



Microsoft Azure Project

Submitted by Group Members :

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Project Title:

Doctor Appointment Application's Virtual Networking Through Azure Administration.

Problem Statement:

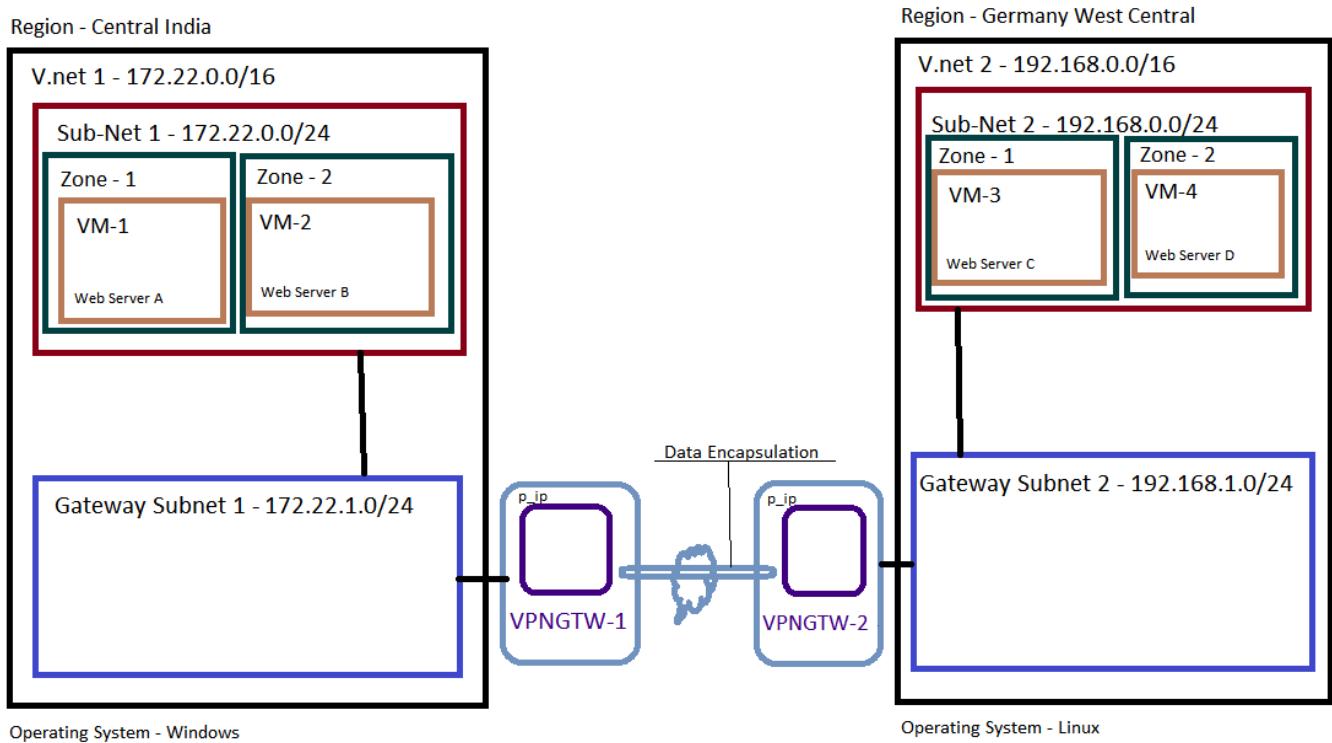
In order to facilitate doctor appointment application, the project aims to provide peering and a Virtual Private Network (VPN) connection between two virtual networks that are globally located in different regions.

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.

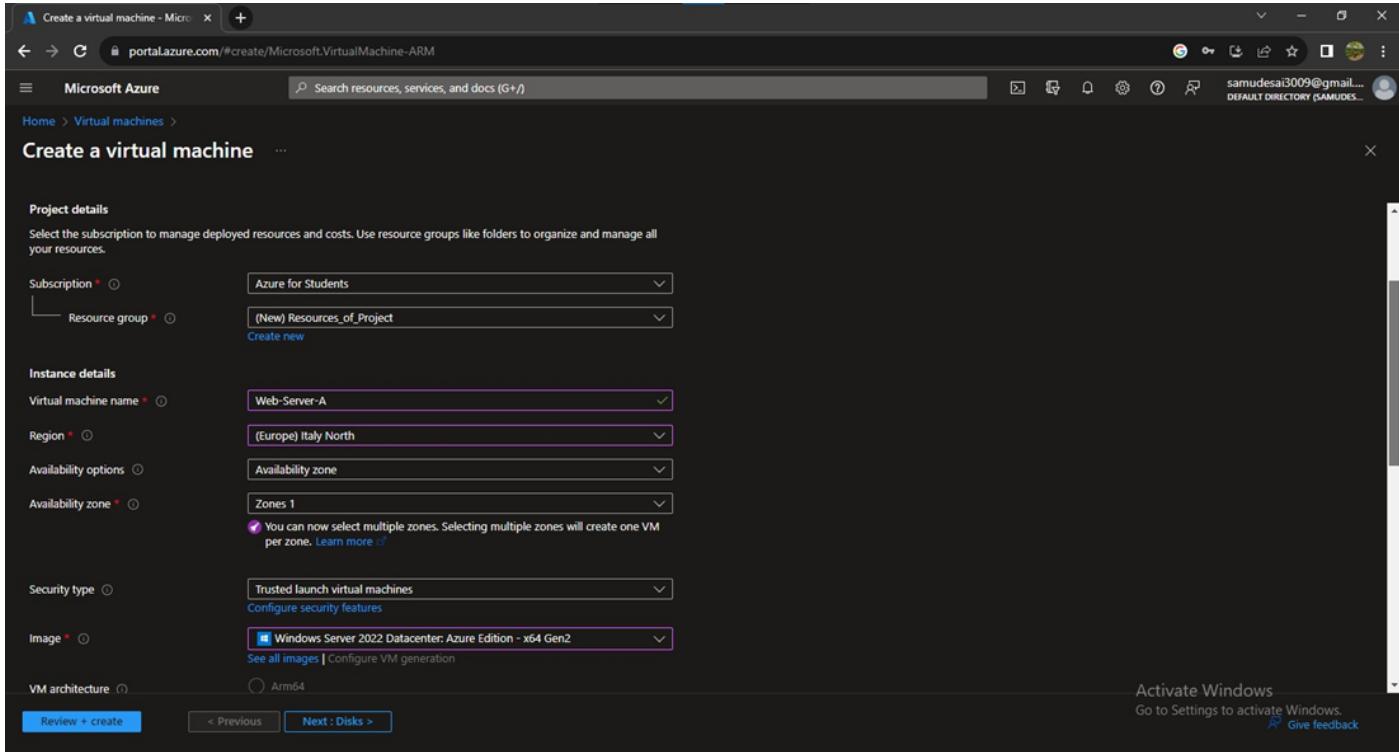
In two different locations, two virtual networks have been created. Subnets were subsequently established in each virtual network. Then, each subnet has two virtual machines created in it. A website is Hosted in each Virtual Machine. One gateway subnet is added to these virtual networks, and two virtual 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:

