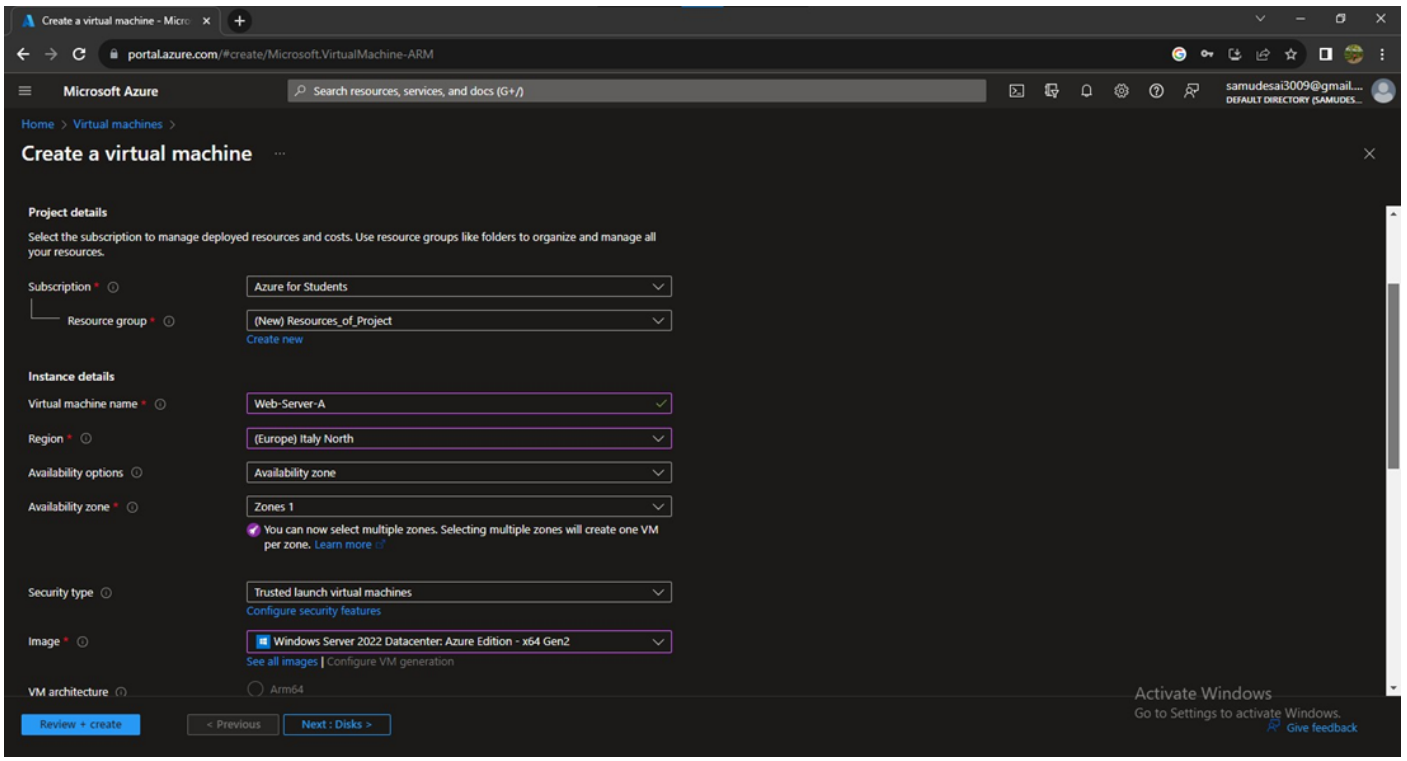
In two different locations, two virtual networks have been created.Subnets were subsequently established in each virtual network. Then, each subnet has two virtual machines created in it. A website is Hosted in each Virtual Machine. One gateway subnet is added to these virtual networks, and two virtual network gateways are then created in designated areas. Subsequently these virtual networks connected Bidirectionally with one another and established a VPN tunnel, So that it ensures the Application's traffic is private and remains on the Microsoft backbone. It will help in establishing healthy communication between two different regional networks of this Application.

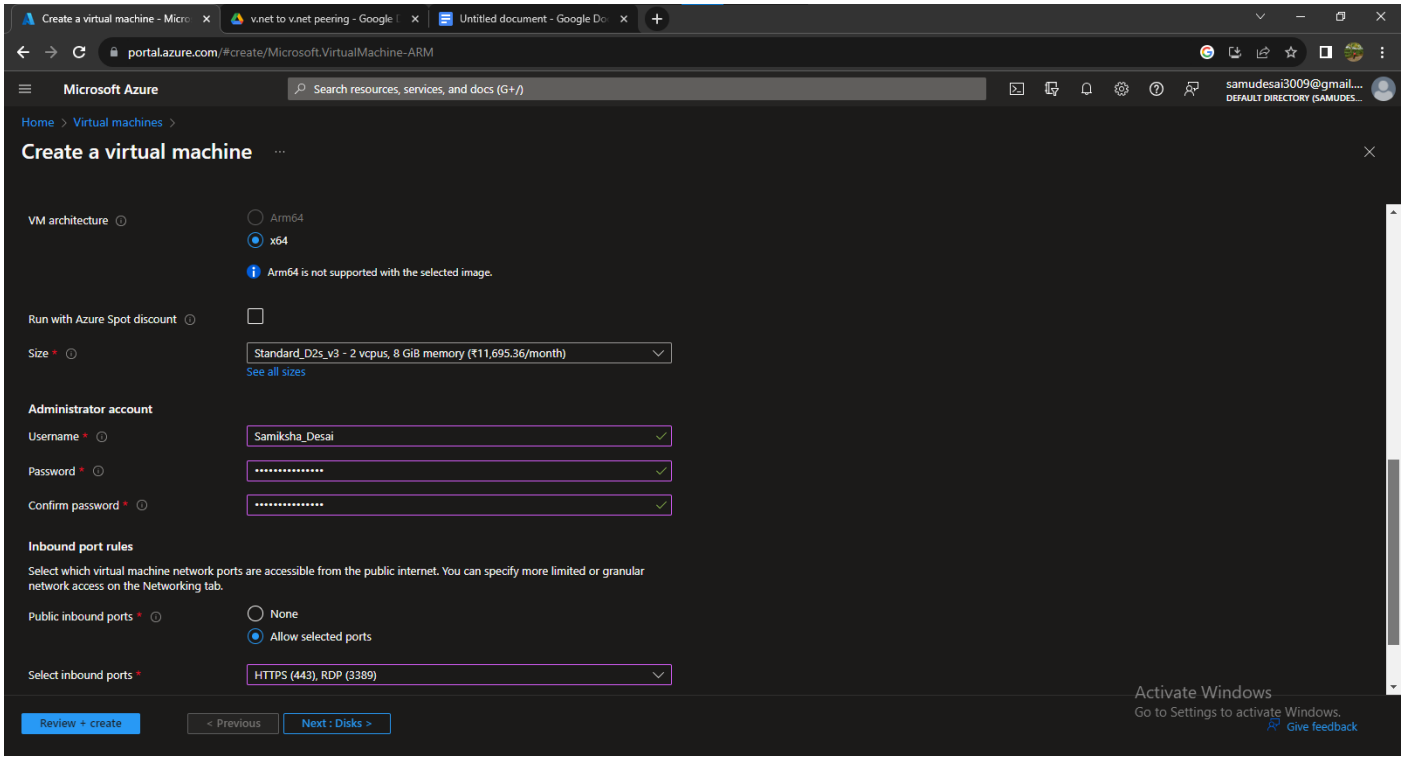
Project Architecture:



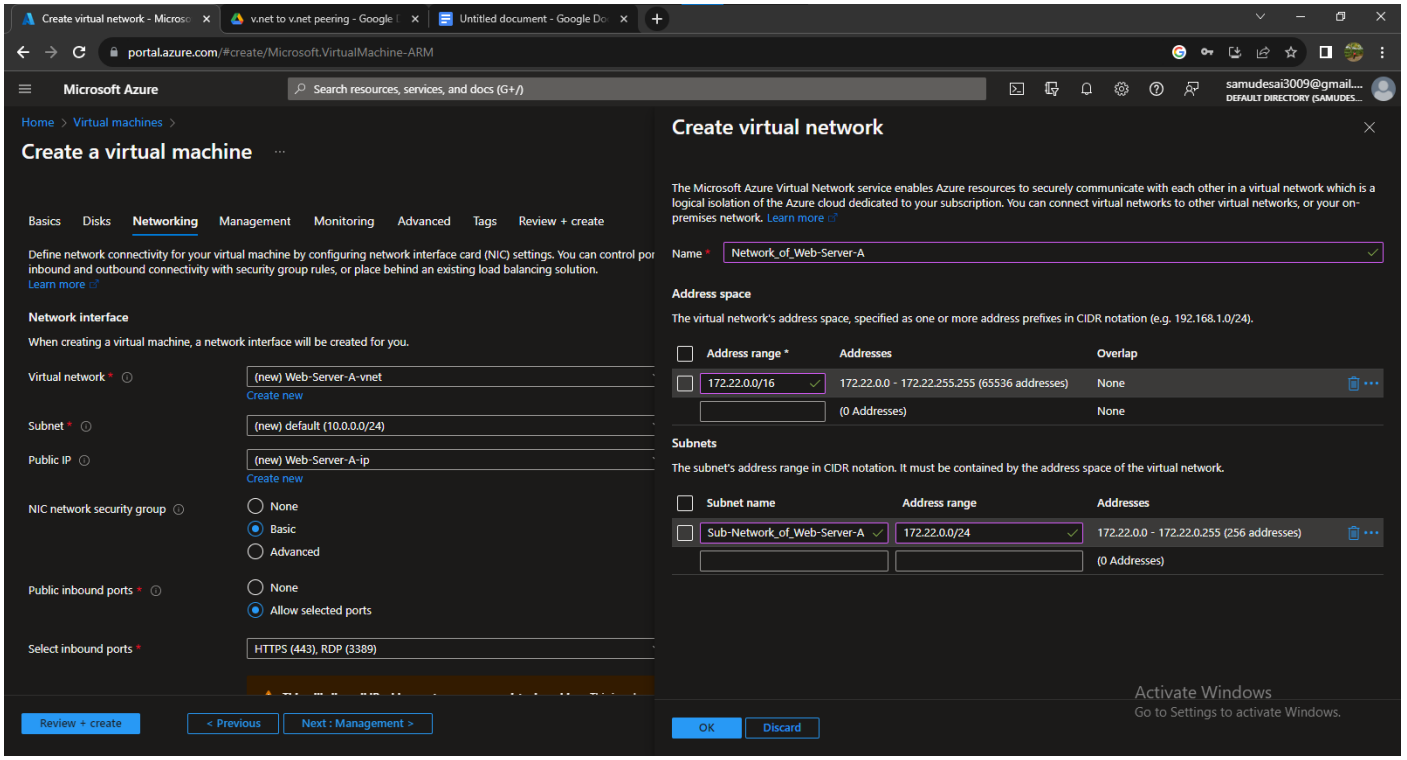
Procedure:

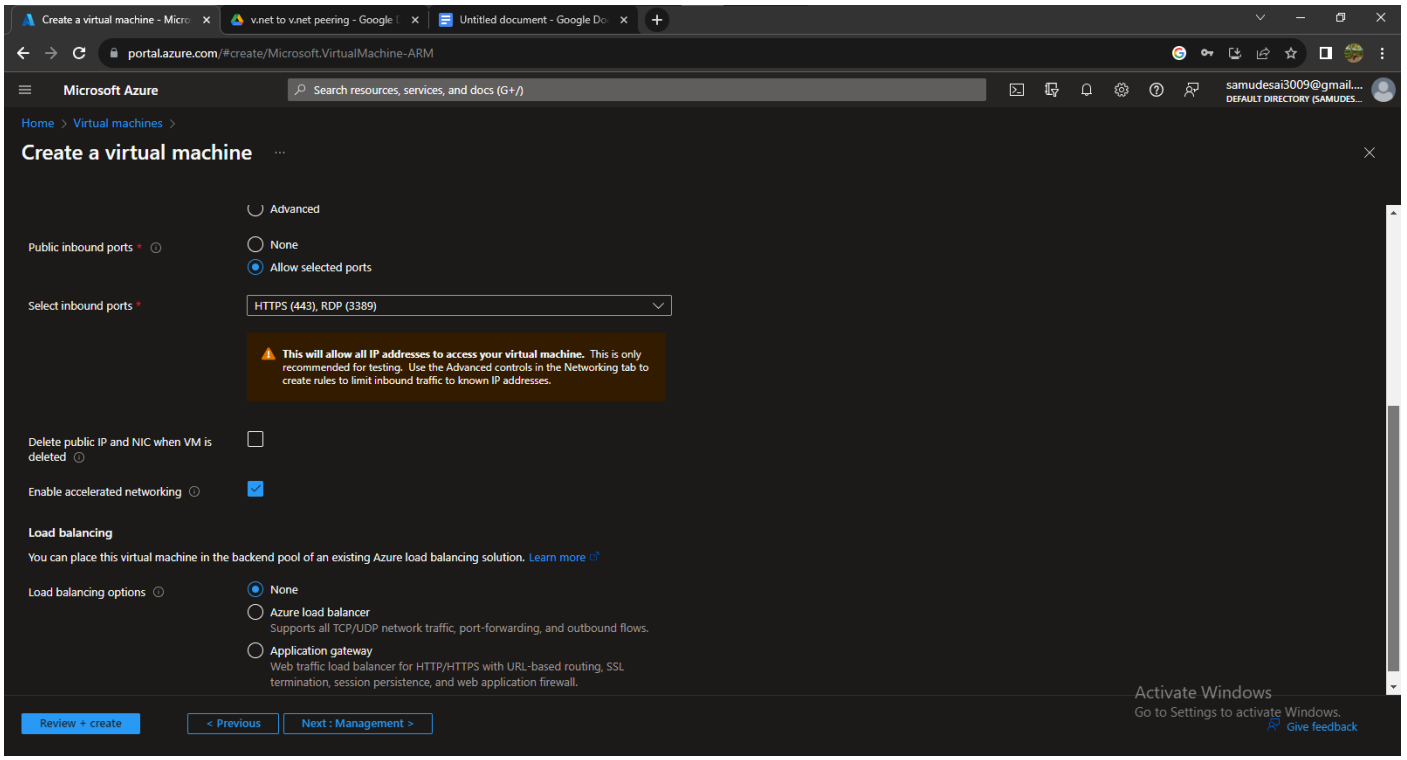
Step 1 : Creating first Virtual Machine - named ‘Web-Server-A’



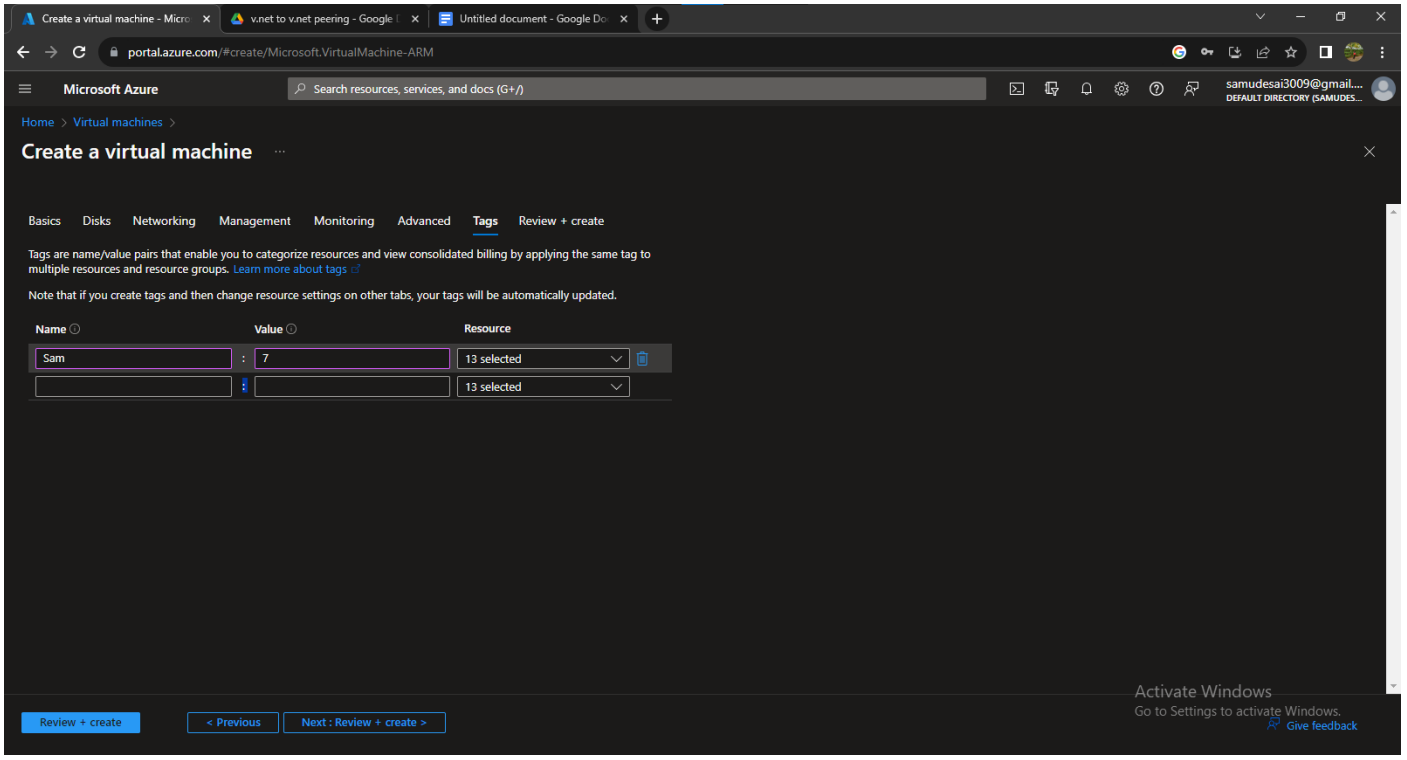


Assigning Network and Subnetwork to the VM

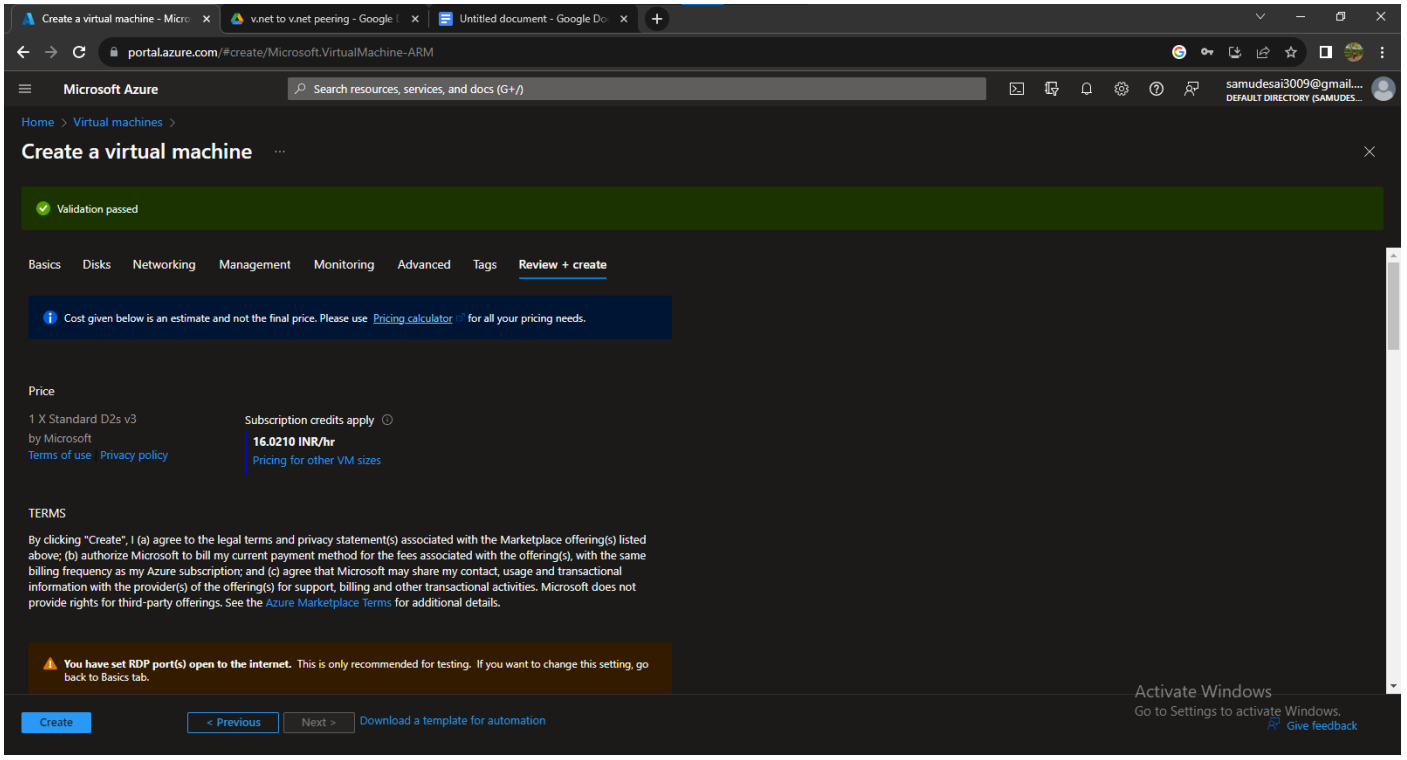


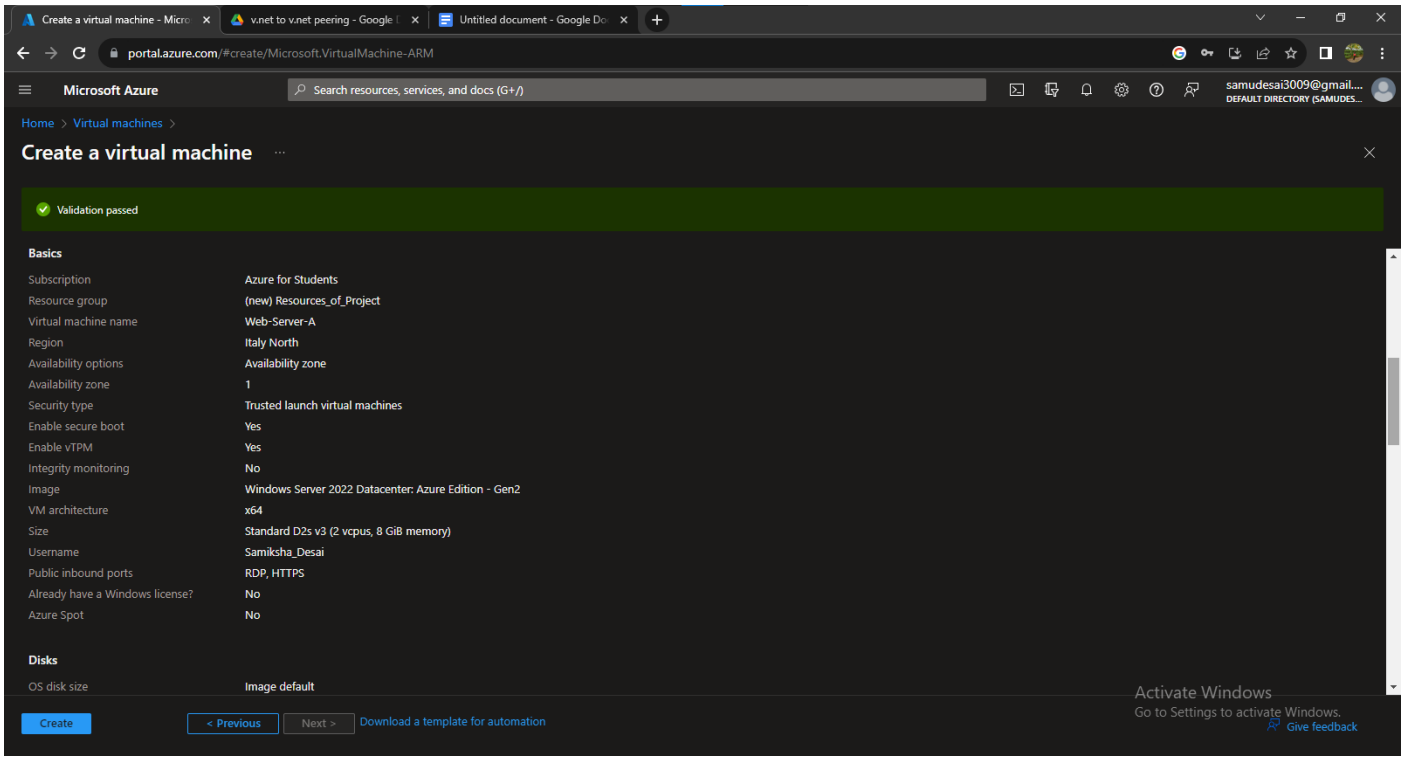


Adding Tags



Validation Passed

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DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics
Subscription Azure for Students
Resource group (new) Resources_of_Project
Virtual machine name Web-Server-A
Region Italy North
Availability options Availability zone
Availability zone 1
Security type Trusted launch virtual machines
Enable secure boot Yes
Enable vTPM Yes
Integrity monitoring No
Image Windows Server 2022 Datacenter: Azure Edition - Gen2
VM architecture x64
Size Standard D2s v3 (2 vcpus, 8 GiB memory)
Username Samiksha_Desai
Public inbound ports RDP, HTTPS
Already have a Windows license? No
Azure Spot No
Disks
OS disk size Image default
Create
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Next >
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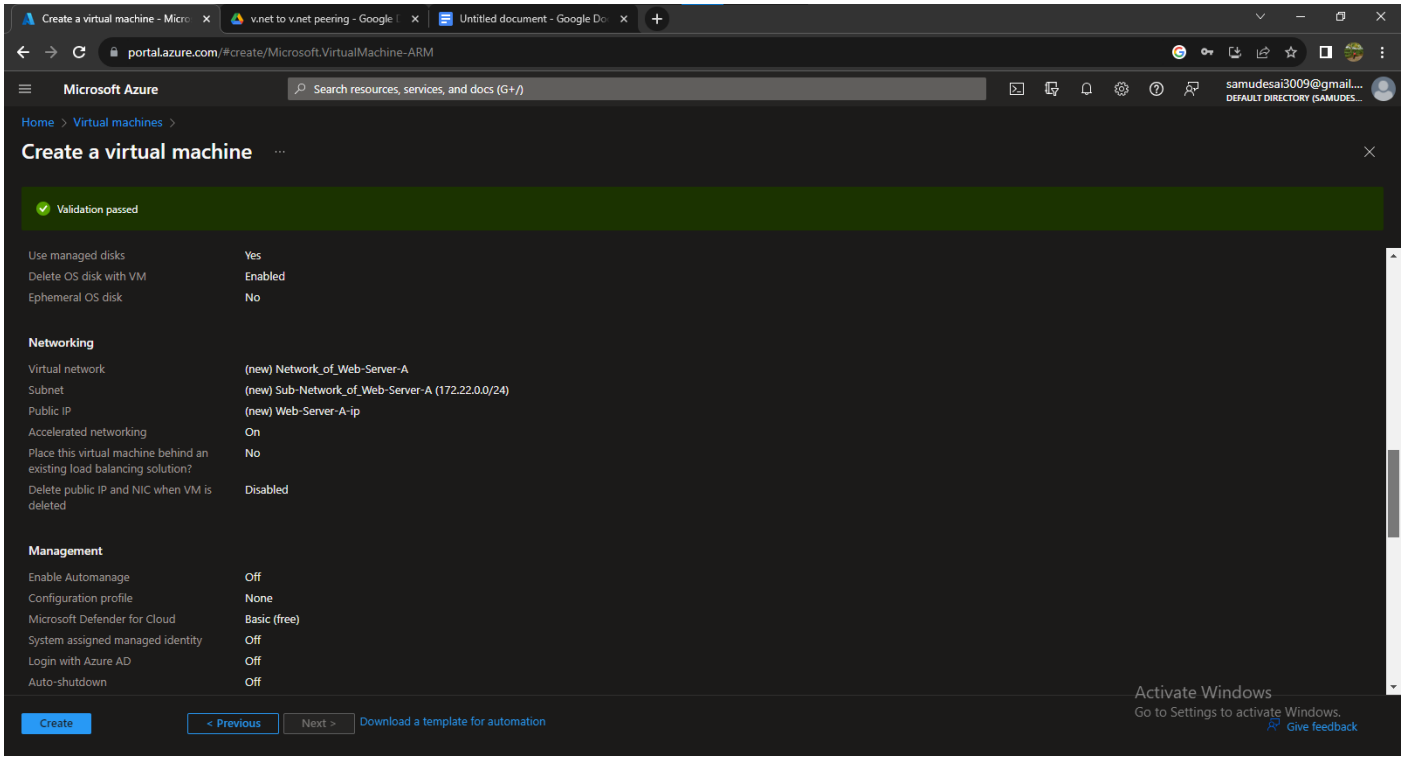
Go to Settings to activate Windows.
Give feedback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Home > Virtual machines >
Create a virtual machine
Validation passed
Use managed disks Yes
Delete OS disk with VM Enabled
Ephemeral OS disk No
Networking
Virtual network (new) Network_of_Web-Server-A
Subnet (new) Sub-Network_of_Web-Server-A (172.22.0.0/24)
Public IP (new) Web-Server-A-ip
Accelerated networking On
Place this virtual machine behind an existing load balancing solution? No
Delete public IP and NIC when VM is deleted Disabled
Management
Enable Automanage Off
Configuration profile None
Microsoft Defender for Cloud Basic (free)
System assigned managed identity Off
Login with Azure AD Off
Auto-shutdown Off
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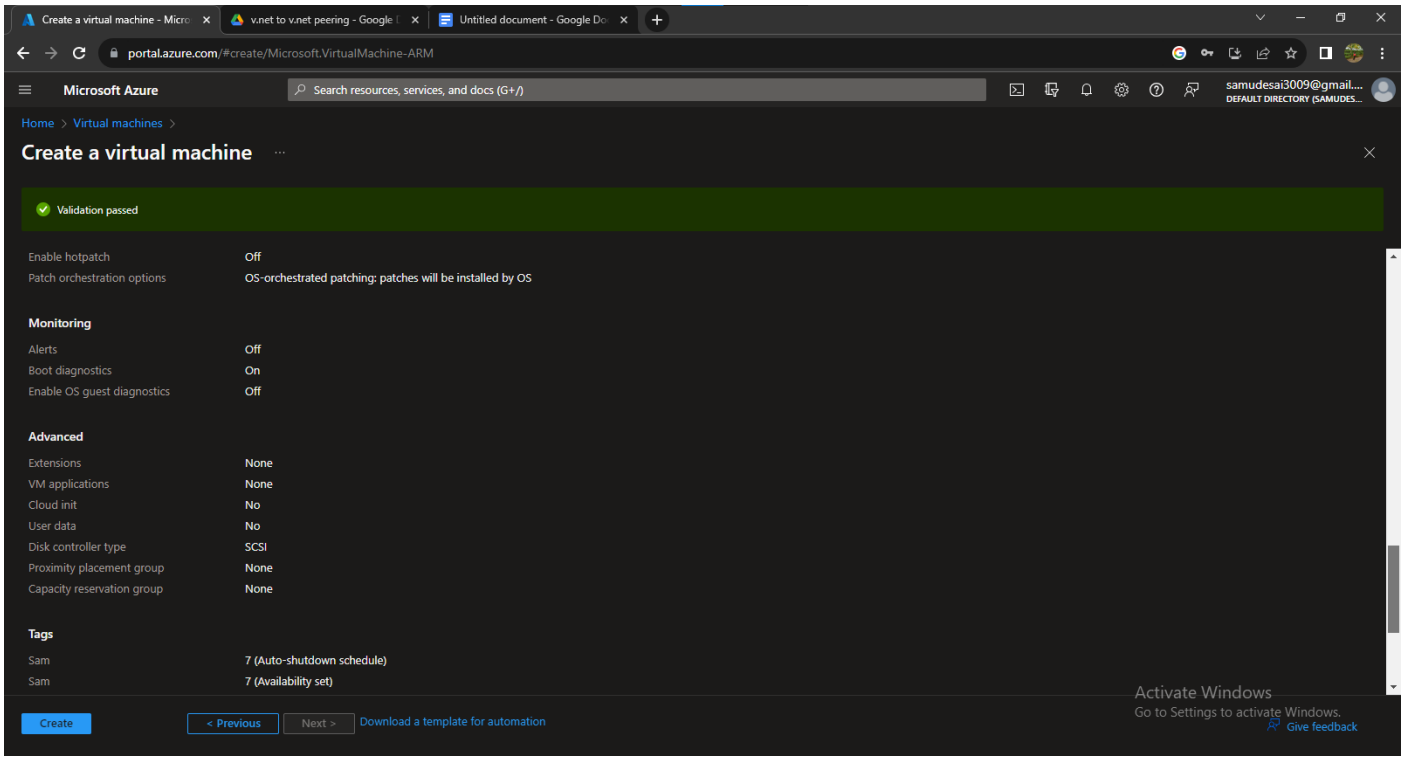
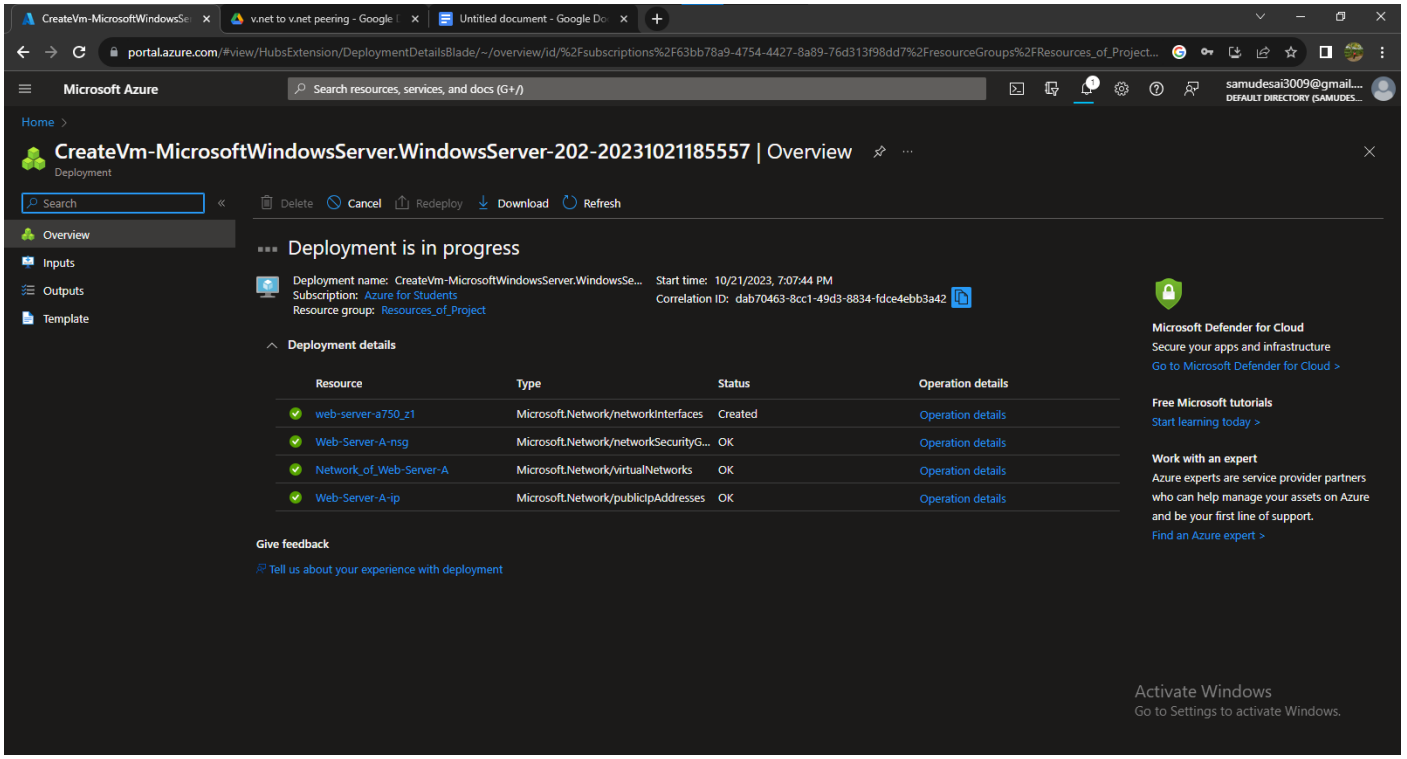
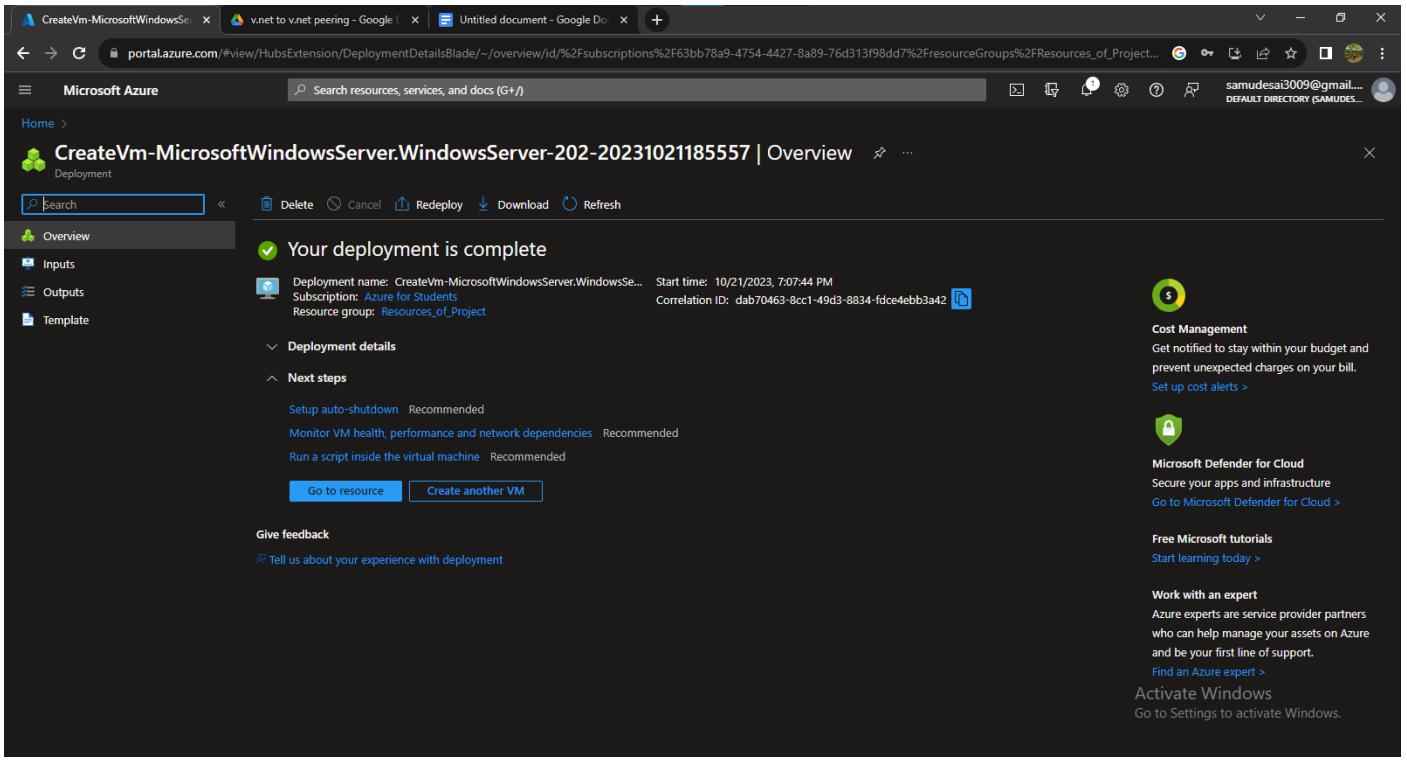
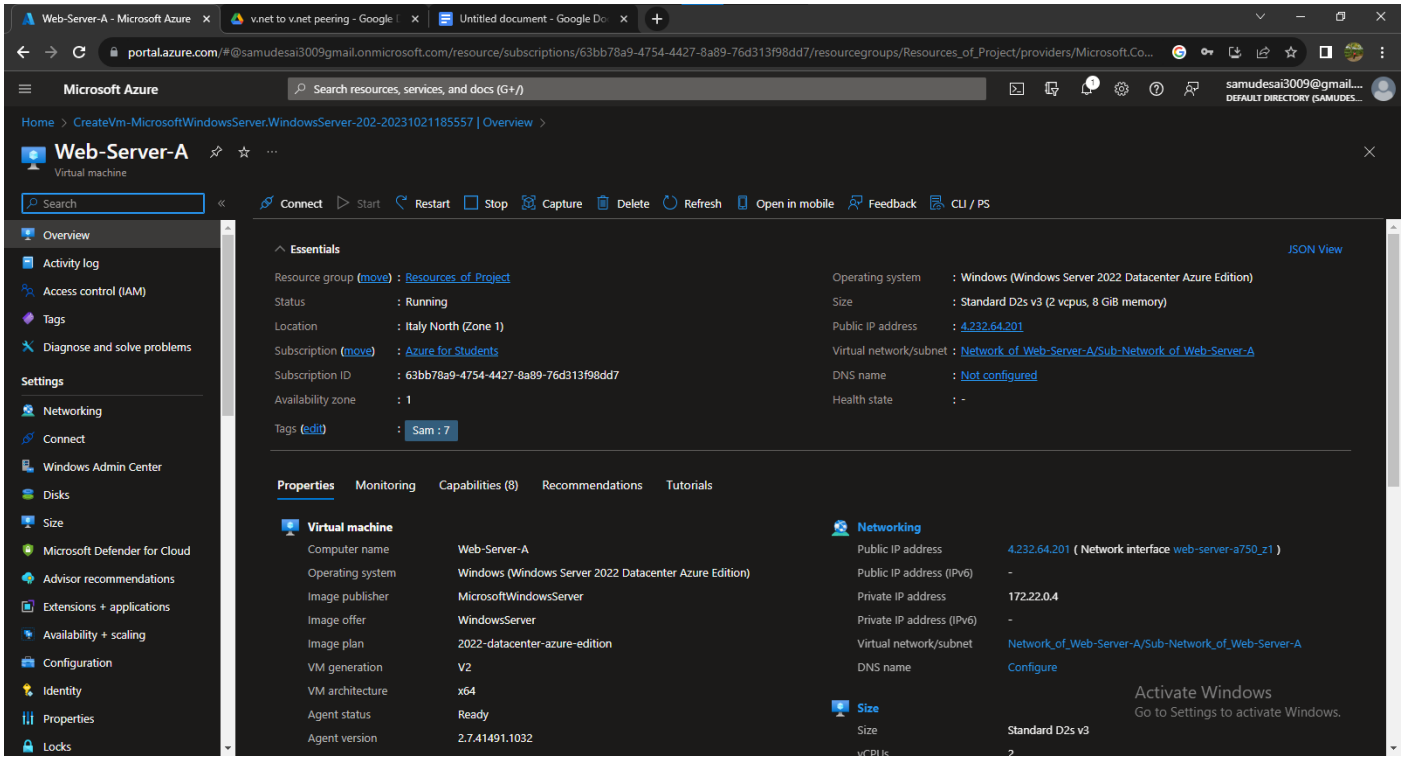