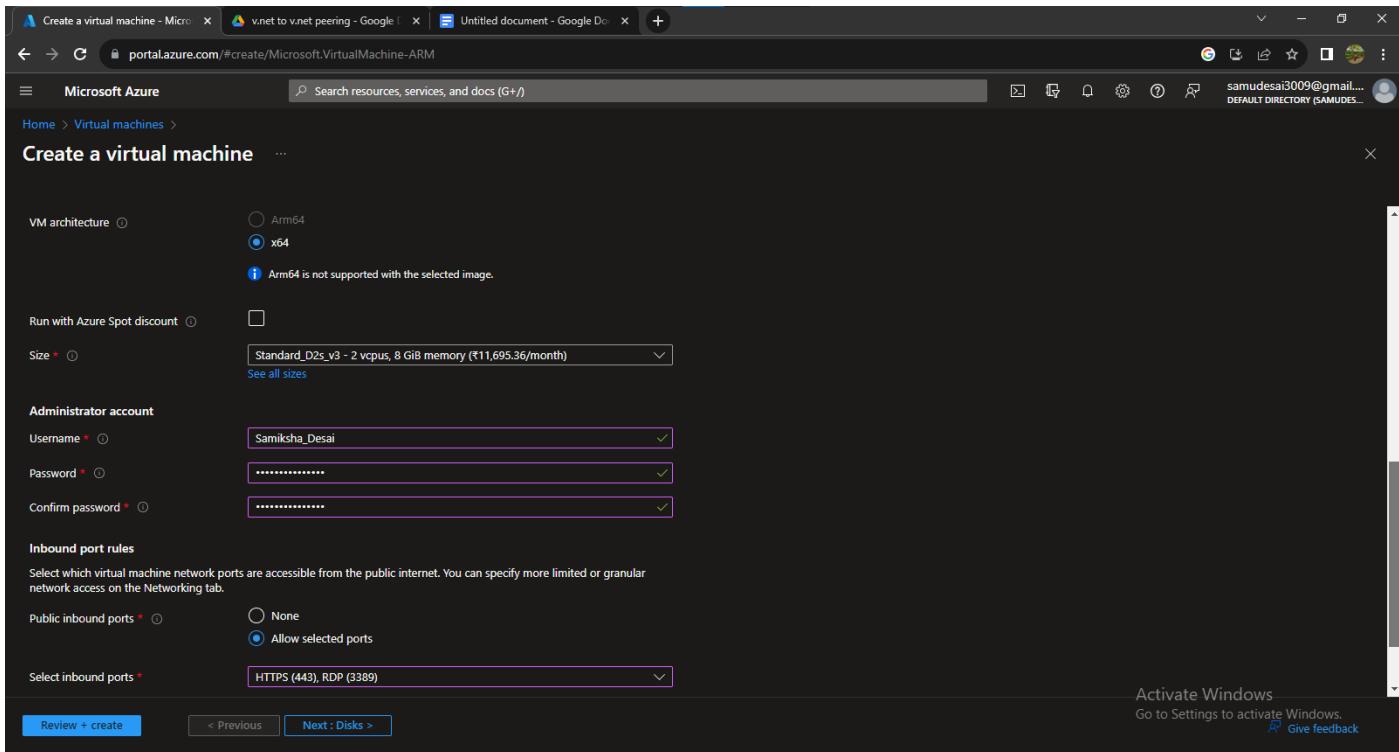
Step 1 : Creating first Virtual Machine - named ‘Web-Server-A’



The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'Project details' step is active. Key configuration parameters include:

- Subscription:** Azure for Students
- Resource group:** (New) Resources_of_Project
- Virtual machine name:** Web-Server-A
- Region:** (Europe) Italy North
- Availability options:** Availability zone
- Availability zone:** Zones 1
- Security type:** Trusted launch virtual machines
- Image:** Windows Server 2022 Datacenter: Azure Edition - x64 Gen2
- VM architecture:** Arm64 (radio button)

At the bottom, there are 'Review + create' and 'Next : Disks >' buttons.



The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'VM configuration' step is active. Key configuration parameters include:

- VM architecture:** x64 (radio button selected)
- Run with Azure Spot discount:** Unchecked
- Size:** Standard_D2s_v3 - 2 vcpus, 8 GiB memory (\$11.695.36/month)
- Administrator account:**
 - Username:** Samiksha_Desai
 - Password:** [REDACTED]
 - Confirm password:** [REDACTED]
- Inbound port rules:**
 - Select which virtual machine network ports are accessible from the public internet.
 - Public inbound ports:** Allow selected ports (radio button selected)
 - Select inbound ports:** HTTPS (443), RDP (3389)

At the bottom, there are 'Review + create' and 'Next : Disks >' buttons.

Assigning Network and Subnetwork to the VM

The Microsoft Azure Virtual Network service enables Azure resources to securely communicate with each other in a virtual network which is a logical isolation of the Azure cloud dedicated to your subscription. You can connect virtual networks to other virtual networks, or your on-premises network. [Learn more](#)

Name: Network_of_Web-Server-A

Address space

The virtual network's address space, specified as one or more address prefixes in CIDR notation (e.g. 192.168.1.0/24).

Address range *	Addresses	Overlap
172.22.0.0/16	172.22.0.0 - 172.22.255.255 (65536 addresses)	None
	(0 Addresses)	

Subnets

The subnet's address range in CIDR notation. It must be contained by the address space of the virtual network.

Subnet name	Address range	Addresses
Sub-Network_of_Web-Server-A	172.22.0.0/24	172.22.0.0 - 172.22.0.255 (256 addresses)
	(0 Addresses)	

Activate Windows
Go to Settings to activate Windows.

Advanced

Public inbound ports: Allow selected ports

Select inbound ports: HTTPS (443), RDP (3389)

Warning: 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.

Activate Windows
Go to Settings to activate Windows.

Adding Tags

The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. The user is on the 'Tags' tab. A table lists two tags: 'Sam' with value '7' and another row with '13 selected'. Below the table, a note states: 'Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.' At the bottom, there are buttons for 'Review + create', '< Previous', 'Next : Review + create >', and 'Activate Windows'.

Validation Passed

The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. The user is on the 'Review + create' step. A green bar at the top says 'Validation passed'. Below it, the 'Review + create' tab is selected. A note says: 'Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.' The 'Price' section shows '1 X Standard D2s v3 by Microsoft' and 'Subscription credits apply 16.0210 INR/hr'. The 'TERMS' section contains legal text about agreeing to terms and privacy statements. A warning message at the bottom says: '⚠ 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.' At the bottom, there are buttons for 'Create', '< Previous', 'Next >', 'Download a template for automation', and 'Activate Windows'.

Create a virtual machine - Microsoft Azure | v.net to v.net peering - Google | Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

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

Disk

OS disk size: Image default

Create < Previous Next > Download a template for automation

Activate Windows
Go to Settings to activate Windows. Give feedback

Create a virtual machine - Microsoft Azure | v.net to v.net peering - Google | Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

Home > Virtual machines >

Create a virtual machine

Validation passed

Networking

Use managed disks	Yes
Delete OS disk with VM	Enabled
Ephemeral OS disk	No

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

Activate Windows
Go to Settings to activate Windows. Give feedback

Create a virtual machine - Microsoft Azure | v.net to v.net peering - Google | Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

Home > Virtual machines >

Create a virtual machine

Validation passed

Enable hotpatch Off
Patch orchestration options OS-orchestrated patching: patches will be installed by OS

Monitoring

Alerts Off
Boot diagnostics On
Enable OS guest diagnostics Off

Advanced

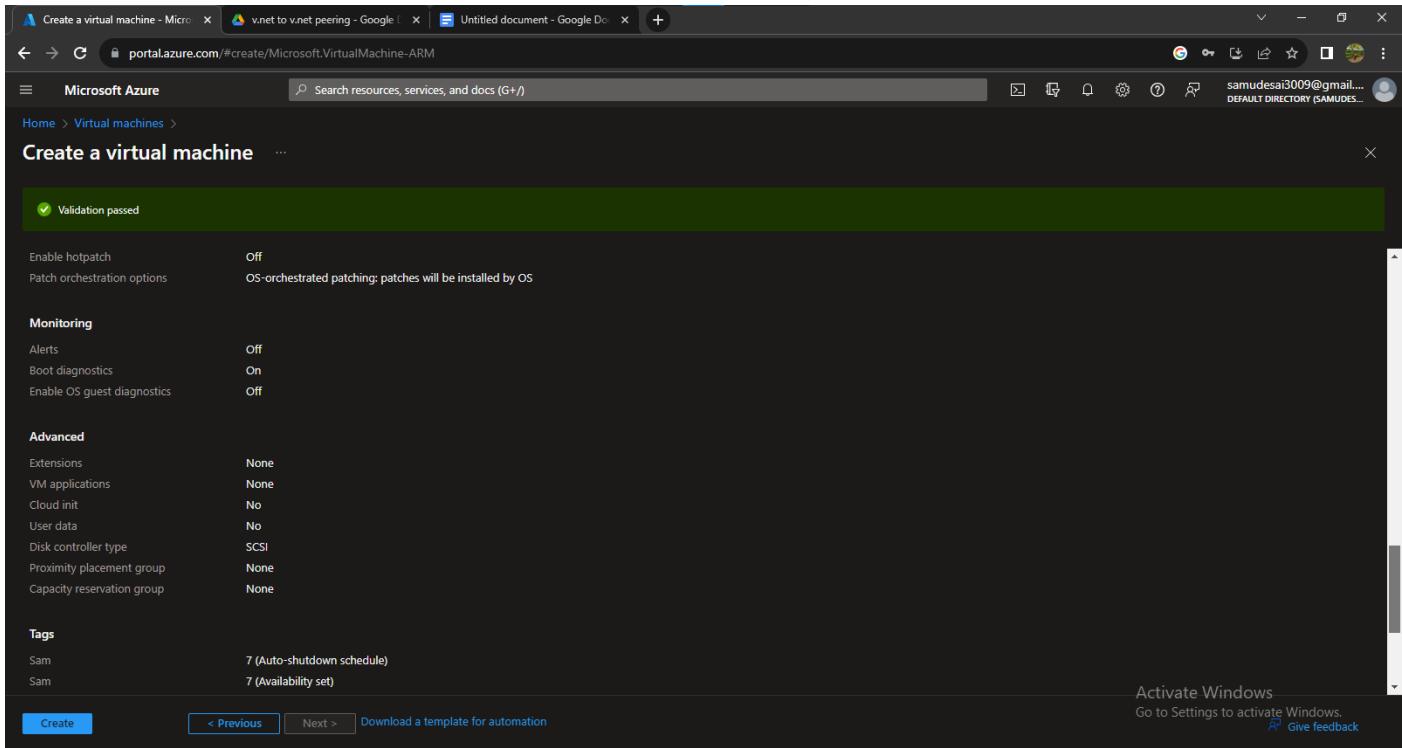
Extensions None
VM applications None
Cloud init No
User data No
Disk controller type SCSI
Proximity placement group None
Capacity reservation group None

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



Deployment is in Process

CreateVm-MicrosoftWindowsServer | v.net to v.net peering - Google | Untitled document - Google Docs

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F63bb78a9-4754-4427-8a89-76d31f98dd7%2FresourceGroups%2FResources_of_Project...

Microsoft Azure

Search resources, services, and docs (G+)

Home >

CreateVm-MicrosoftWindowsServer | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer | Start time: 10/21/2023, 7:07:44 PM
Subscription: Azure for Students | Correlation ID: dab70463-8cc1-49d3-8834-fdce4ebb3a42

Deployment details

Resource	Type	Status	Operation details
web-server-a750_z1	Microsoft.Network/networkInterfaces	Created	Operation details
Web-Server-A-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details
Network_of_Web-Server-A	Microsoft.Network/virtualNetworks	OK	Operation details
Web-Server-A-ip	Microsoft.Network/publicIPAddresses	OK	Operation details

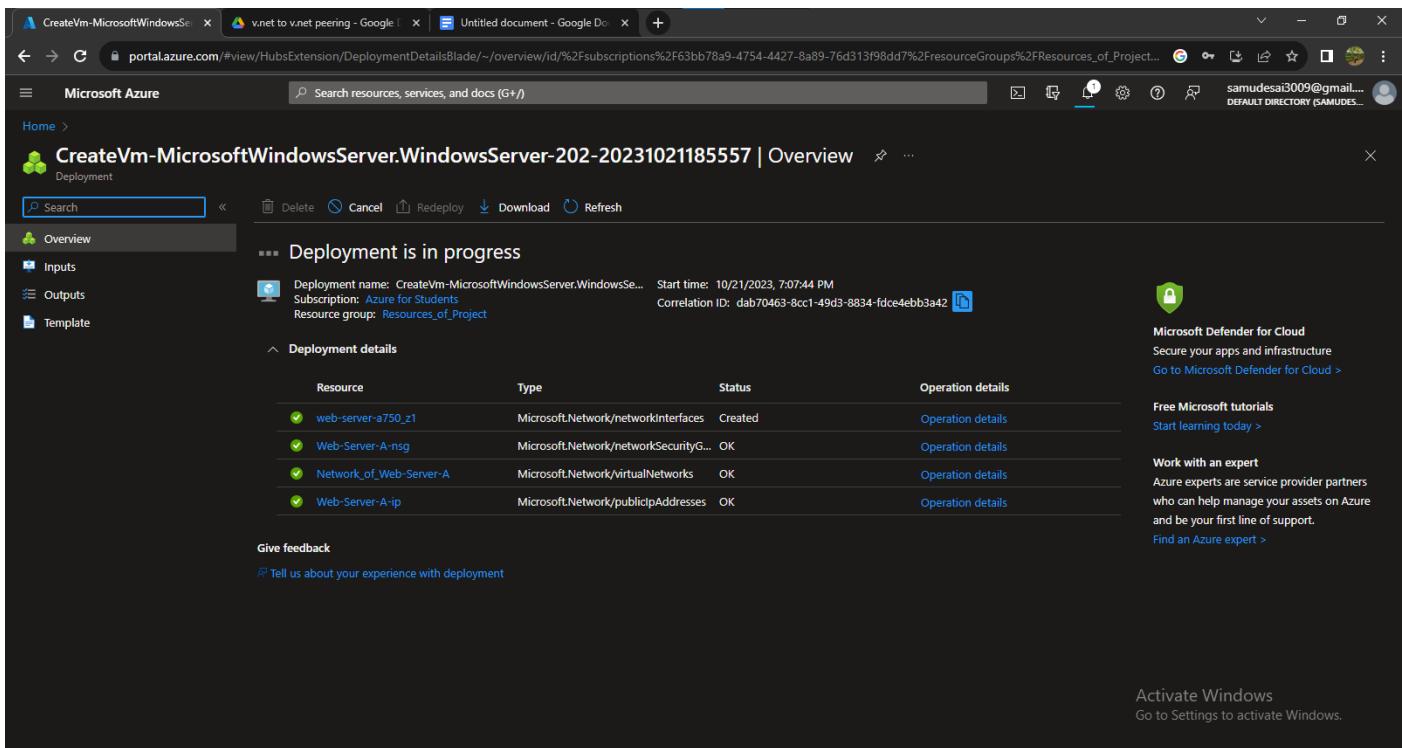
Give feedback Tell us about your experience with deployment

Microsoft Defender for Cloud Secure your apps and infrastructure Go to Microsoft Defender for Cloud >

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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.