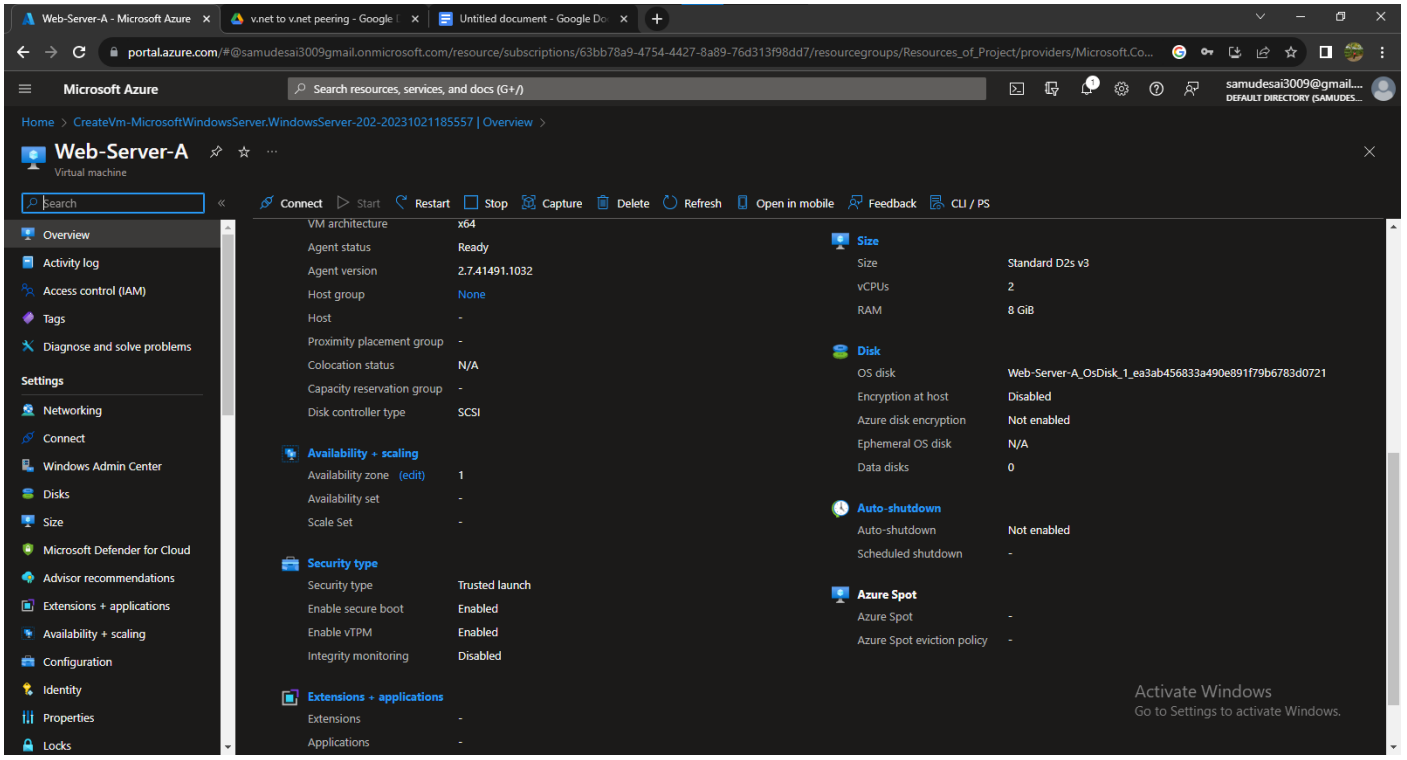
Deployment is in Process



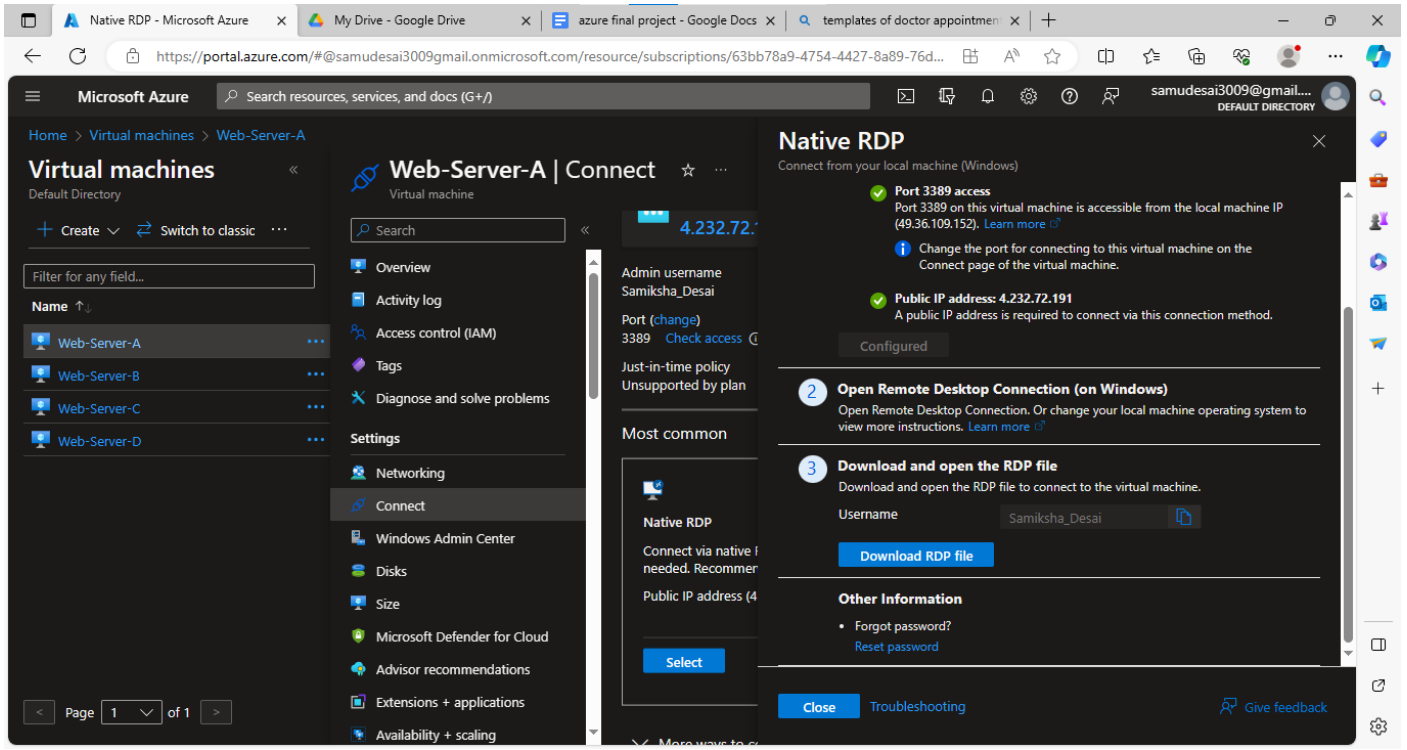
Here Deployment of our first Virtual Machine is Completed



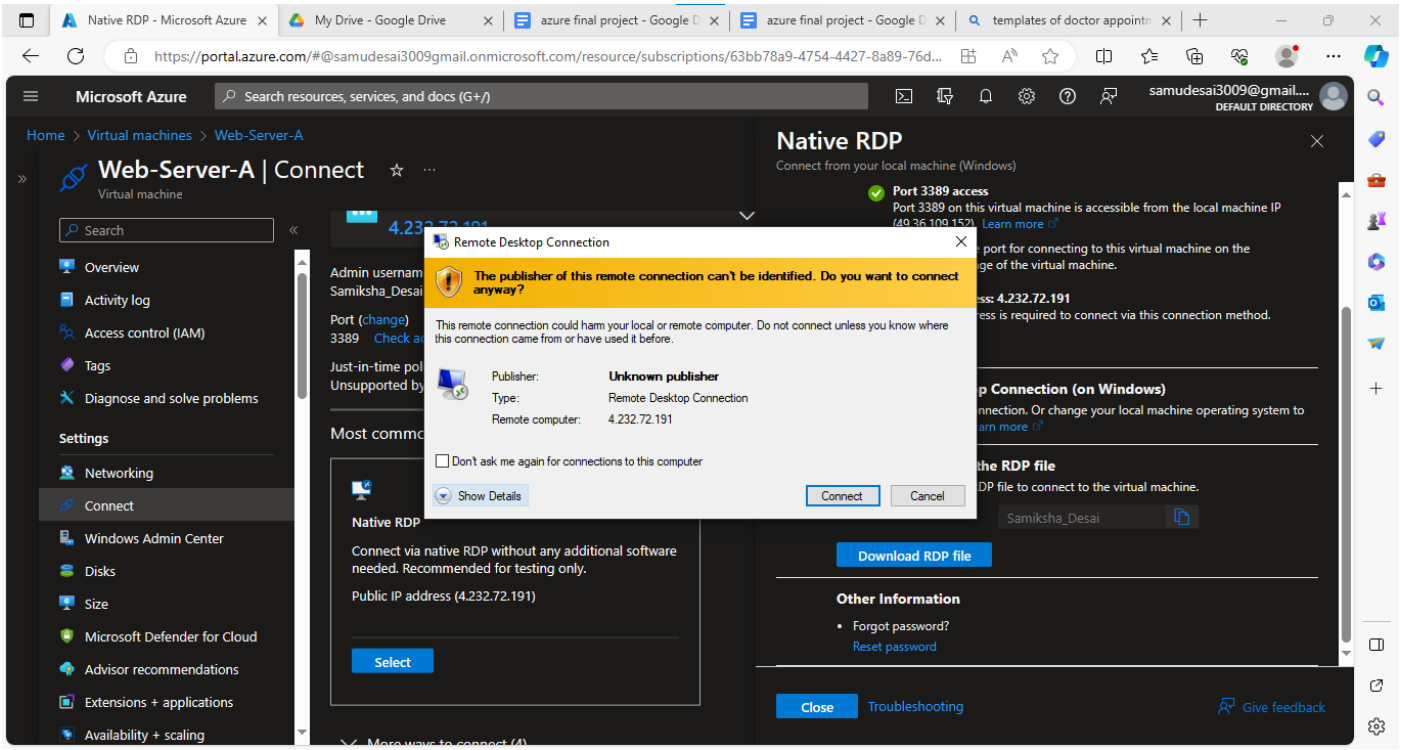




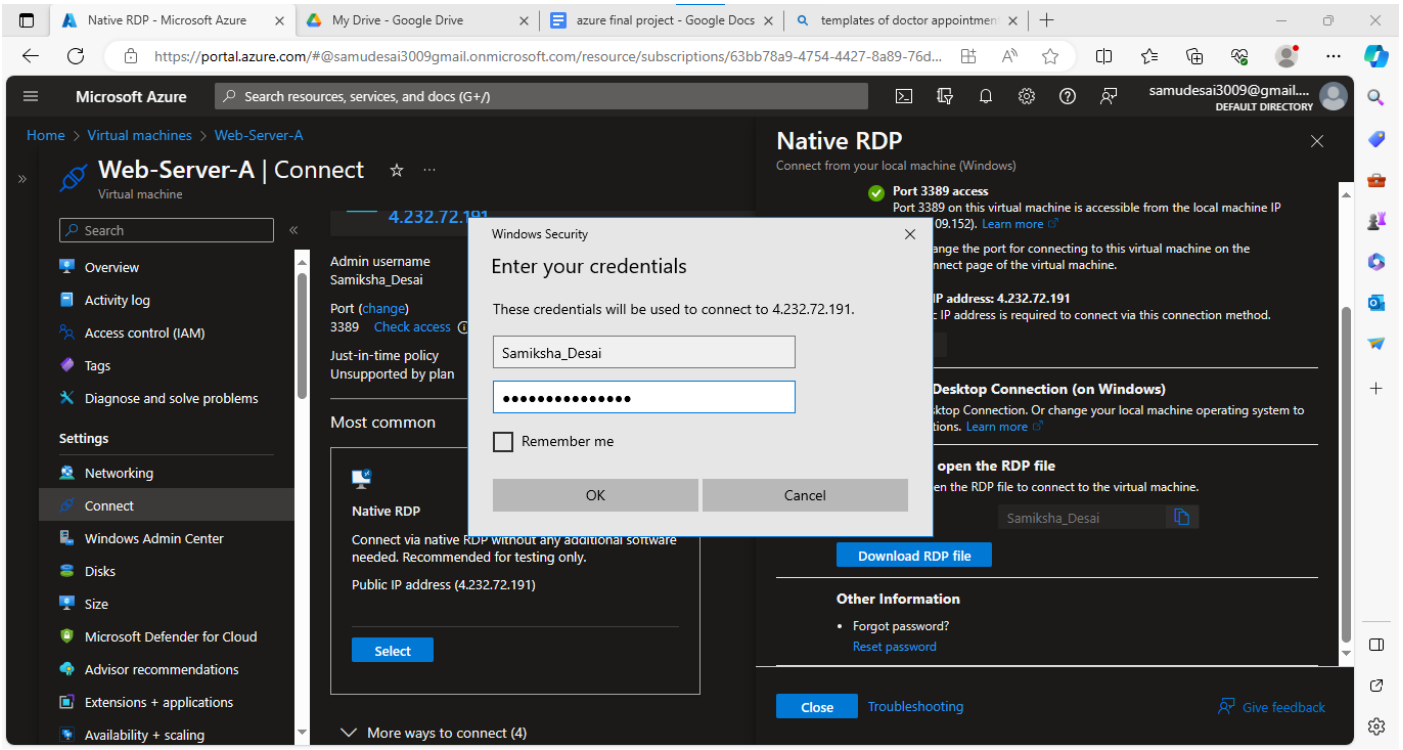
Download the RDP

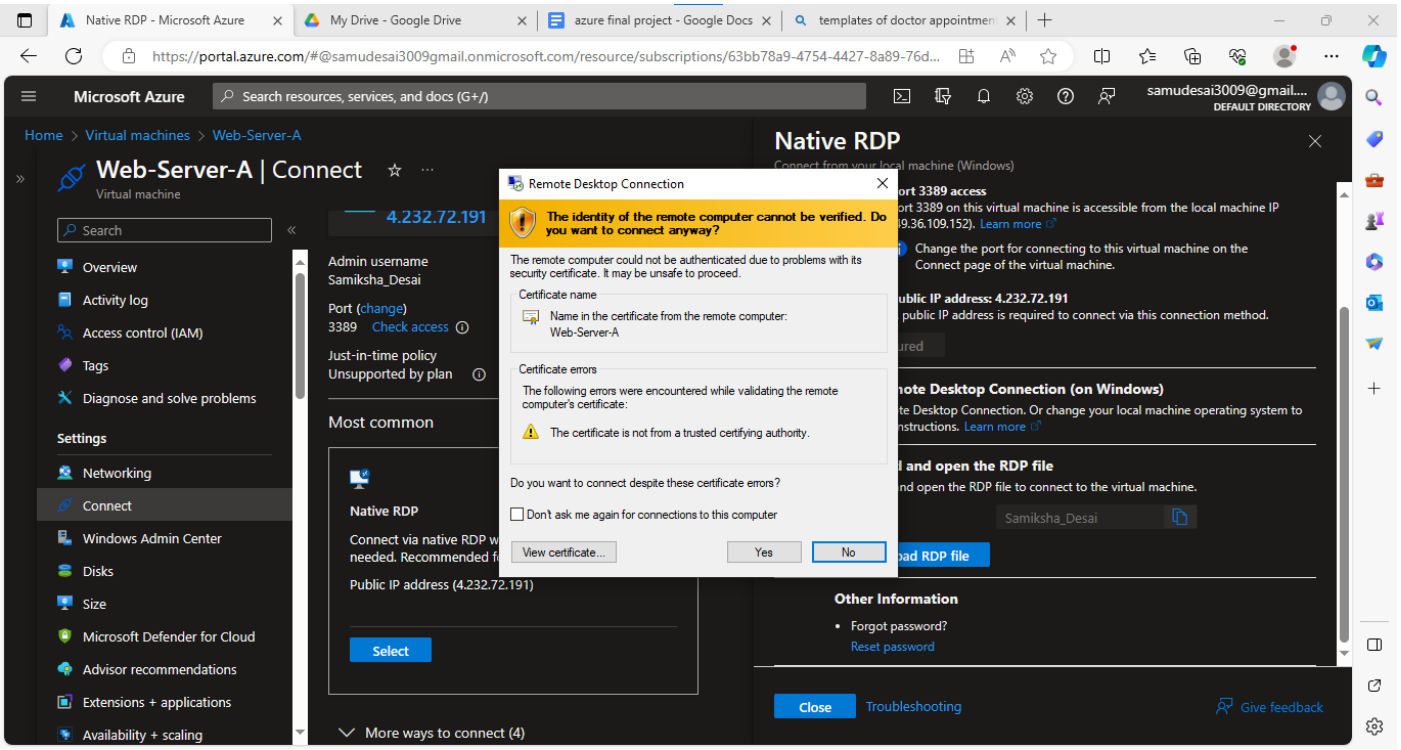


Connecting to the Remote Desktop of our first VM

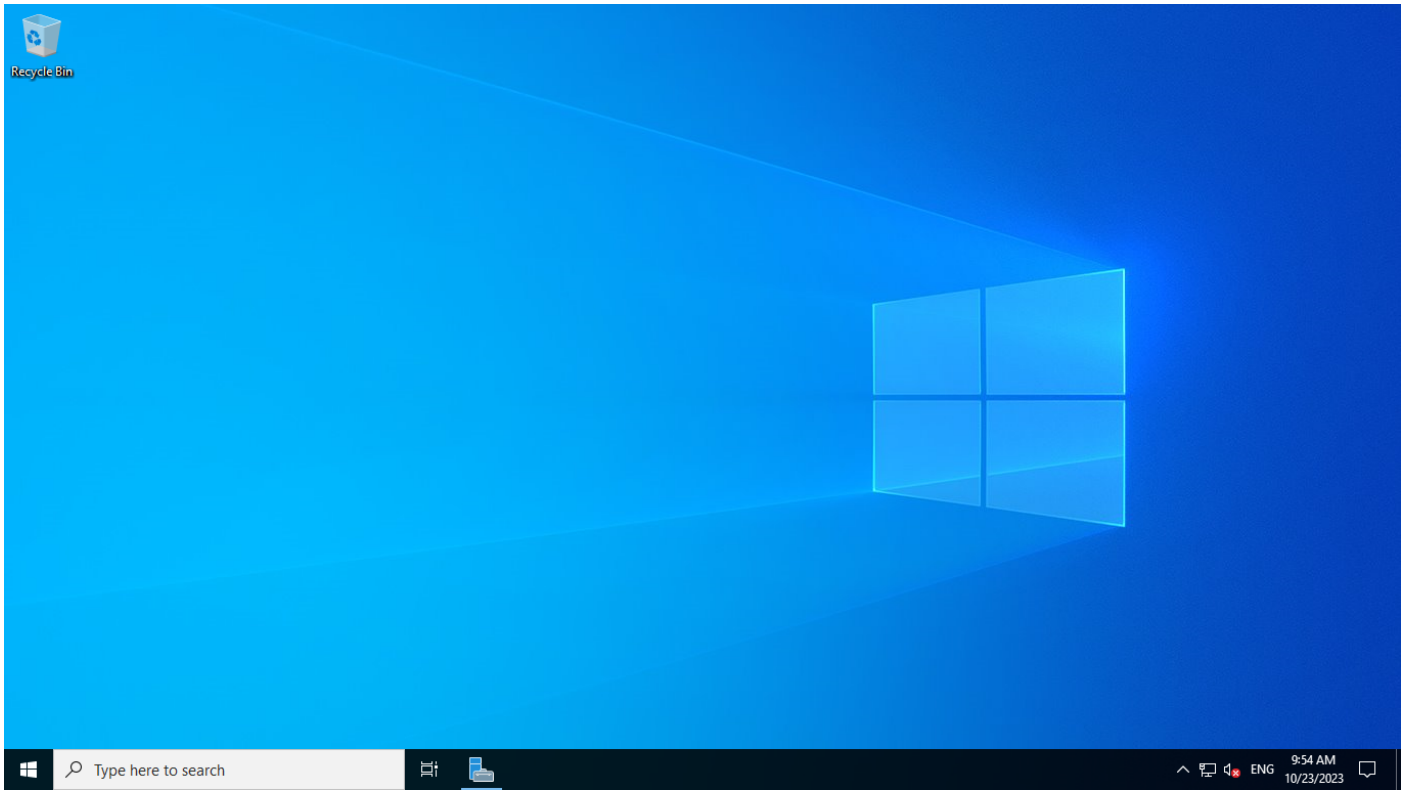


Here we are putting Username and Password to connect

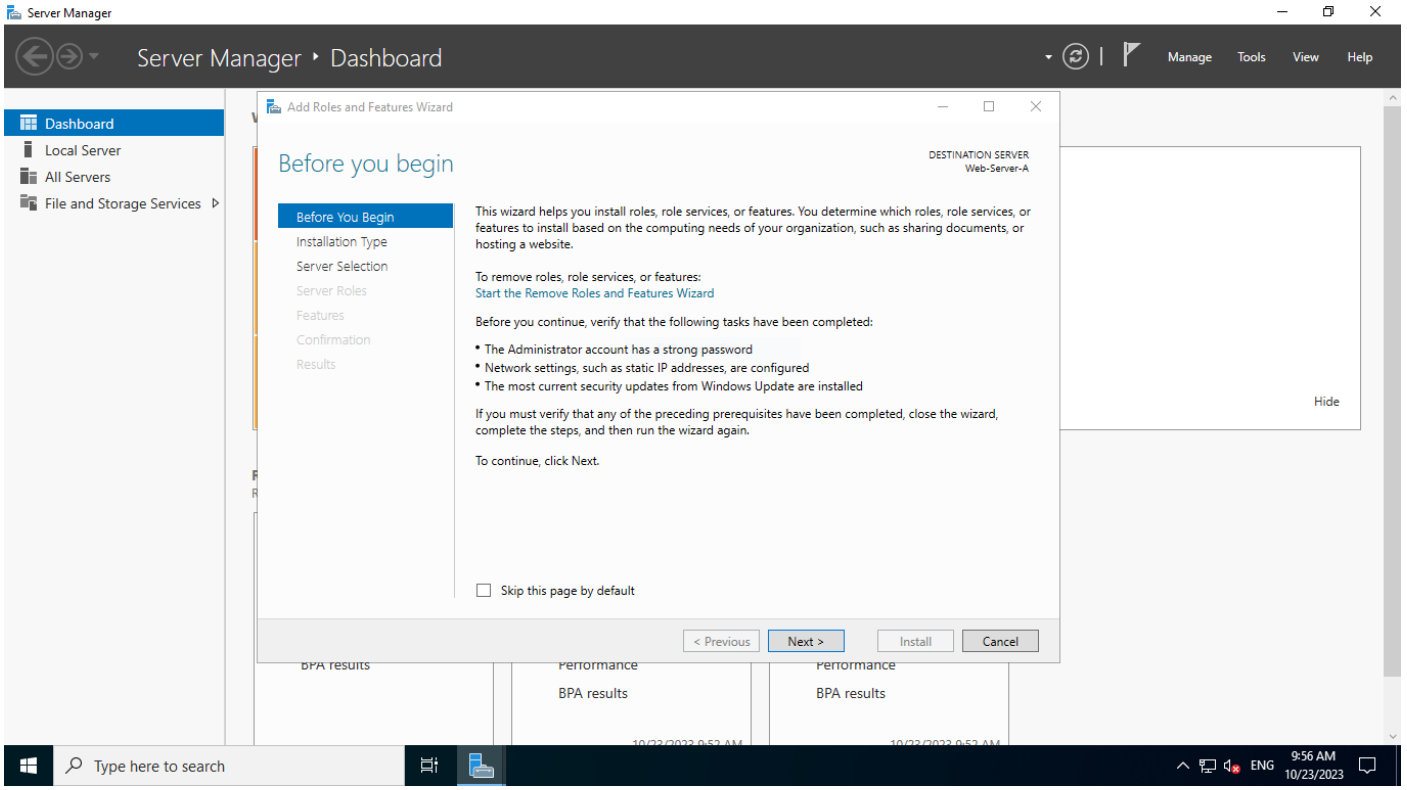




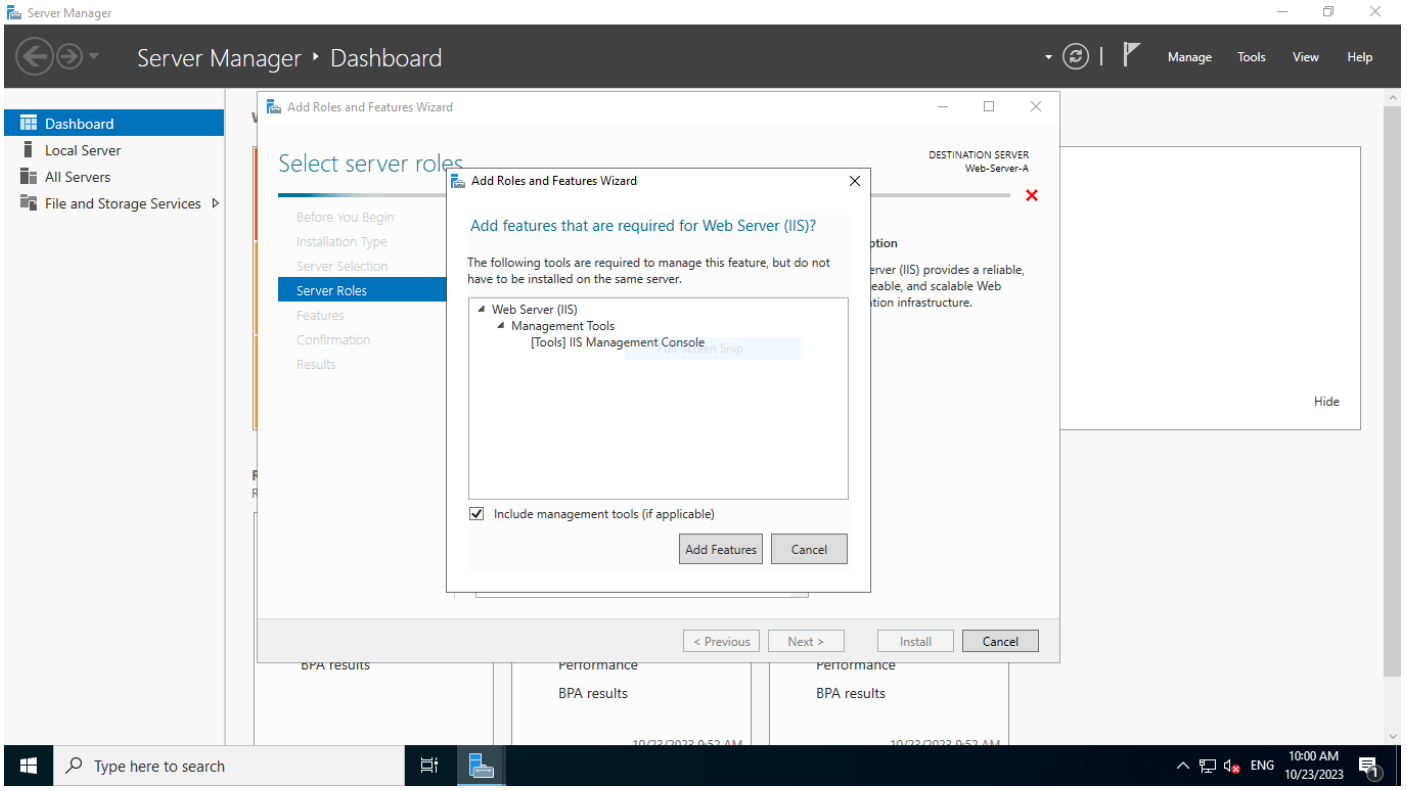
This is our Windows Desktop of first VM

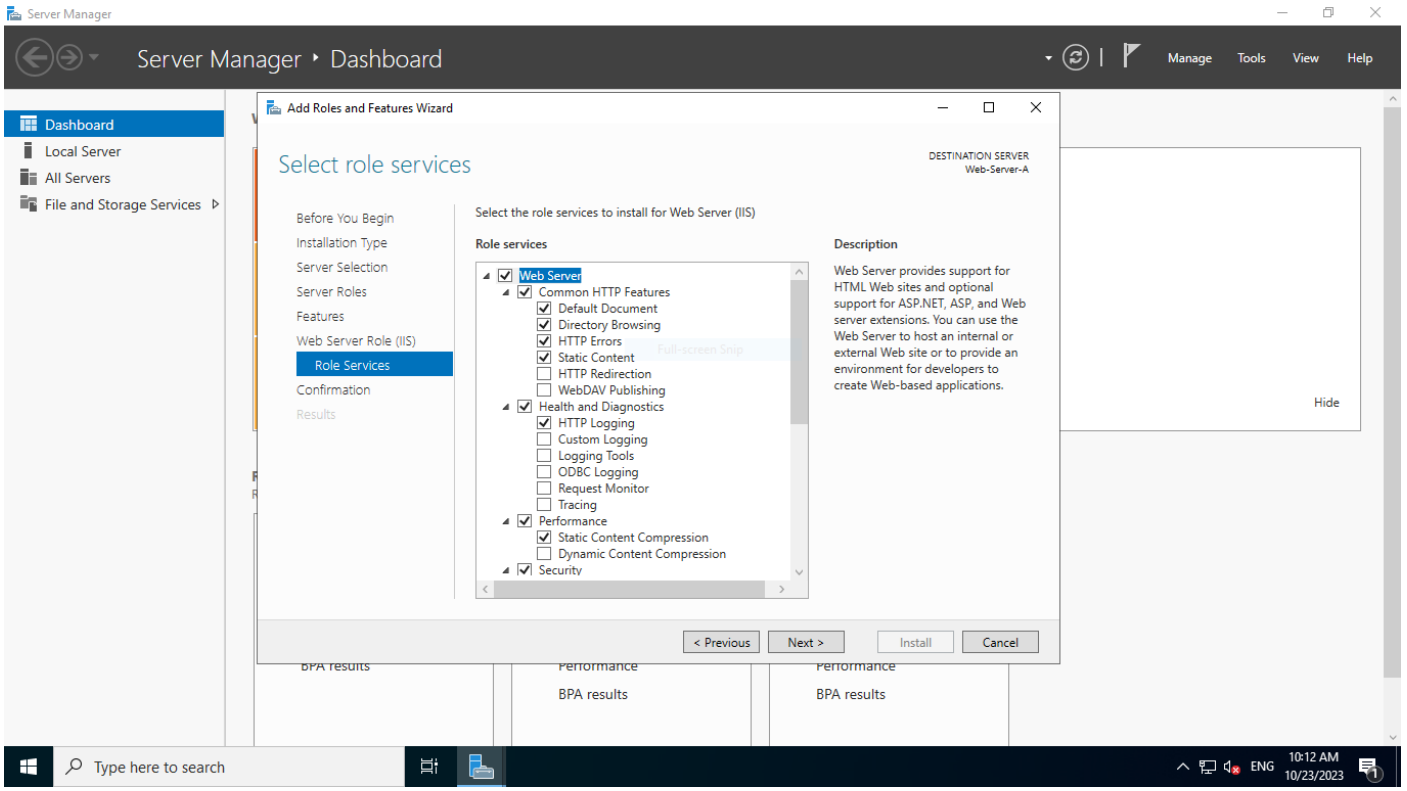


Server Manager of this Virtual Computer

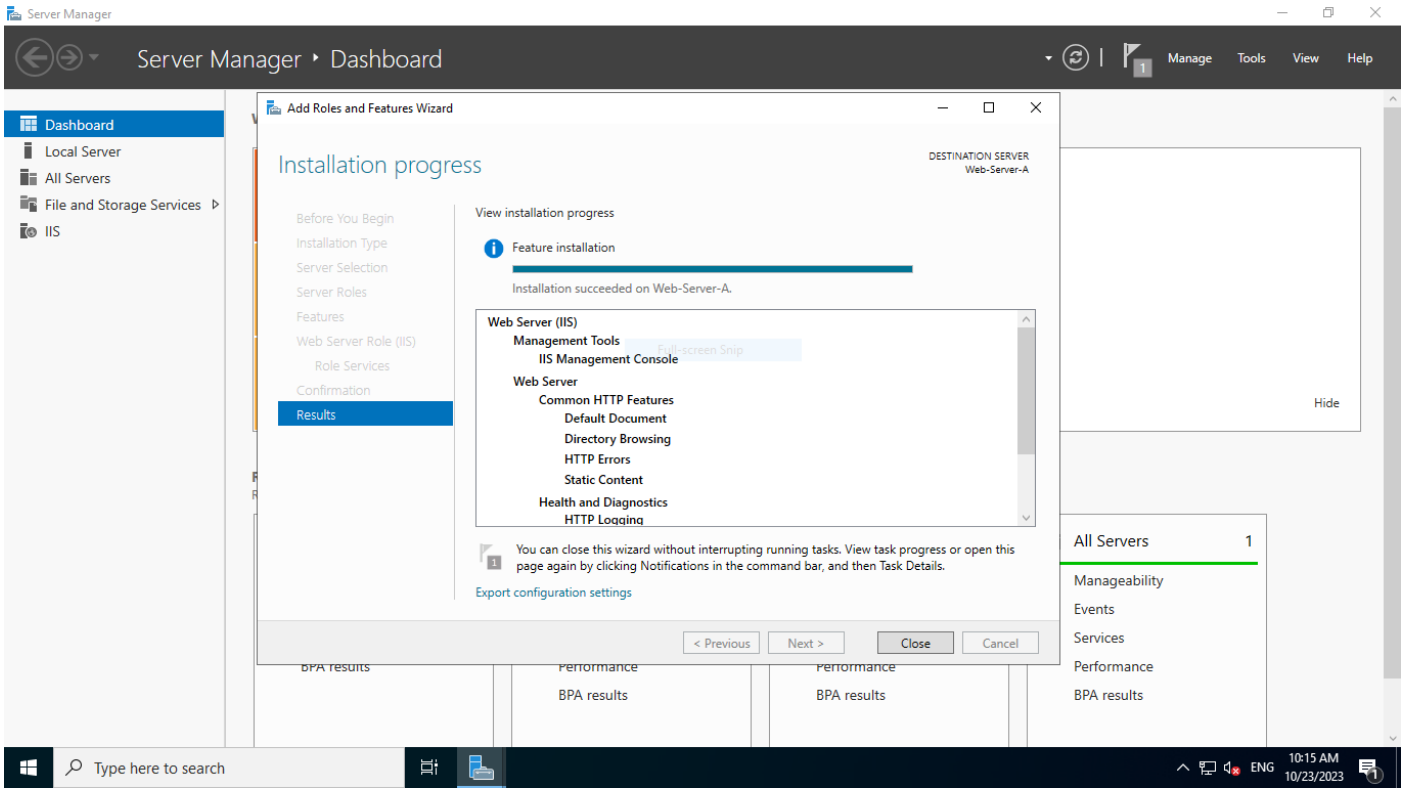


Adding Server Roles

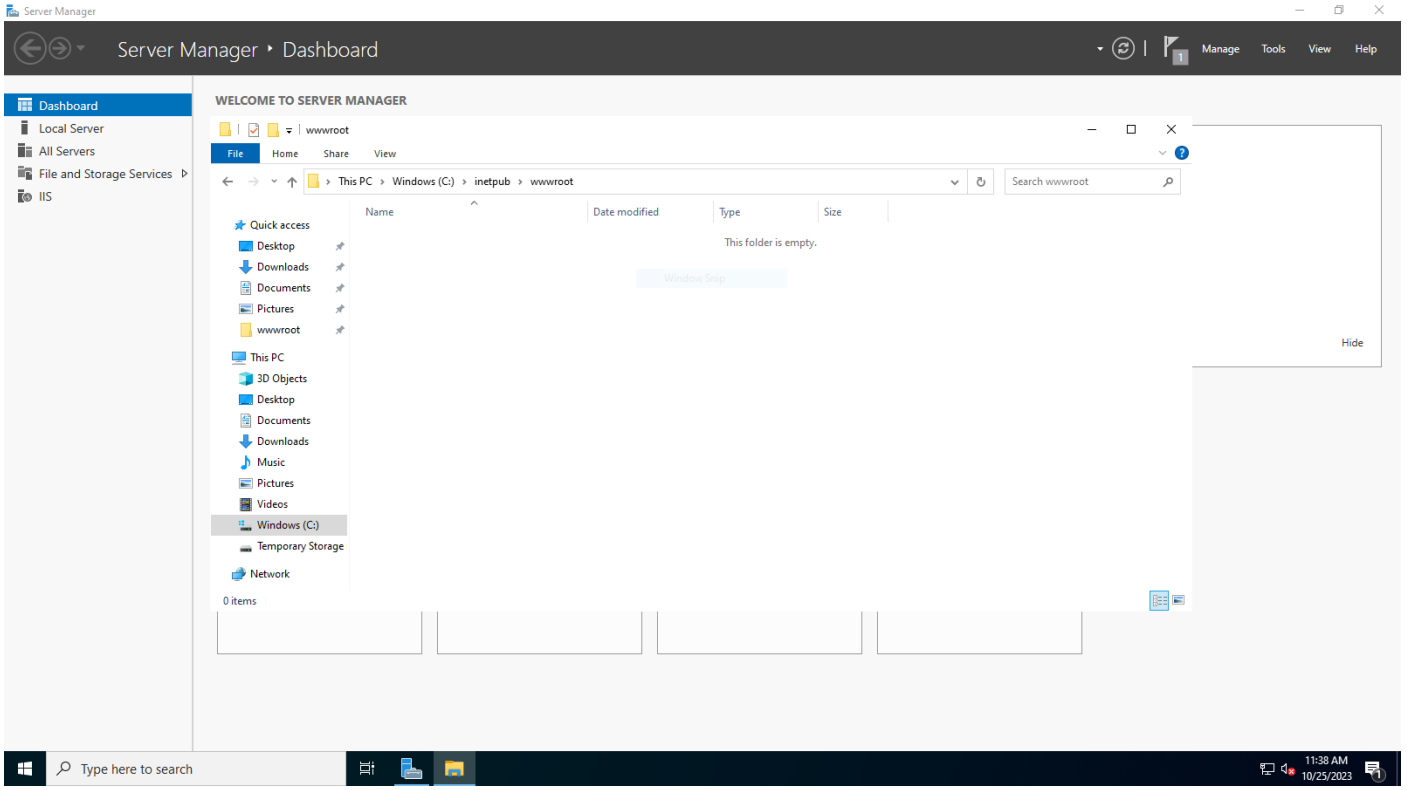




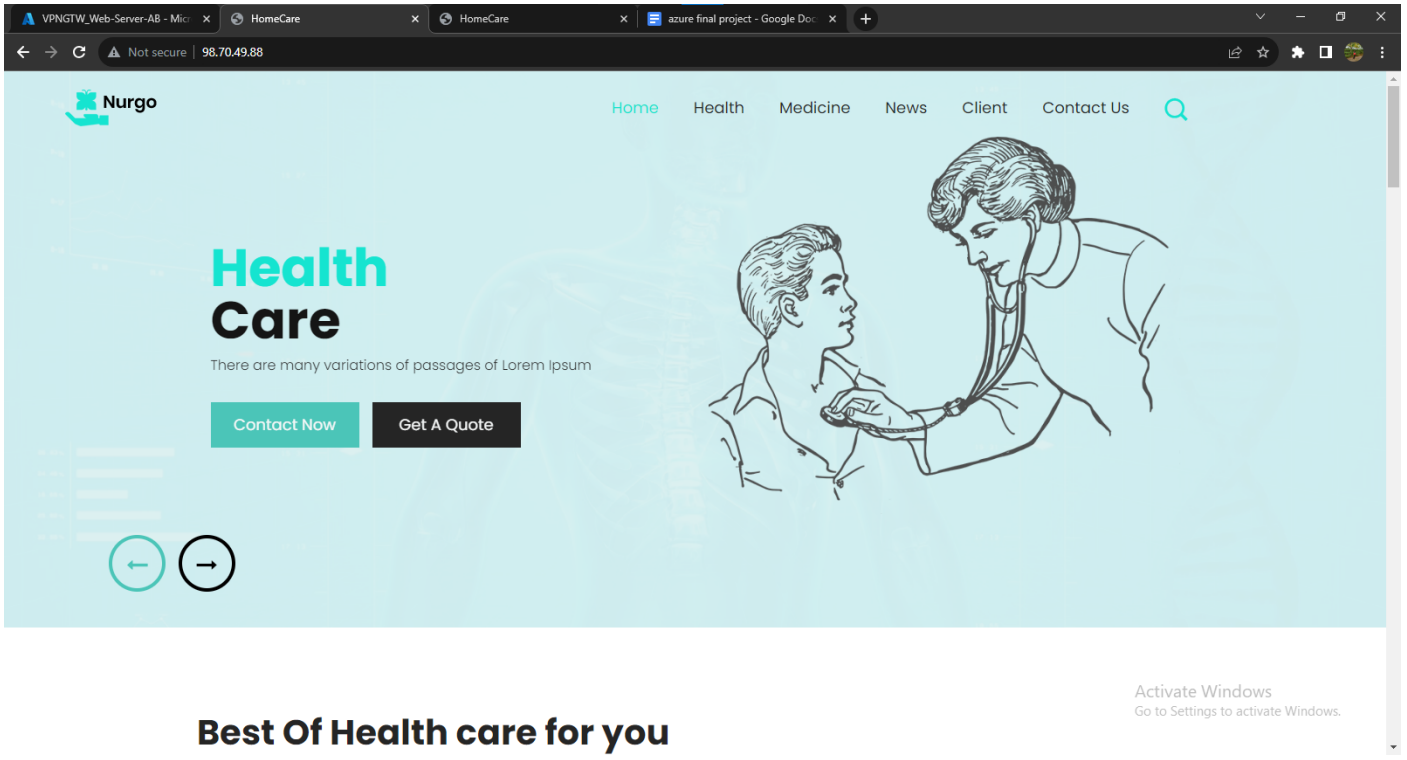
Installing Web Server (IIS)



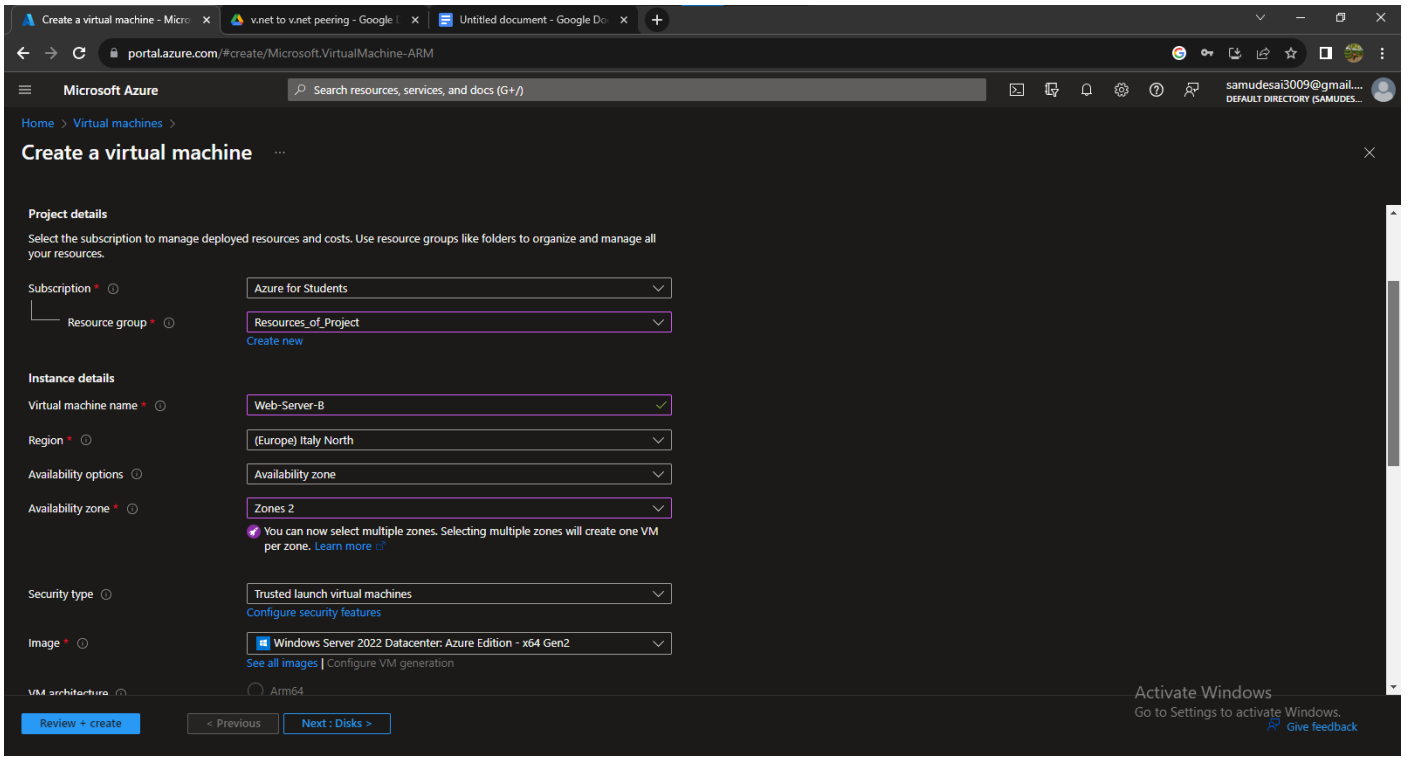
Adding required files in the root directory