Here Deployment of our first Virtual Machine is Completed

The screenshot shows the Microsoft Azure portal with the URL [portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F63bb78a9-4754-4427-8a89-76d313f98dd7%2FresourceGroups%2FResources_of_Project...](https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F63bb78a9-4754-4427-8a89-76d313f98dd7%2FresourceGroups%2FResources_of_Project/). The page title is "CreateVm-MicrosoftWindowsServer.WindowsServer-202-20231021185557 | Overview". The main message is "Your deployment is complete". Deployment details include: Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 10/21/2023, 7:07:44 PM; Subscription: Azure for Students Correlation ID: dab70463-8cc1-49d3-8834-fdce4ebb3a42. A "Cost Management" sidebar provides information on staying within budget and preventing unexpected charges. Other sections include "Next steps" (Setup auto-shutdown, Monitor VM health, Run a script), "Give feedback", and "Tell us about your experience with deployment". Buttons for "Go to resource" and "Create another VM" are at the bottom.

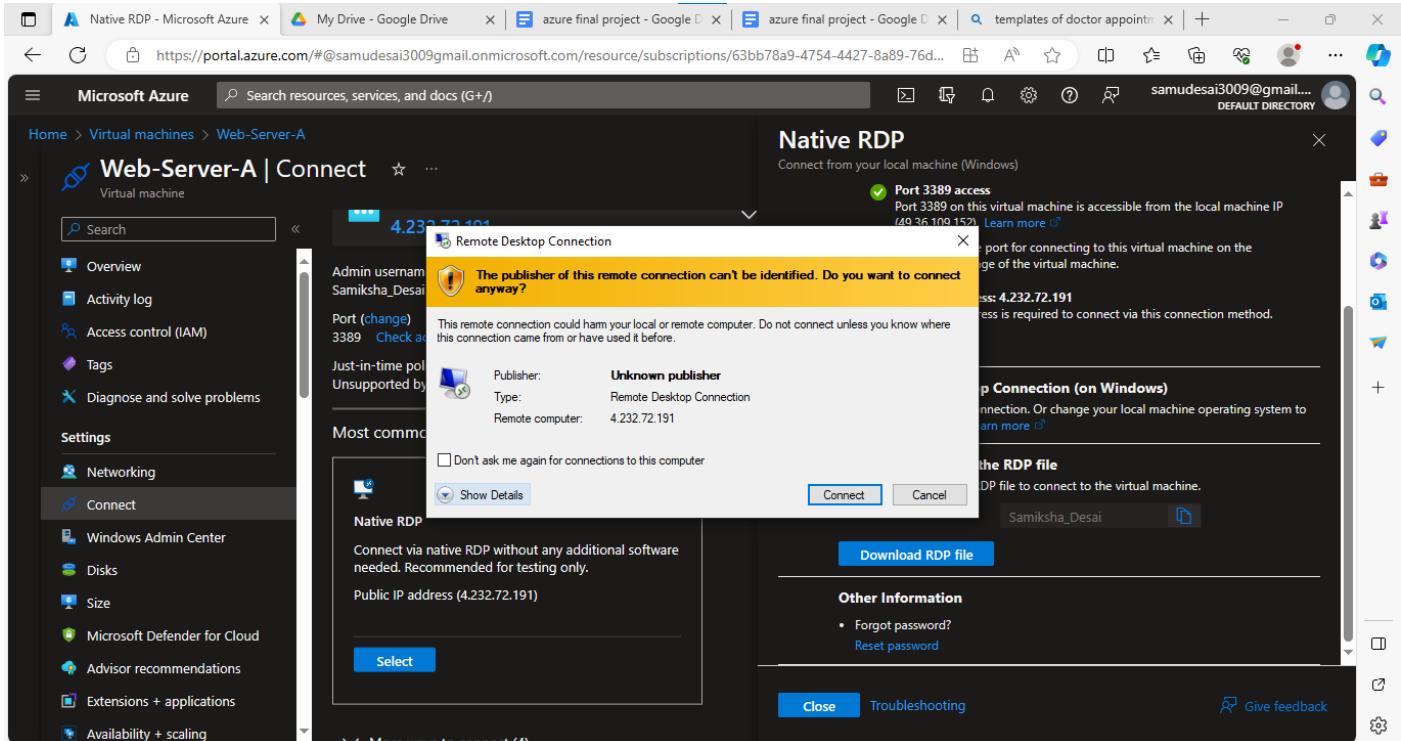
The screenshot shows the Microsoft Azure portal with the URL portal.azure.com/#@samudesa3009@gmail.onmicrosoft.com/resource/subscriptions/63bb78a9-4754-4427-8a89-76d313f98dd7/resourcegroups/Resources_of_Project/providers/Microsoft.Compute/virtualMachines/Web-Server-A. The page title is "Web-Server-A - Microsoft Azure". The left sidebar shows the VM's status as "Running" in the "Essentials" section. The "Properties" tab is selected, displaying detailed configuration: Computer name: Web-Server-A, Operating system: Windows (Windows Server 2022 Datacenter Azure Edition), Image publisher: MicrosoftWindowsServer, Image offer: WindowsServer, Image plan: 2022-datacenter-azure-edition, VM generation: V2, VM architecture: x64, Agent status: Ready, Agent version: 2.7.41491.1032. The "Networking" section shows Public IP address: 4.232.64.201, Private IP address: 172.22.0.4, and Virtual network/subnet: Network_of_Web-Server-A/Sub-Network_of_Web-Server-A. The "Size" section shows Standard D2s v3. A "Networking" sidebar provides more details about the VM's network configuration. A "Free Microsoft tutorials" sidebar suggests learning about Azure experts and activating Windows. A "Work with an expert" sidebar offers help from service provider partners. A "Activate Windows" sidebar provides instructions to go to Settings to activate Windows.

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with navigation links like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, Availability + scaling, Configuration, Identity, Properties, and Locks. The main content area displays the details for 'Web-Server-A'. It includes sections for VM architecture (x64), Agent status (Ready), Agent version (2.7.41491.1032), Host group (None), Host (dropdown), Proximity placement group (dropdown), Colocation status (N/A), Capacity reservation group (dropdown), Disk controller type (SCSI), Availability + scaling (Availability zone: 1, Availability set: dropdown, Scale Set: dropdown), Security type (Security type: Trusted launch, Enable secure boot: Enabled, Enable vTPM: Enabled, Integrity monitoring: Disabled), Extensions + applications (Extensions: dropdown, Applications: dropdown), and Auto-shutdown (Auto-shutdown: Not enabled, Scheduled shutdown: dropdown). There's also an 'Azure Spot' section (Azure Spot: dropdown, Azure Spot eviction policy: dropdown). A note at the bottom right says 'Activate Windows Go to Settings to activate Windows.' The top right shows the user's email (samudesa3009@gmail...) and a 'DEFAULT DIRECTORY (SAMUDESA...)' button.

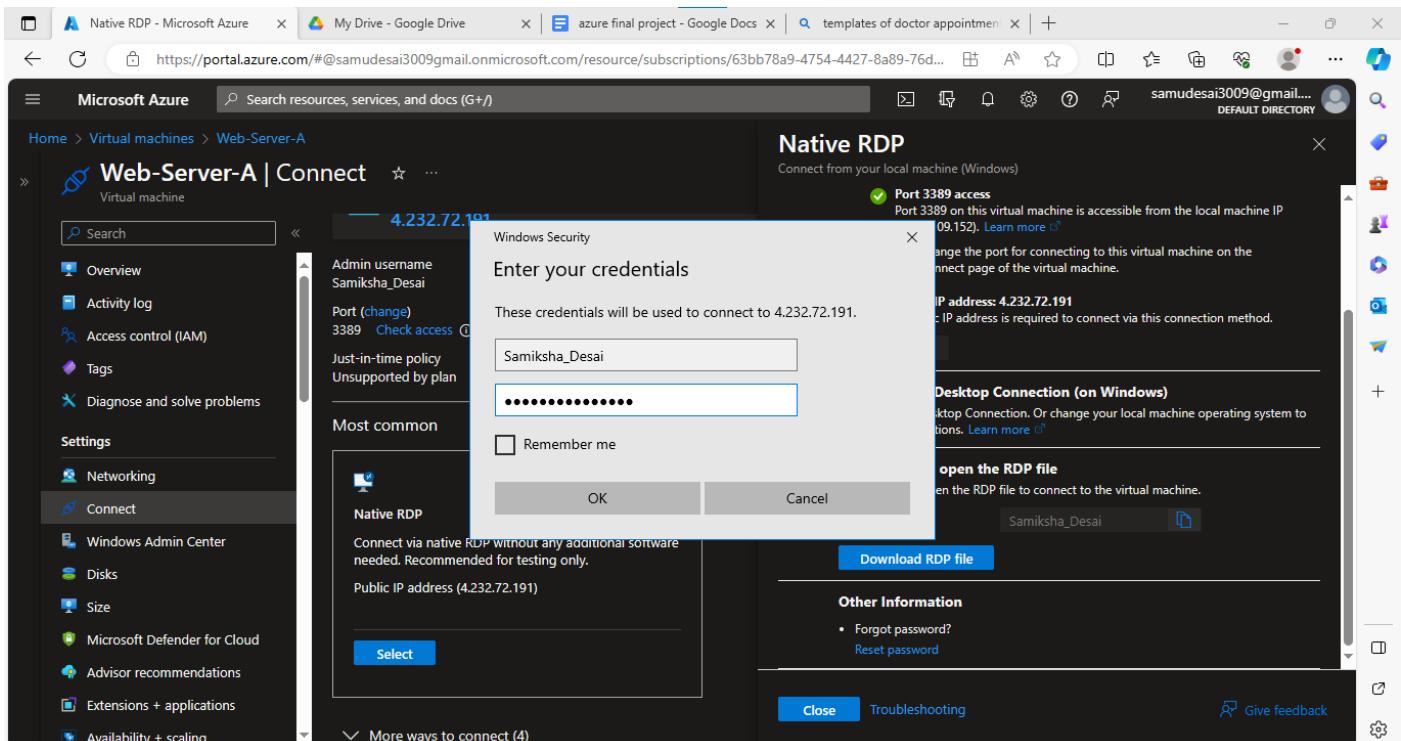
Download the RDP

The screenshot shows the Microsoft Azure portal interface, specifically the 'Virtual machines' section. On the left, it lists 'Web-Server-A', 'Web-Server-B', 'Web-Server-C', and 'Web-Server-D'. The 'Connect' option under 'Web-Server-A' is selected. A modal window titled 'Native RDP' is open, providing instructions for connecting via RDP. It shows the public IP address (4.232.72.191) and port (3389). It also lists the admin username (Samiksha_Desai) and provides a 'Check access' button. Below this, there are sections for 'Most common' (Native RDP, Connect via native I needed. Recommended, Public IP address (4)), 'Other Information' (Forgot password?, Reset password), and buttons for 'Close', 'Troubleshooting', and 'Give feedback'. The top of the modal has a 'Configure' button.

Connecting to the Remote Desktop of our first VM



Here we are putting Username and Password to connect



Native RDP

The identity of the remote computer cannot be verified. Do you want to connect anyway?

Remote Desktop Connection

Port 3389 access

Change the port for connecting to this virtual machine on the Connect page of the virtual machine.

Public IP address: 4.232.72.191

Do you want to connect despite these certificate errors?