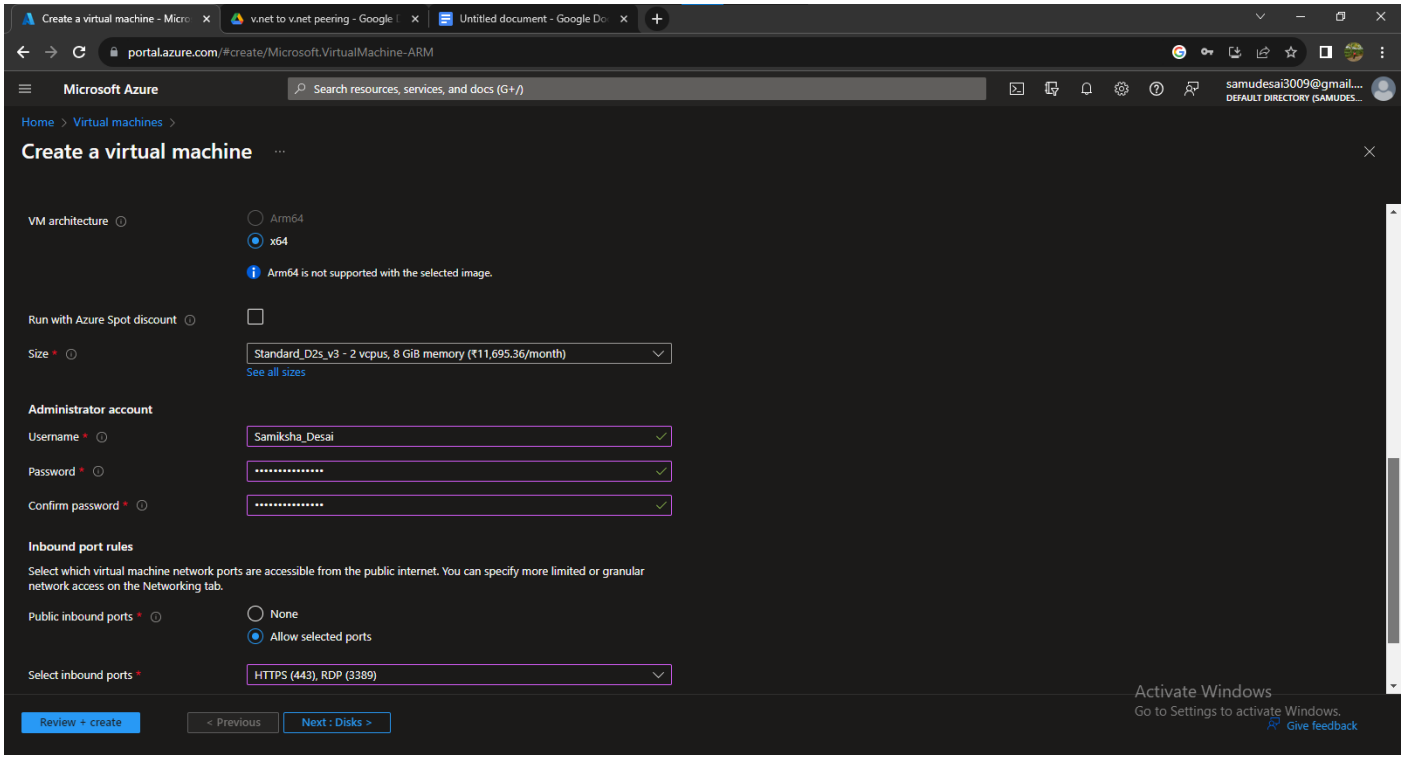


In this way we have hosted a website through Web Server (IIS)

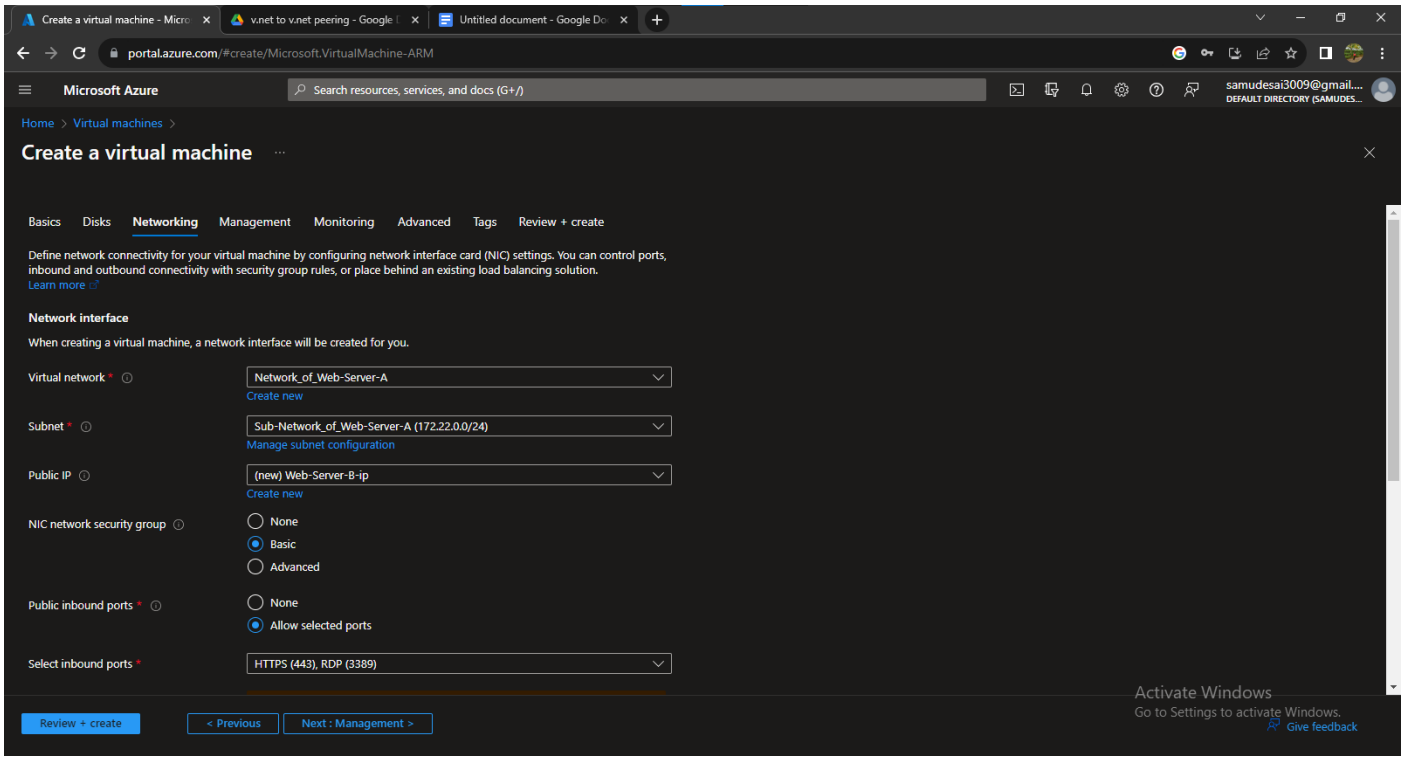


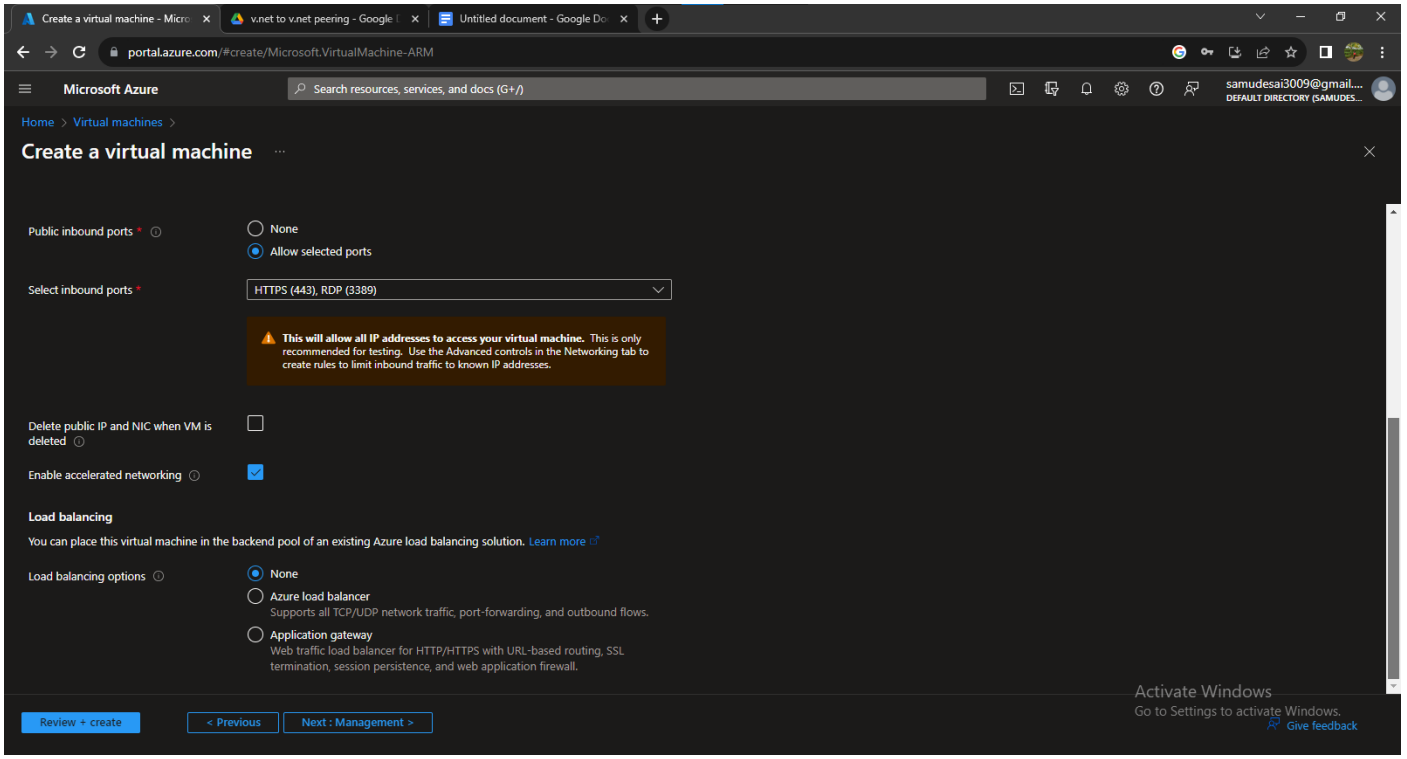
Step 2 : Creating Second Virtual Machine - Web-Server-B

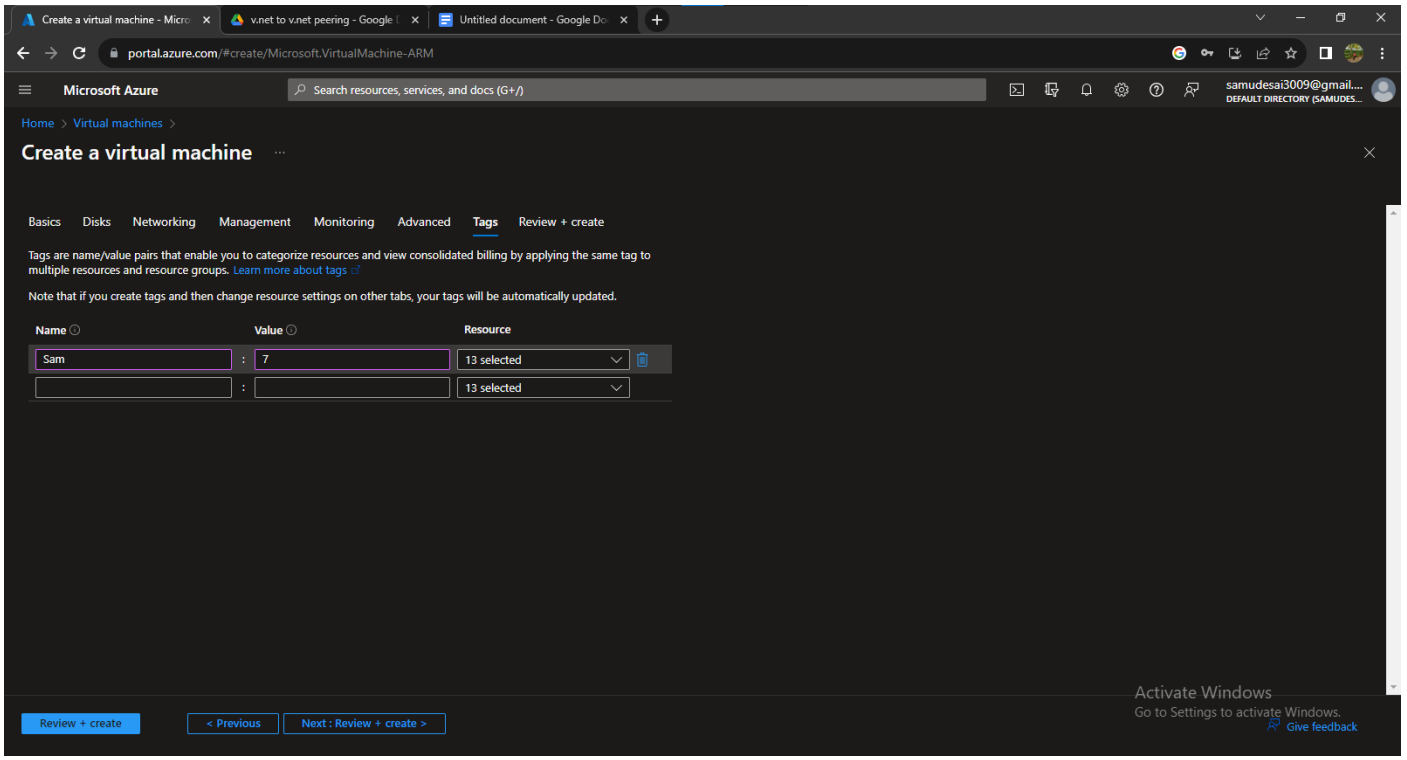




Assigning Same Virtual Network to the same regional vm's



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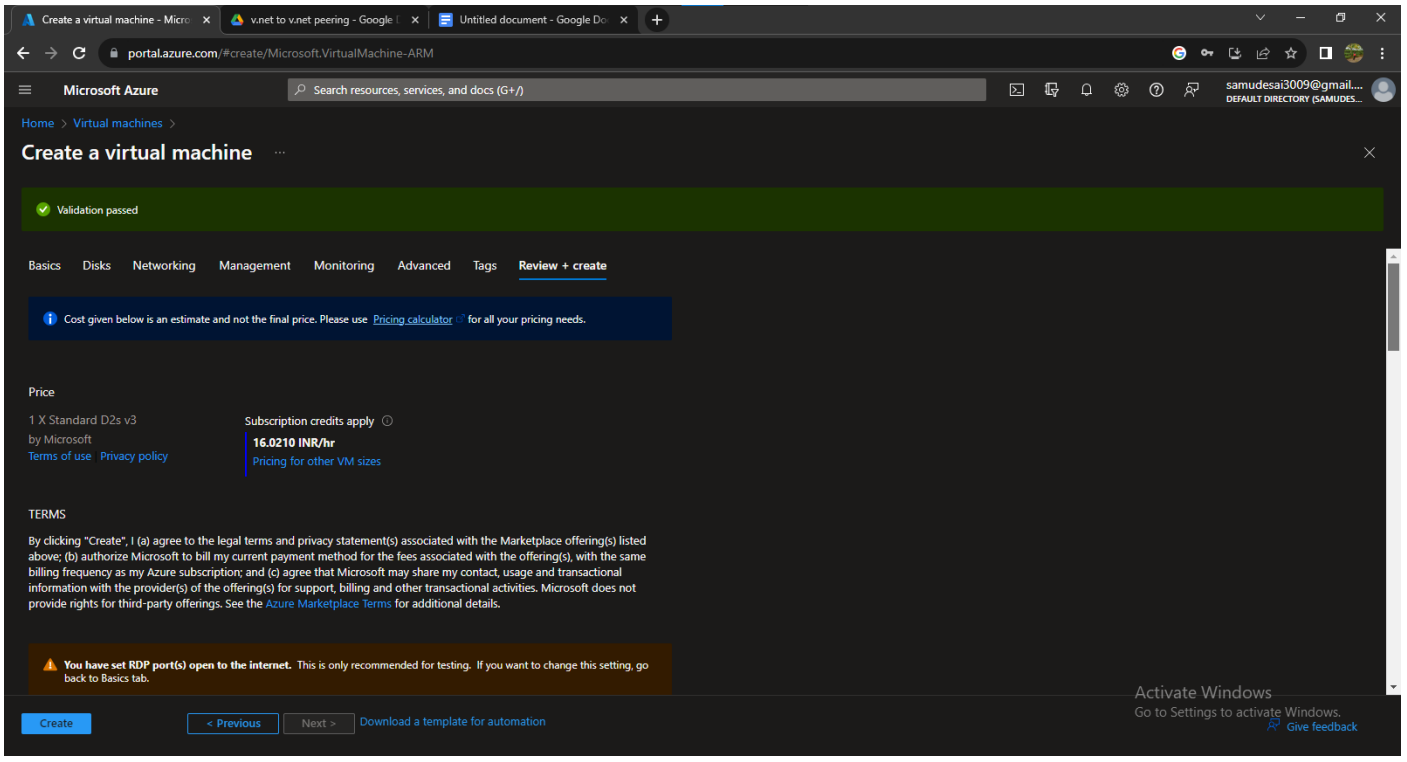
Home > Virtual machines >
Create a virtual machine
Basics Disks Networking Management Monitoring Advanced Tags Review + create
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags
Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.
Name
Value
Resource
Sam : 7 13 selected
: 13 selected
Review + create
< Previous
Next : Review + create >
Activate Windows
Go to Settings to activate Windows.
Give feedback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v.net to v.net peering - Google
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portal.azure.com/#create/Microsoft.VirtualMachine-ARM
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Home > Virtual machines >
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Validation passed
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Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.
Price
1 X Standard D2s v3
by Microsoft
Terms of use Privacy policy
Subscription credits apply
16.0210 INR/hr
Pricing for other VM sizes
TERMS
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.
You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.
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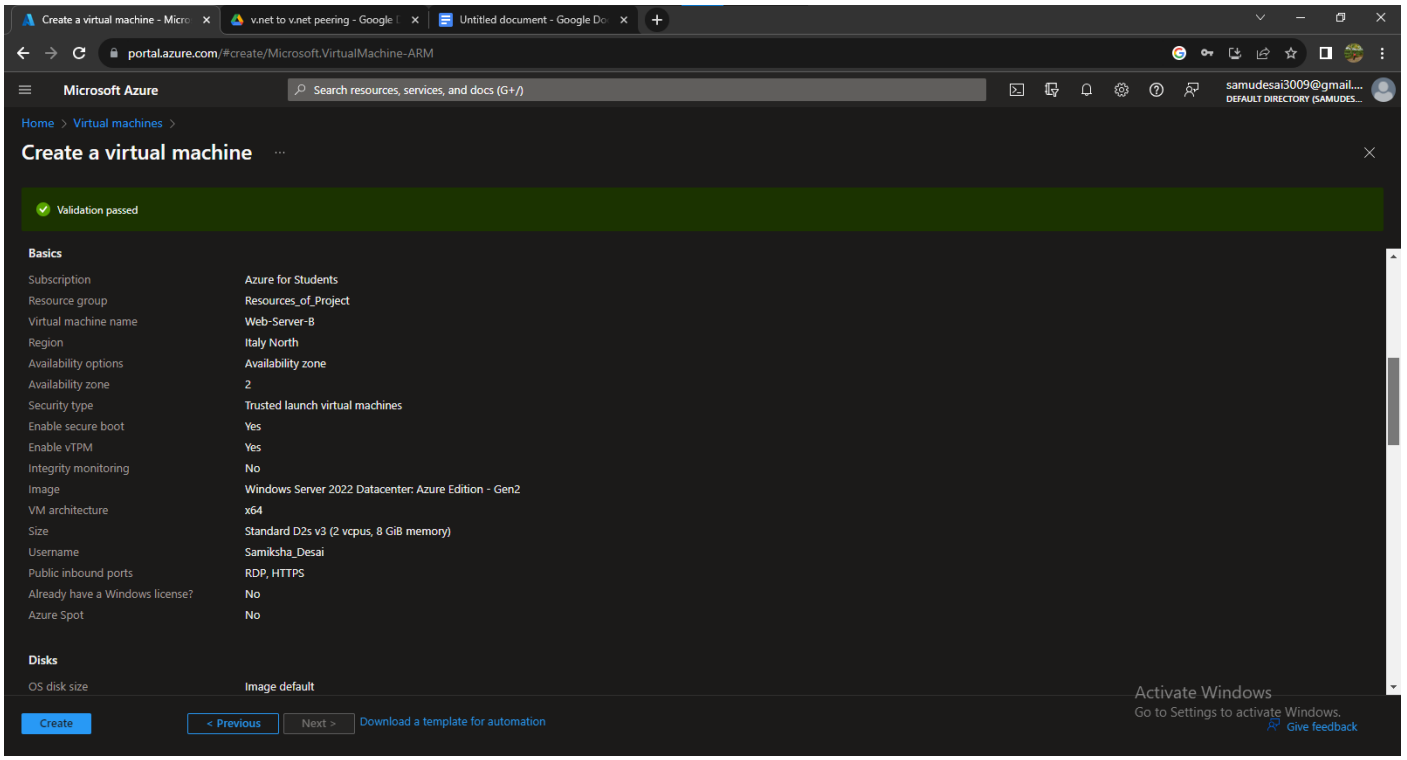
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DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics
Subscription Azure for Students
Resource group Resources_of_Project
Virtual machine name Web-Server-B
Region Italy North
Availability options Availability zone
Availability zone 2
Security type Trusted launch virtual machines
Enable secure boot Yes
Enable vTPM Yes
Integrity monitoring No
Image Windows Server 2022 Datacenter: Azure Edition - Gen2
VM architecture x64
Size Standard D2s v3 (2 vcpus, 8 GiB memory)
Username Samiksha_Desai
Public inbound ports RDP, HTTPS
Already have a Windows license? No
Azure Spot No
Disks
OS disk size Image default
Create
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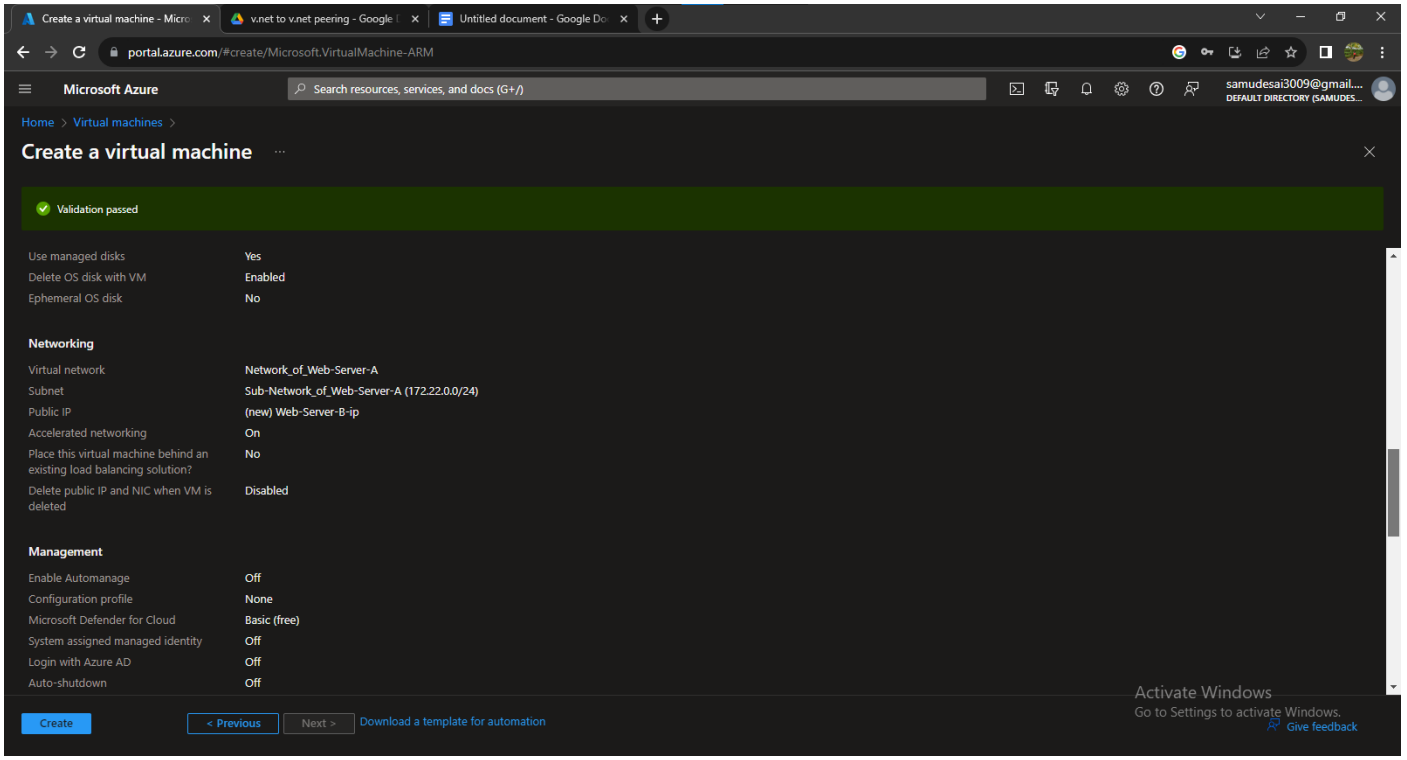
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Microsoft Azure
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DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Use managed disks Yes
Delete OS disk with VM Enabled
Ephemeral OS disk No
Networking
Virtual network Network_of_Web-Server-A
Subnet Sub-Network_of_Web-Server-A (172.22.0.0/24)
Public IP (new) Web-Server-B-ip
Accelerated networking On
Place this virtual machine behind an existing load balancing solution? No
Delete public IP and NIC when VM is deleted Disabled
Management
Enable Automanage Off
Configuration profile None
Microsoft Defender for Cloud Basic (free)
System assigned managed identity Off
Login with Azure AD Off
Auto-shutdown Off
Create
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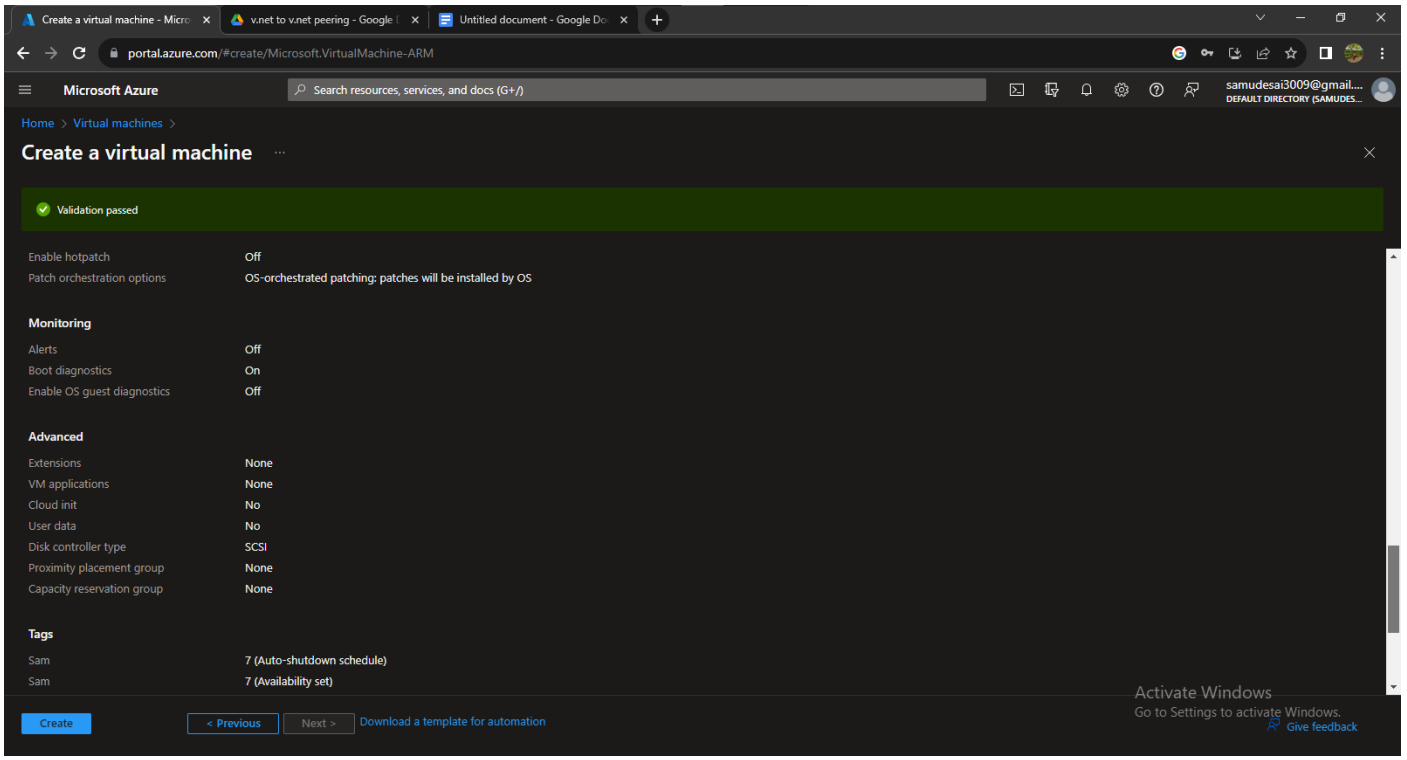
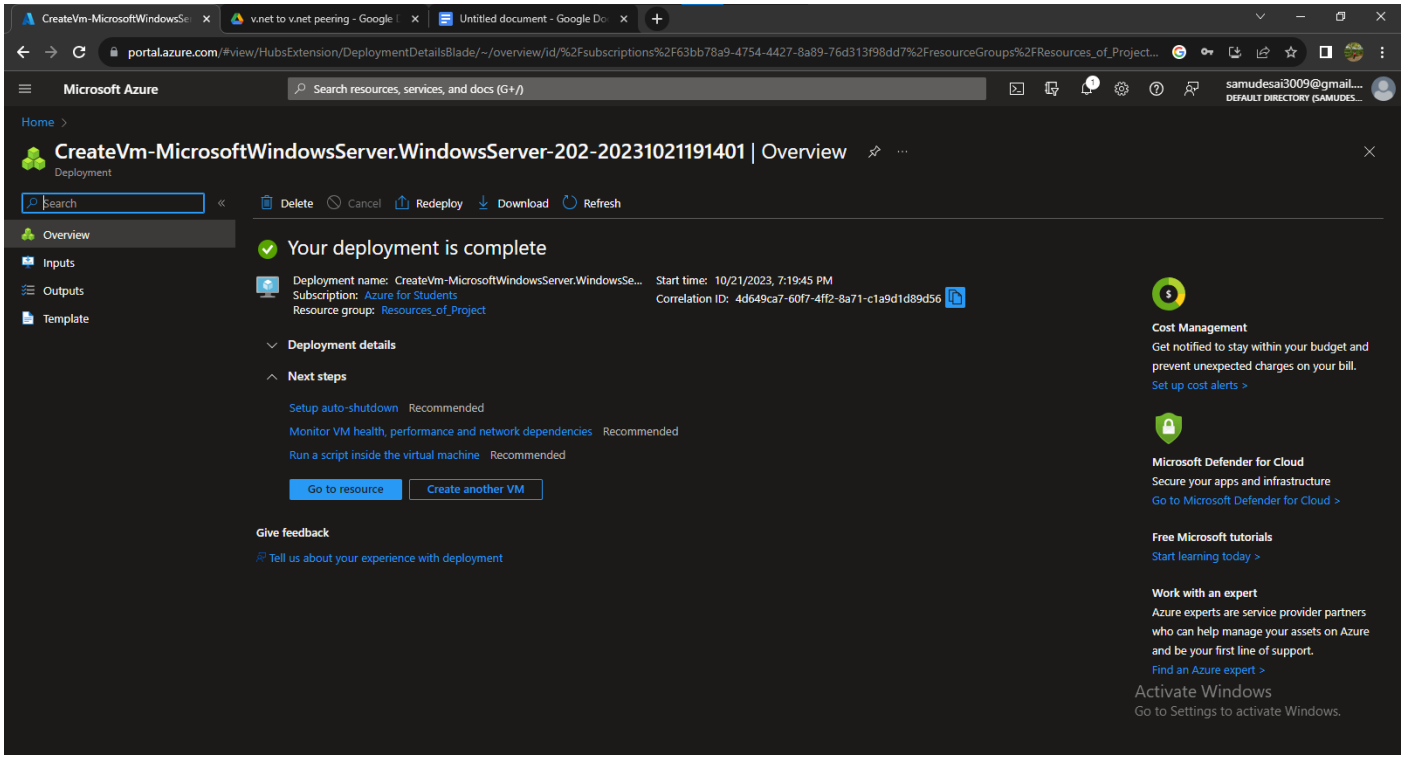
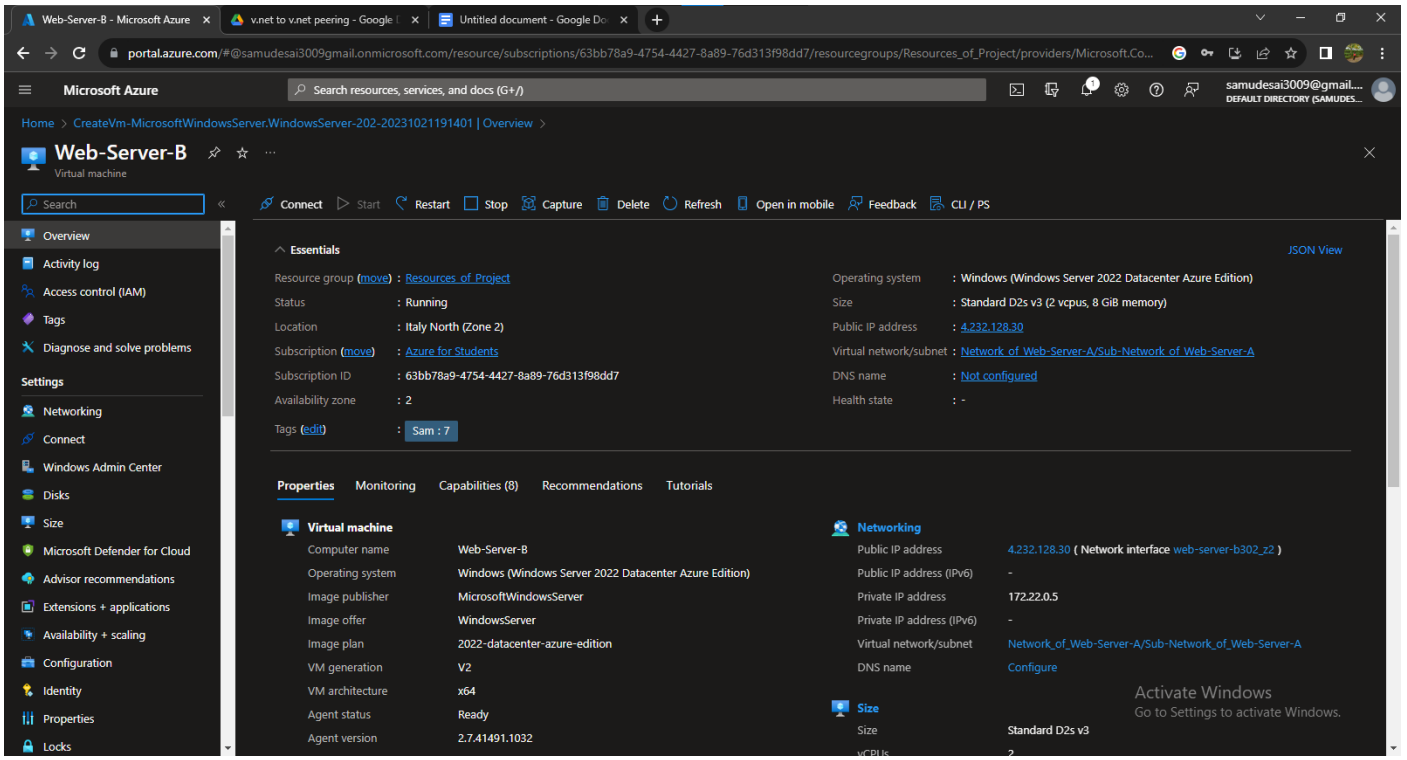
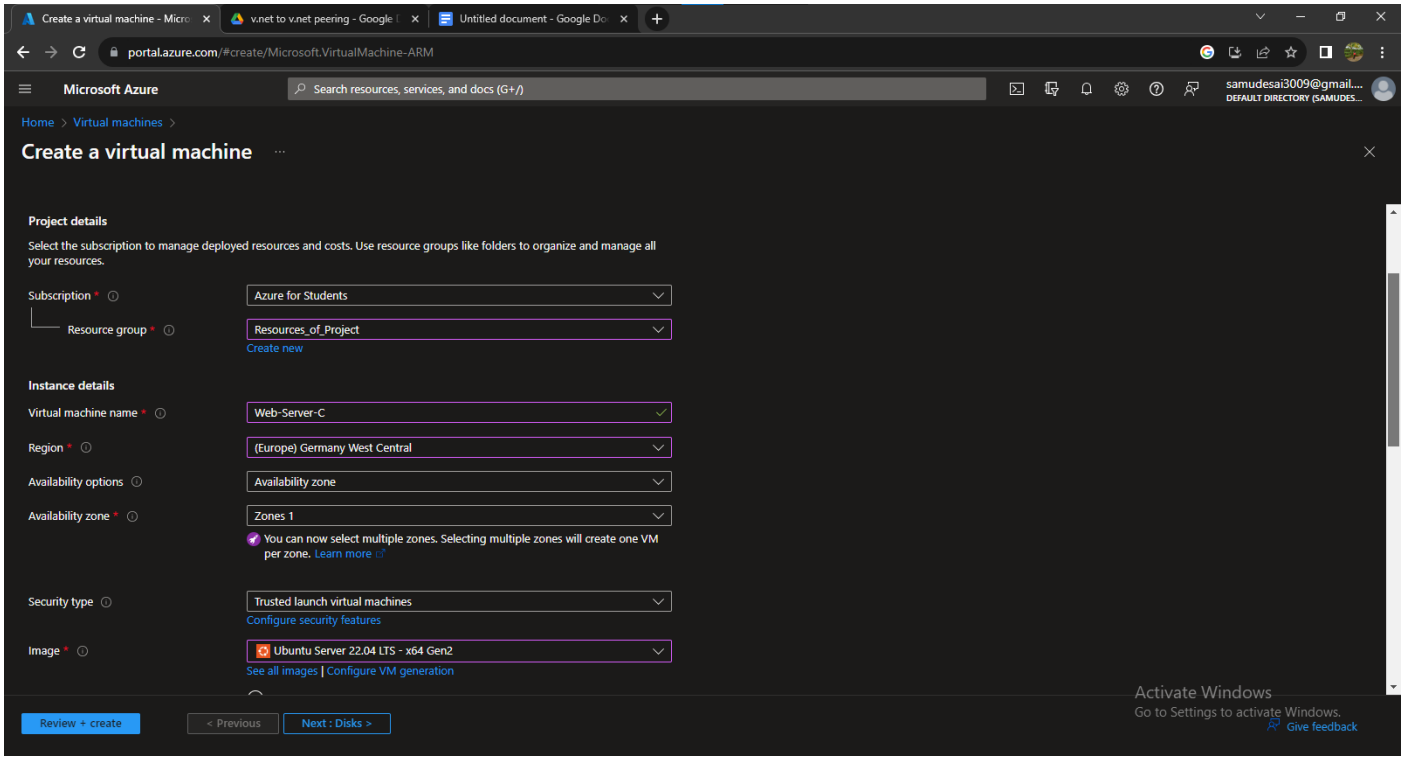


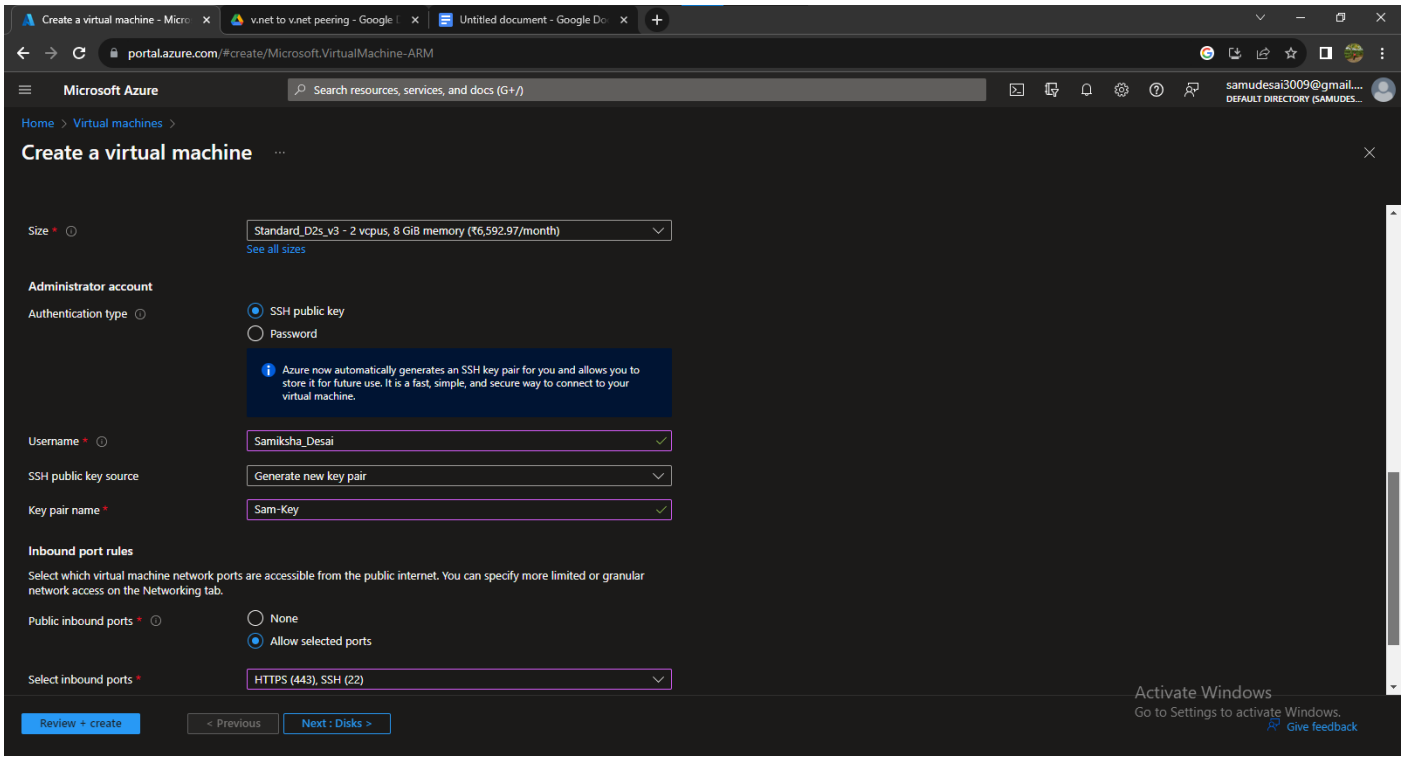
Here Deployment is Completed of our Second VM