View certificate... Yes No Add RDP file

Native RDP

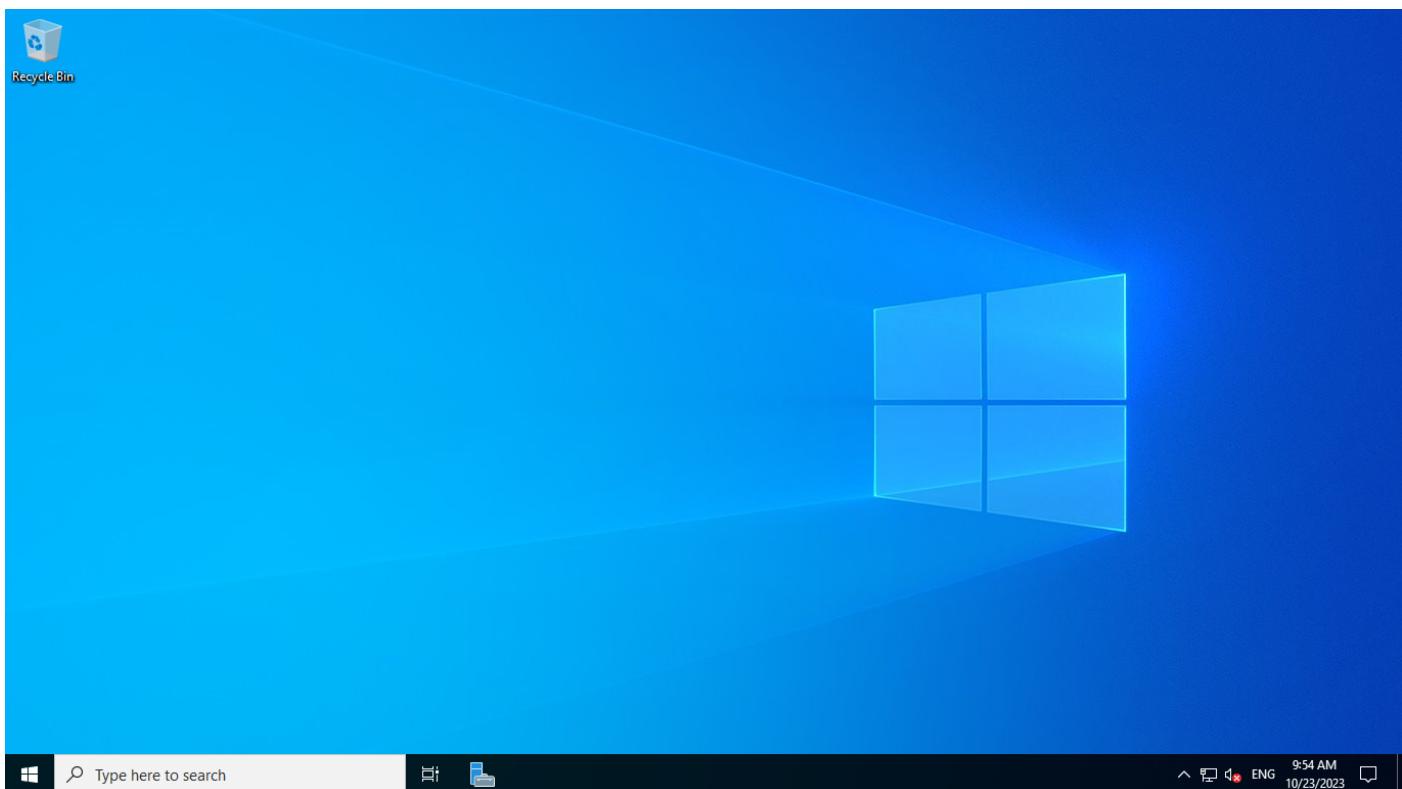
Native RDP file

Other Information

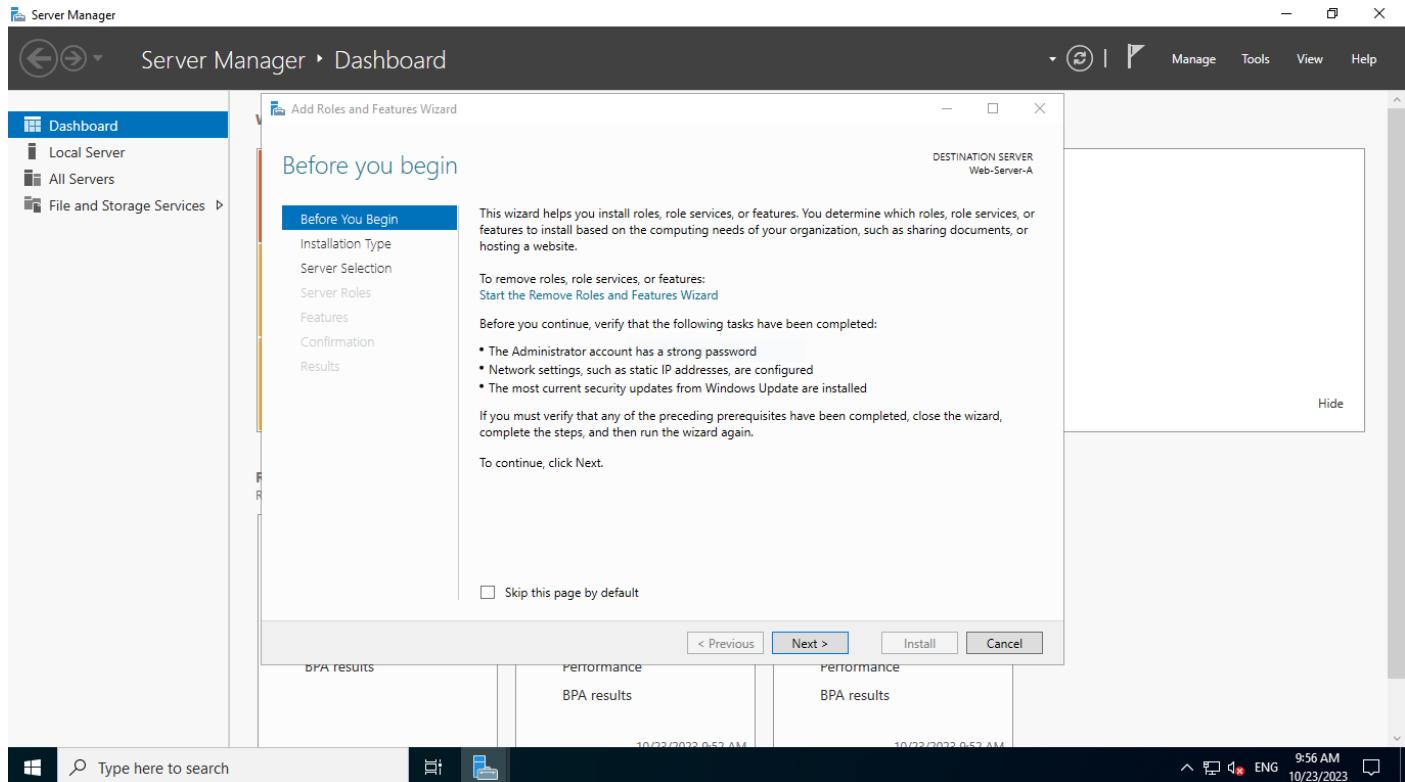
- Forgot password?
- Reset password

Close Troubleshooting Give feedback

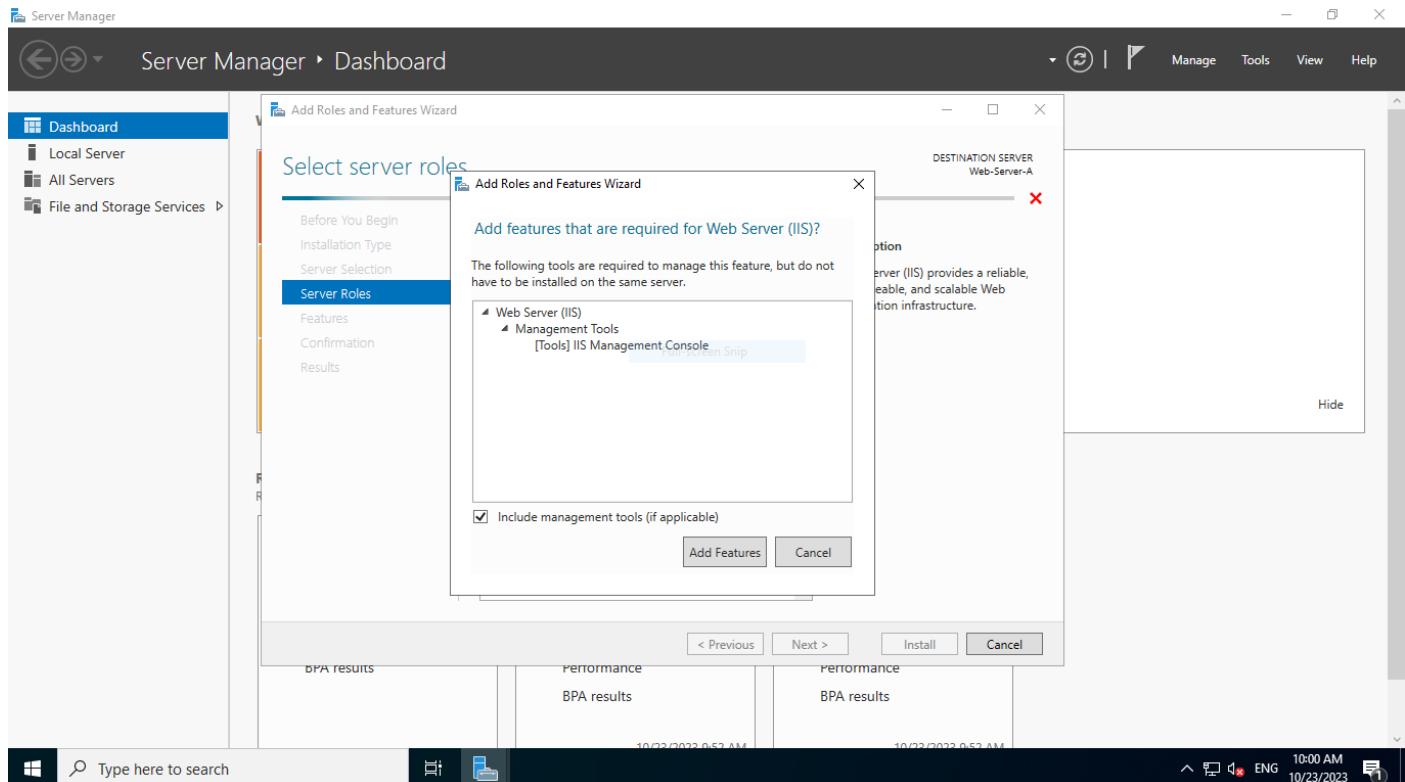
This is our Windows Desktop of first VM

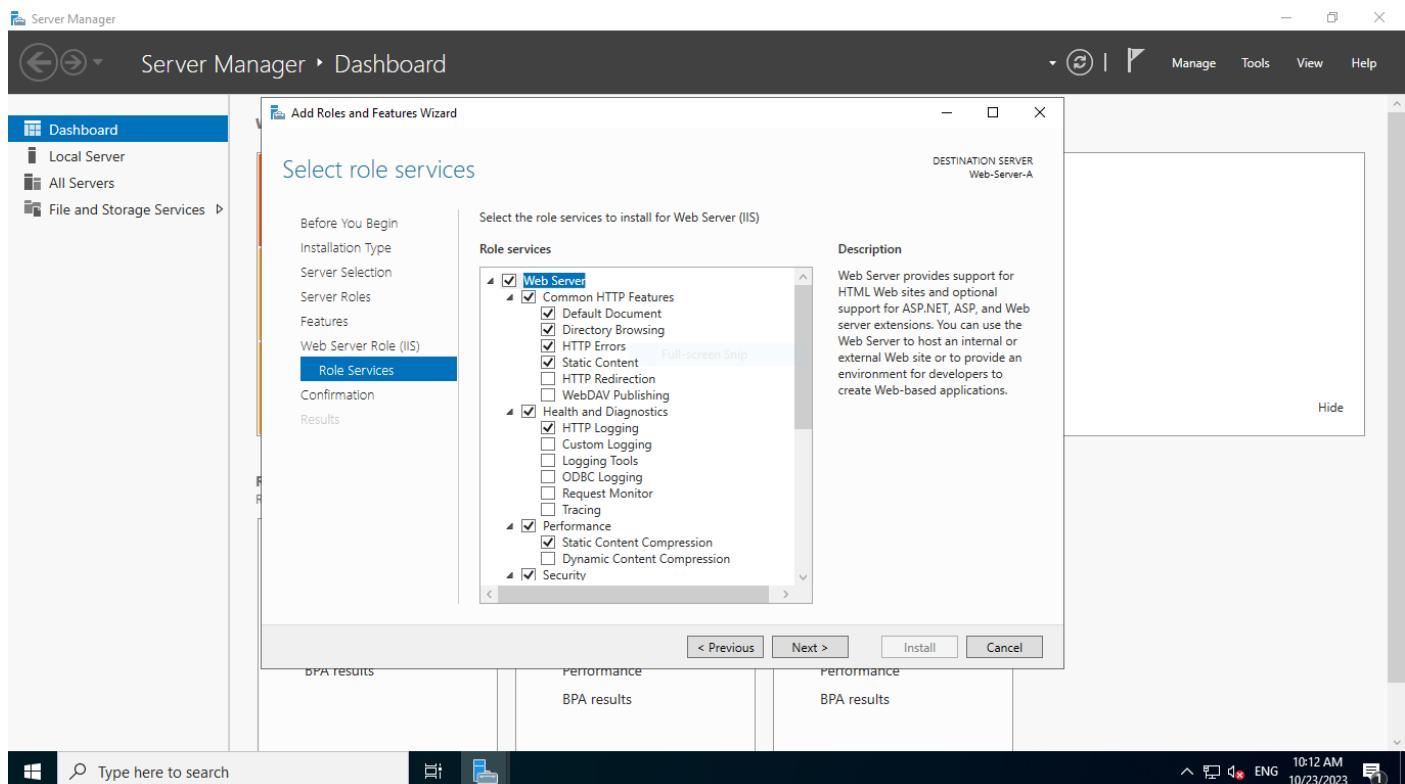


Server Manager of this Virtual Computer

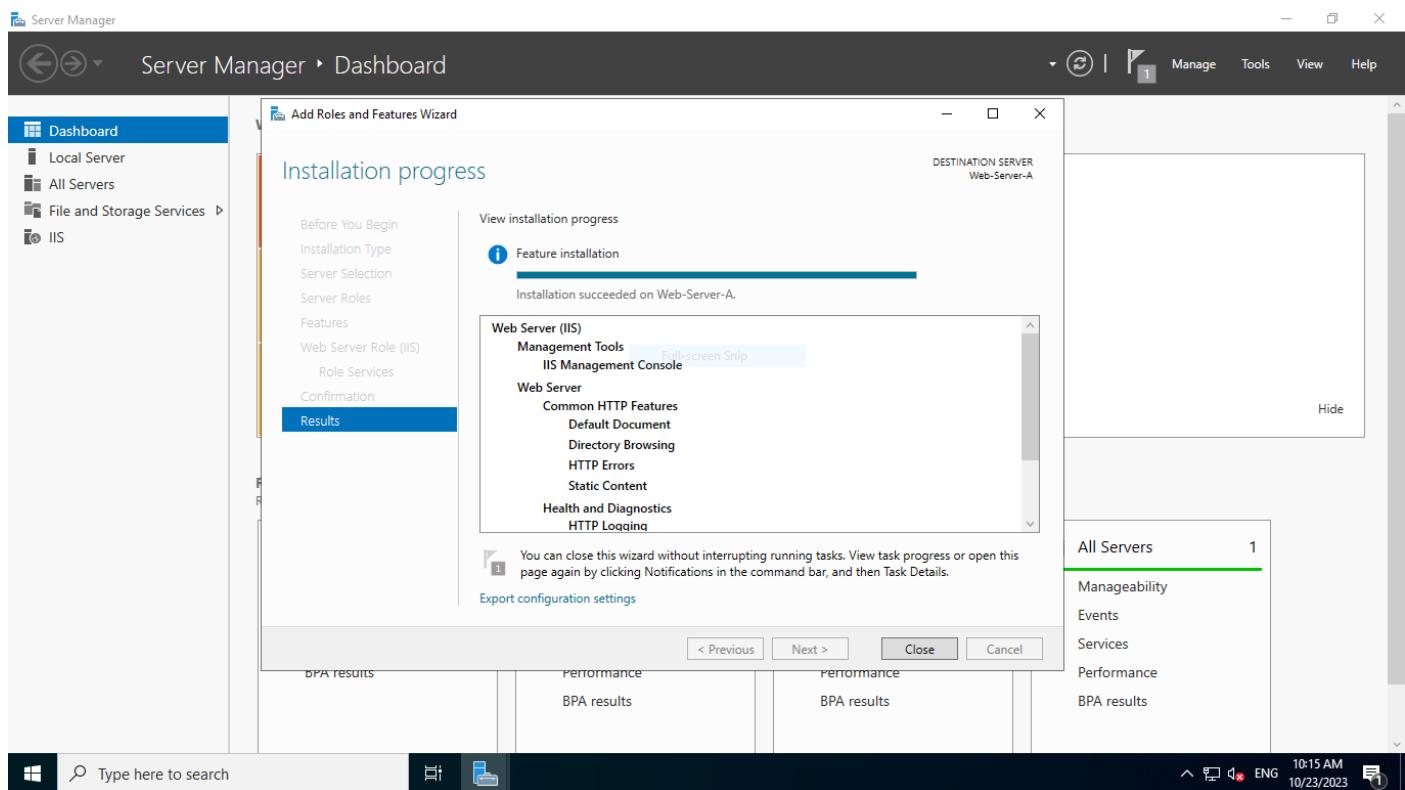


Adding Server Roles

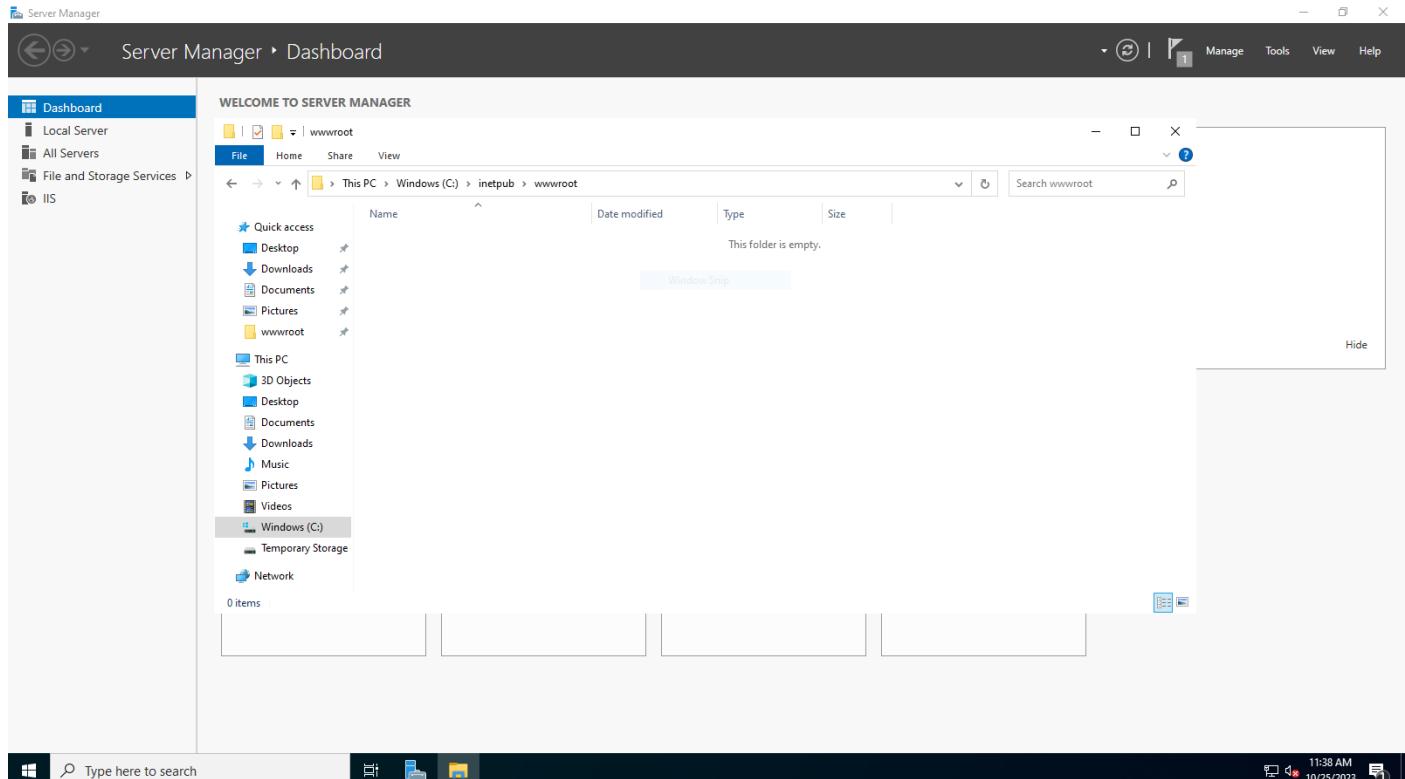




Installing Web Server (IIS)



Adding required files in the root directory



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

A screenshot of a web browser window showing a website for "Health Care". The browser tabs include "VPNGTW.Web-Server-AB - Microsoft Edge", "HomeCare", and "azure final project - Google Docs". The main content area features a teal header with the "Nurgo" logo. Below it, the words "Health Care" are displayed in large, bold, black font. A subtext "There are many variations of passages of Lorem Ipsum" is present. Two buttons, "Contact Now" (green) and "Get A Quote" (black), are visible. To the right, there is a black and white illustration of a doctor examining a patient's neck. At the bottom, there are two circular navigation arrows (left and right). The footer contains the text "Best Of Health care for you" and a note about activating Windows.

Activate Windows
Go to Settings to activate Windows.

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

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The current step is 'Project details'. The user has selected 'Subscription' as 'Azure for Students' and 'Resource group' as 'Resources_of_Project'. Under 'Instance details', the 'Virtual machine name' is 'Web-Server-B', 'Region' is '(Europe) Italy North', 'Availability options' is 'Availability zone', and 'Availability zone' is 'Zones 2'. A note indicates that selecting multiple zones will create one VM per zone. The 'Security type' is 'Trusted launch virtual machines'. The 'Image' is set to 'Windows Server 2022 Datacenter: Azure Edition - x64 Gen2'. Under 'VM architecture', 'x64' is selected. At the bottom, there are buttons for 'Review + create' and 'Next : Disks >'. A 'Give feedback' link is also present.