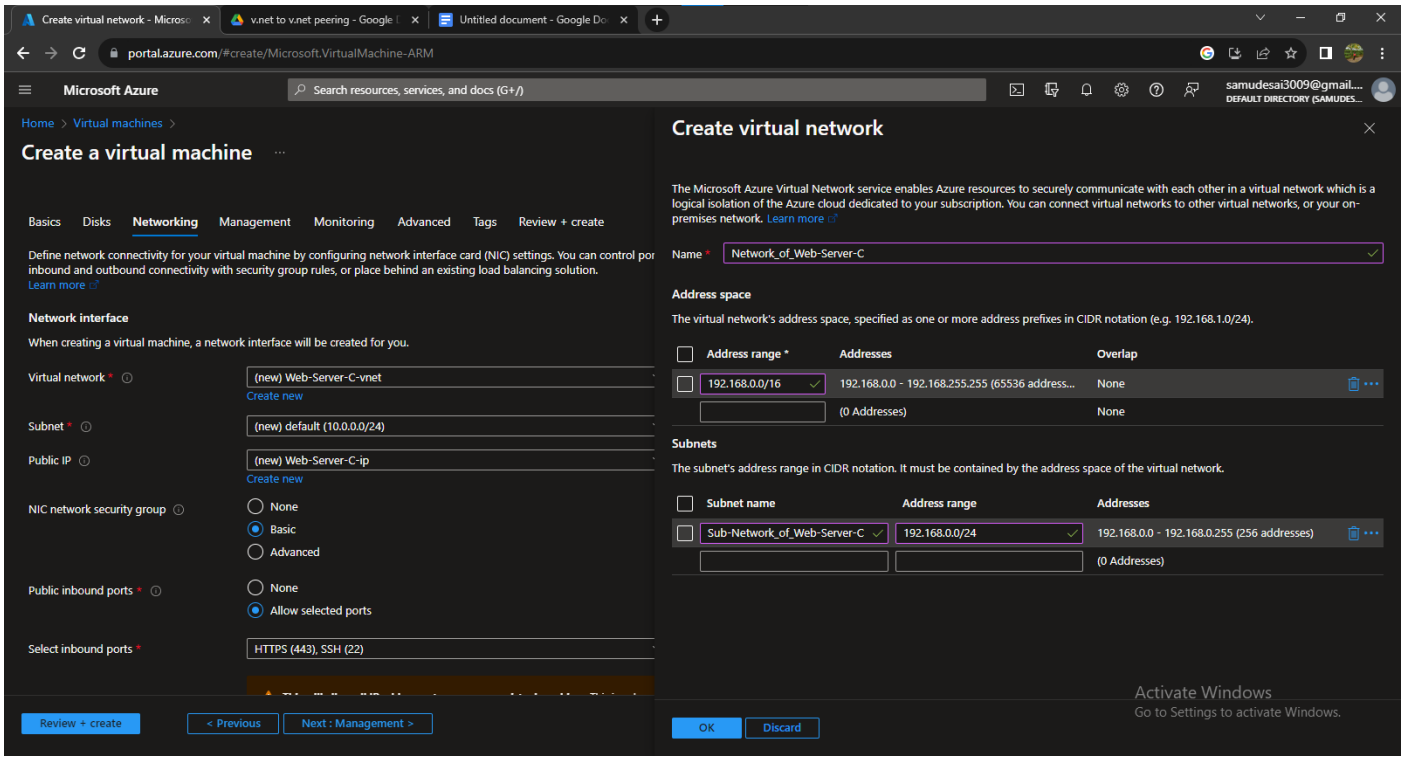


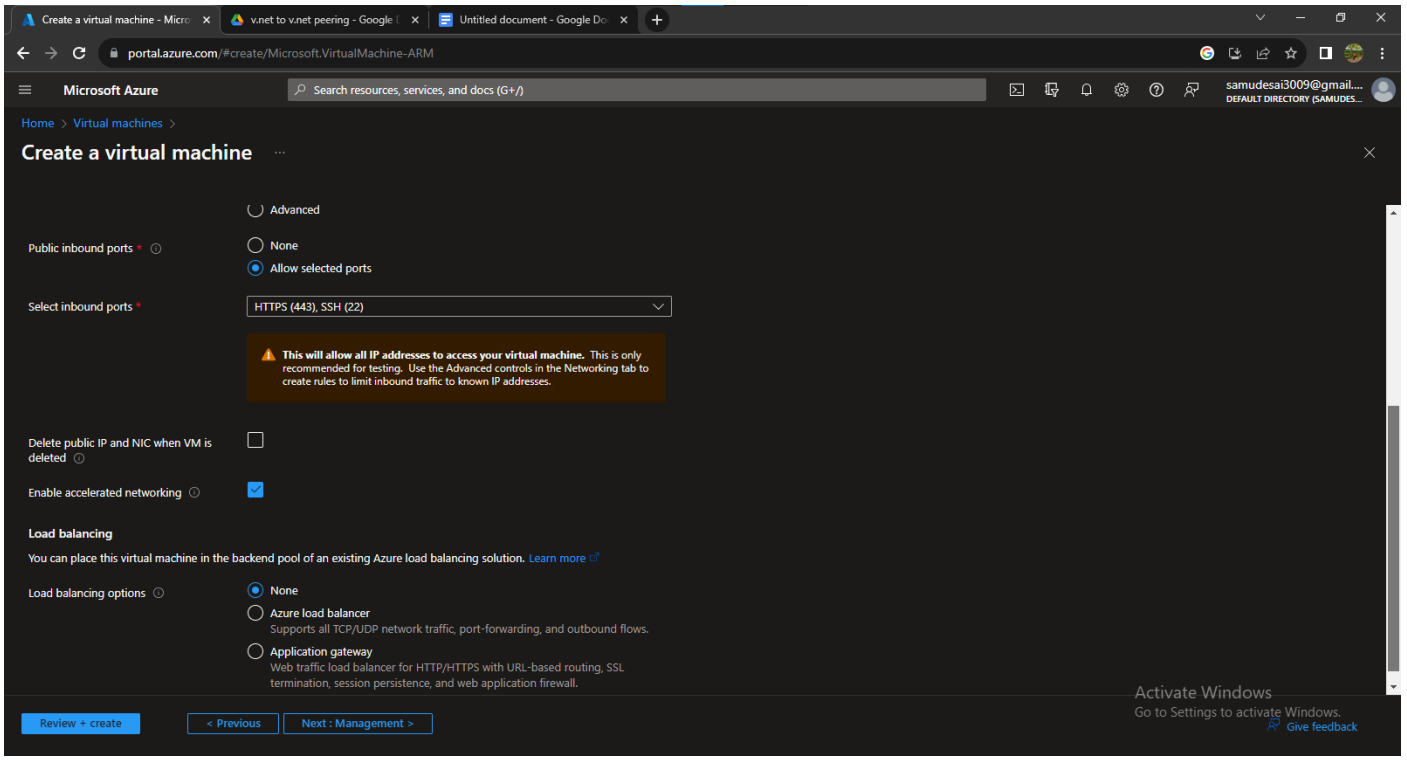
Step 3 : Creating Third Virtual Machine - Web-Server-C





Assigning New Virtual Network of ip Address - 192.168.0.0/16 and Subnet - 192.168.0.0/24

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portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
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DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Advanced
Public inbound ports *
None
Allow selected ports
Select inbound ports *
HTTPS (443), SSH (22)
This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.
Delete public IP and NIC when VM is deleted
Enable accelerated networking
Load balancing
You can place this virtual machine in the backend pool of an existing Azure load balancing solution. Learn more
Load balancing options
None
Azure load balancer
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.
Application gateway
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.
Review + create
< Previous
Next : Management >
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Go to Settings to activate Windows.
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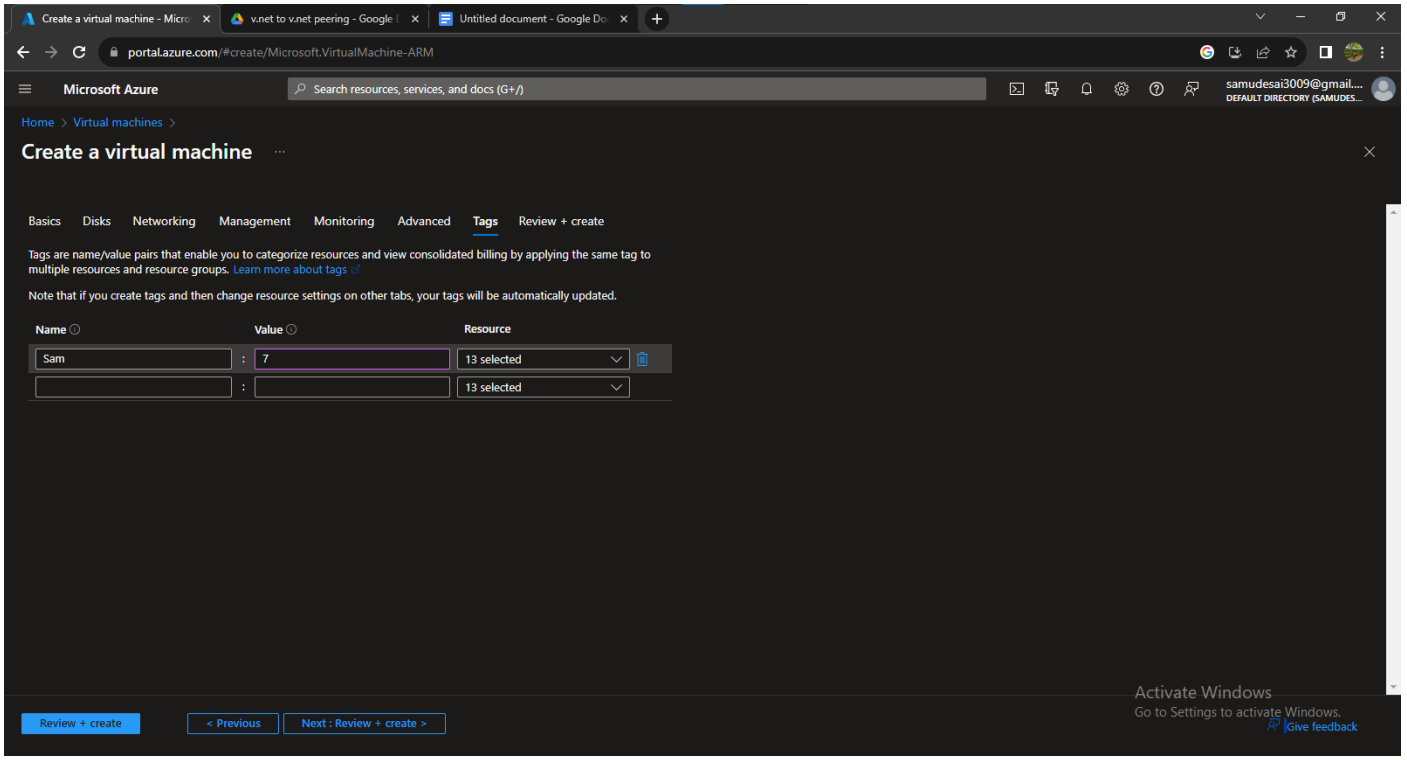
Adding Tags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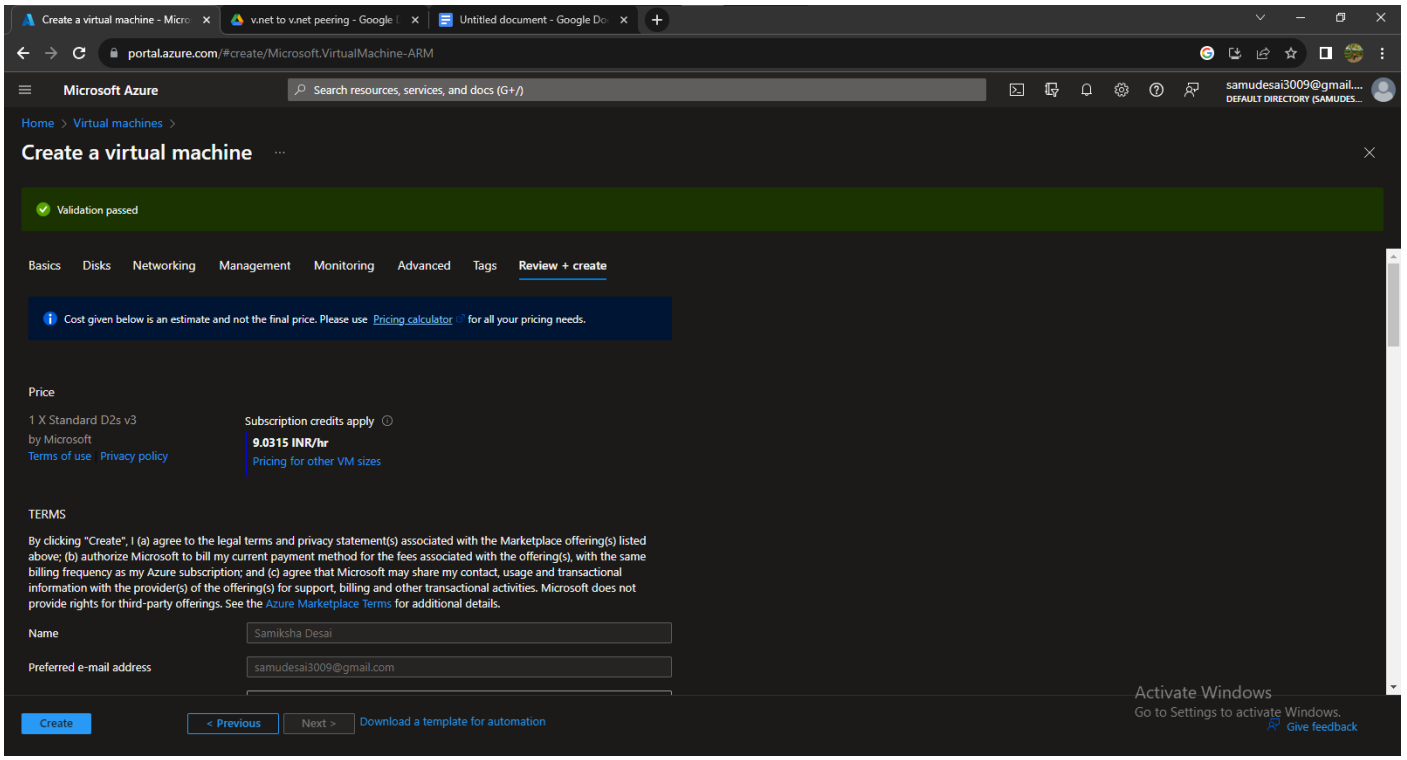
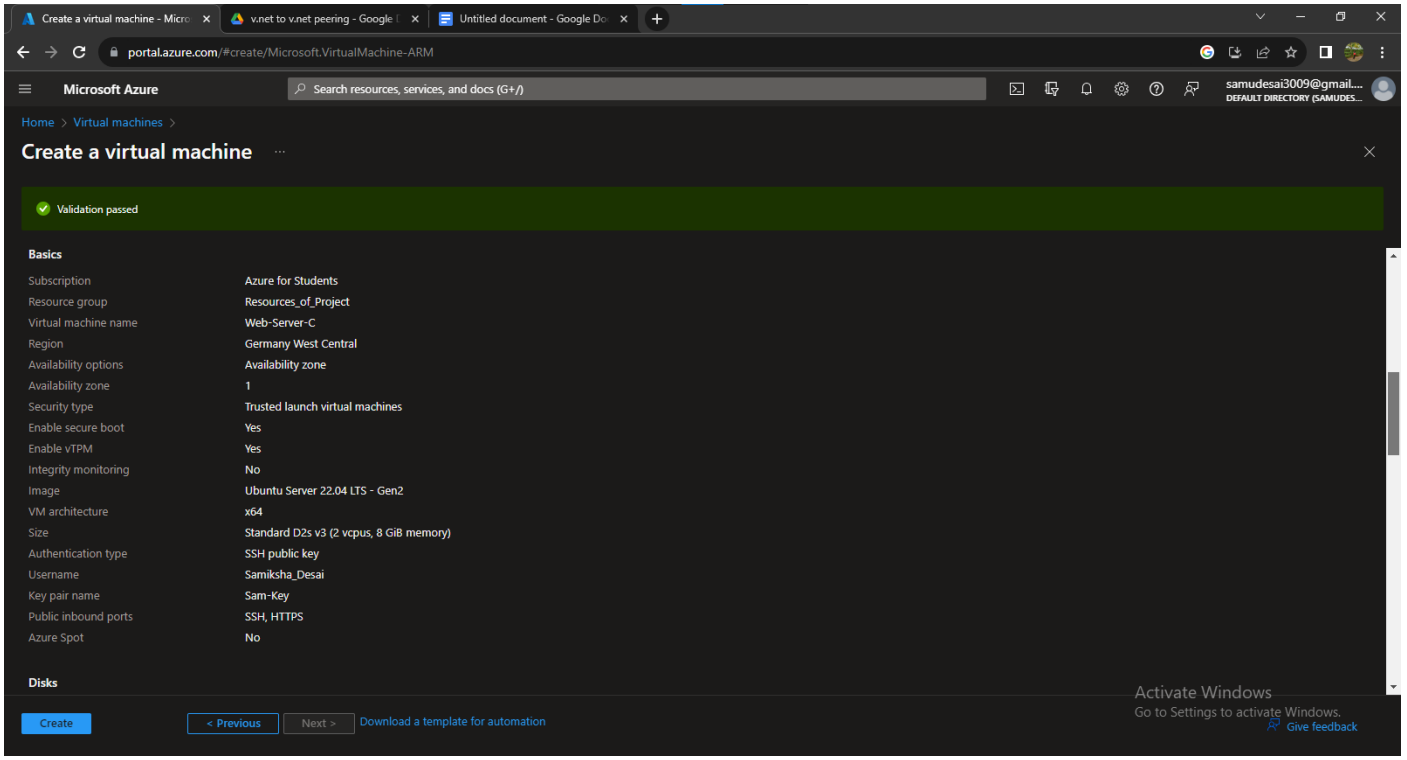
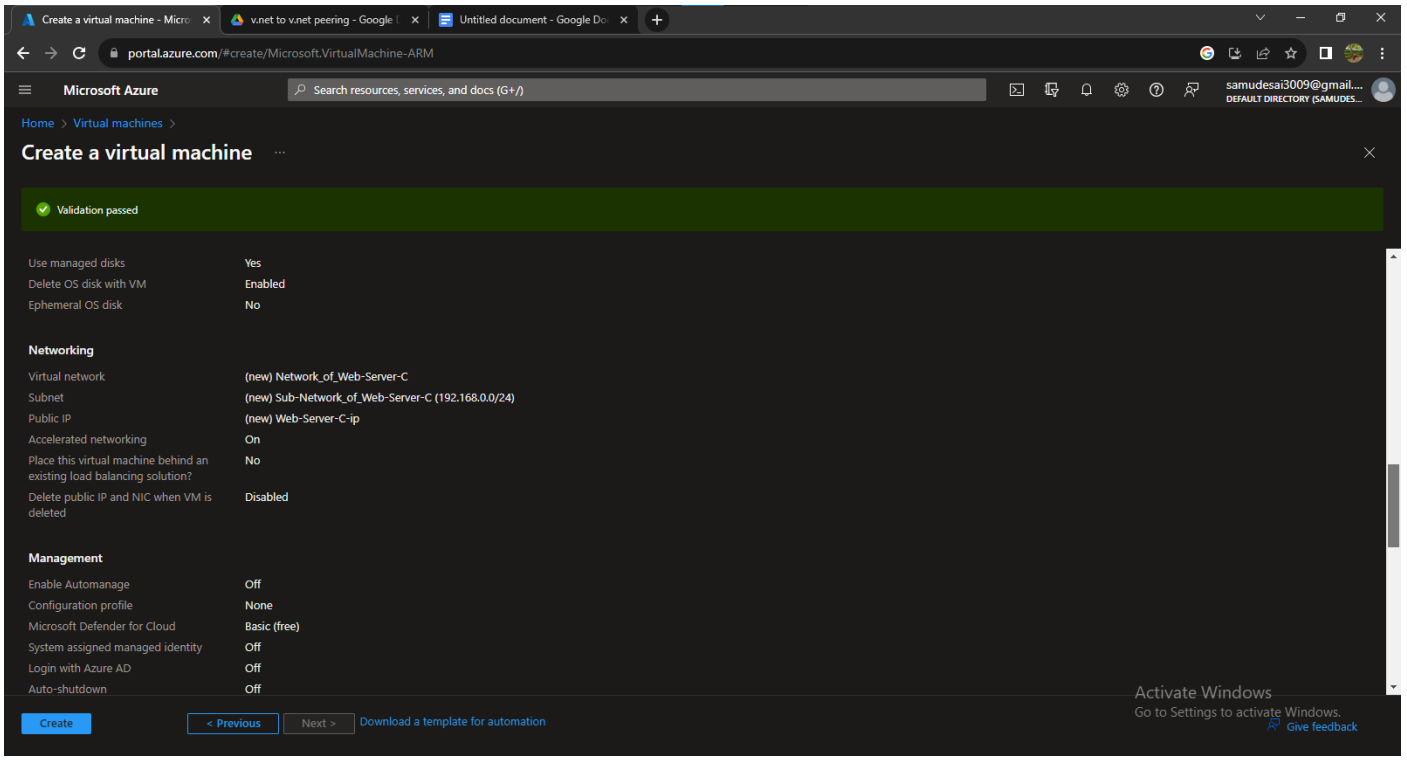
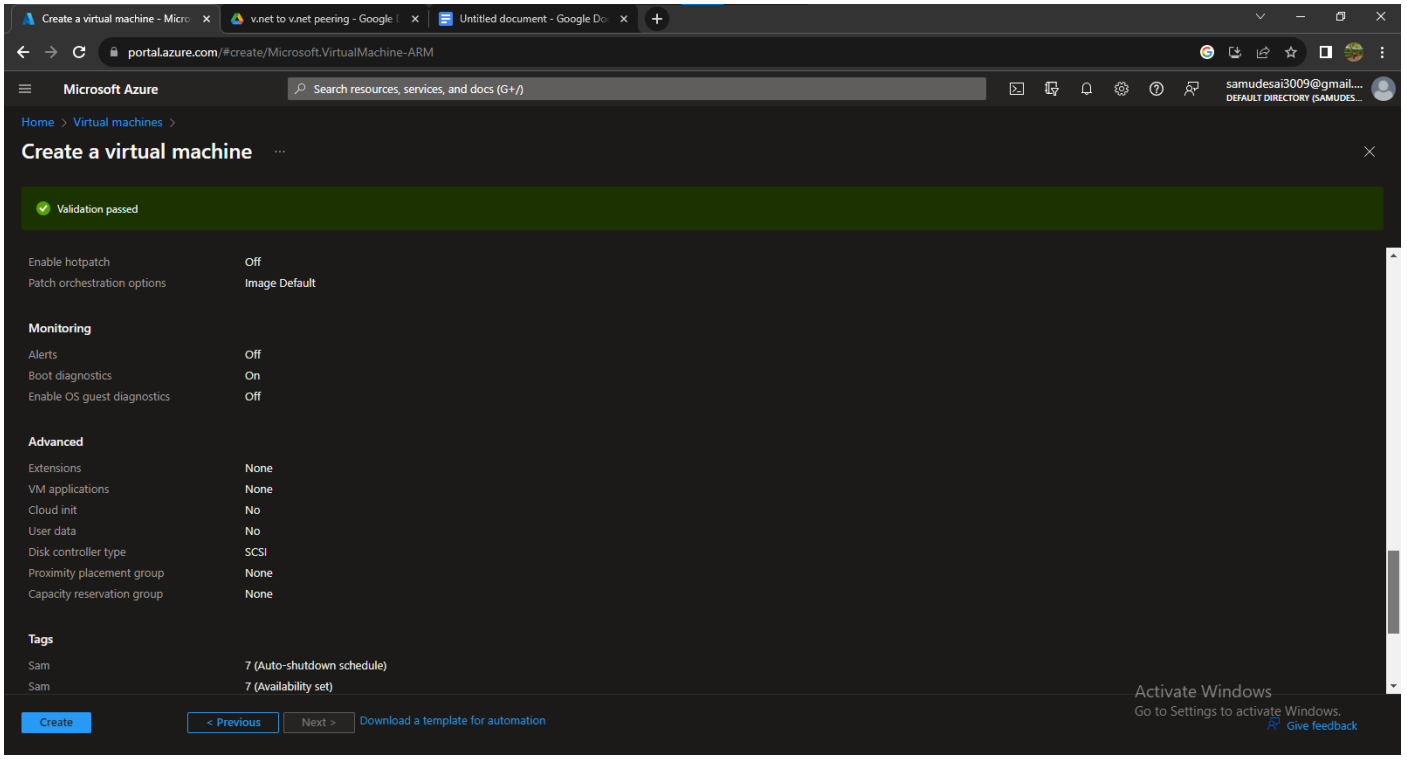
Create a virtual machine
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags
Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.
Name
Value
Resource
Sam
7
13 selected
13 selected
Review + create
< Previous
Next : Review + create >
Activate Windows
Go to Settings to activate Windows.
Give feedback

Validation Passed






Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Use managed disks Yes
Delete OS disk with VM Enabled
Ephemeral OS disk No
Networking
Virtual network (new) Network_of_Web-Server-C
Subnet (new) Sub-Network_of_Web-Server-C (192.168.0.0/24)
Public IP (new) Web-Server-C-ip
Accelerated networking On
Place this virtual machine behind an existing load balancing solution? No
Delete public IP and NIC when VM is deleted Disabled
Management
Enable Automanage Off
Configuration profile None
Microsoft Defender for Cloud Basic (free)
System assigned managed identity Off
Login with Azure AD Off
Auto-shutdown Off
Create
< Previous
Next >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.
Give feedback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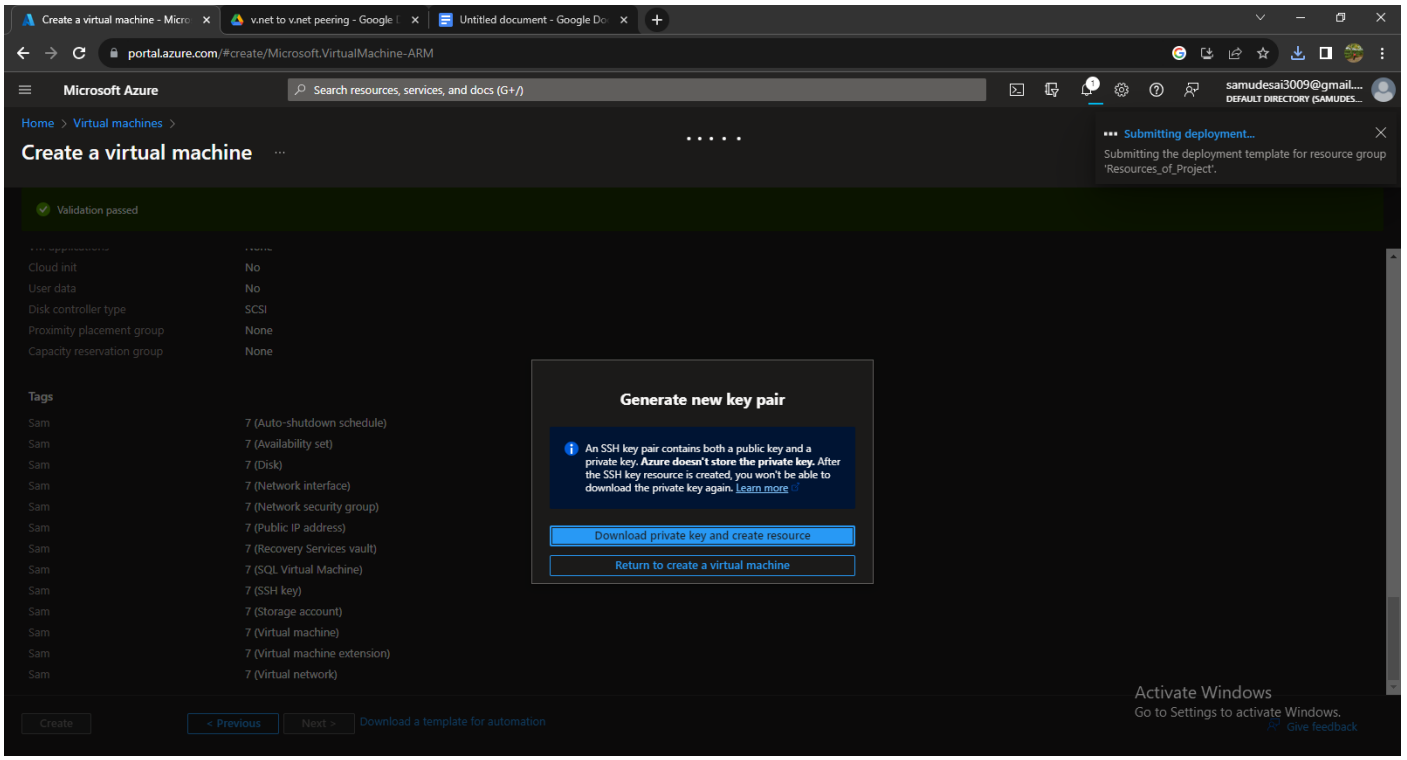
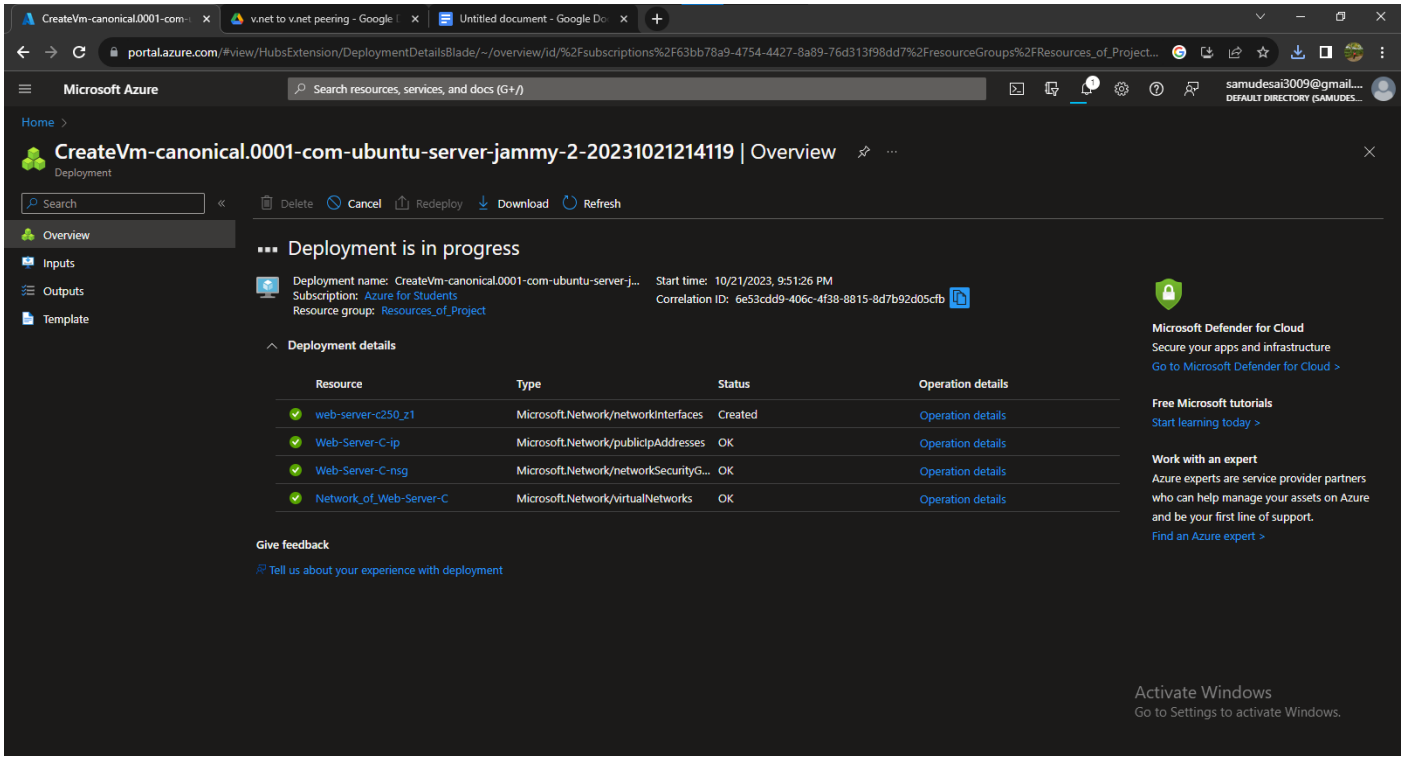
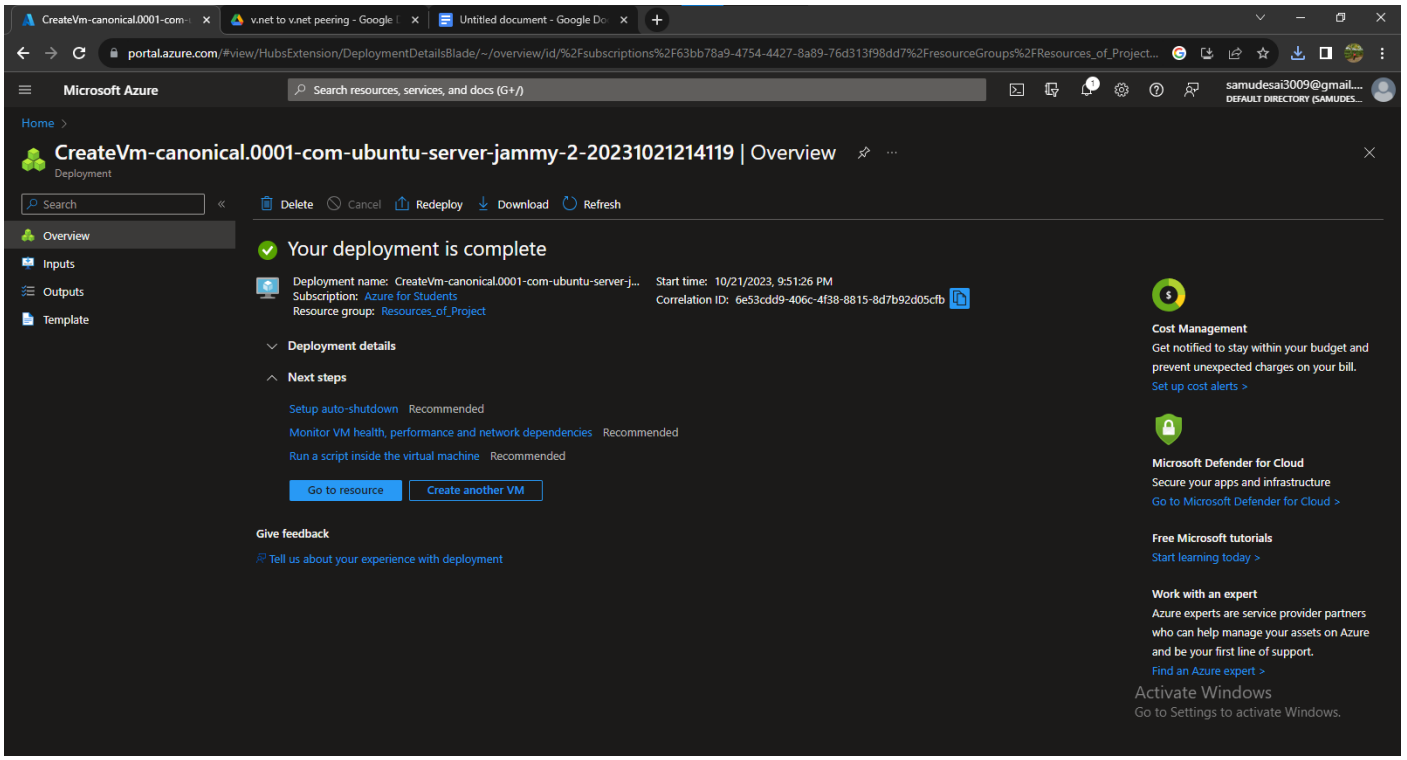
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Enable hotpatch Off
Patch orchestration options Image Default
Monitoring
Alerts Off
Boot diagnostics On
Enable OS guest diagnostics Off
Advanced
Extensions None
VM applications None
Cloud init No
User data No
Disk controller type SCSI
Proximity placement group None
Capacity reservation group None
Tags
Sam 7 (Auto-shutdown schedule)
Sam 7 (Availability set)
Create
< Previous
Next >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.
Give feedback

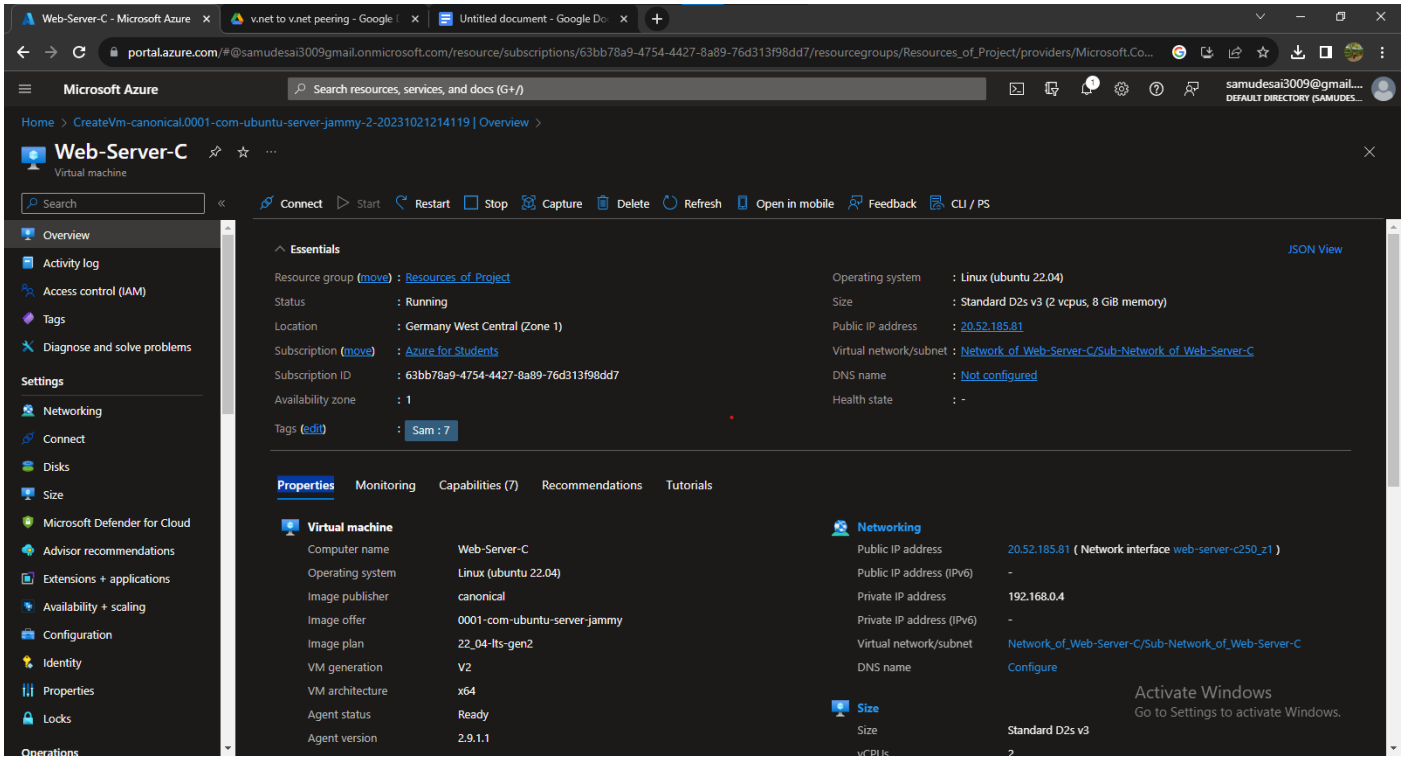
Downloading Private Key and creating resources

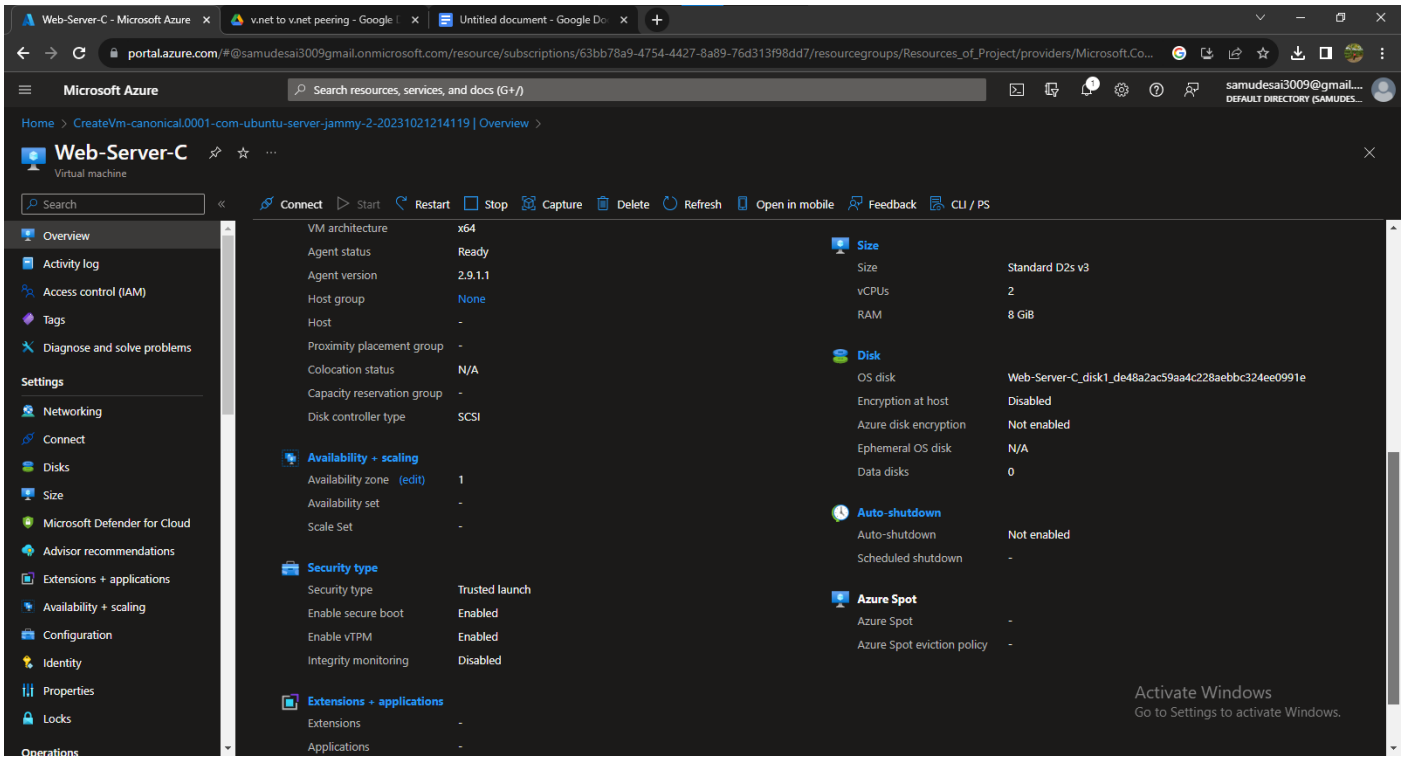




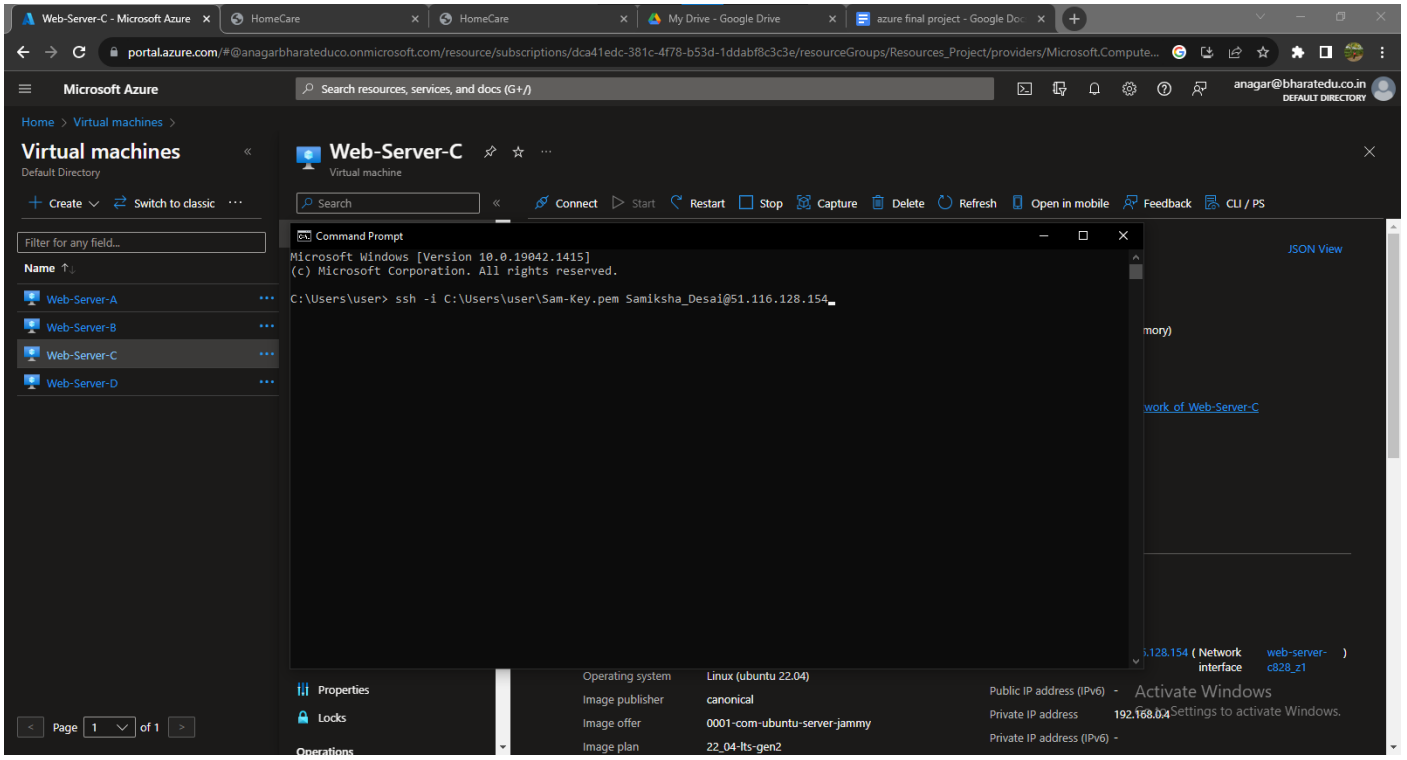
Deployment of Third VM is Complete



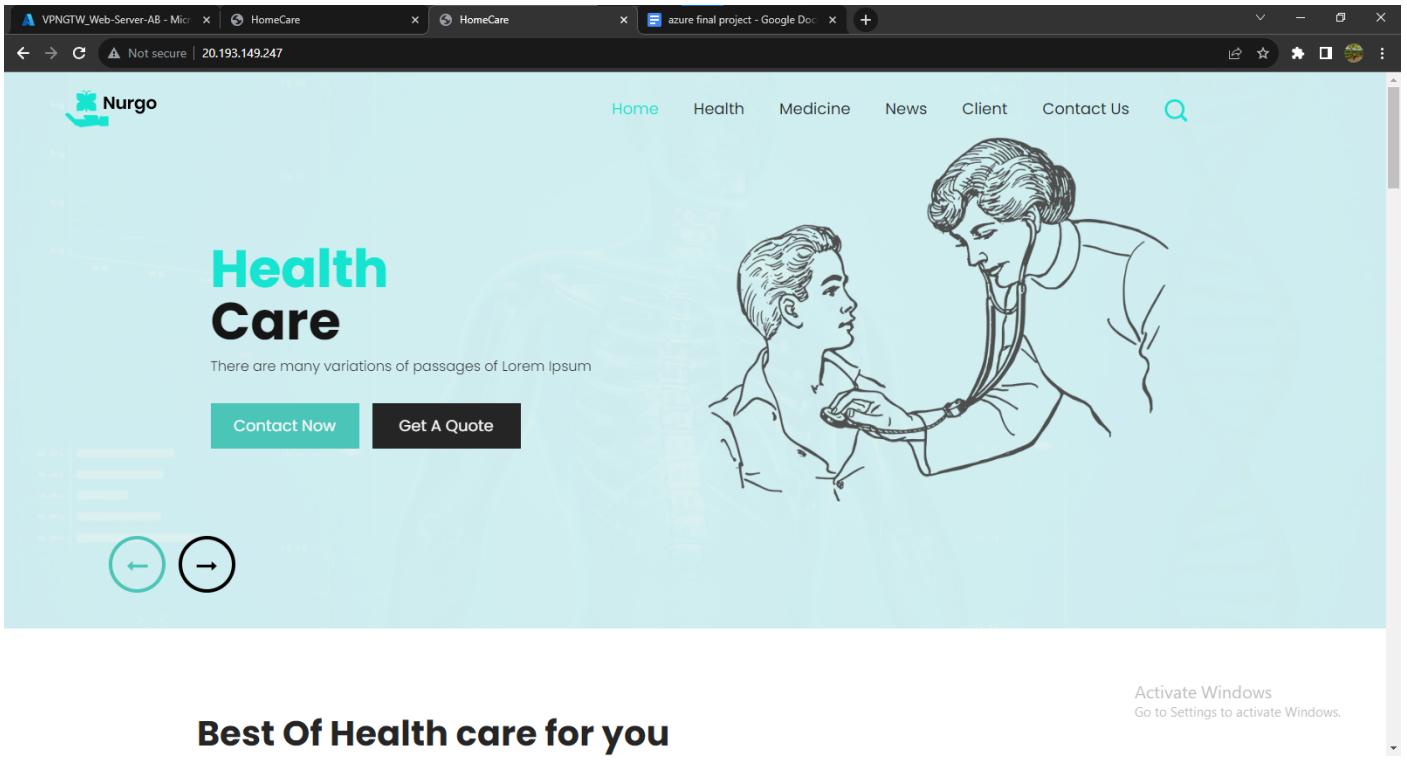




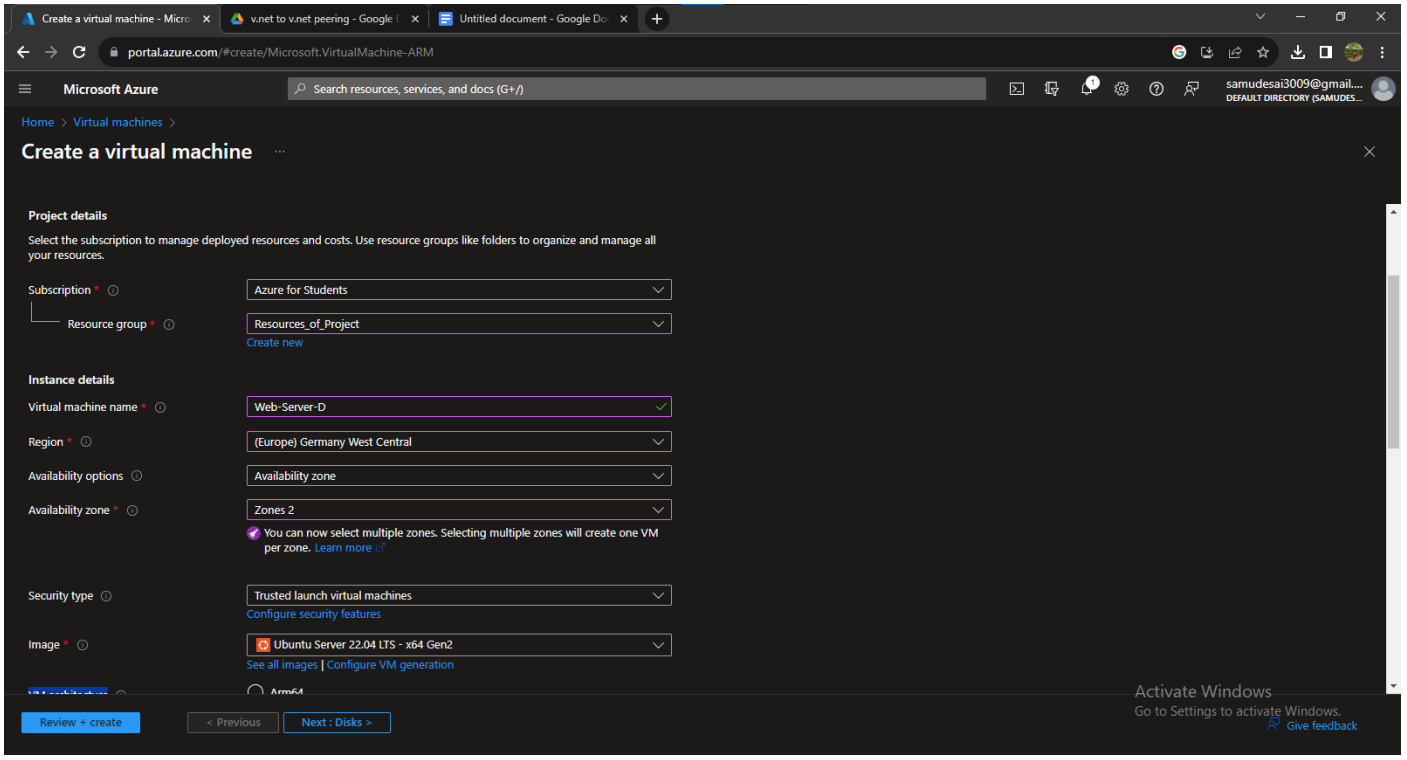
Running the pem file in command prompt and adding the required files to host the website

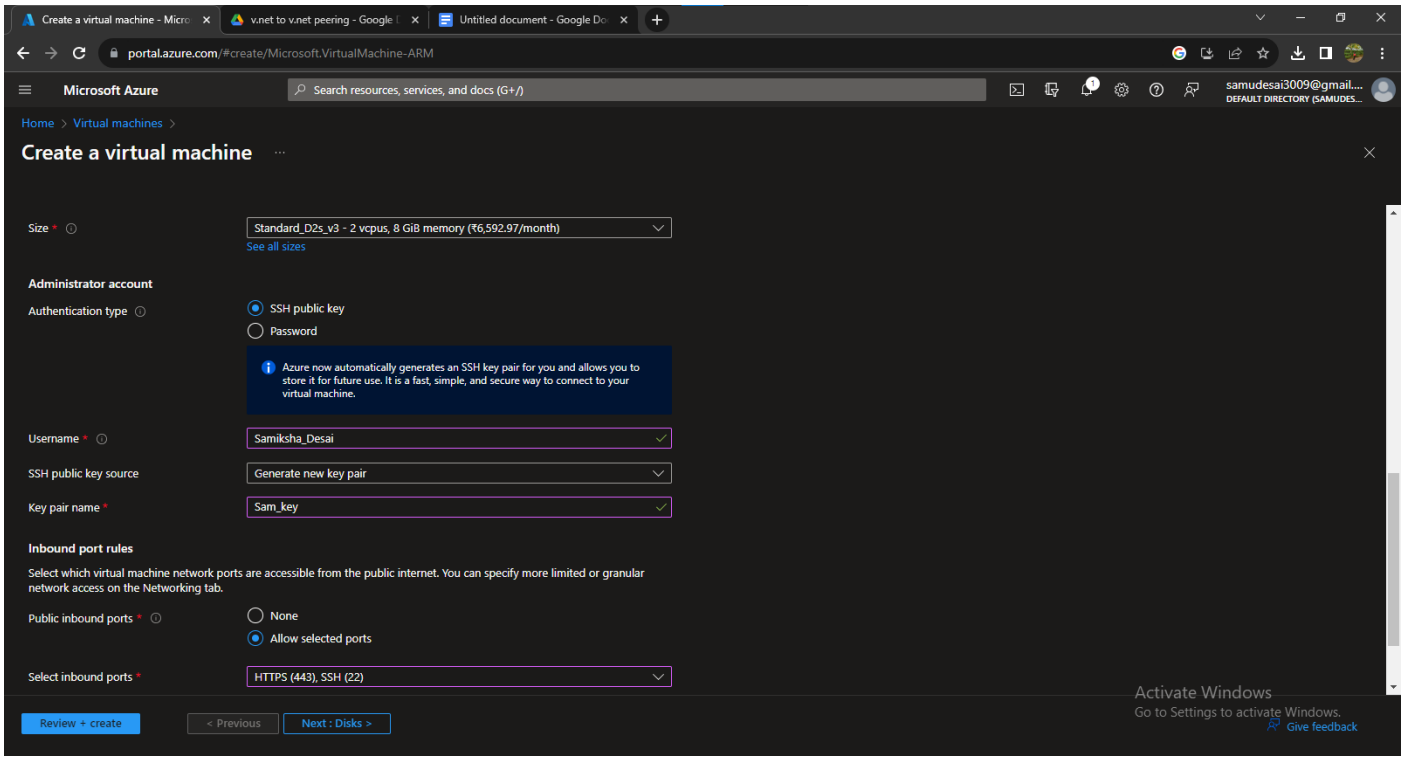


Here the Website is Hosted

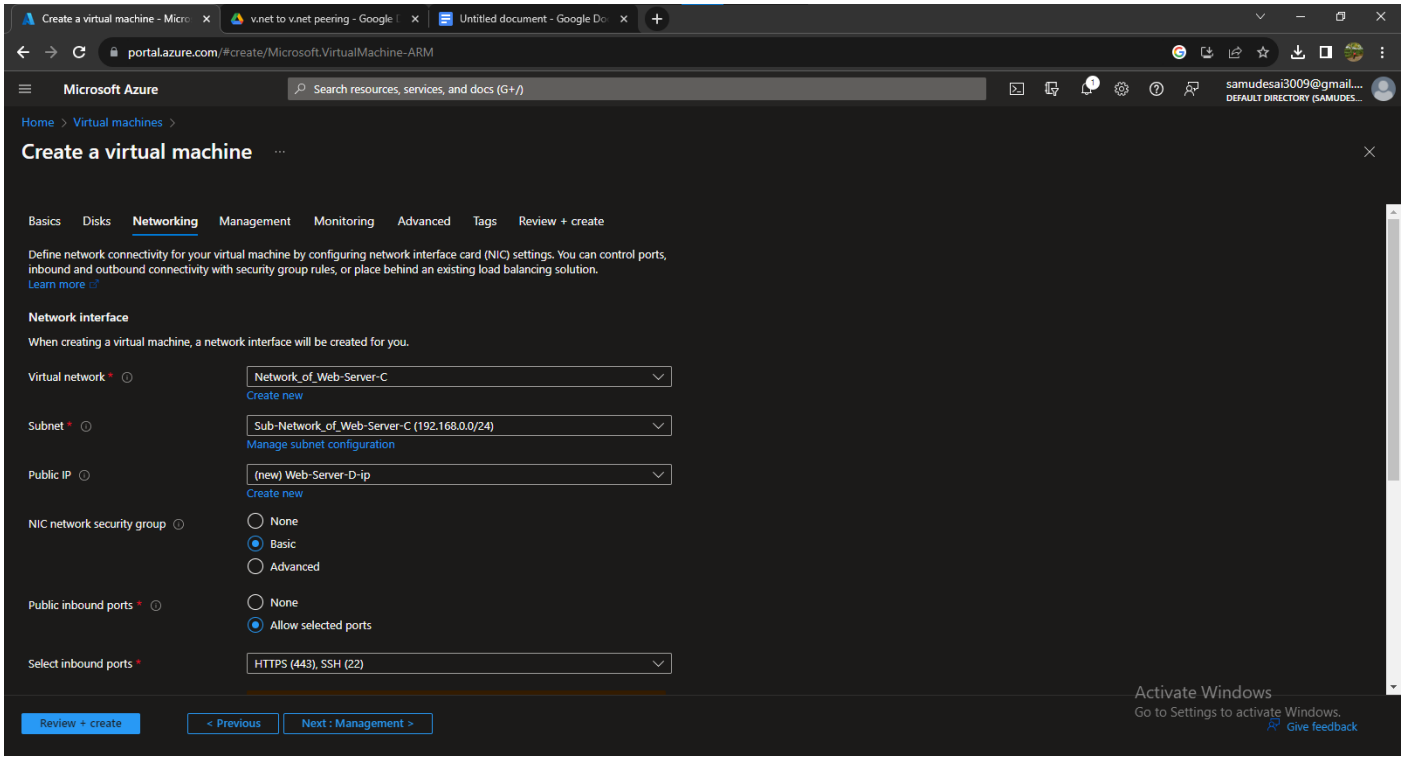


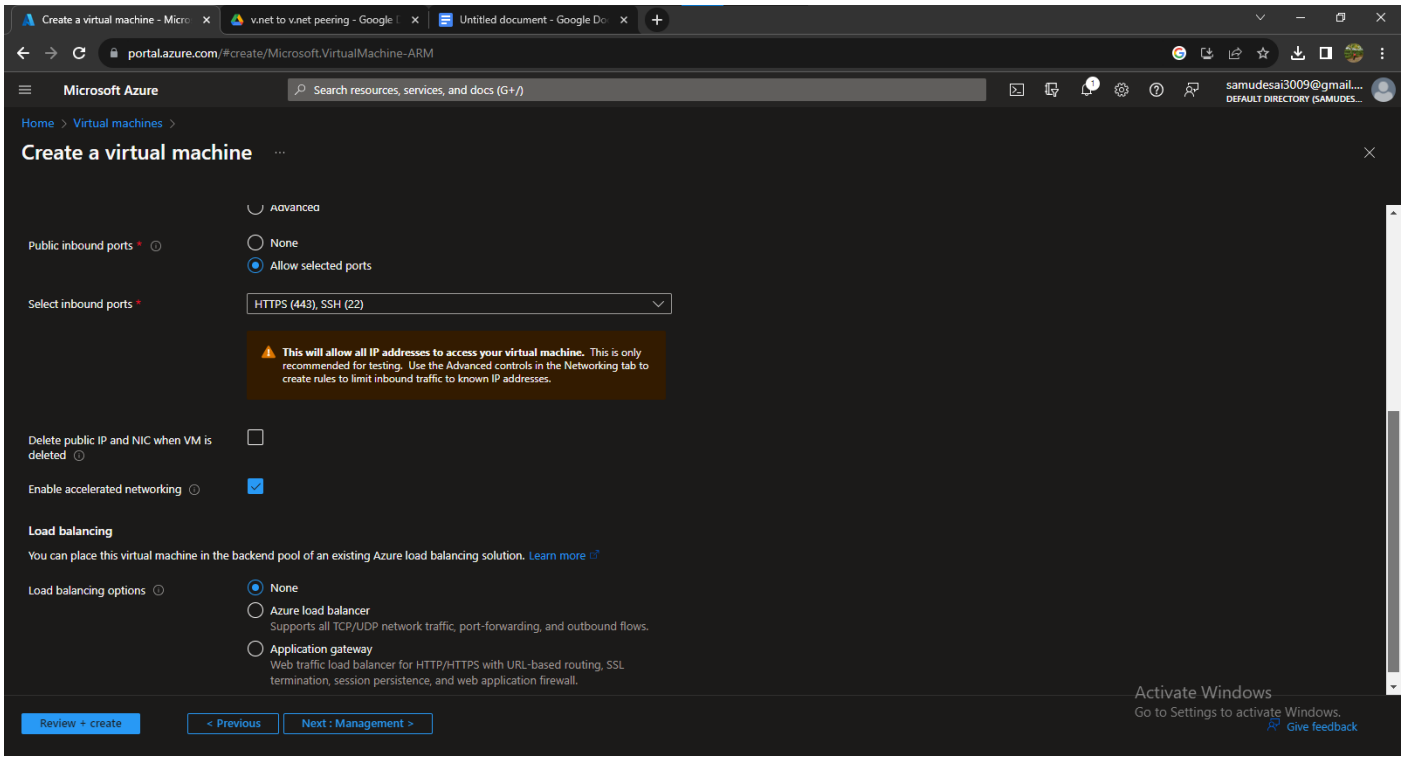
Step 4 : Creating fourth Virtual Machine - Web-Server-D

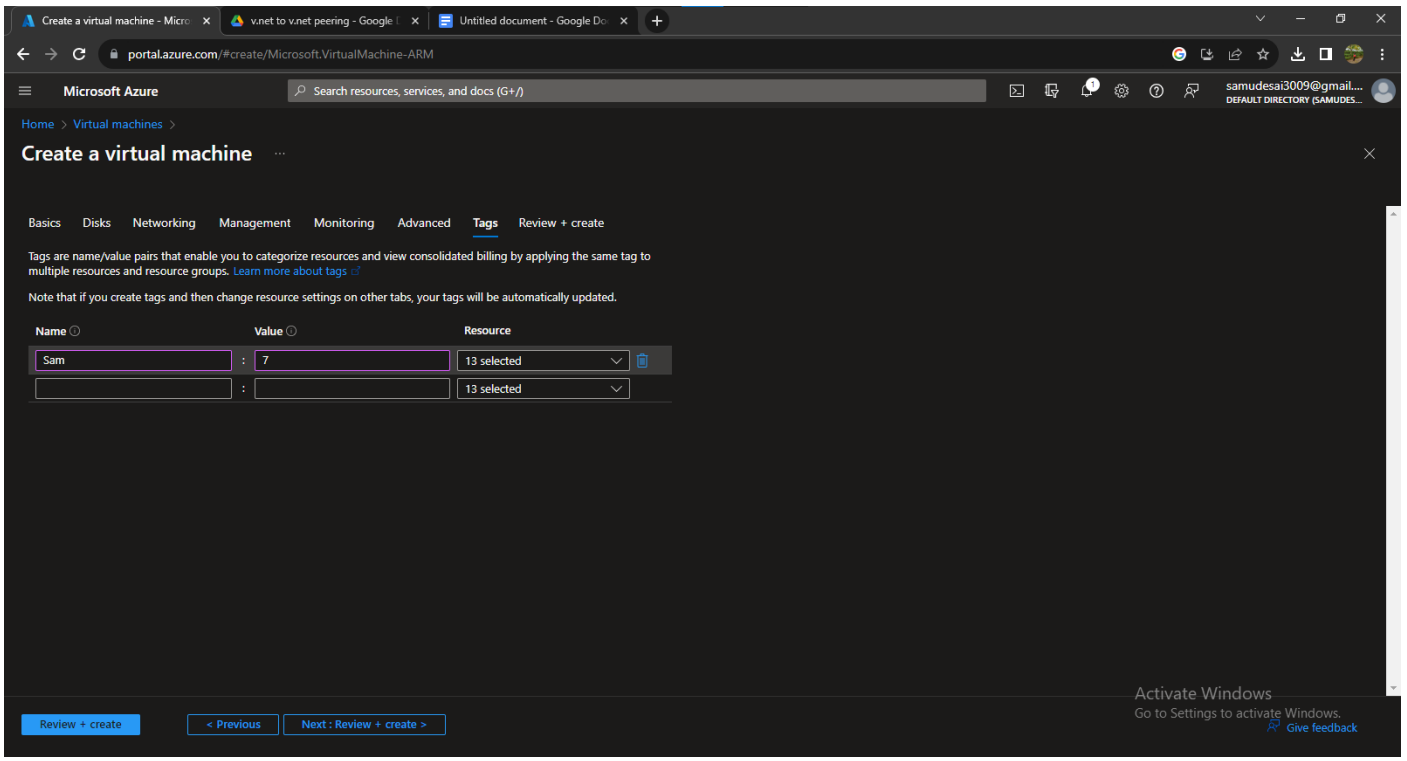




Assigning Same Virtual Network to the same regional vm's




Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Advanced
Public inbound ports *
None
Allow selected ports
Select inbound ports *
HTTPS (443), SSH (22)
This will allow all IP addresses to access your virtual machine. This is only recommended for testing. Use the Advanced controls in the Networking tab to create rules to limit inbound traffic to known IP addresses.
Delete public IP and NIC when VM is deleted
Enable accelerated networking
Load balancing
You can place this virtual machine in the backend pool of an existing Azure load balancing solution. Learn more
Load balancing options
None
Azure load balancer
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.
Application gateway
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.
Review + create
< Previous
Next : Management >
Activate Windows
Go to Settings to activate Windows.
Give feedback


Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
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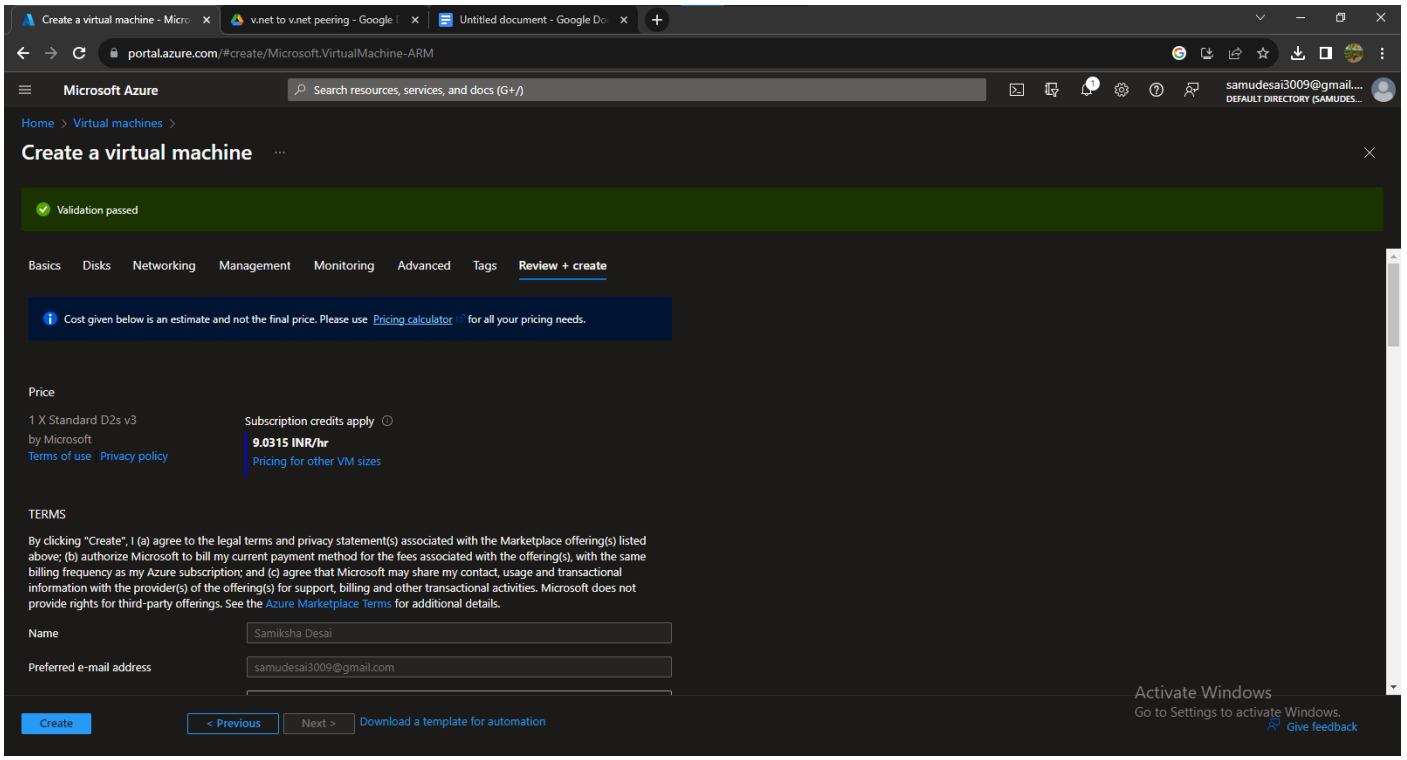
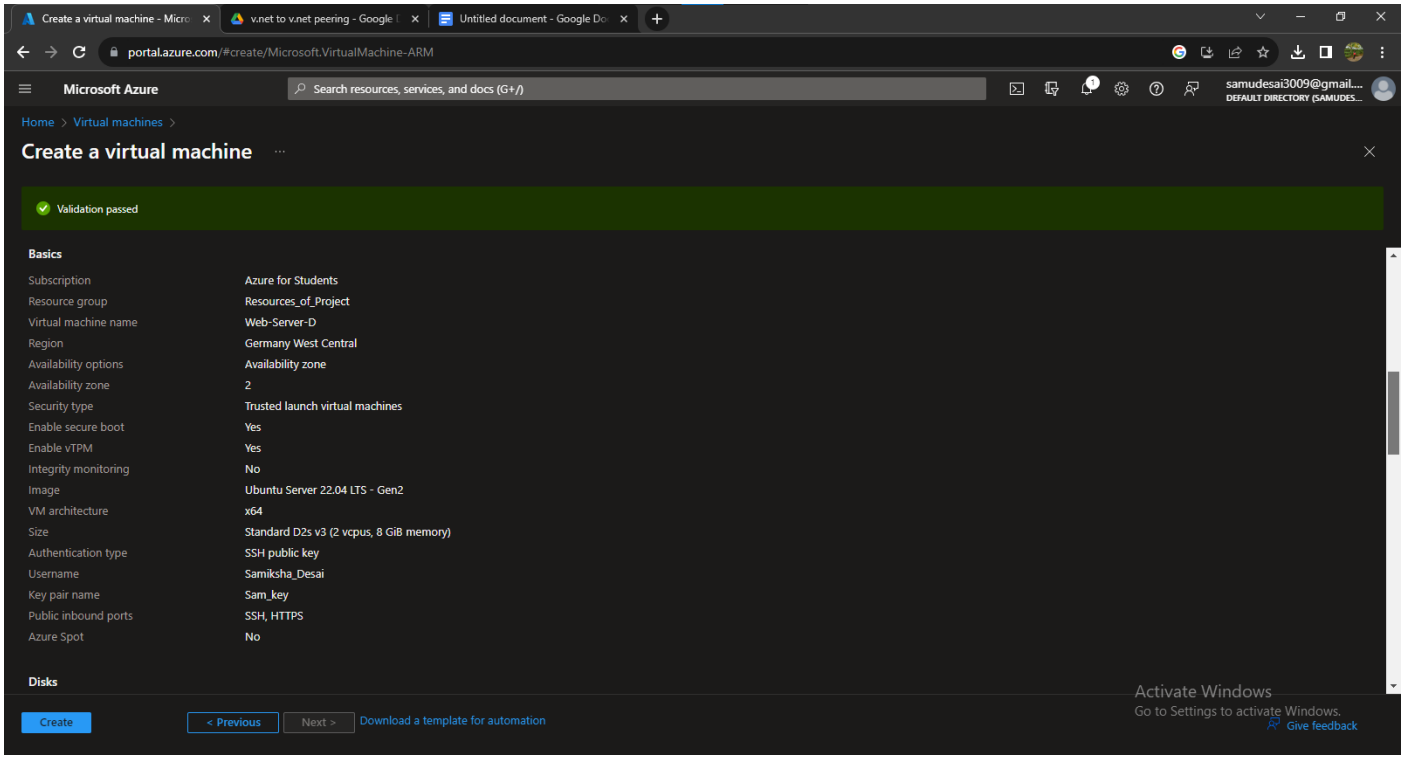
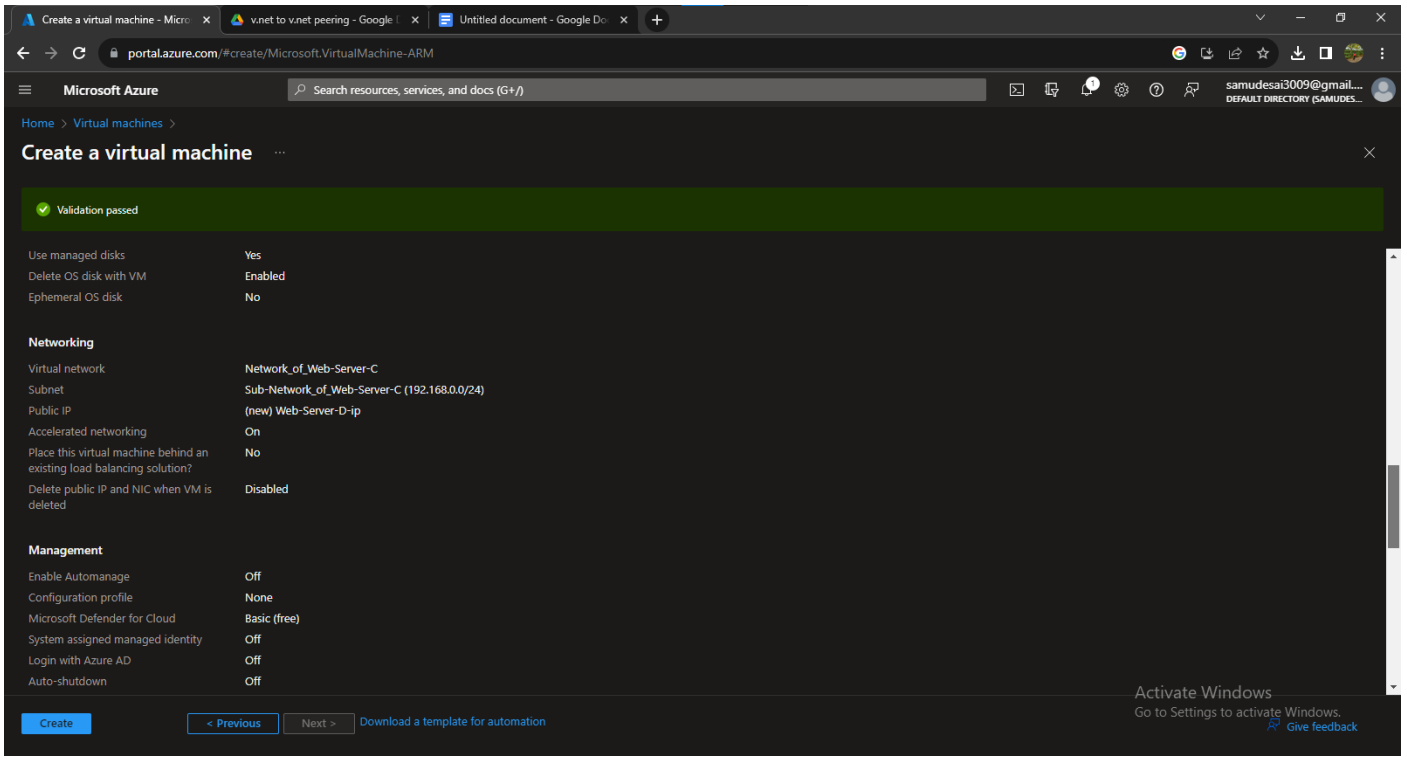
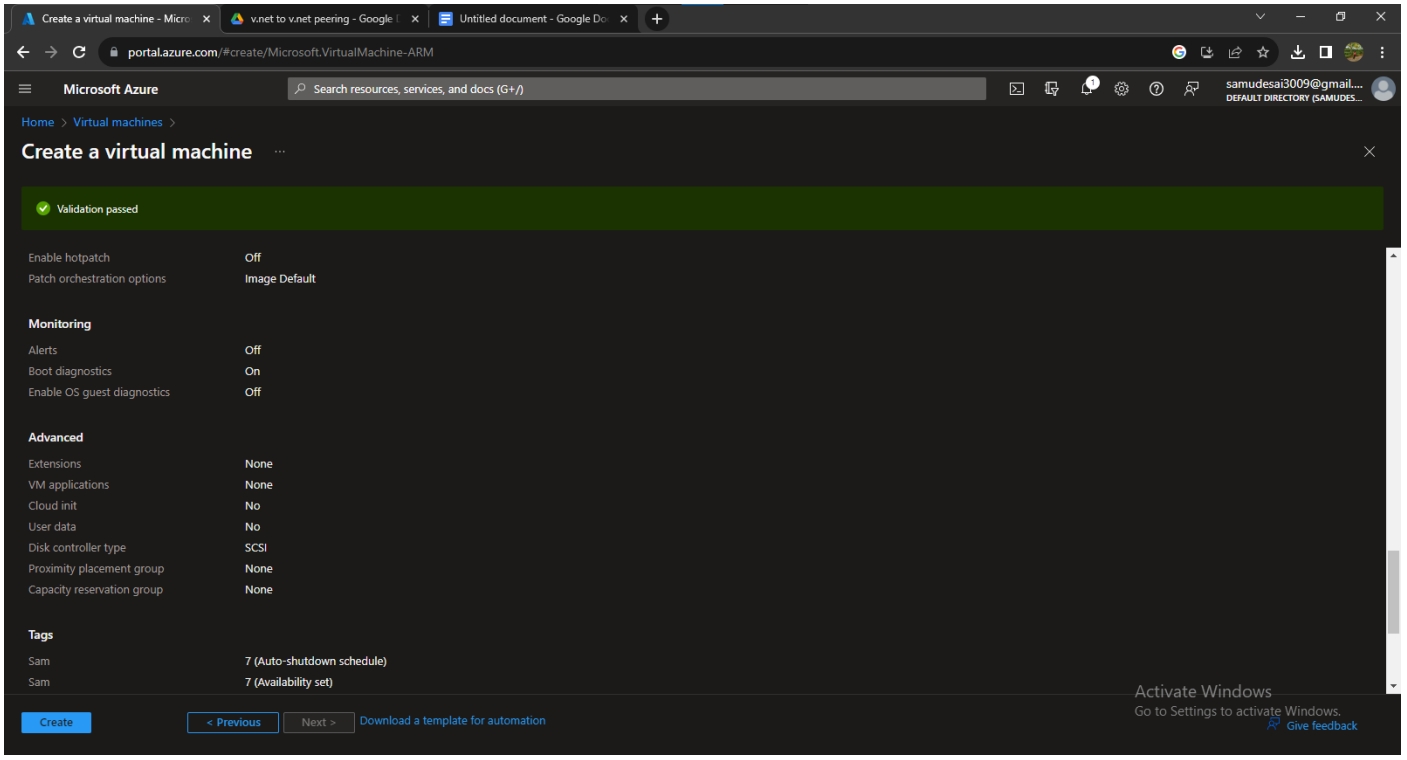
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Basics
Disks
Networking
Management
Monitoring
Advanced
Tags
Review + create
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags
Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.
Name
Value
Resource
Sam
7
13 selected
13 selected
Review + create
< Previous
Next : Review + create >
Activate Windows
Go to Settings to activate Windows.
Give feedback

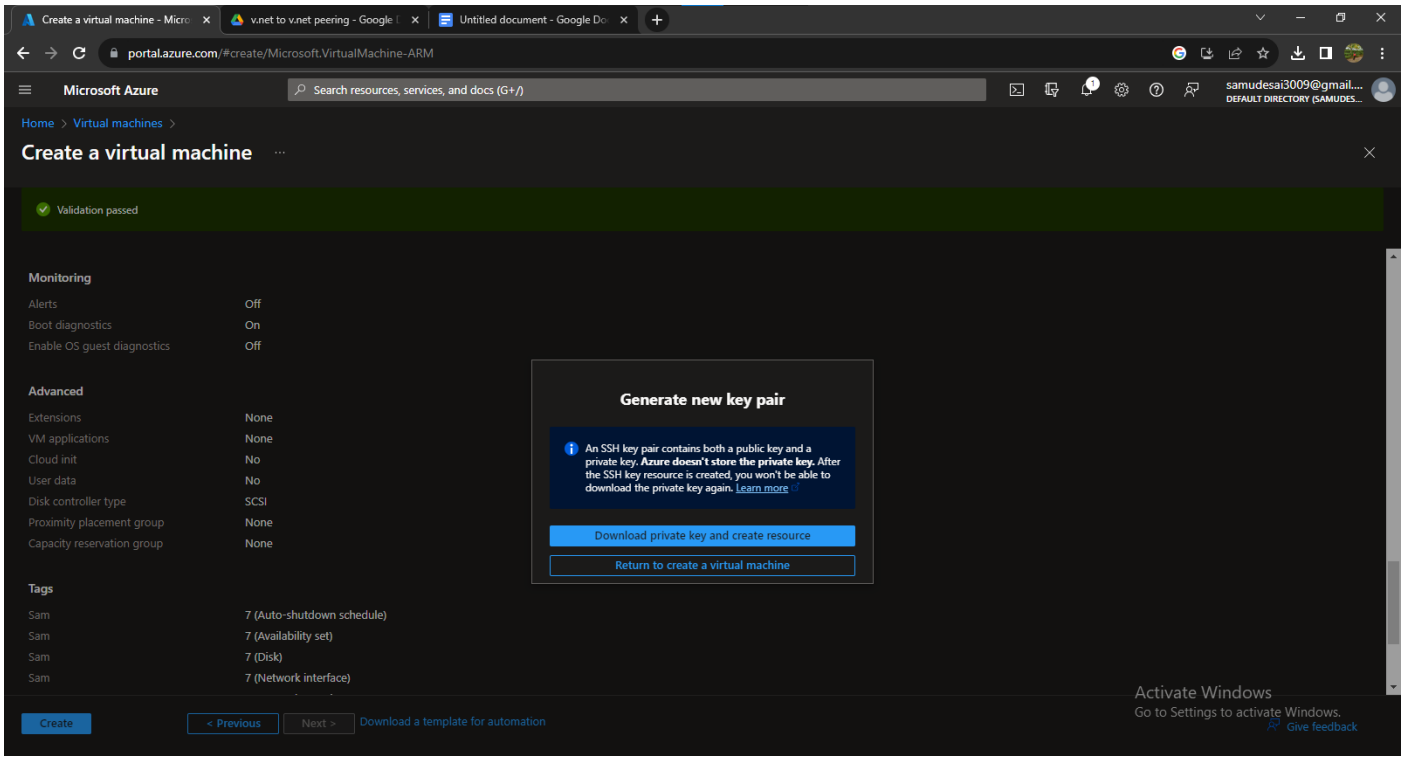

Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics Disks Networking Management Monitoring Advanced Tags Review + create
Cost given below is an estimate and not the final price. Please use Pricing calculator for all your pricing needs.
Price
1 X Standard D2s v3
by Microsoft
Terms of use Privacy policy
Subscription credits apply
9.0315 INR/hr
Pricing for other VM sizes
TERMS
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.
Name
Samiksha Desai
Preferred e-mail address
samudesai3009@gmail.com
Create
< Previous
Next >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.
Give feedback


Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Basics
Subscription Azure for Students
Resource group Resources_of_Project
Virtual machine name Web-Server-D
Region Germany West Central
Availability options Availability zone
Availability zone 2
Security type Trusted launch virtual machines
Enable secure boot Yes
Enable vTPM Yes
Integrity monitoring No
Image Ubuntu Server 22.04 LTS - Gen2
VM architecture x64
Size Standard D2s v3 (2 vcpus, 8 GiB memory)
Authentication type SSH public key
Username Samiksha_Desai
Key pair name Sam_key
Public inbound ports SSH, HTTPS
Azure Spot No
Disks
Create
< Previous
Next >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.
Give feedback

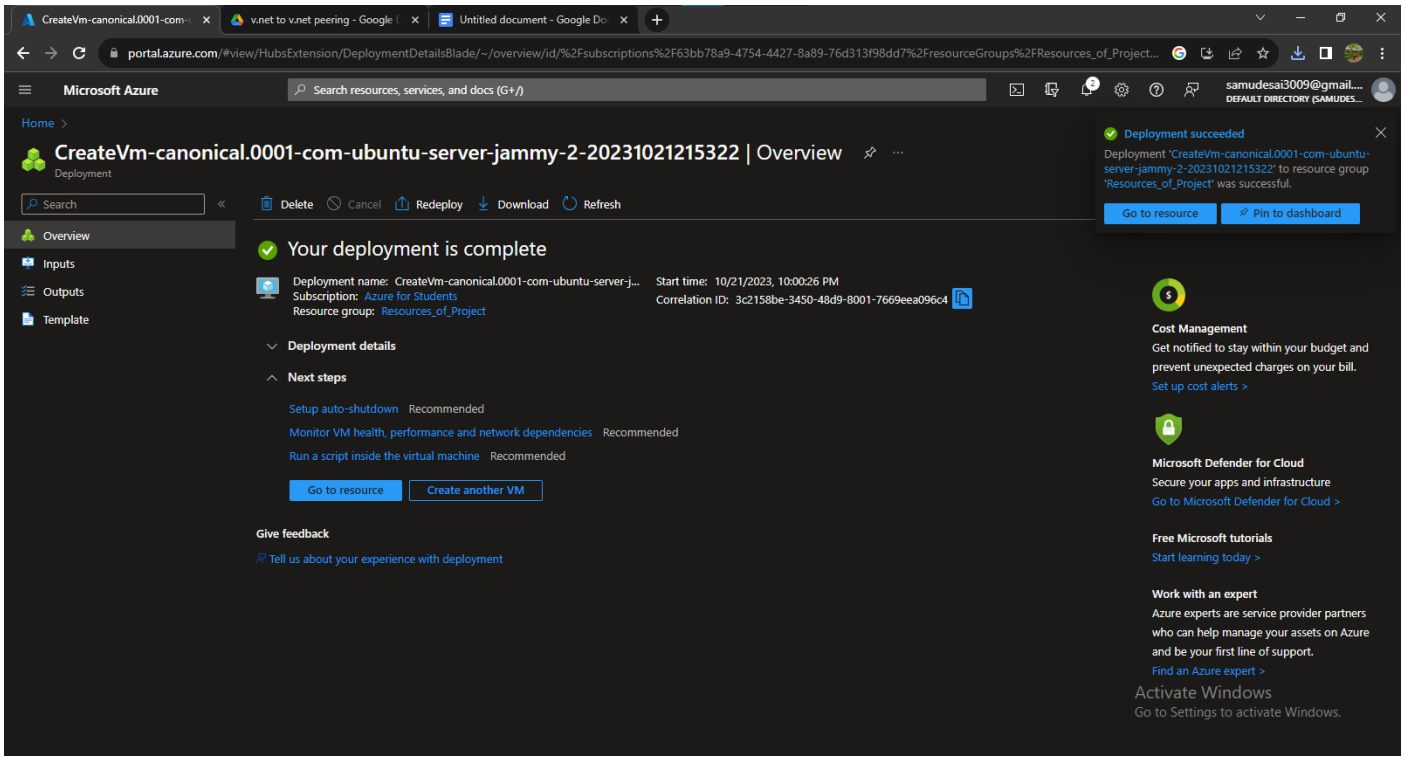

Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Use managed disks Yes
Delete OS disk with VM Enabled
Ephemeral OS disk No
Networking
Virtual network Network_of_Web-Server-C
Subnet Sub-Network_of_Web-Server-C (192.168.0.0/24)
Public IP (new) Web-Server-D-ip
Accelerated networking On
Place this virtual machine behind an existing load balancing solution? No
Delete public IP and NIC when VM is deleted Disabled
Management
Enable Automanage Off
Configuration profile None
Microsoft Defender for Cloud Basic (free)
System assigned managed identity Off
Login with Azure AD Off
Auto-shutdown Off
Create
< Previous
Next >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.
Give feedback