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The current step is 'VM configuration'. The 'VM architecture' is set to 'x64'. A note states that 'Arm64 is not supported with the selected image'. Under 'Run with Azure Spot discount', there is an unchecked checkbox. The 'Size' is 'Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹11,695.36/month)'. In the 'Administrator account' section, the 'Username' is 'Samiksha_Desai', 'Password' is masked, and 'Confirm password' is also masked. In the 'Inbound port rules' section, it says '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.' The 'Public inbound ports' setting is 'Allow selected ports', and the selected port is 'HTTPS (443), RDP (3389)'. At the bottom, there are buttons for 'Review + create' and 'Next : Disks >'. A 'Give feedback' link is also present.

Assigning Same Virtual Network to the same regional vm's

The screenshot shows the 'Networking' tab of the Azure VM creation wizard. Key settings include:

- Virtual network:** Network_of_Web-Server-A (selected)
- Subnet:** Sub-Network_of_Web-Server-A (172.22.0.0/24)
- Public IP:** (new) Web-Server-B-ip (selected)
- NIC network security group:** Basic (selected)
- Public inbound ports:** Allow selected ports (selected)
- Select inbound ports:** HTTPS (443), RDP (3389) (selected)

At the bottom, there are 'Review + create' and 'Next : Management >' buttons.

The screenshot shows the 'Networking' tab with a warning message about inbound ports:

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

Other settings visible include:

- Public inbound ports:** Allow selected ports (selected)
- Select inbound ports:** HTTPS (443), RDP (3389) (selected)
- Delete public IP and NIC when VM is deleted:**
- Enable accelerated networking:**

Below the networking section, the 'Load balancing' section is partially visible.

At the bottom, there are 'Review + create' and 'Next : Management >' buttons.