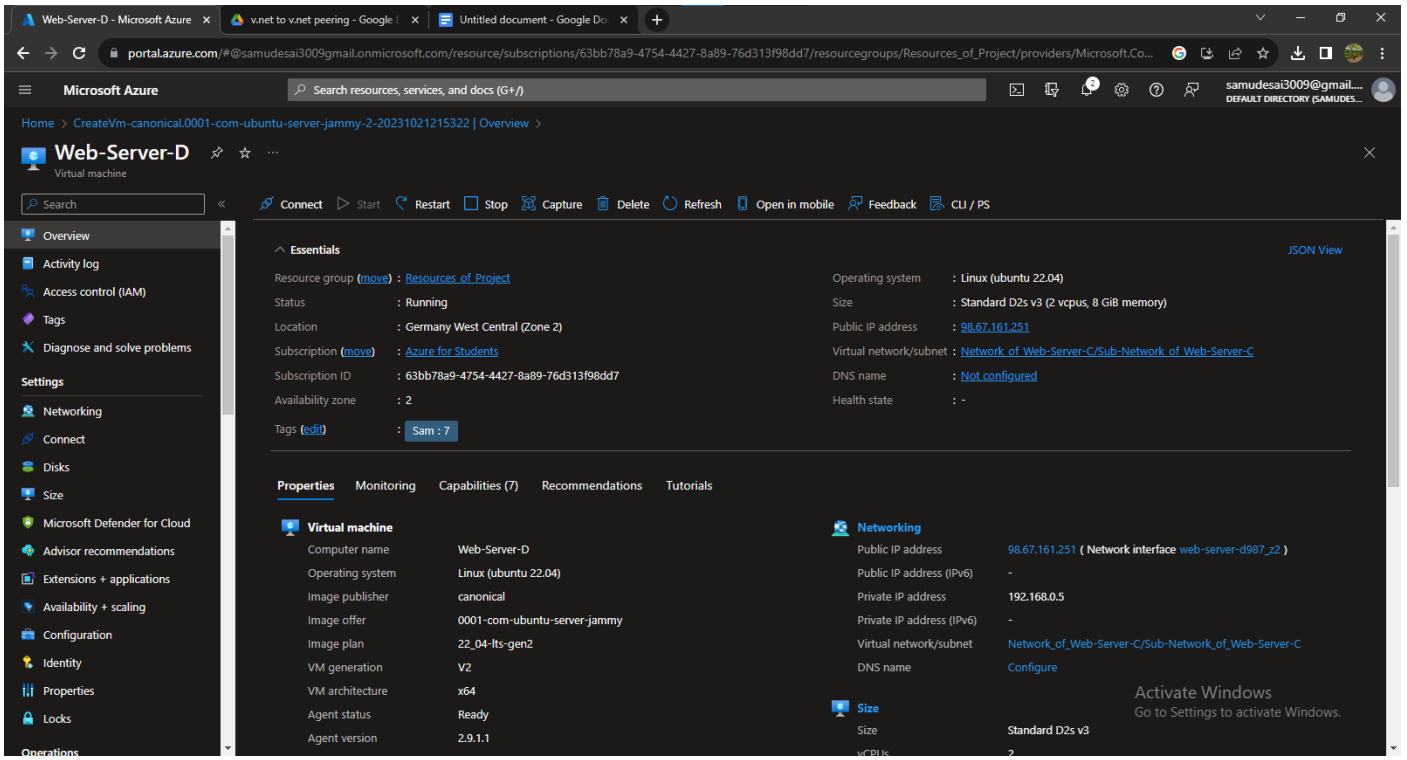

Create a virtual machine - Micro
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualMachine-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual machines >
Create a virtual machine
Validation passed
Enable hotpatch Off
Patch orchestration options Image Default
Monitoring
Alerts Off
Boot diagnostics On
Enable OS guest diagnostics Off
Advanced
Extensions None
VM applications None
Cloud init No
User data No
Disk controller type SCSI
Proximity placement group None
Capacity reservation group None
Tags
Sam 7 (Auto-shutdown schedule)
Sam 7 (Availability set)
Create
< Previous
Next >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.
Give feedback

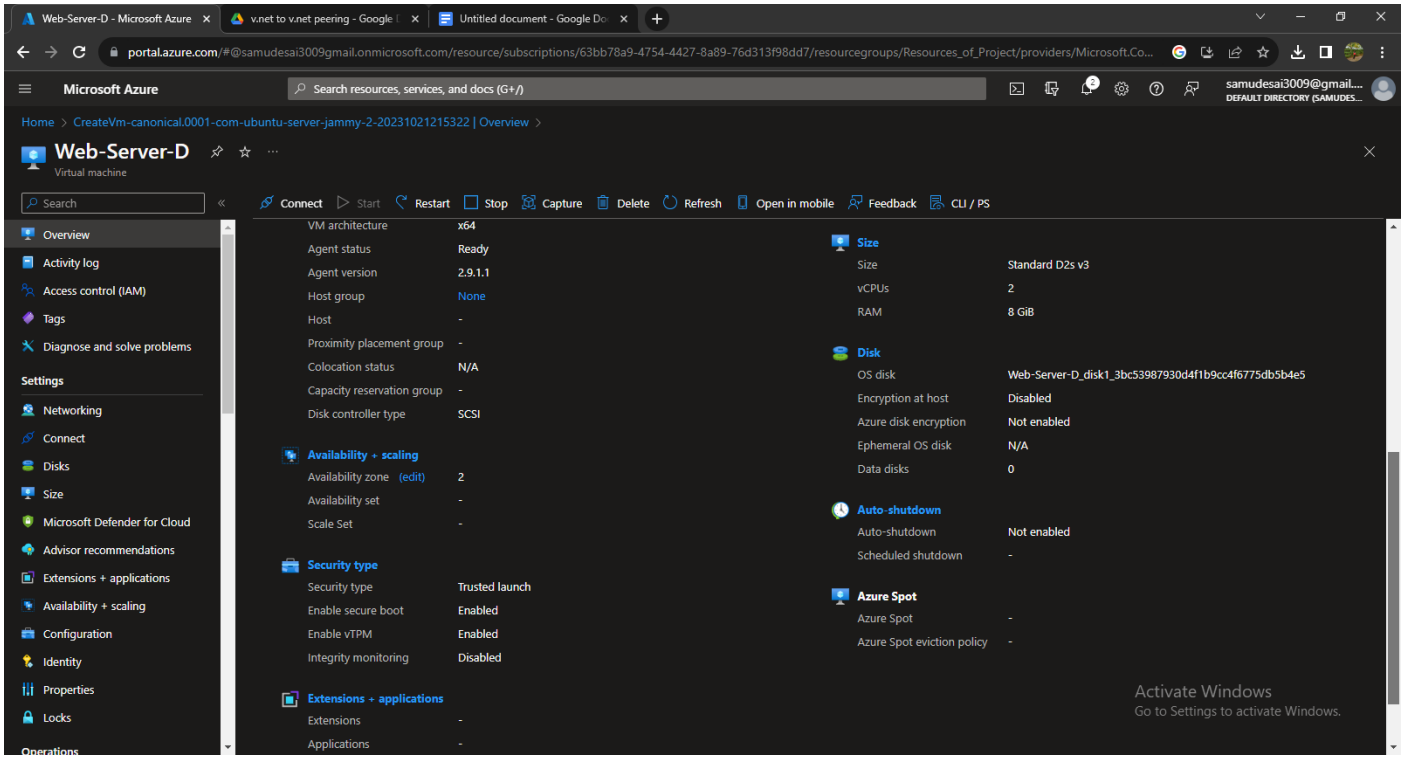
Downloading Private Key and Creating Resources



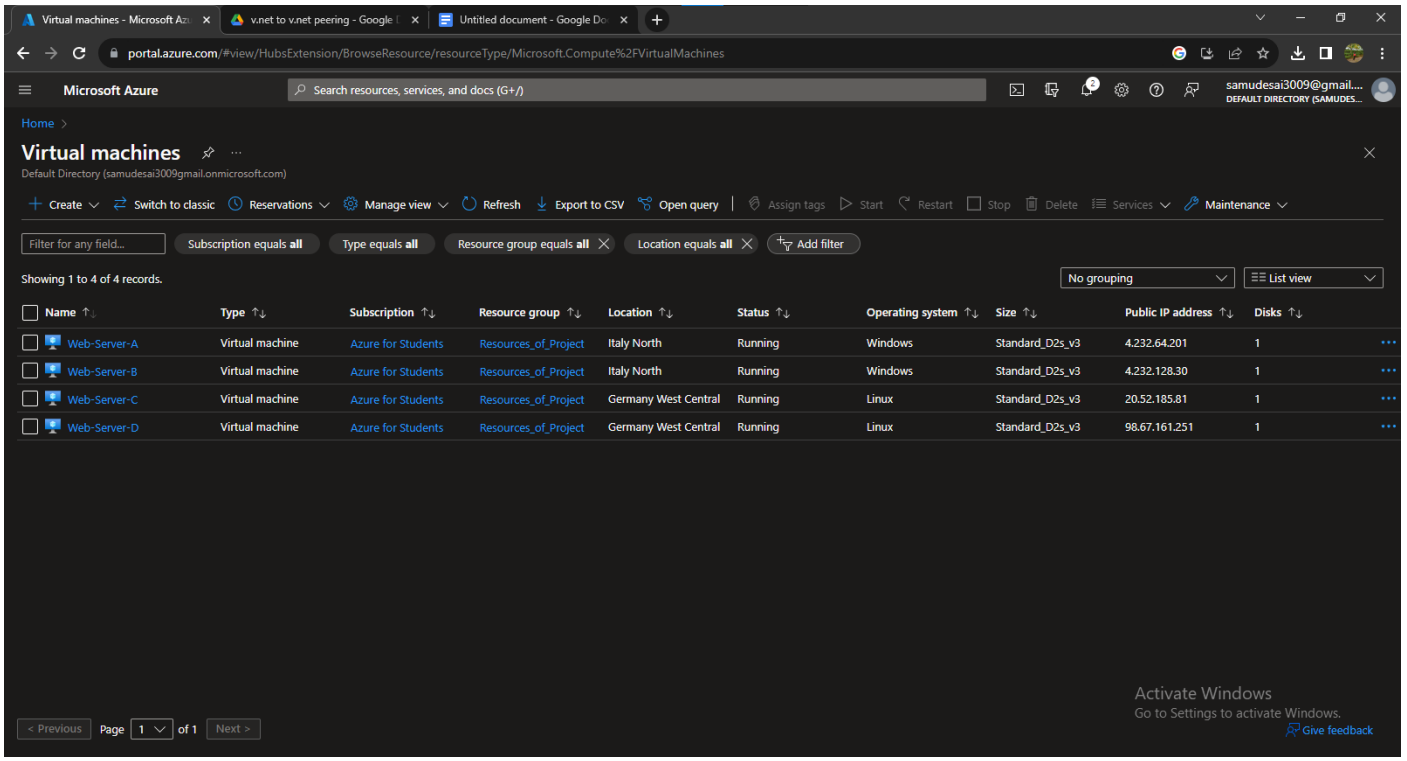
Deployment of fourth VM is Completed



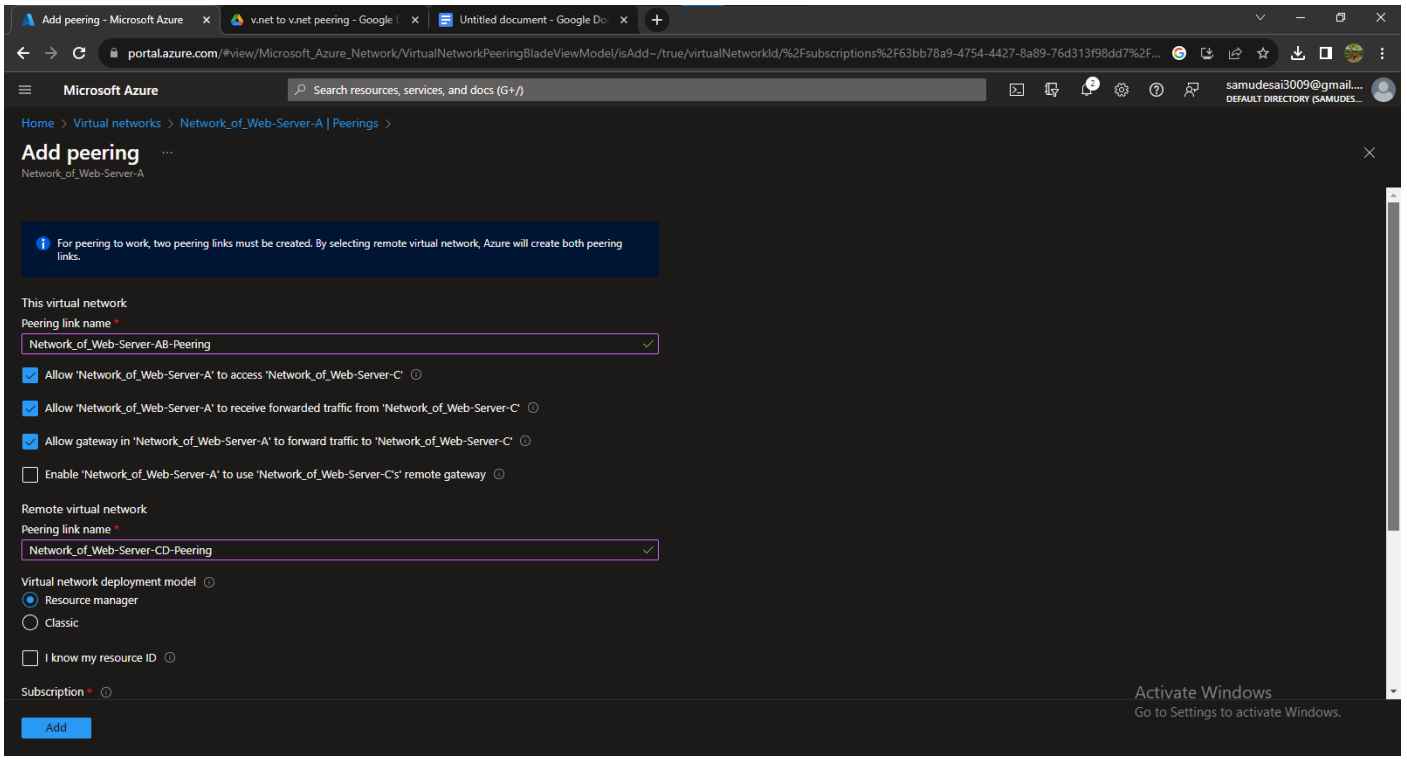

Web-Server-D - Microsoft Azure
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#@samudesai3009gmail.onmicrosoft.com/resource/subscriptions/63bb78a9-4754-4427-8a89-76d313f98dd7/resourcegroups/Resources_of_Project/providers/Microsoft.Co...
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021215322 | Overview >
Web-Server-D
Virtual machine
Search
Connect
Start
Restart
Stop
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Networking
Connect
Disks
Size
Microsoft Defender for Cloud
Advisor recommendations
Extensions + applications
Availability + scaling
Configuration
Identity
Properties
Locks
Operations
Essentials
JSON View
Resource group (move) : Resources_of_Project
Status : Running
Location : Germany West Central (Zone 2)
Subscription (move) : Azure for Students
Subscription ID : 63bb78a9-4754-4427-8a89-76d313f98dd7
Availability zone : 2
Tags (edit) : Sam : 7
Operating system : Linux (ubuntu 22.04)
Size : Standard D2s v3 (2 vcpus, 8 GiB memory)
Public IP address : 98.67.161.251
Virtual network/subnet : Network_of_Web-Server-C/Sub-Network_of_Web-Server-C
DNS name : Not configured
Health state : -
Properties
Monitoring
Capabilities (7)
Recommendations
Tutorials
Virtual machine
Computer name Web-Server-D
Operating system Linux (ubuntu 22.04)
Image publisher canonical
Image offer 0001-com-ubuntu-server-jammy
Image plan 22_04-lts-gen2
VM generation V2
VM architecture x64
Agent status Ready
Agent version 2.9.1.1
Networking
Public IP address 98.67.161.251 (Network interface web-server-d987_z2)
Public IP address (IPv6) -
Private IP address 192.168.0.5
Private IP address (IPv6) -
Virtual network/subnet Network_of_Web-Server-C/Sub-Network_of_Web-Server-C
DNS name Configure
Size
Size Standard D2s v3
Activate Windows
Go to Settings to activate Windows.

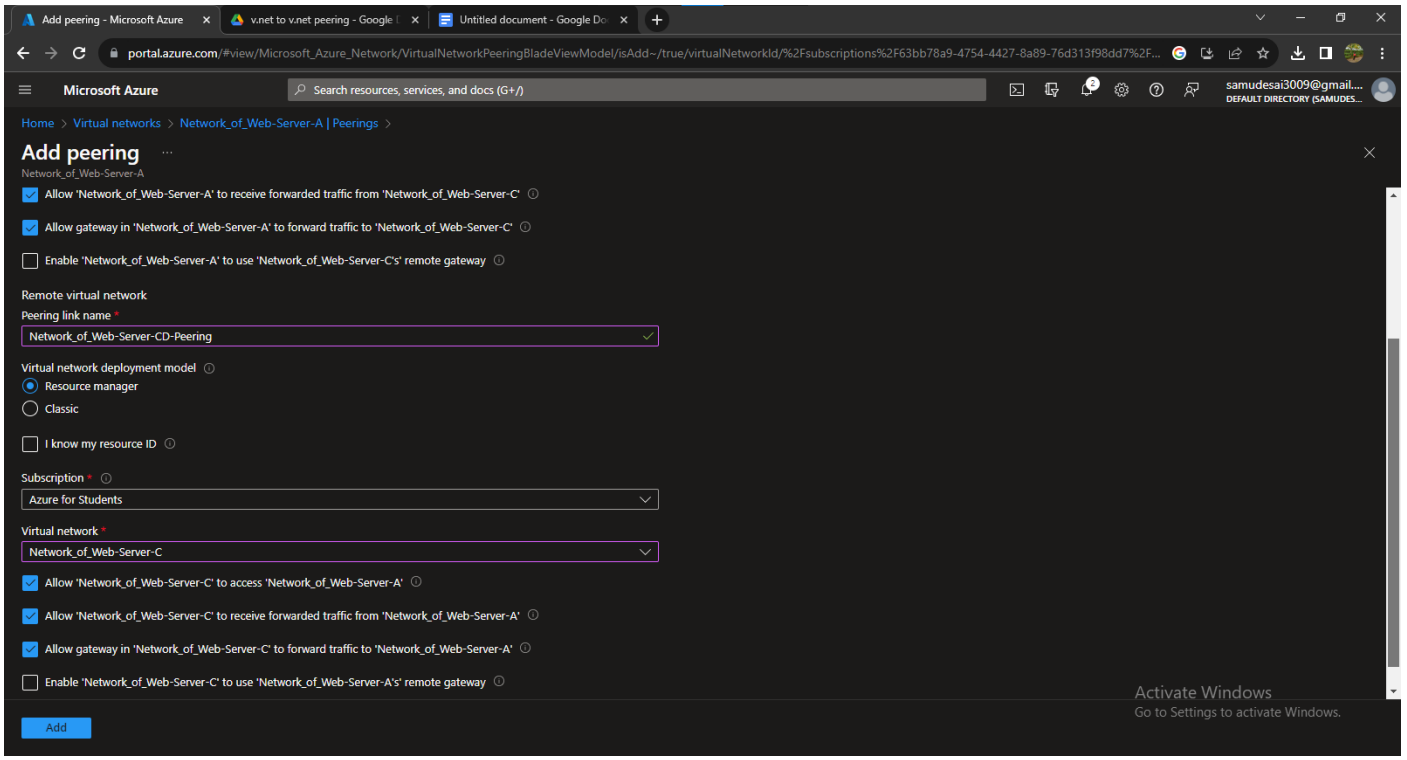

Web-Server-D - Microsoft Azure
v.net to v.net peering - Google
Untitled document - Google Do
portal.azure.com/#@samudesai3009gmail.onmicrosoft.com/resource/subscriptions/63bb78a9-4754-4427-8a89-76d313f98dd7/resourcegroups/Resources_of_Project/providers/Microsoft.Co...
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021215322 | Overview >
Web-Server-D
Virtual machine
Search
Connect
Start
Restart
Stop
Capture
Delete
Refresh
Open in mobile
Feedback
CLI / PS
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Networking
Connect
Disks
Size
Microsoft Defender for Cloud
Advisor recommendations
Extensions + applications
Availability + scaling
Configuration
Identity
Properties
Locks
Operations
VM architecture x64
Agent status Ready
Agent version 2.9.1.1
Host group None
Host -
Proximity placement group -
Colocation status N/A
Capacity reservation group -
Disk controller type SCSI
Availability + scaling
Availability zone (edit) 2
Availability set -
Scale Set -
Security type
Security type Trusted launch
Enable secure boot Enabled
Enable vTPM Enabled
Integrity monitoring Disabled
Extensions + applications
Extensions -
Applications -
Size
Size Standard D2s v3
vCPUs 2
RAM 8 GiB
Disk
OS disk Web-Server-D_disk1_3bc53987930d4f1b9cc4f6775db5b4e5
Encryption at host Disabled
Azure disk encryption Not enabled
Ephemeral OS disk N/A
Data disks 0
Auto-shutdown
Auto-shutdown Not enabled
Scheduled shutdown -
Azure Spot
Azure Spot -
Azure Spot eviction policy -
Activate Windows
Go to Settings to activate Windows.

In this Way We Have Created Four Virtual Machines

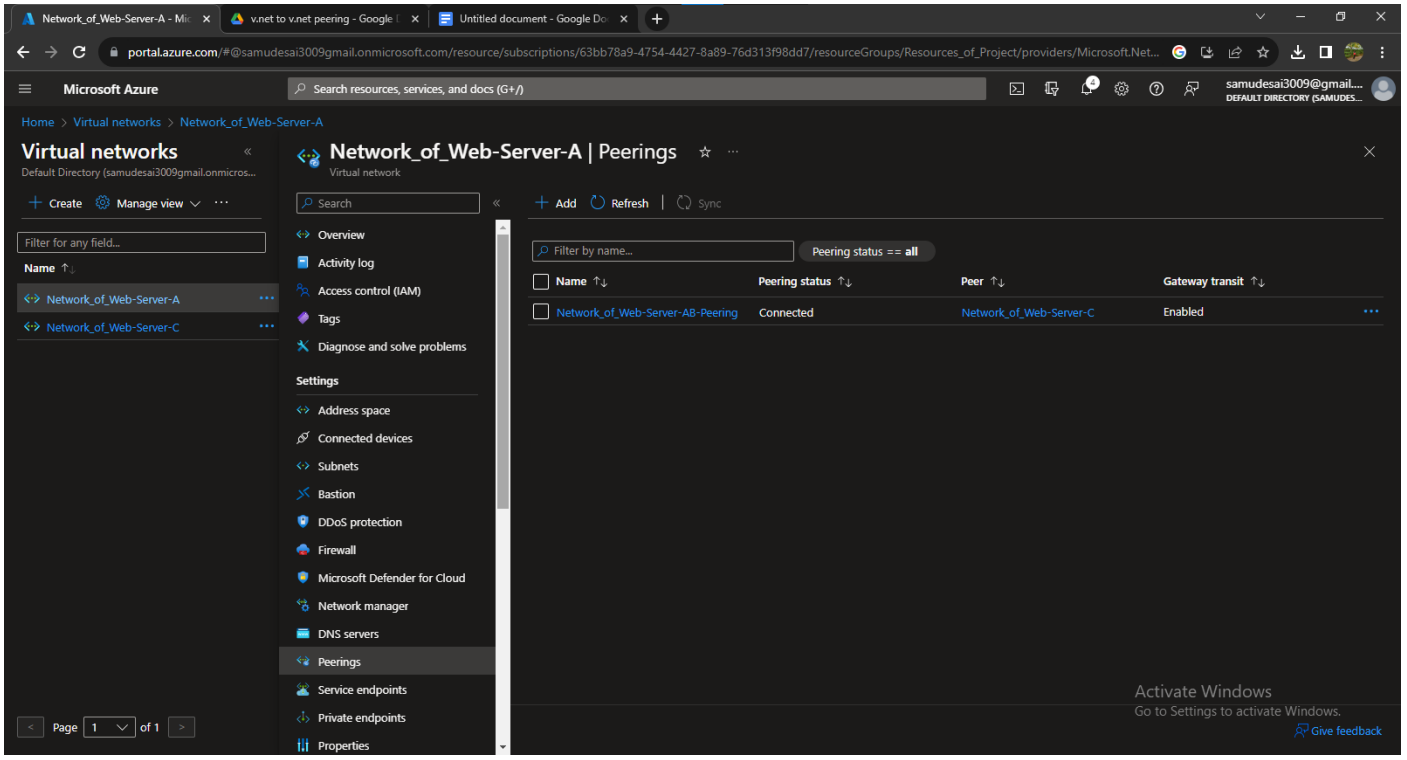


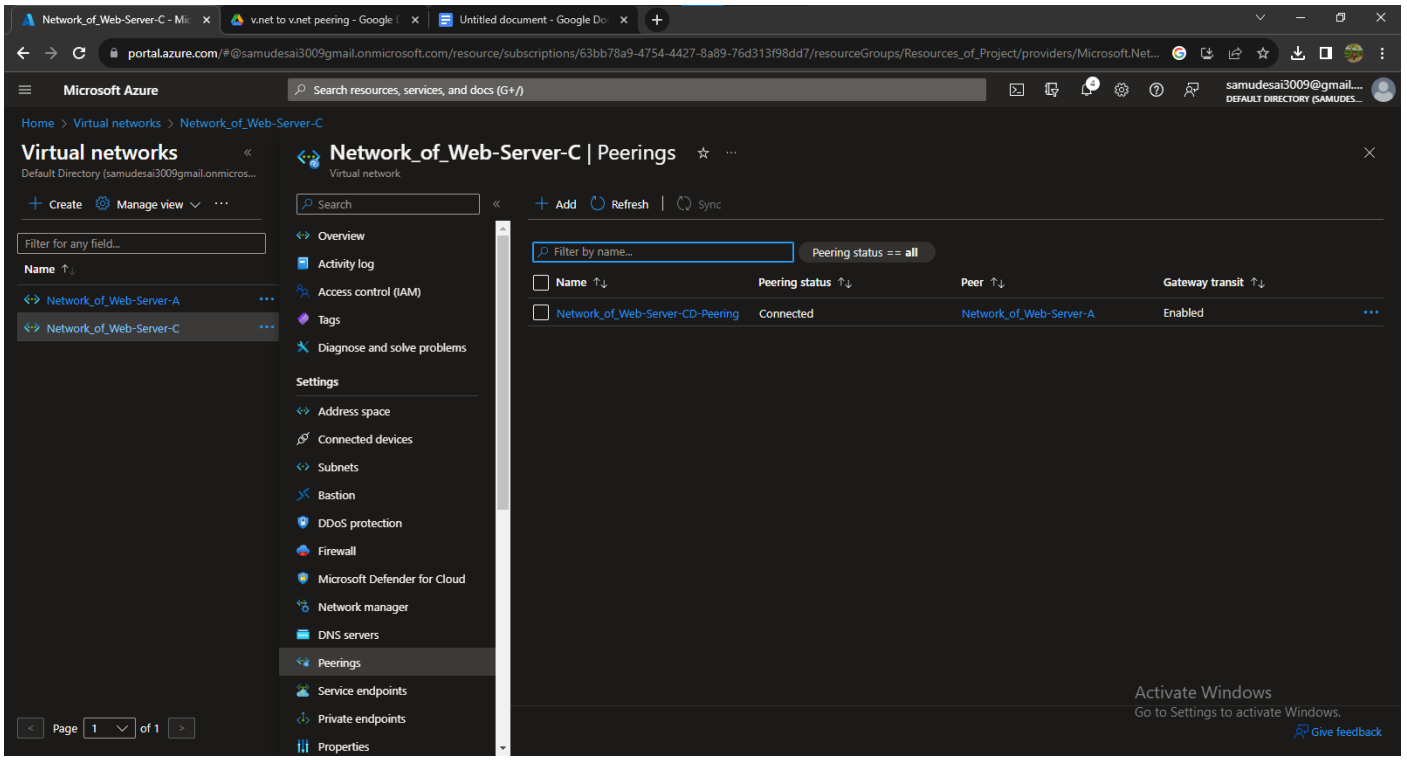
Step 5 : Now We are Peering Network of ‘Web-Server-AB’ To ‘Web-Server-CD’



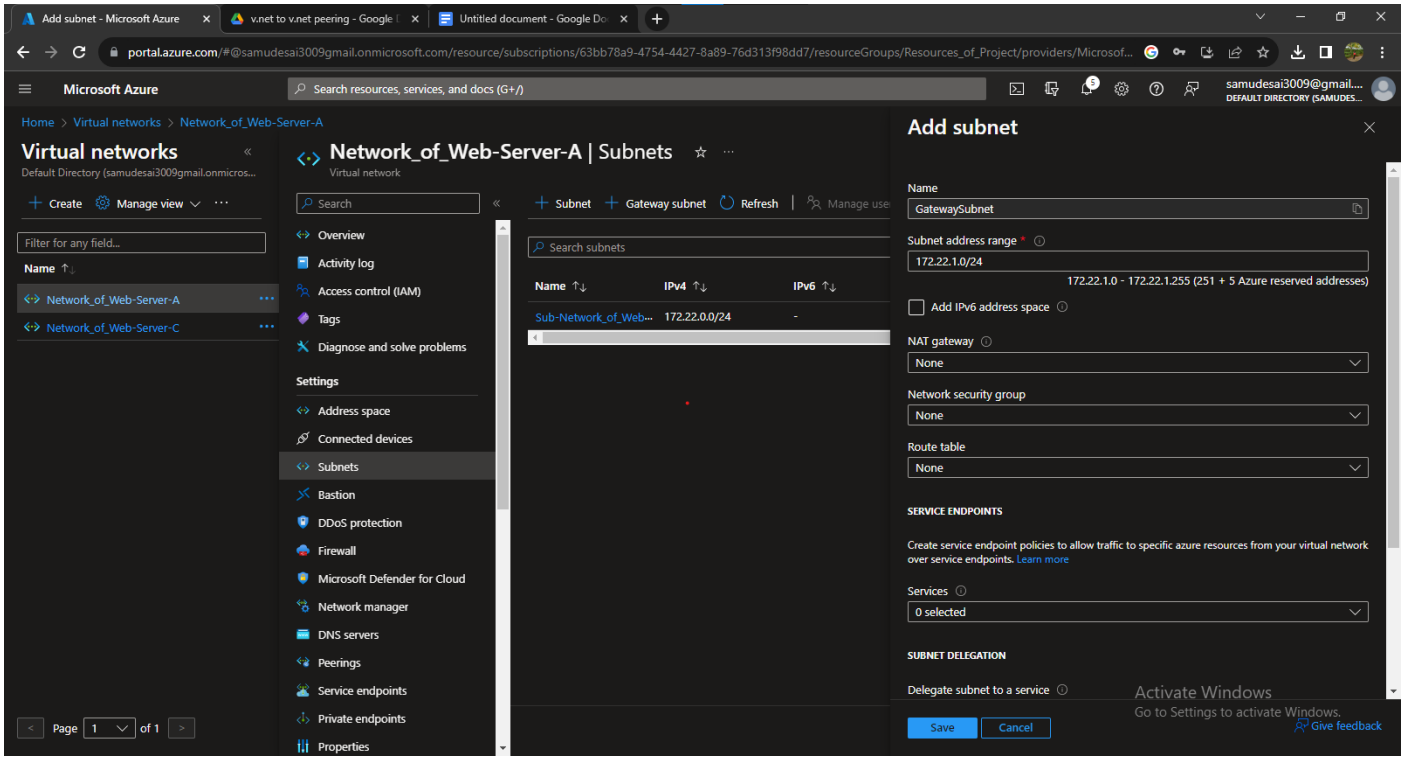


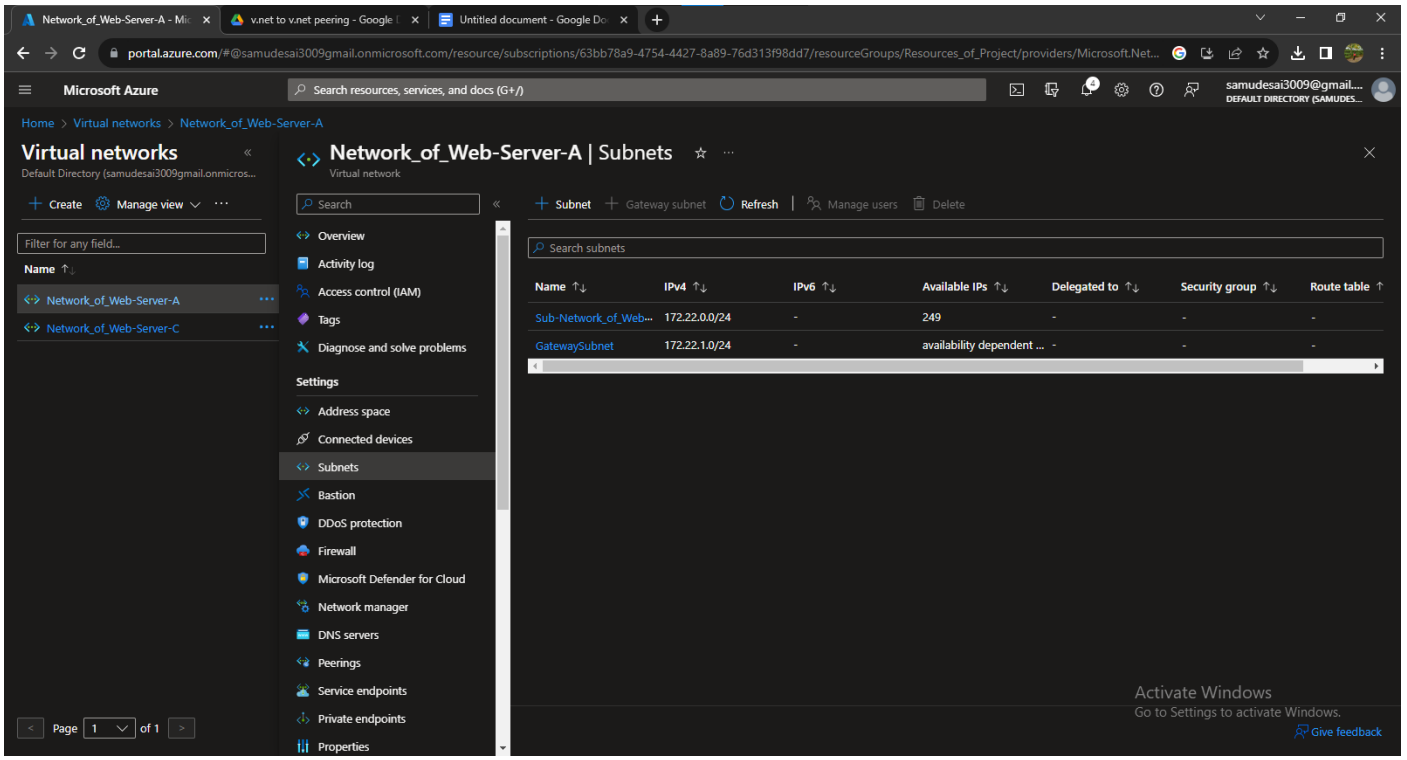
Here Network of Web-Server-AB is Connected To Network of Web-Server-CD By Peering



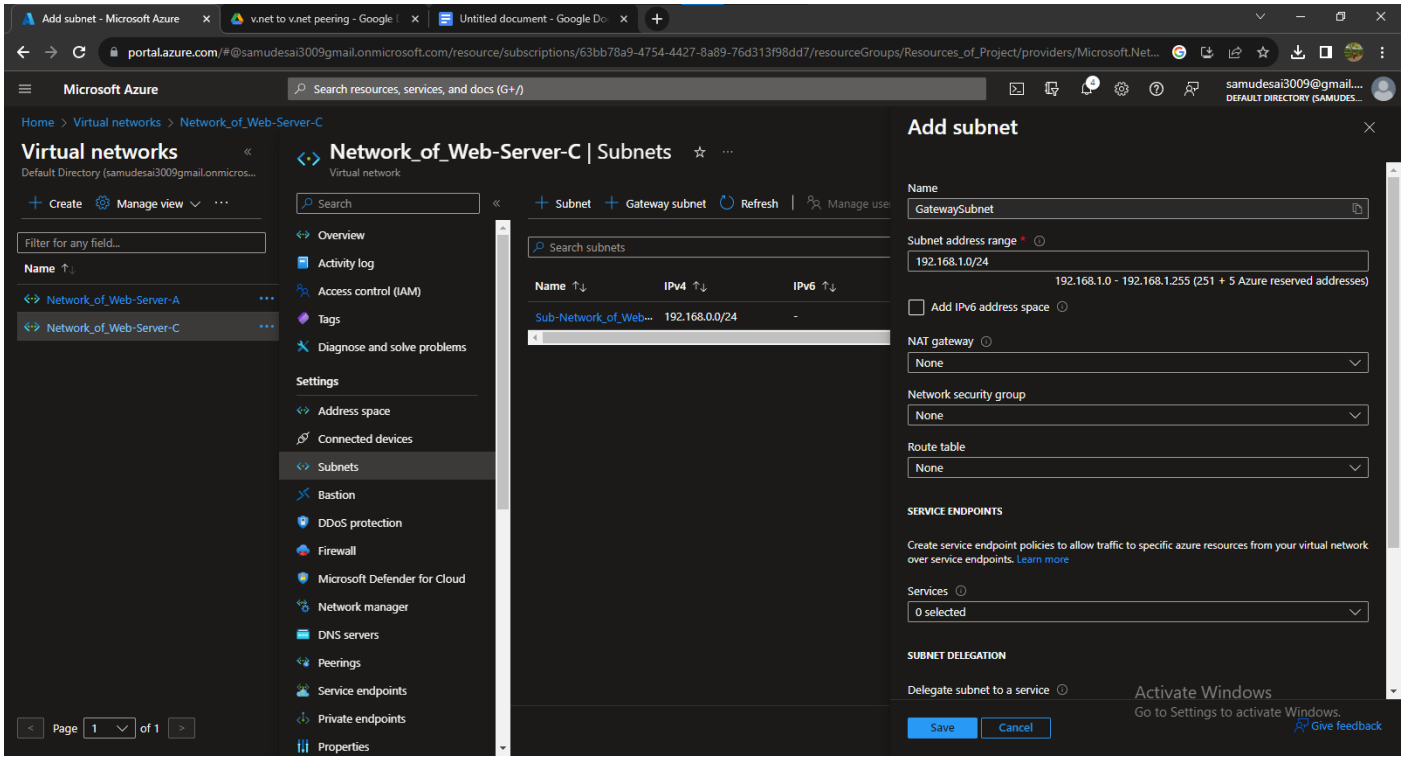


Step 6 : Now We are Adding Gateway Subnet to the Network of Web Server AB

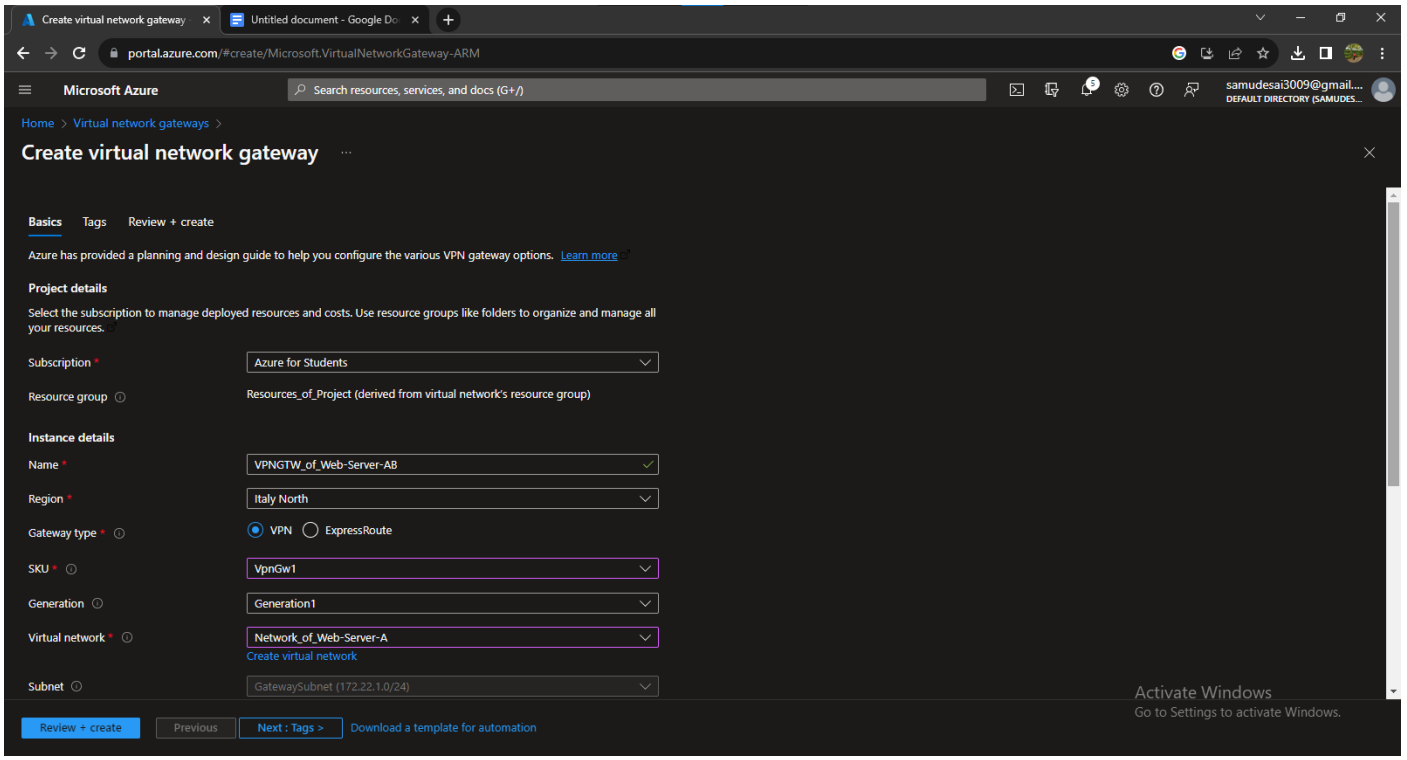


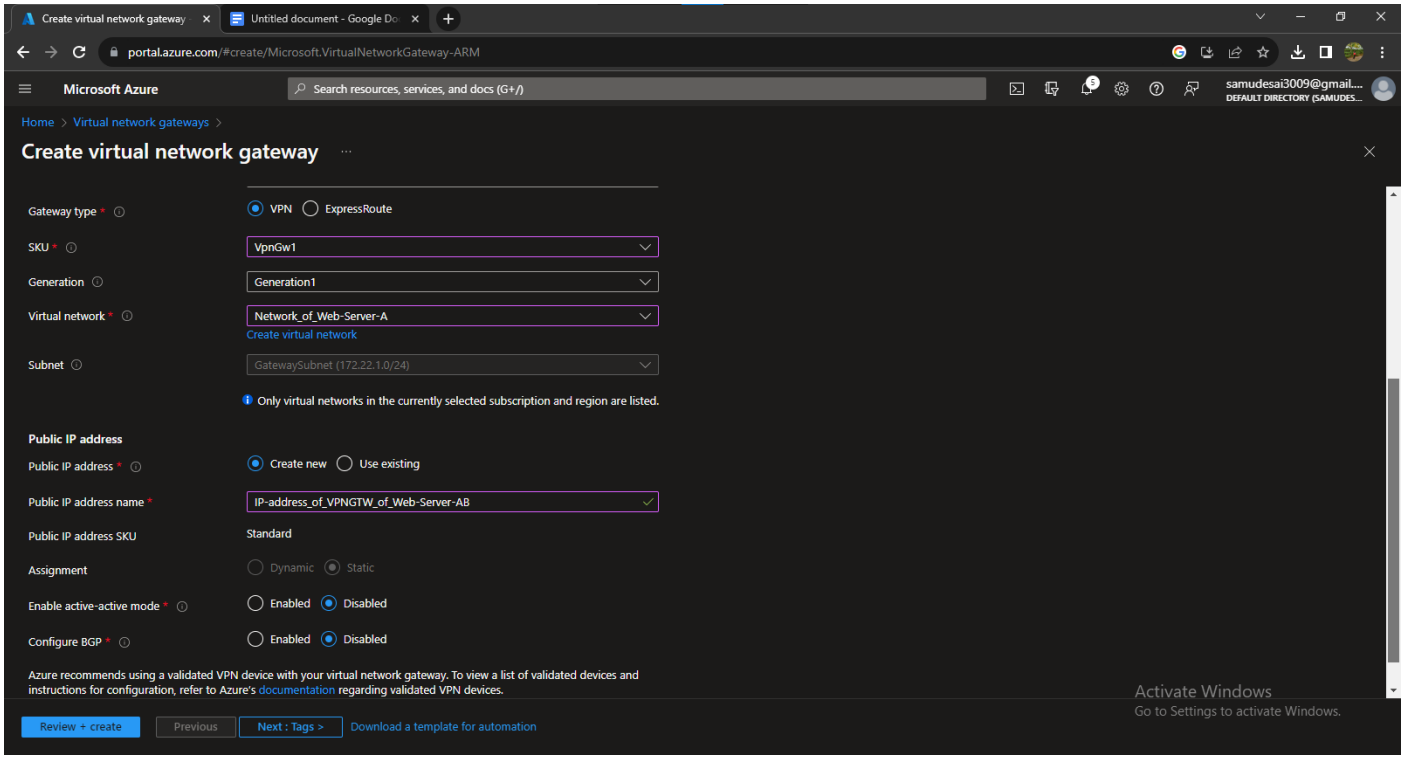


Adding Gateway Subnet to the Network of Web Server CD

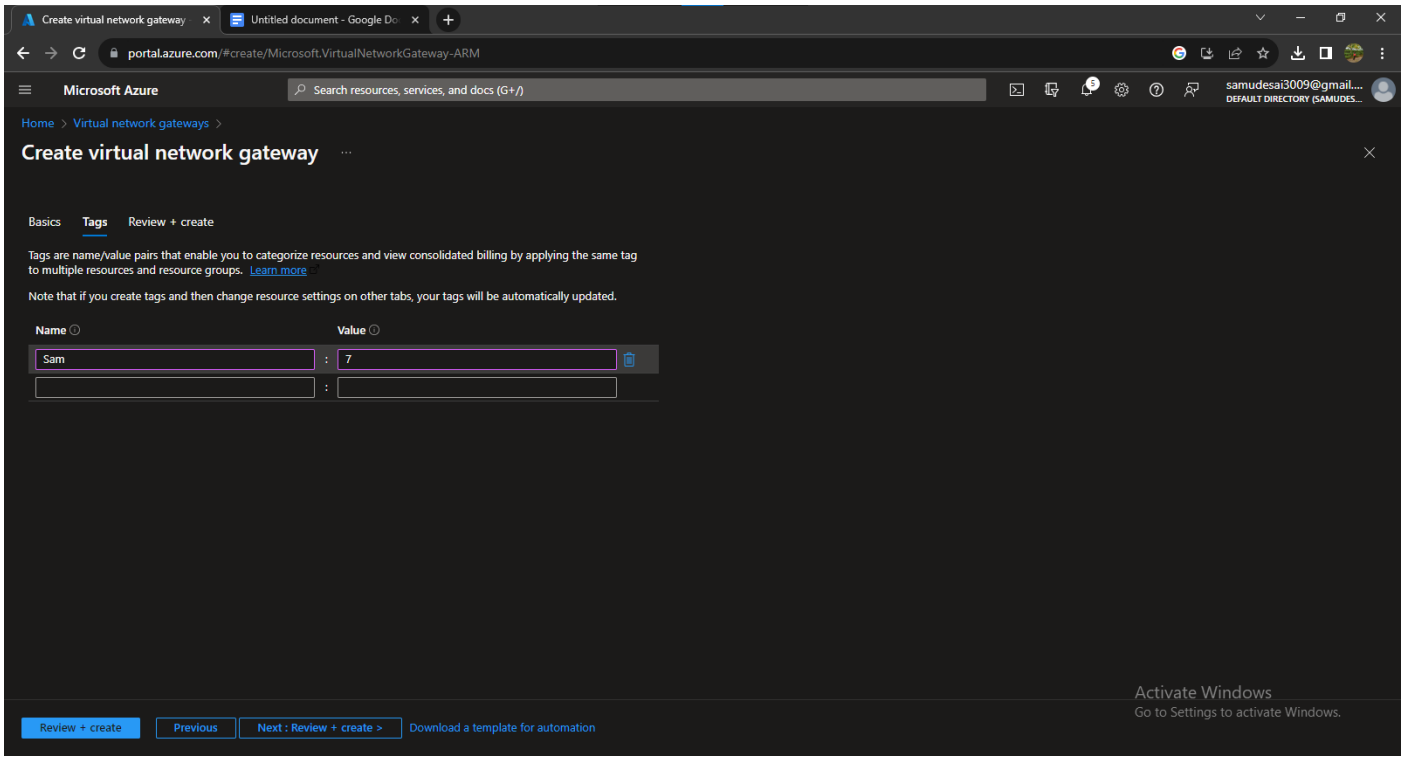


Step 7 : Creating Virtual Private Network Gateway to the Web Server AB in Italy North

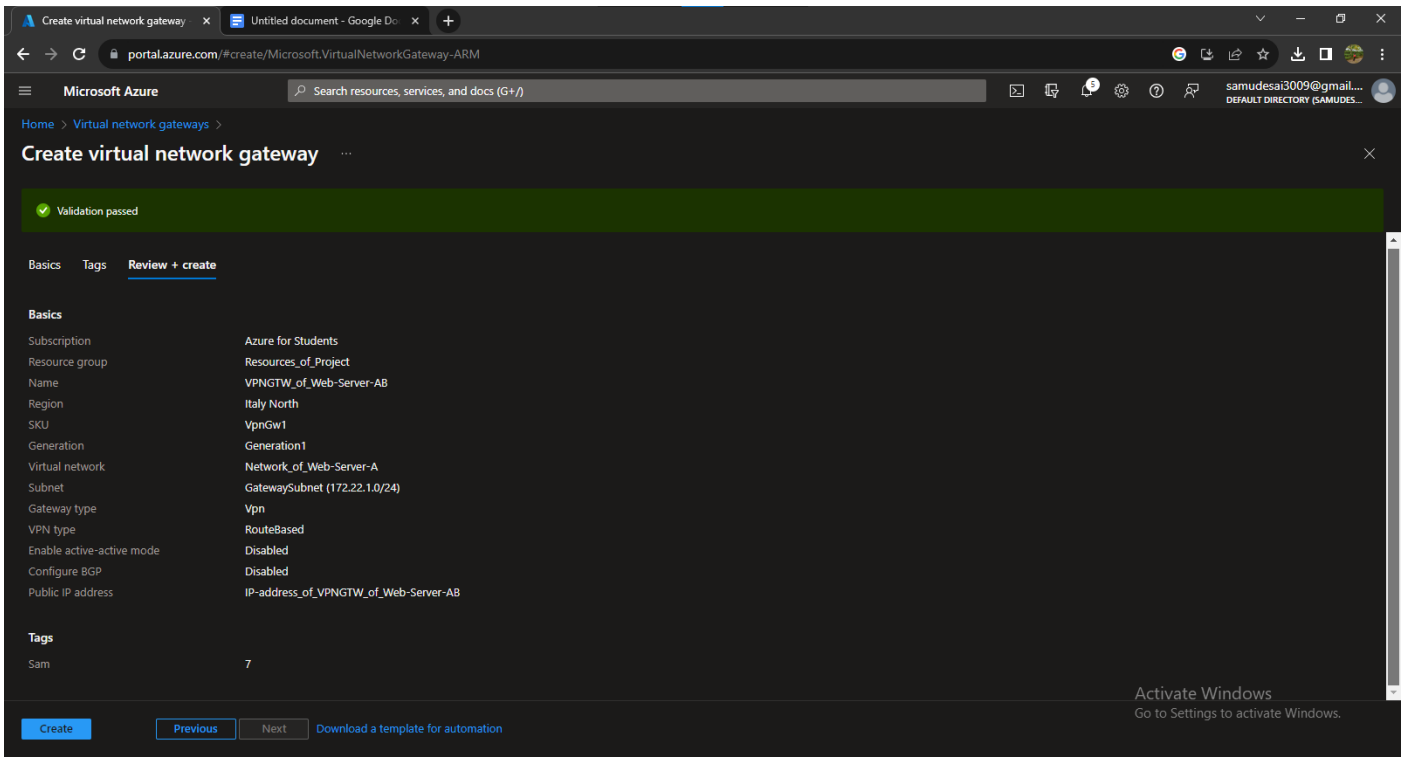




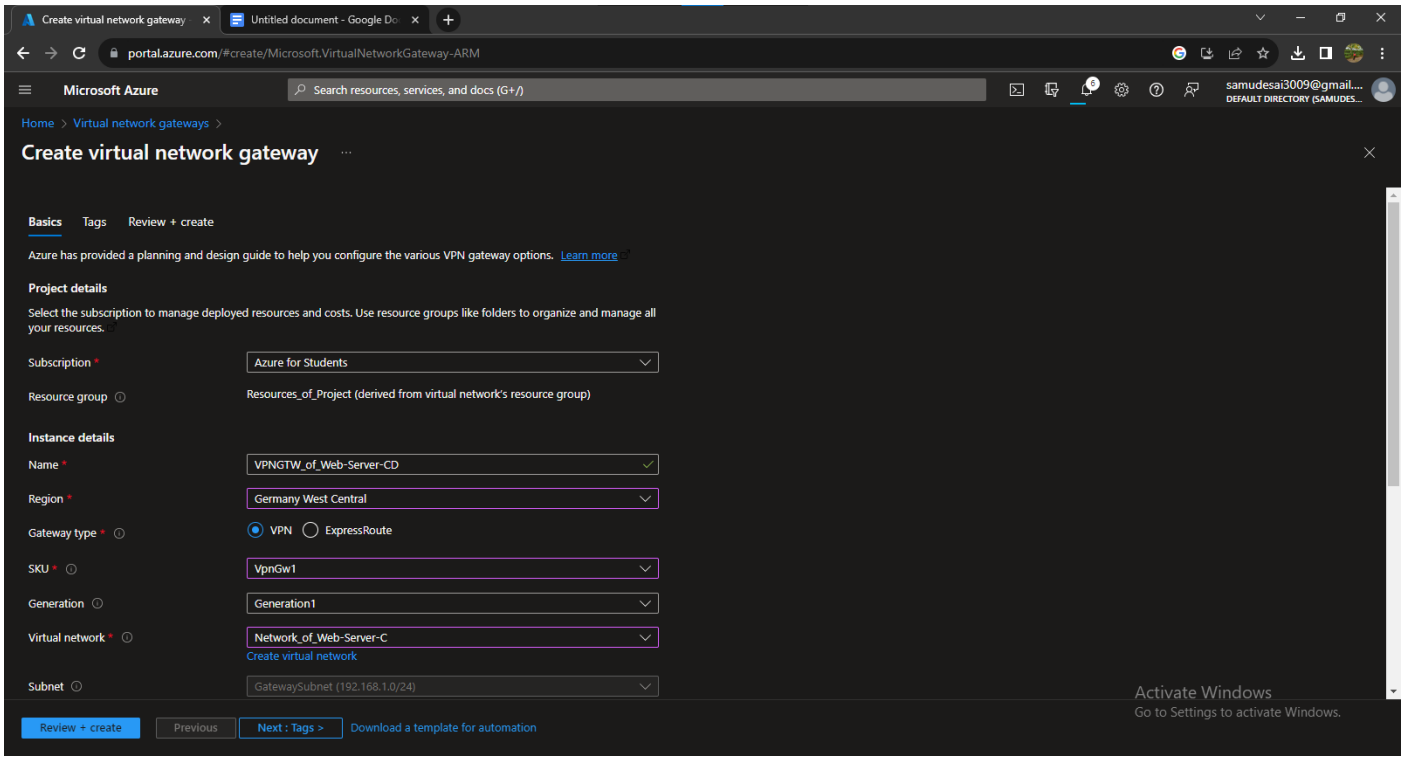
Adding Tags to our Virtual Network Gateways

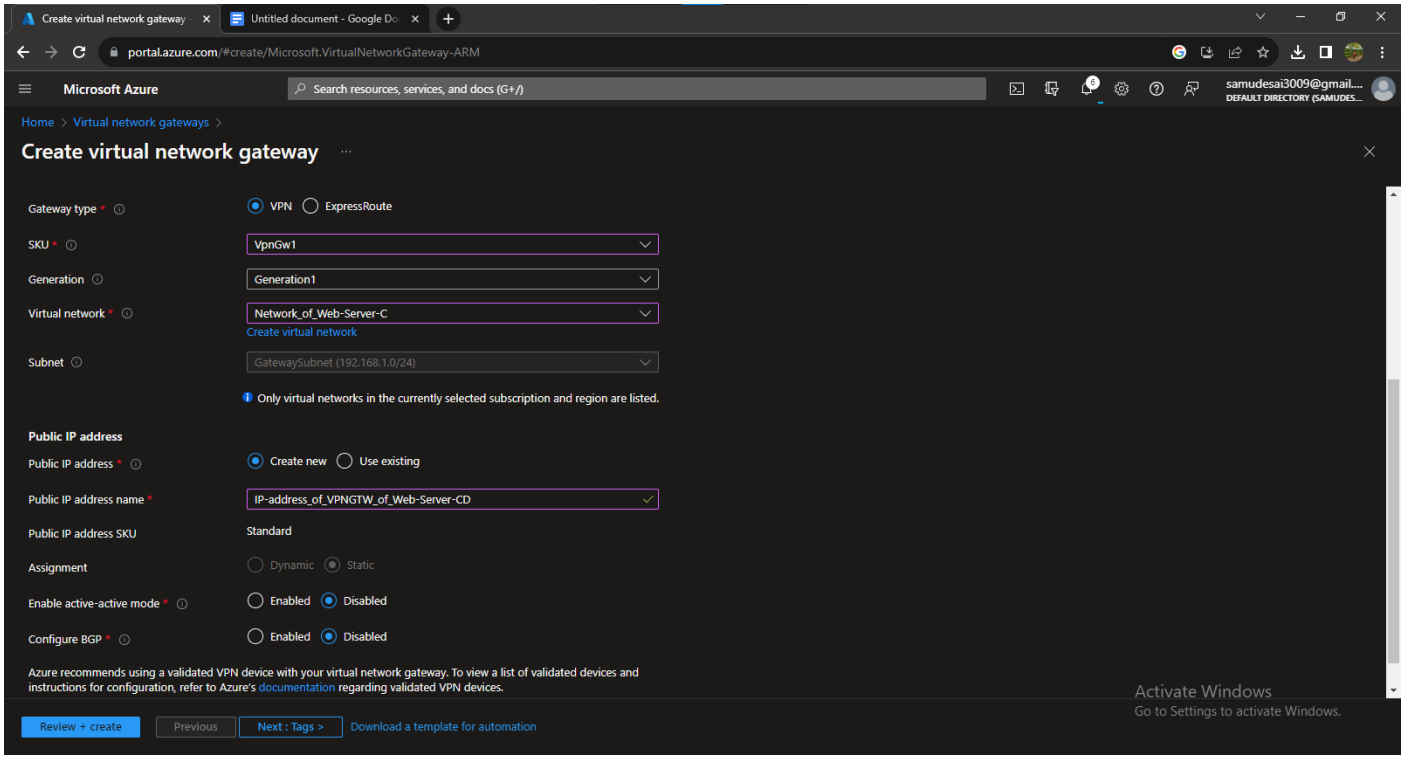


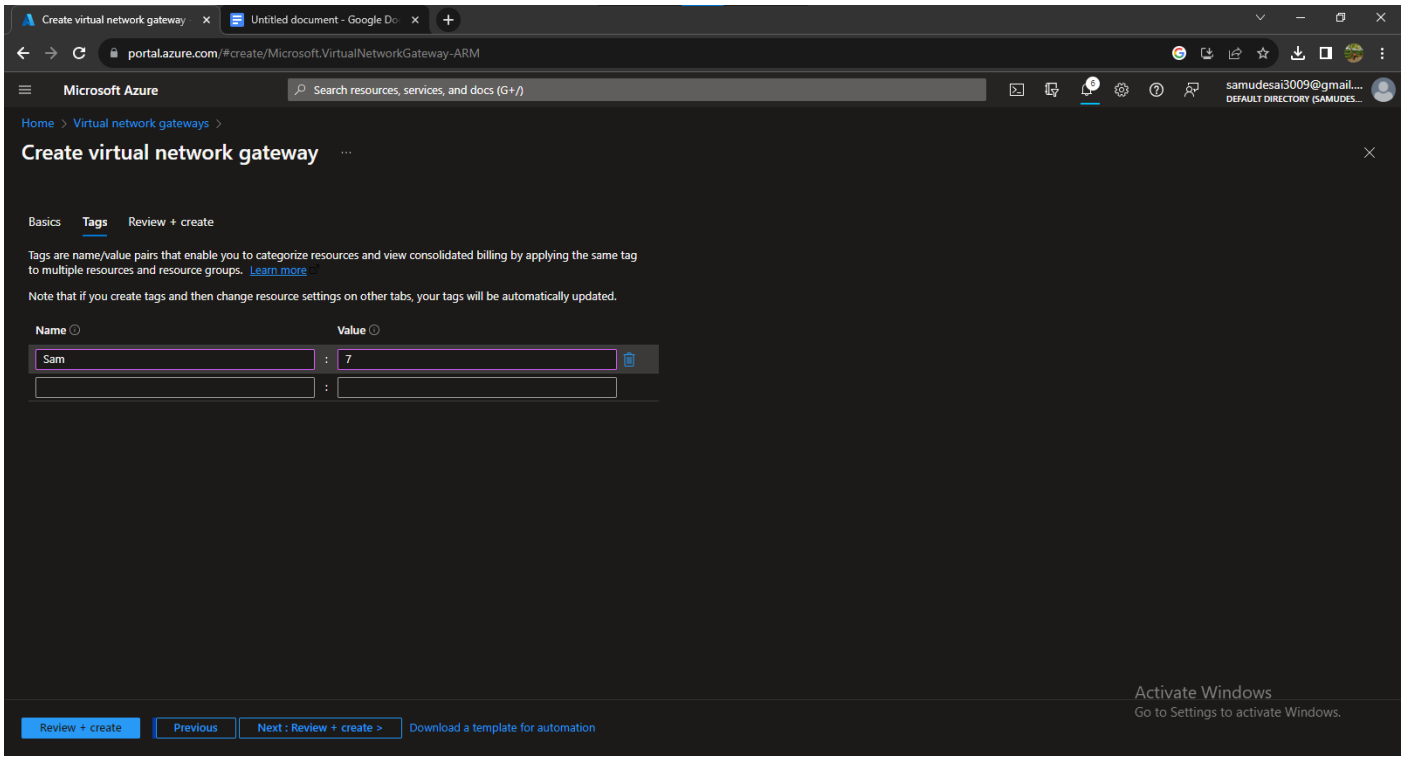
Validation Passed and Created

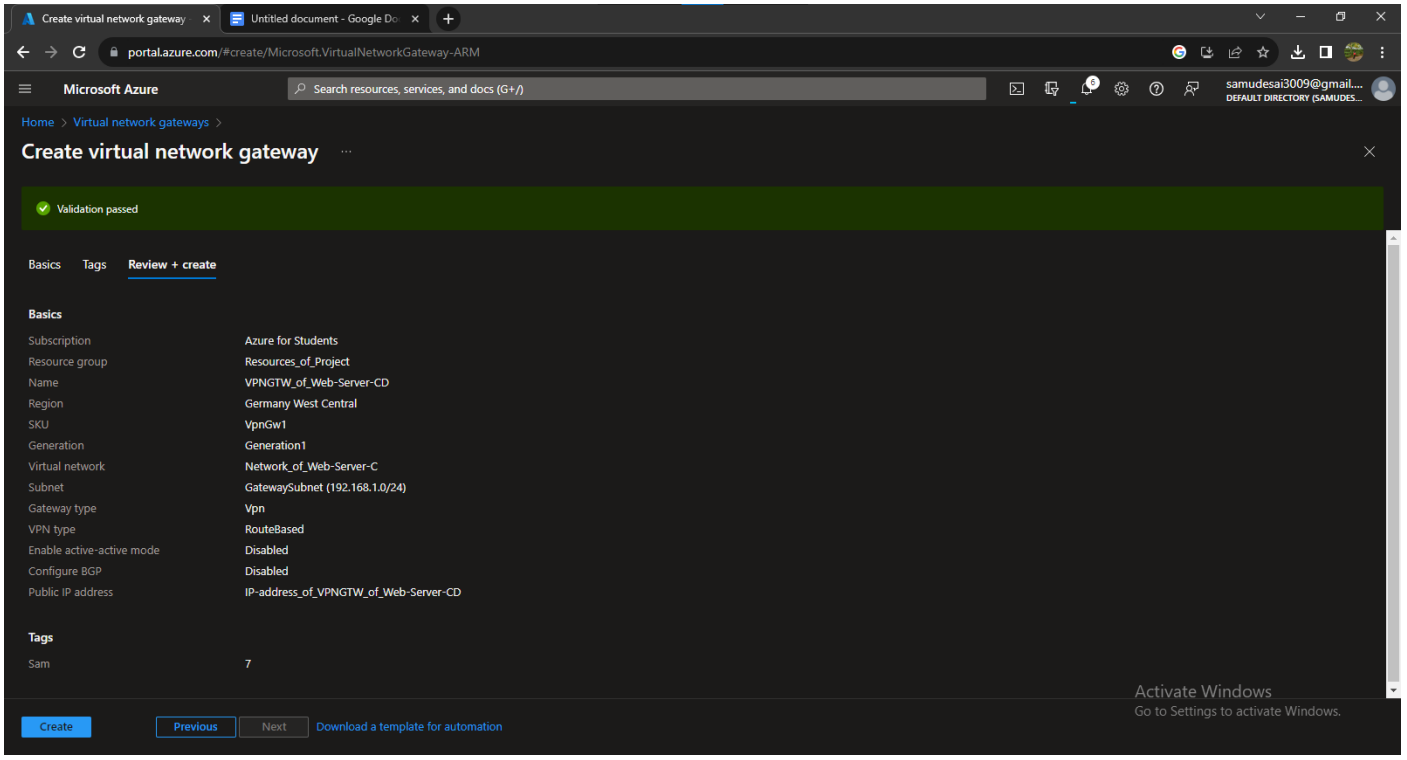


Creating Virtual Private Network Gateway to the Web Server CD in Germany West Central

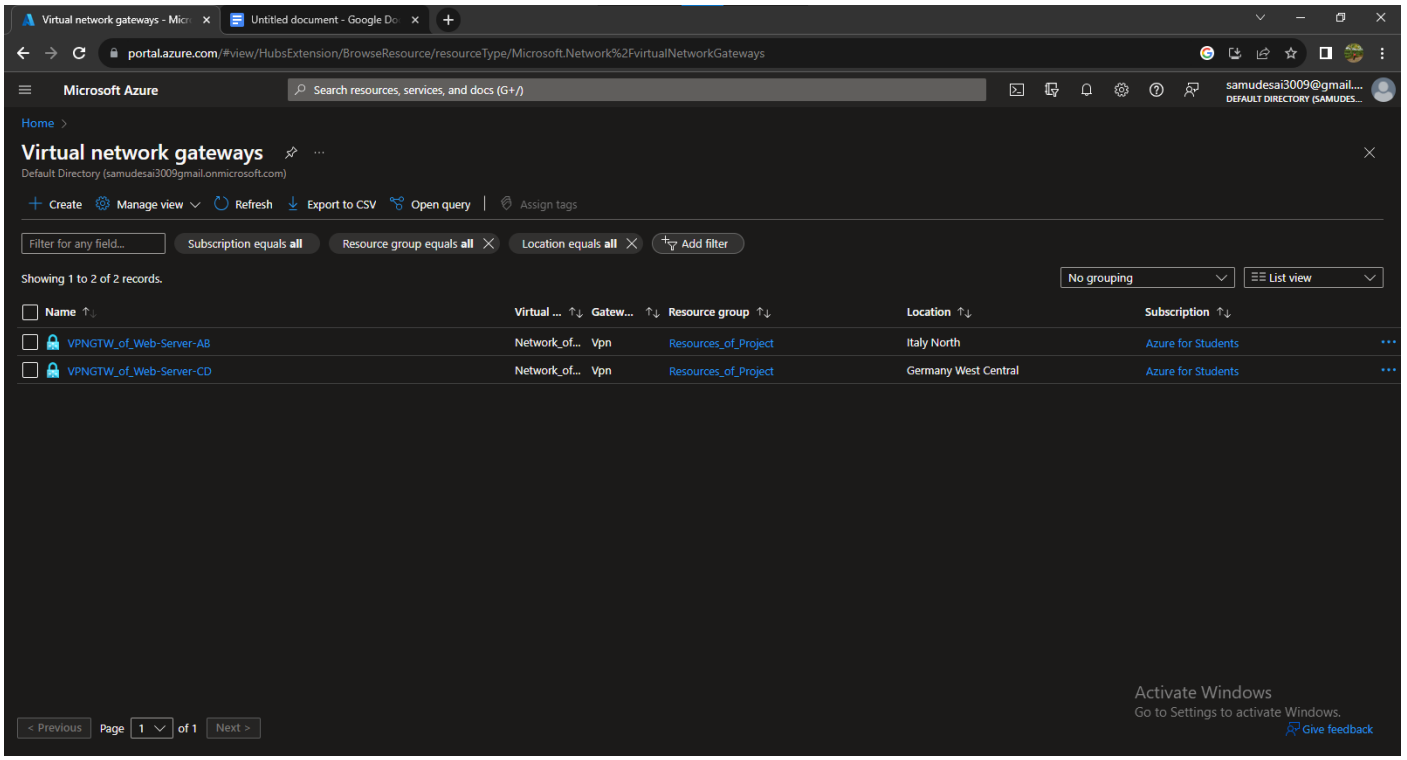




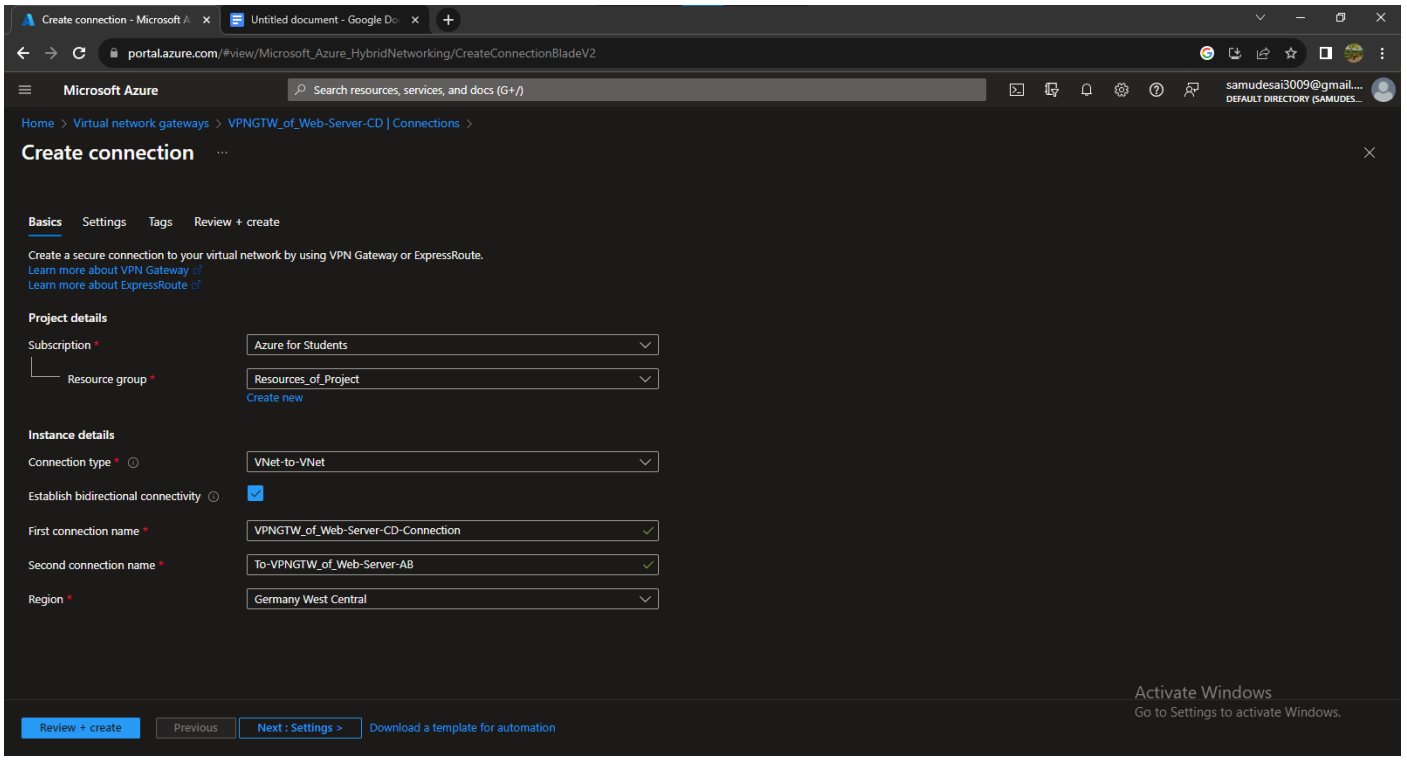

Create virtual network gateway
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualNetworkGateway-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual network gateways >
Create virtual network gateway
Basics Tags Review + create
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more
Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.
Name
Value
Sam : 7
Review + create
Previous
Next : Review + create >
Download a template for automation
Activate Windows
Go to Settings to activate Windows.

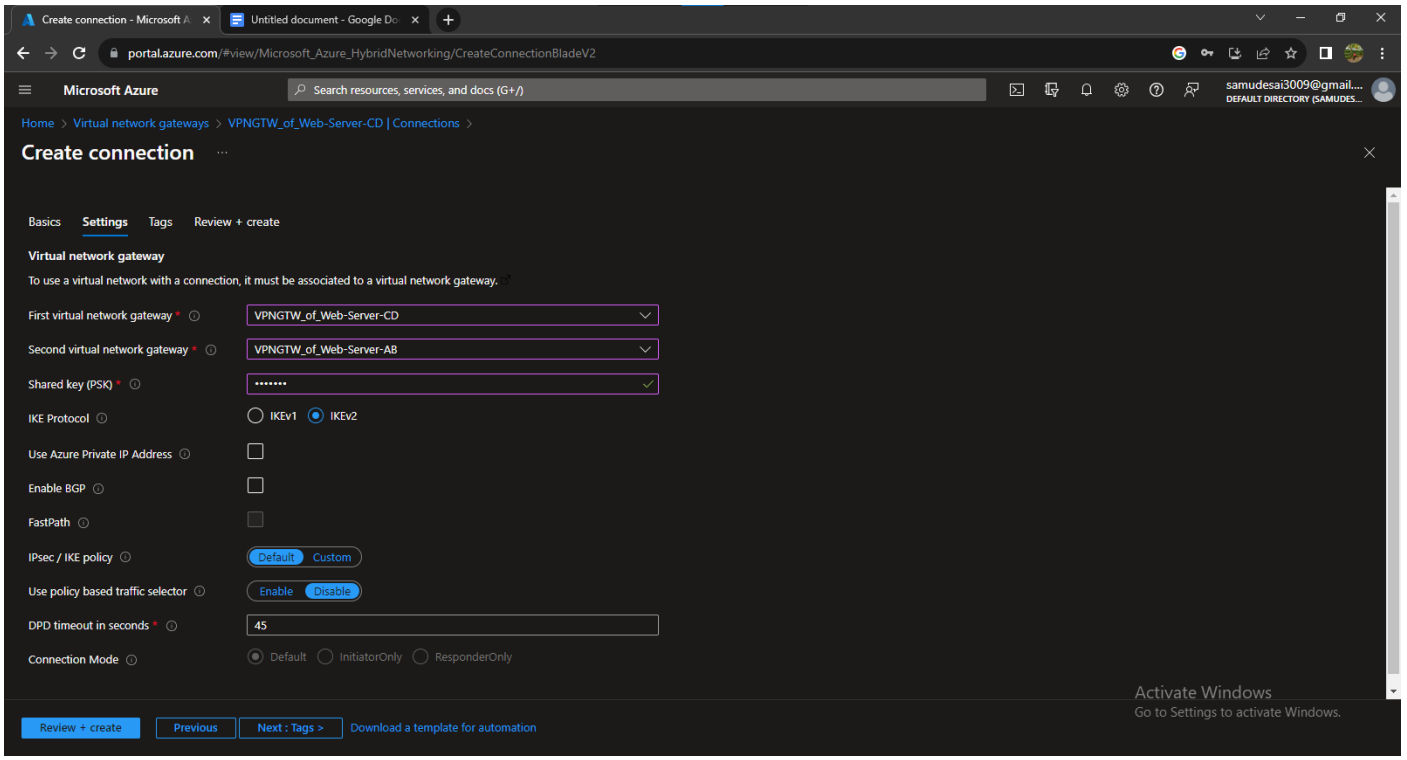

Create virtual network gateway
Untitled document - Google Do
portal.azure.com/#create/Microsoft.VirtualNetworkGateway-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
samudesai3009@gmail....
DEFAULT DIRECTORY (SAMUDES...
Home > Virtual network gateways >
Create virtual network gateway
Validation passed
Basics Tags Review + create
Basics
Subscription Azure for Students
Resource group Resources_of_Project
Name VPNGTW_of_Web-Server-CD
Region Germany West Central
SKU VpnGw1
Generation Generation1
Virtual network Network_of_Web-Server-C
Subnet GatewaySubnet (192.168.1.0/24)
Gateway type Vpn
VPN type RouteBased
Enable active-active mode Disabled
Configure BGP Disabled
Public IP address IP-address_of_VPNGTW_of_Web-Server-CD
Tags
Sam 7
Create
Previous
Next
Download a template for automation
Activate Windows
Go to Settings to activate Windows.

Here We Have Created Virtual Private Network Gateways for Both Networks

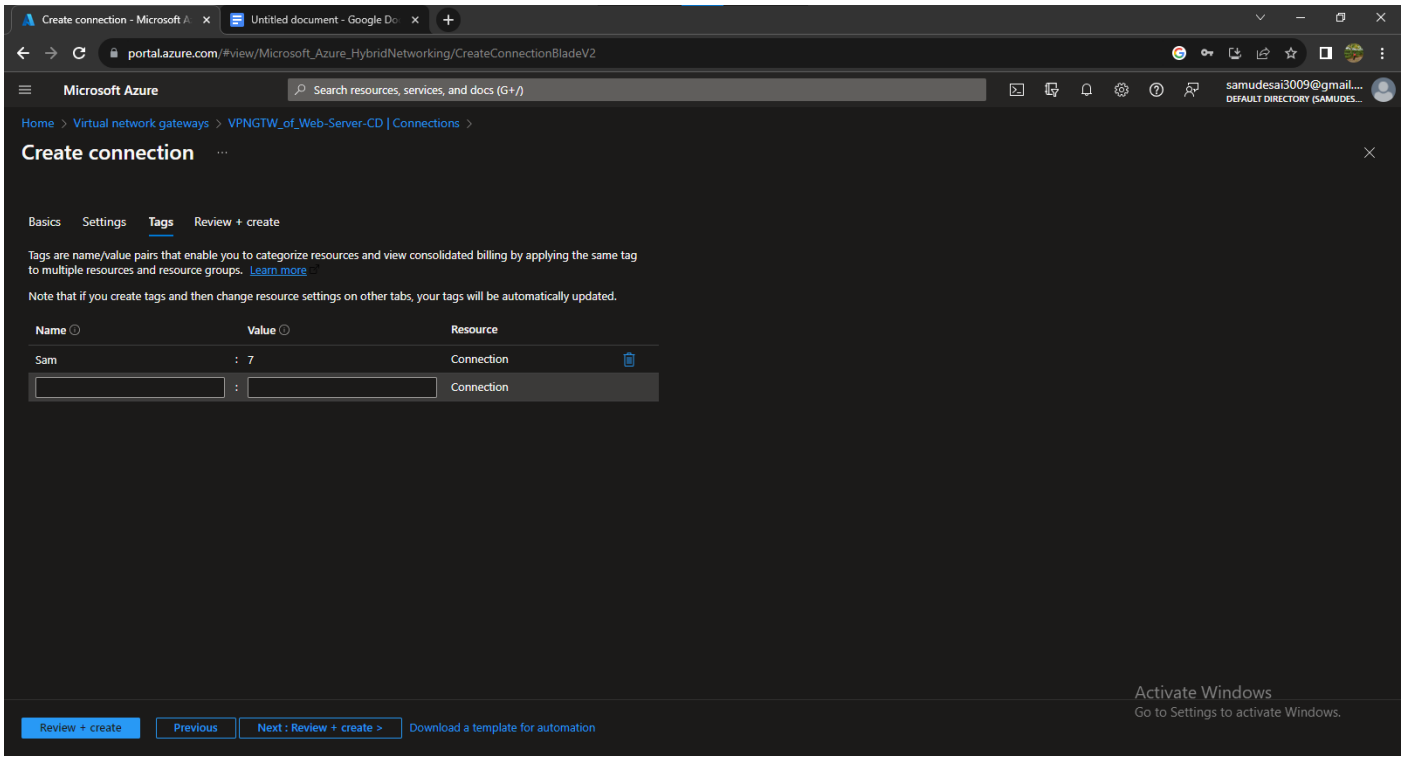


Step 8 : Then We are Connecting Virtual Private Network Gateway of Web Server CD and Virtual Private Network Gateway of Web Server AB Bidirectionally

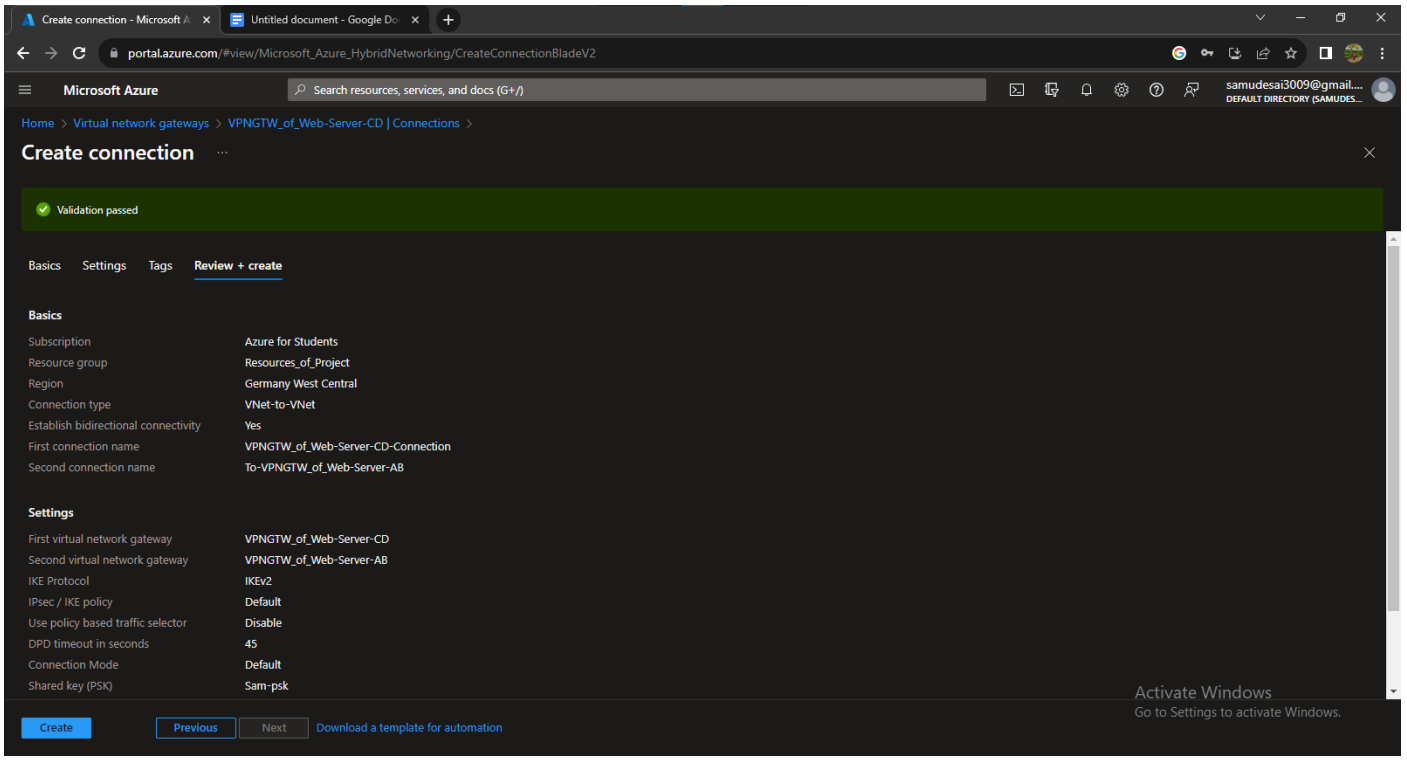


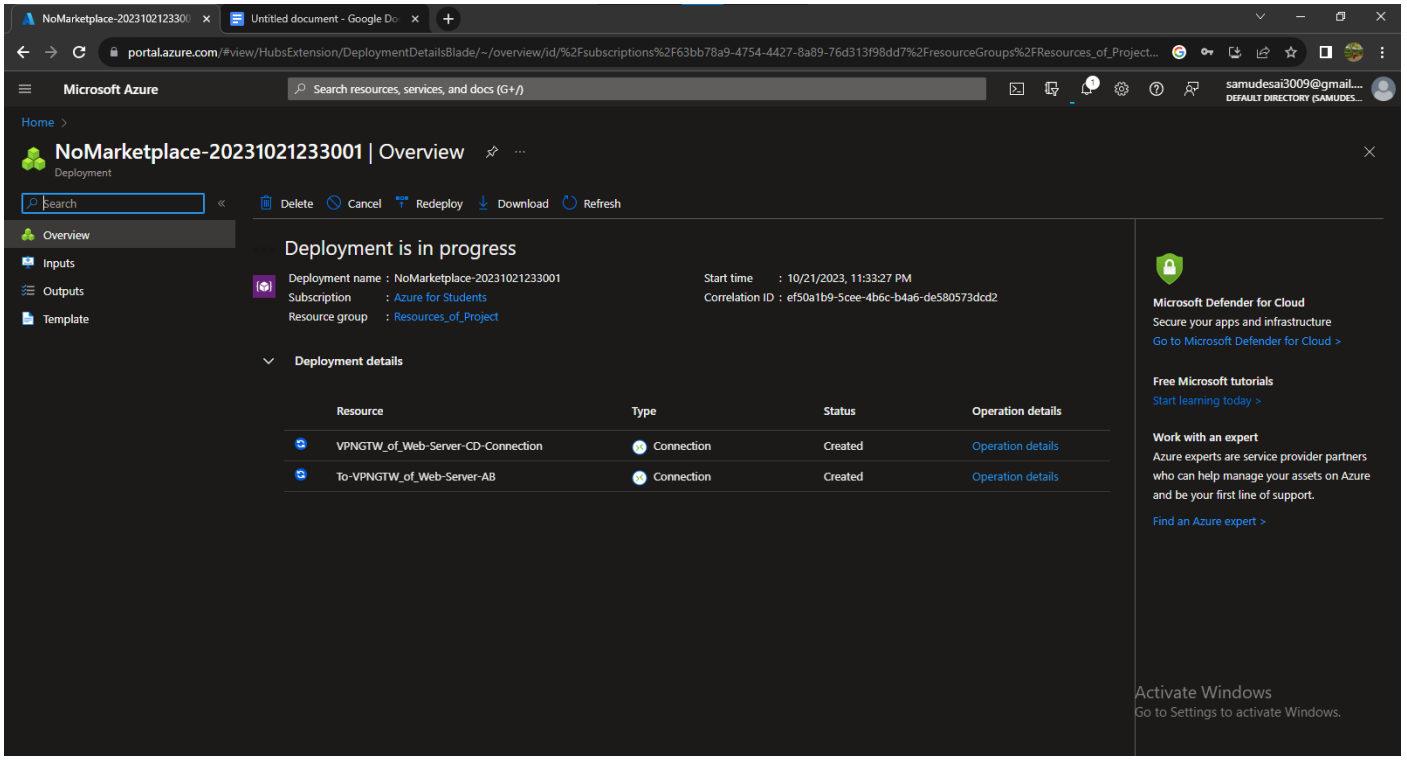


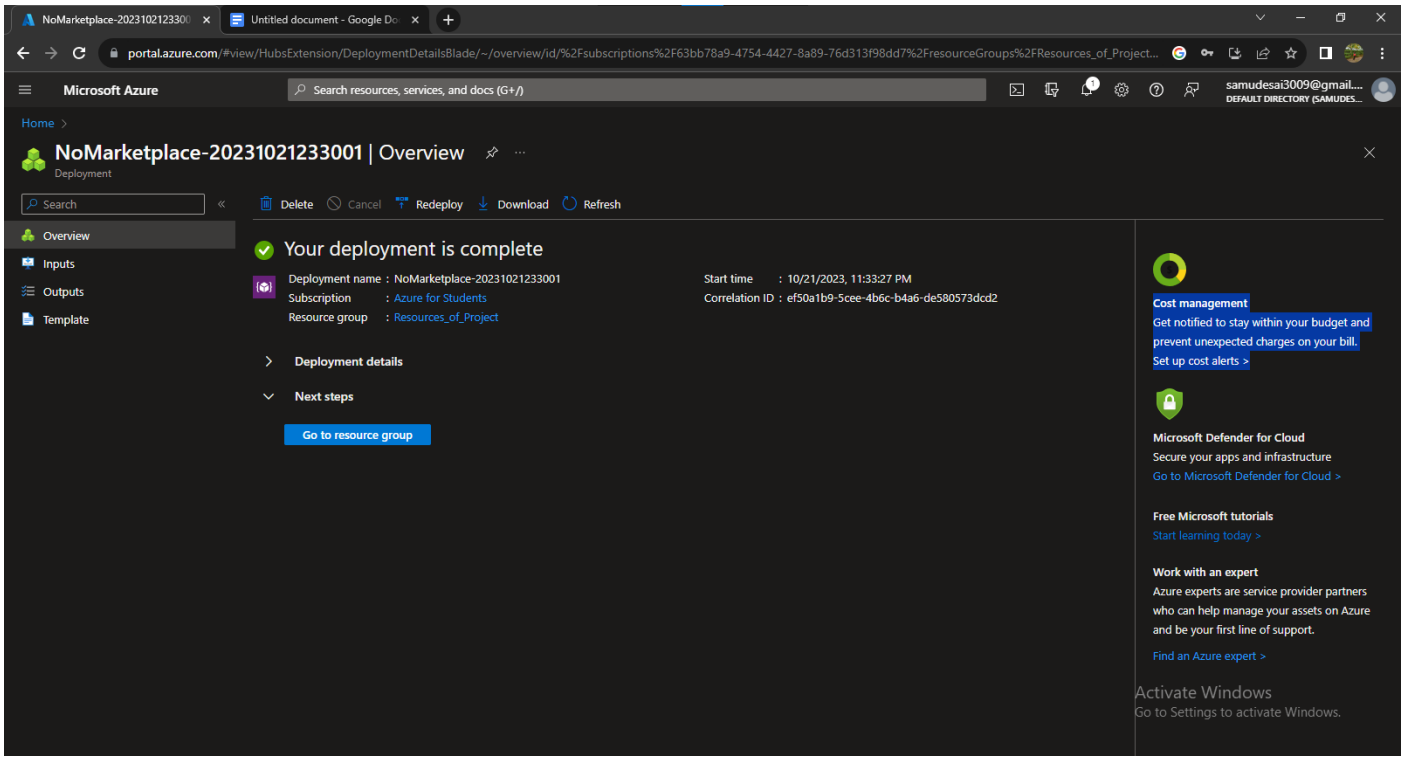
Adding Tags to the Connection

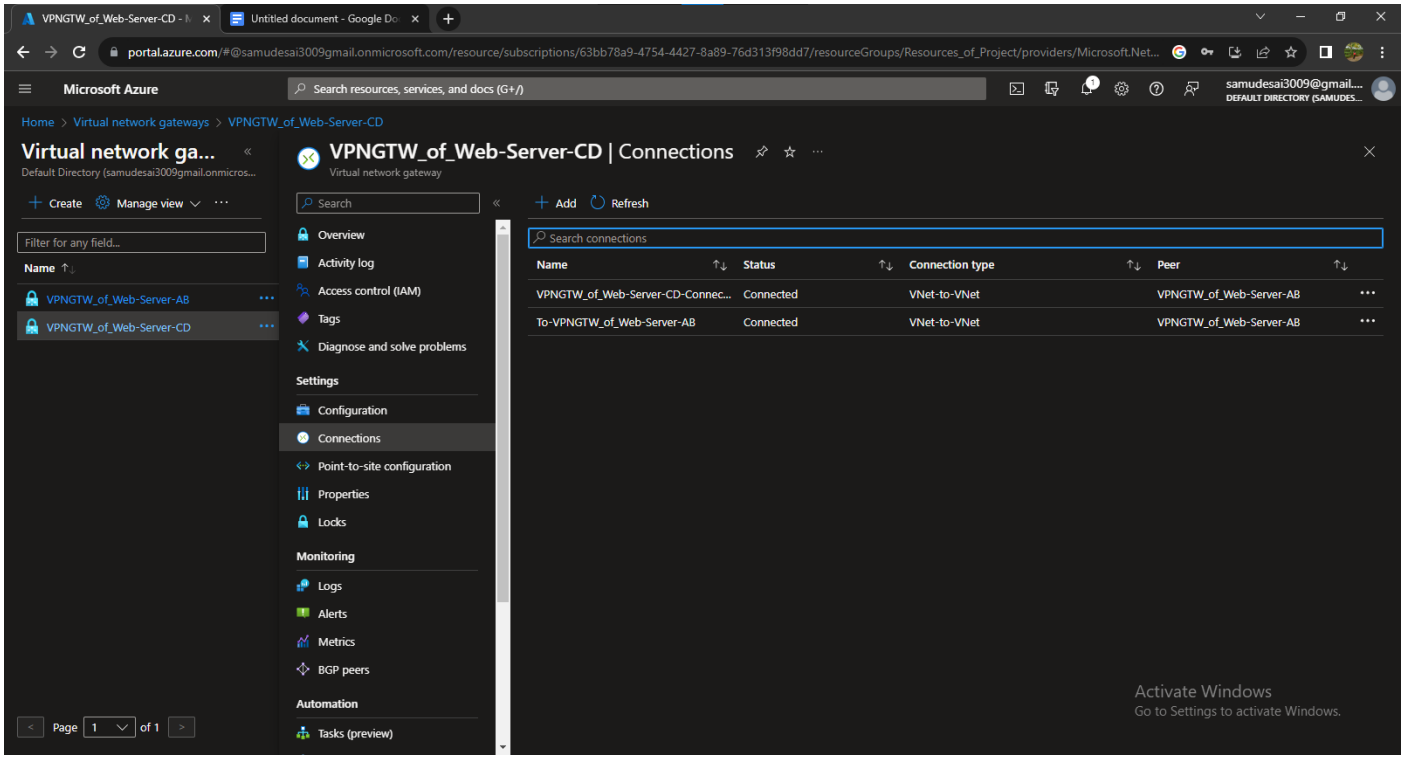


Here Validation is Passed for the Connection

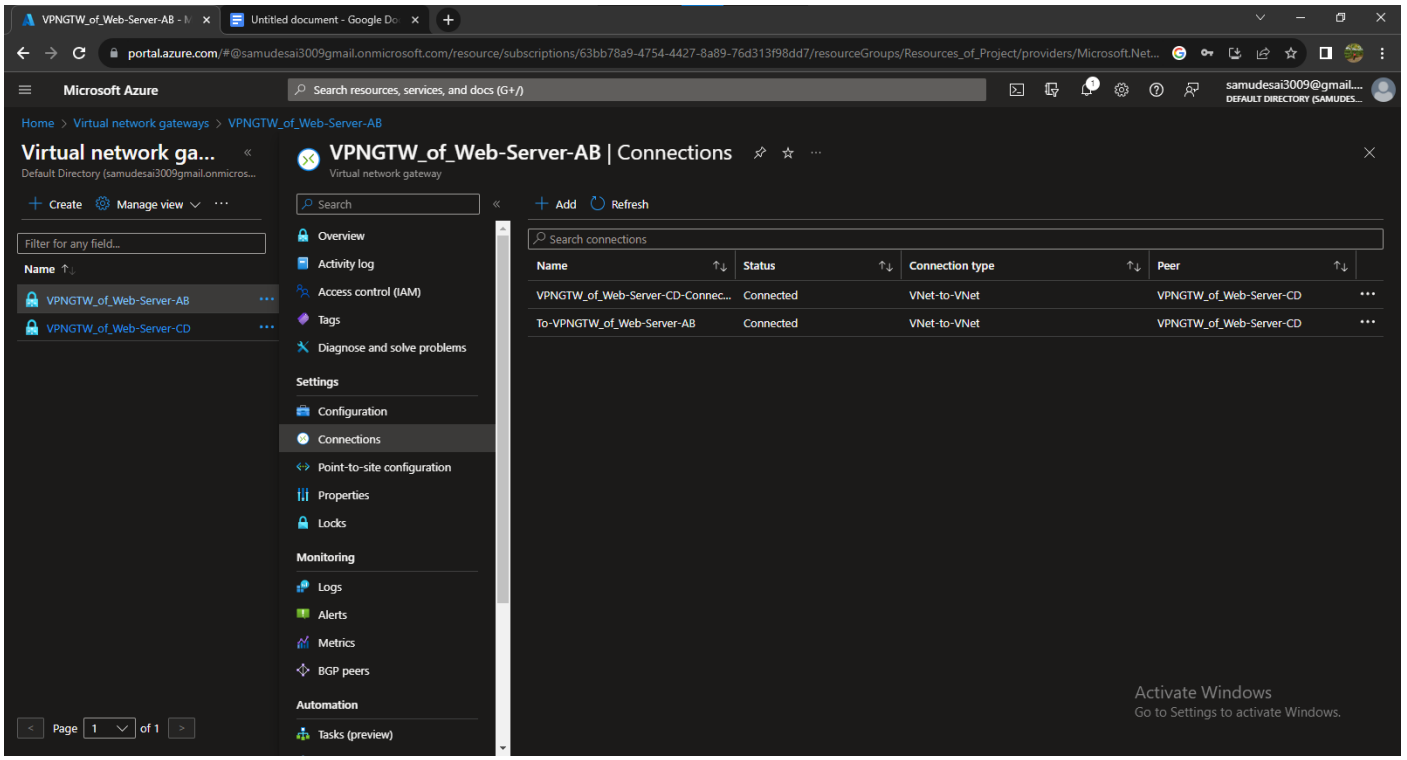




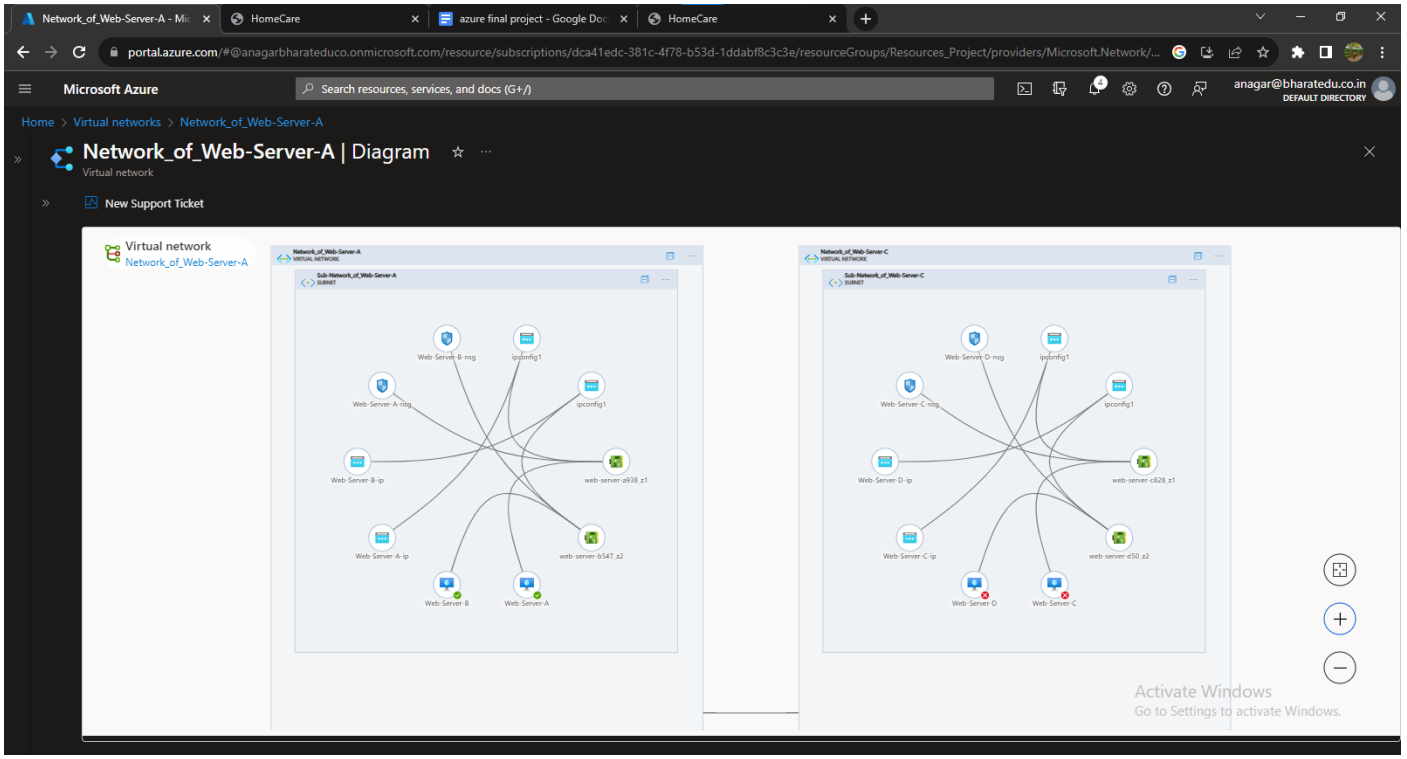

NoMarketplace-20231021233001 | Overview
Deployment
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name : NoMarketplace-20231021233001
Subscription : Azure for Students
Resource group : Resources_of_Project
Start time : 10/21/2023, 11:33:27 PM
Correlation ID : ef50a1b9-5cee-4b6c-b4a6-de580573dcd2
Deployment details
Next steps
Go to resource group
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 >
Activate Windows
Go to Settings to activate Windows.

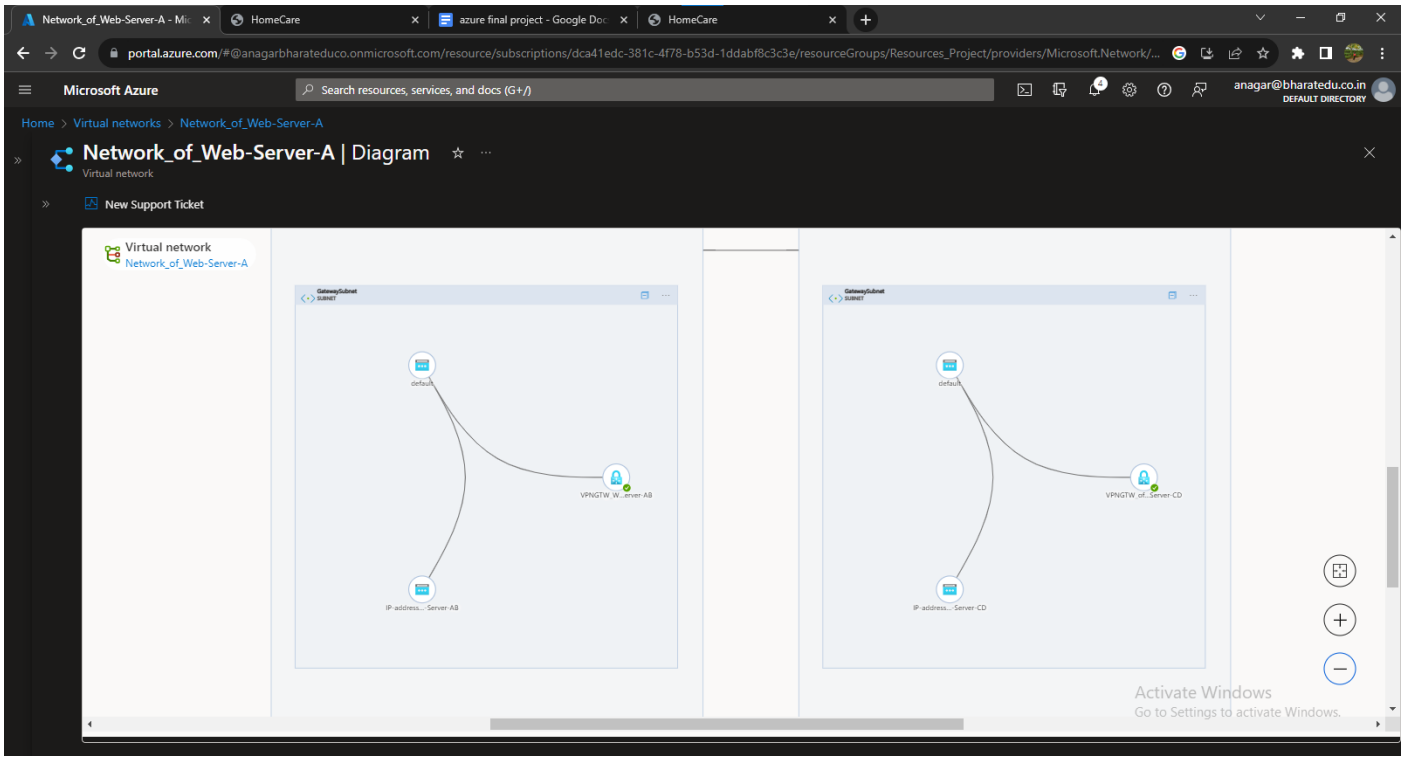

VPNGTW_of_Web-Server-CD | Connections
Virtual network gateway
Add
Refresh
Search connections
Name
Status
Connection type
Peer
VPNGTW_of_Web-Server-CD-Connec...
Connected
VNet-to-VNet
VPNGTW_of_Web-Server-AB
To-VPNGTW_of_Web-Server-AB
Connected
VNet-to-VNet
VPNGTW_of_Web-Server-AB
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Configuration
Connections
Point-to-site configuration
Properties
Locks
Monitoring
Logs
Alerts
Metrics
BGP peers
Automation
Tasks (preview)
Activate Windows
Go to Settings to activate Windows.

In this way We Have Connected Virtual Private Network Gateway of Web Server CD and Virtual Private Network Gateway of Web Server AB Bidirectionally.

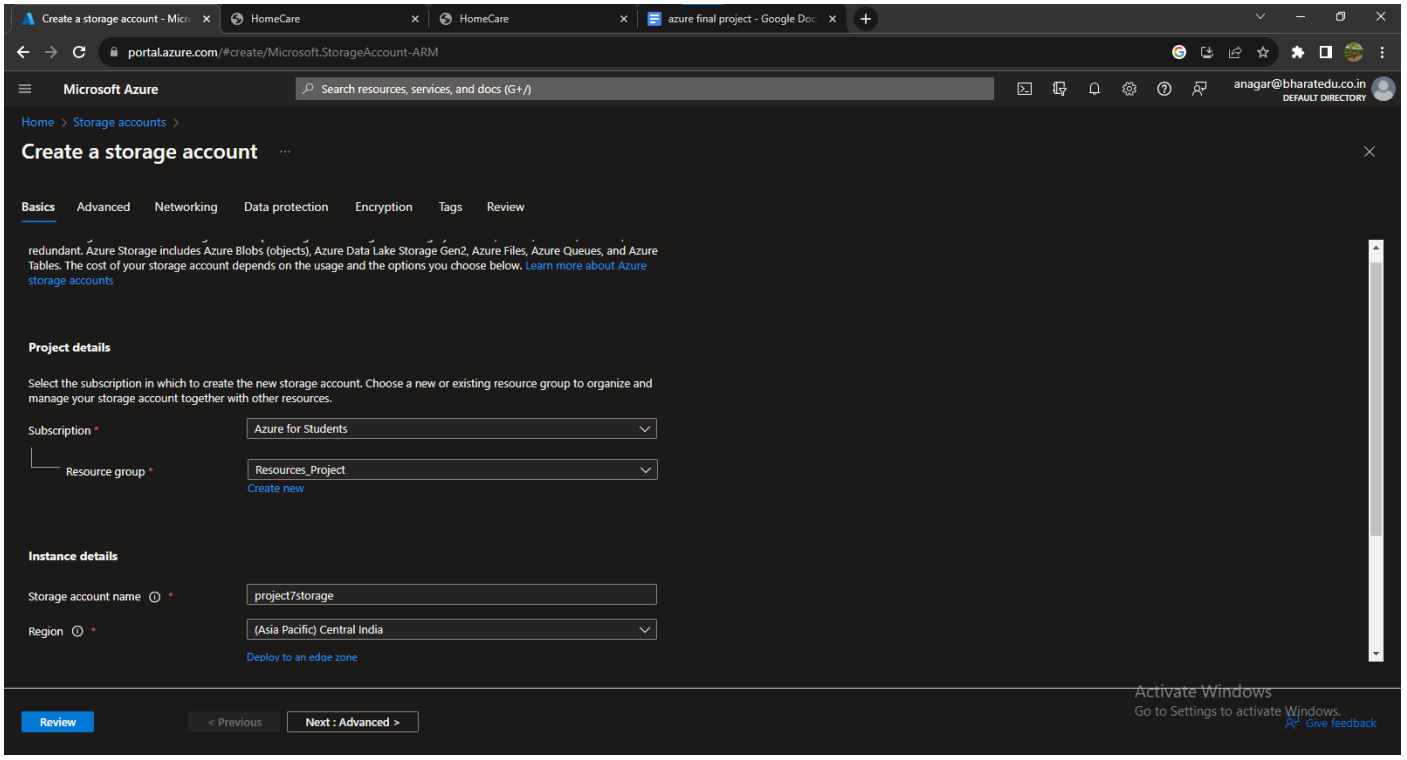


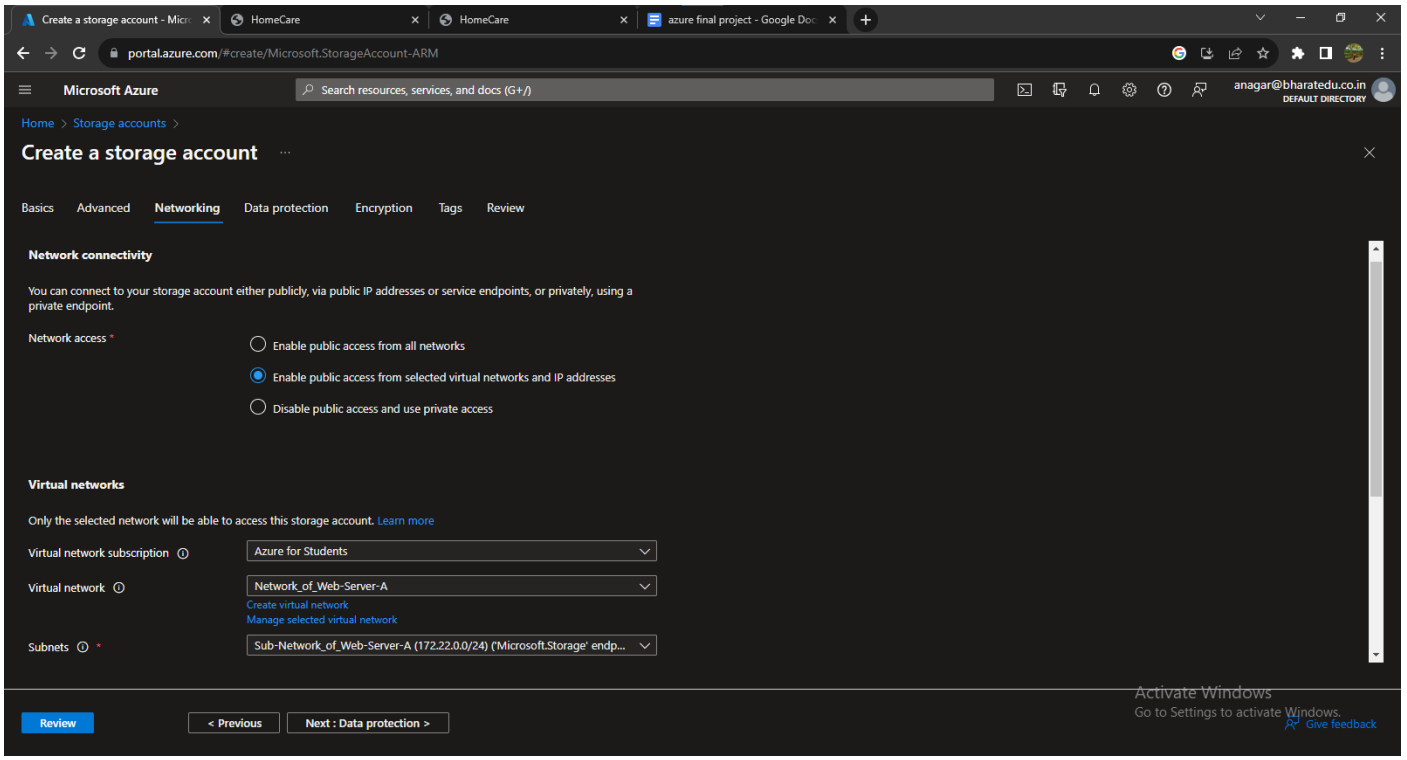
Virtual Network Connections Diagram :

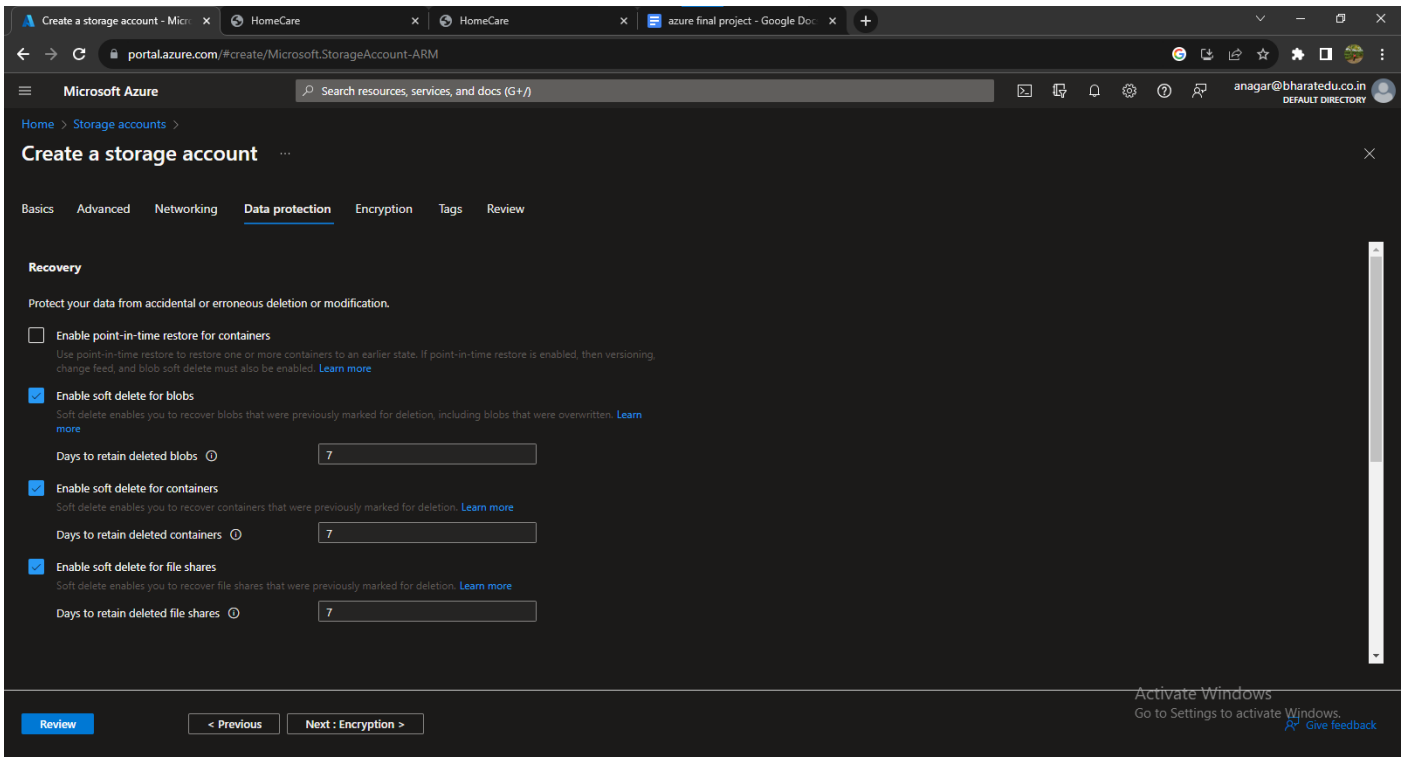




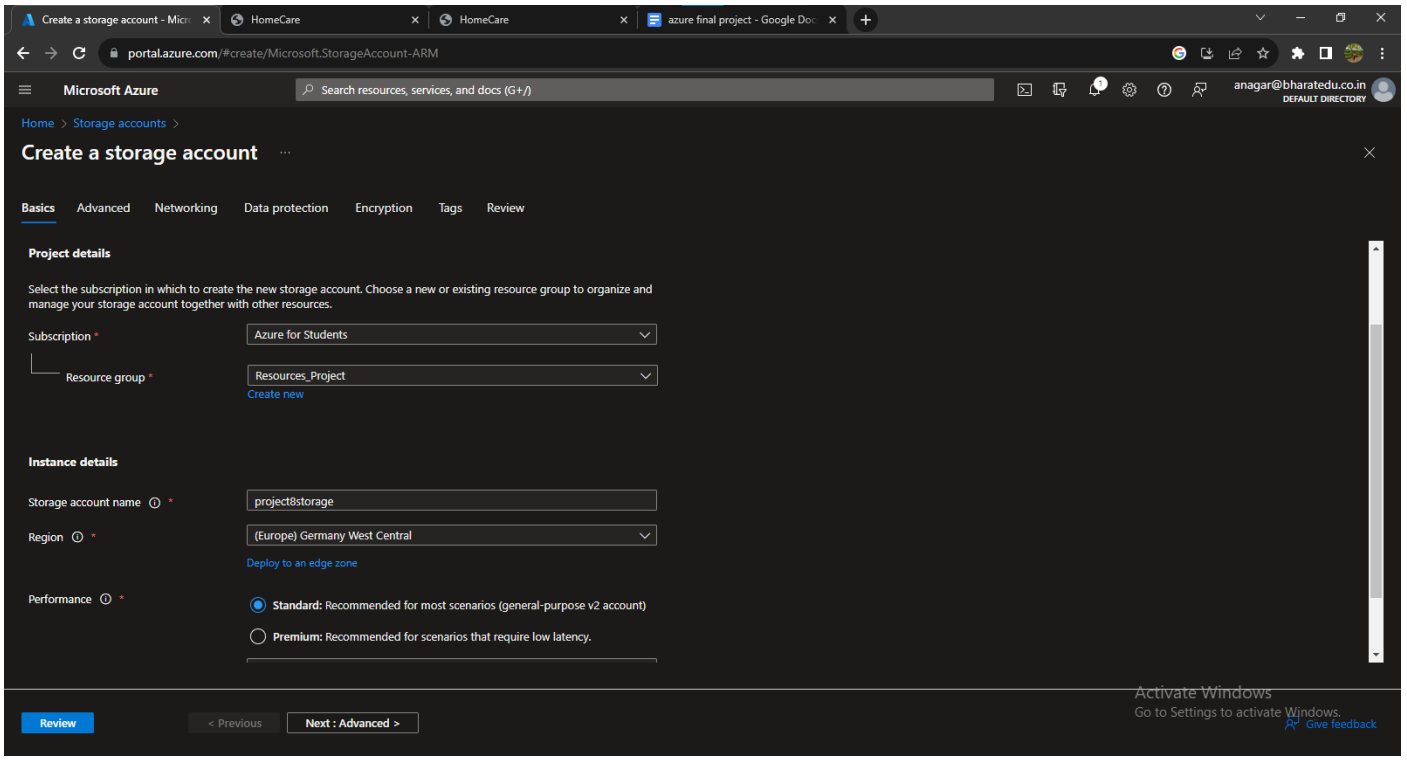
Step 9 : Creating a Storage account in the Central India which will be only accessible to Network of Web Server AB

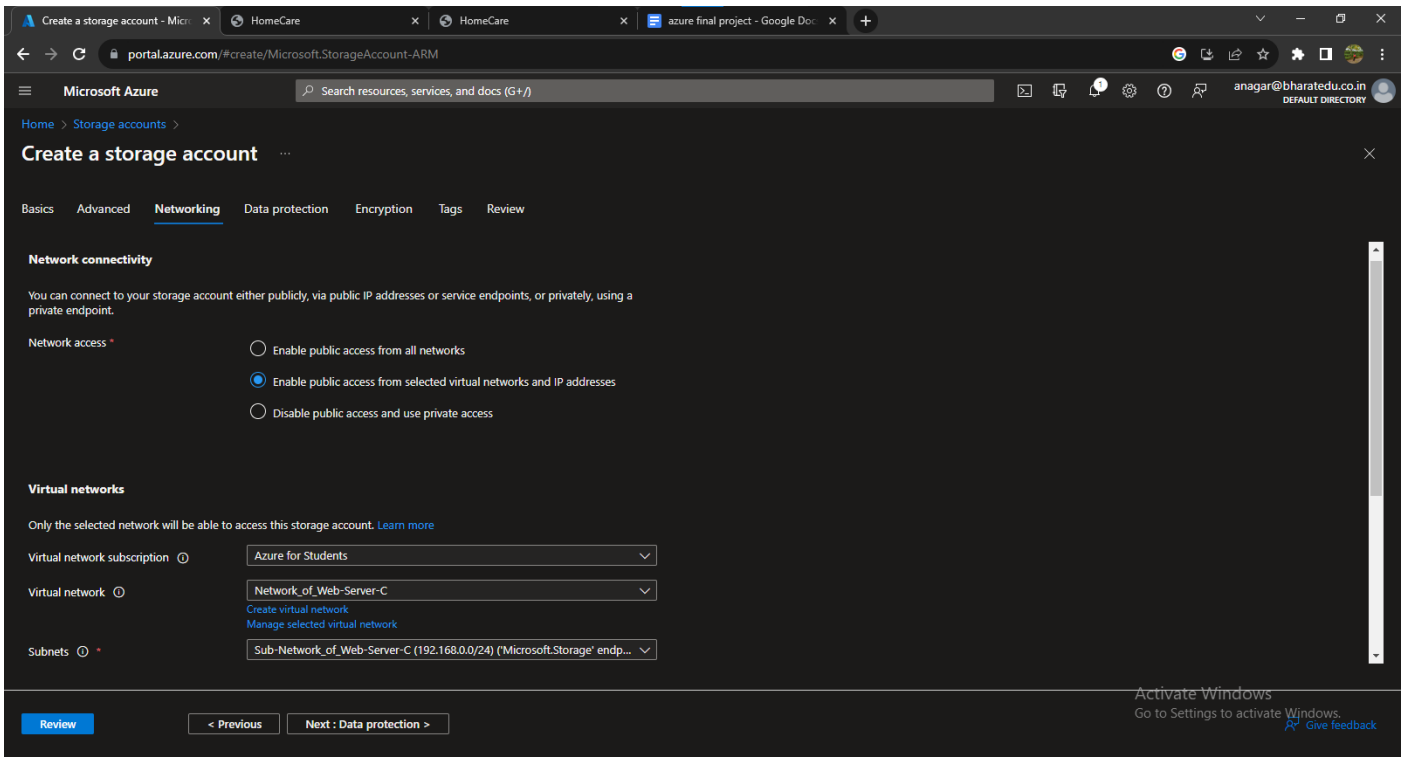



Create a storage account - Micr
HomeCare
HomeCare
azure final project - Google Doc
portal.azure.com/#create/Microsoft.StorageAccount-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
anagar@bharatedu.co.in
DEFAULT DIRECTORY
Home > Storage accounts >
Create a storage account
Basics Advanced Networking Data protection Encryption Tags Review
Network connectivity
You can connect to your storage account either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.
Network access *
Enable public access from all networks
Enable public access from selected virtual networks and IP addresses
Disable public access and use private access
Virtual networks
Only the selected network will be able to access this storage account. Learn more
Virtual network subscription
Azure for Students
Virtual network
Network_of_Web-Server-A
Create virtual network
Manage selected virtual network
Subnets *
Sub-Network_of_Web-Server-A (172.22.0.0/24) ('Microsoft.Storage' endp...
Review
< Previous
Next : Data protection >
Activate Windows
Go to Settings to activate Windows.
Give feedback

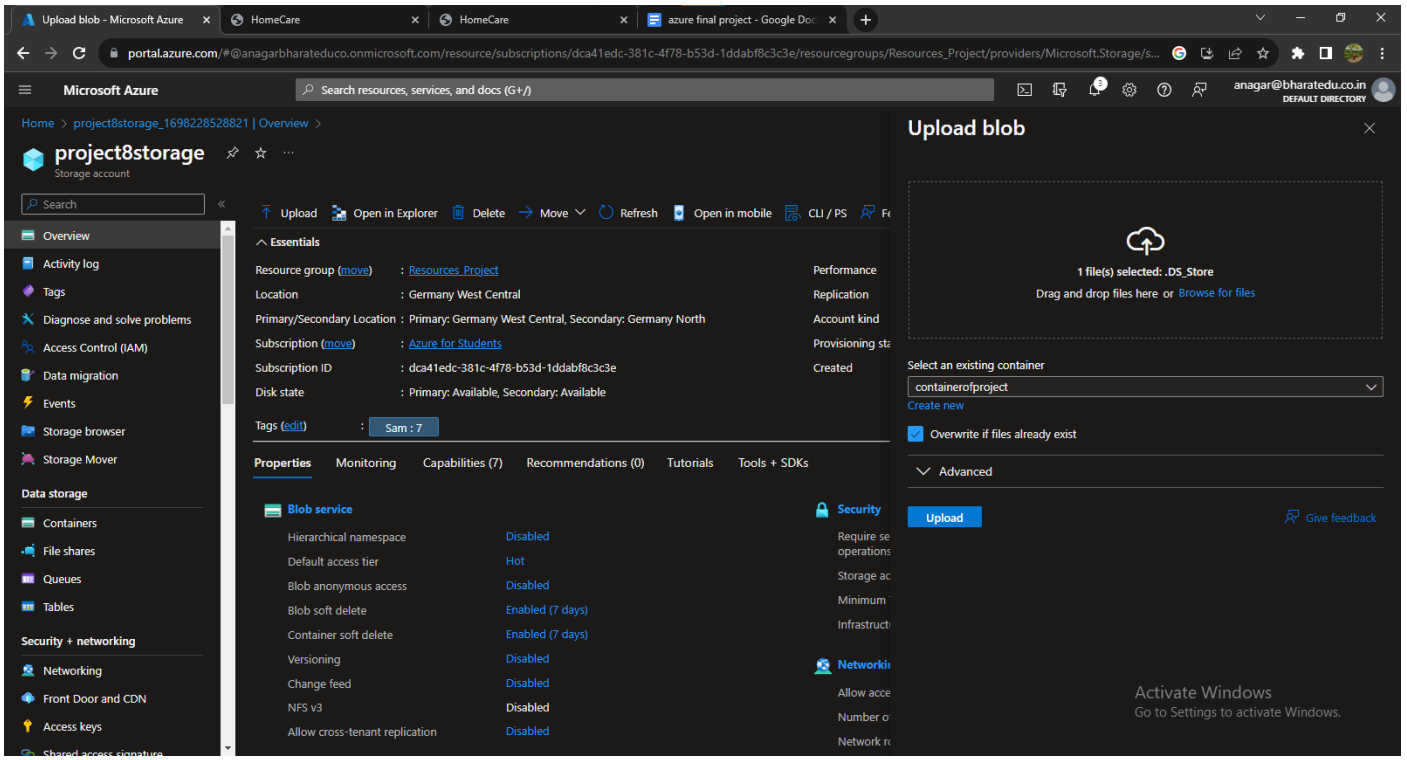

Create a storage account - Micr
HomeCare
HomeCare
azure final project - Google Doc
portal.azure.com/#create/Microsoft.StorageAccount-ARM
Microsoft Azure
Search resources, services, and docs (G+/)
anagar@bharatedu.co.in
DEFAULT DIRECTORY
Home > Storage accounts >
Create a storage account
Basics Advanced Networking Data protection Encryption Tags Review
Recovery
Protect your data from accidental or erroneous deletion or modification.
Enable point-in-time restore for containers
Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. Learn more
Enable soft delete for blobs
Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. Learn more
Days to retain deleted blobs
7
Enable soft delete for containers
Soft delete enables you to recover containers that were previously marked for deletion. Learn more
Days to retain deleted containers
7
Enable soft delete for file shares
Soft delete enables you to recover file shares that were previously marked for deletion. Learn more
Days to retain deleted file shares
7
Review
< Previous
Next : Encryption >
Activate Windows
Go to Settings to activate Windows.
Give feedback

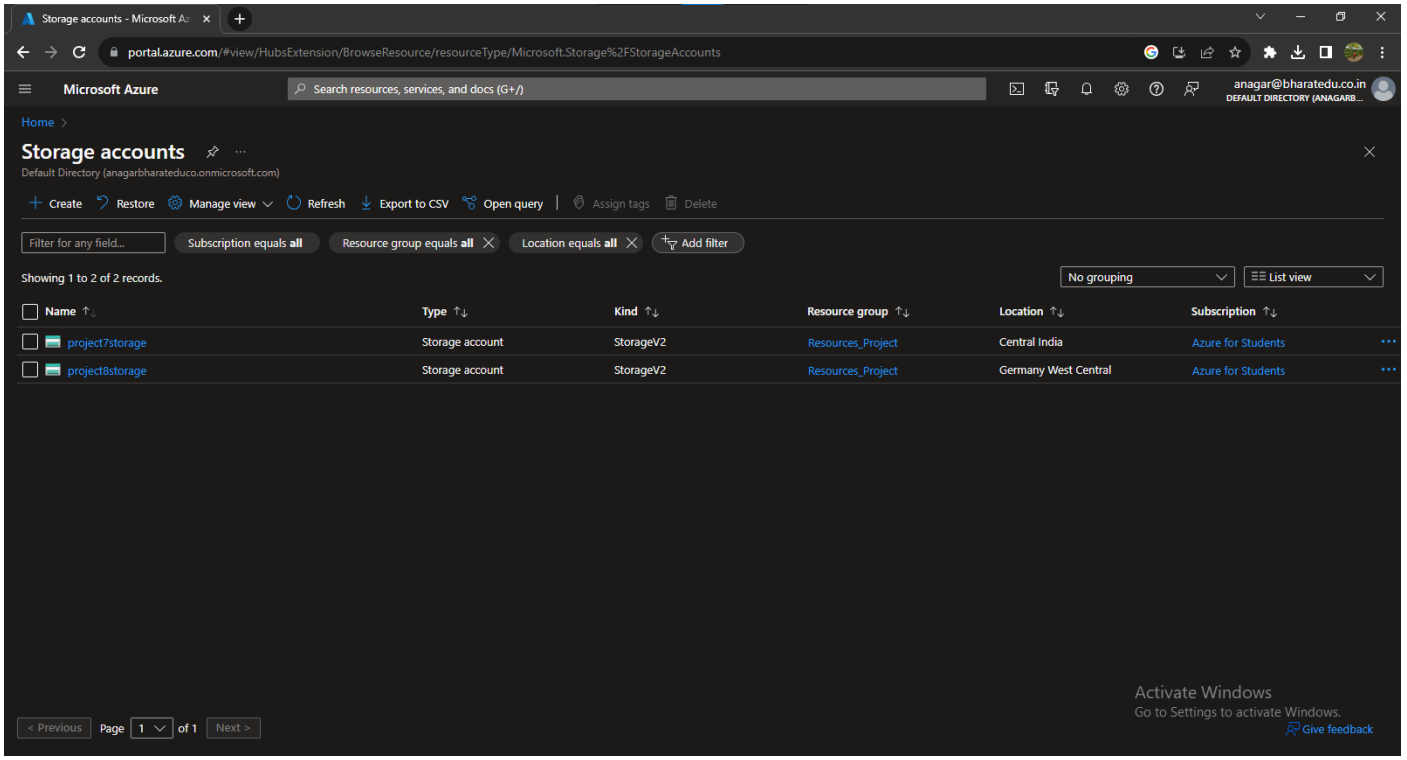
Creating a Storage account in the Germany West Central which will be only accessible to Network of Web Server CD





Adding a file in container of Storage Account





Thank You

Submitted by - Samiksha Desai ,
Date - 27/10/2023