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) 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 - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) Home > Virtual machines > Create a virtual machine

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Validation passed

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 Subscription credits apply 16.0210 INR/hr
[Terms of use](#) [Privacy policy](#) 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.

Create < Previous Next > Download a template for automation Activate Windows Go to Settings to activate Windows Give feedback

Create a virtual machine - Microsoft Azure | v.net to v.net peering - Google | Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

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

Disk

OS disk size: Image default

Create < Previous Next > Download a template for automation

Activate Windows
Go to Settings to activate Windows. Give feedback

Create a virtual machine - Microsoft Azure | v.net to v.net peering - Google | Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Search resources, services, and docs (G+)

Home > Virtual machines >

Create a virtual machine

Validation passed

Networking

Use managed disks	Yes
Delete OS disk with VM	Enabled
Ephemeral OS disk	No

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

Activate Windows
Go to Settings to activate Windows. Give feedback

Validation passed

Enable hotpatch: Off
Patch orchestration options: OS-orchestrated patching: patches will be installed by OS

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)
7 (Availability set)

Create < Previous Next > Download a template for automation

Activate Windows
Go to Settings to activate Windows. Give feedback

Here Deployment is Completed of our Second VM

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 10/21/2023, 7:19:45 PM
Subscription: Azure for Students Correlation ID: 4d649ca7-60f7-4ff2-8a71-c1a9d1d89d56

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 >

Activate Windows
Go to Settings to activate Windows.

The screenshot shows the Microsoft Azure portal interface. The main title bar says "Web-Server-B - Microsoft Azure". The address bar contains the URL "portal.azure.com/#@samudesa3009@gmail.onmicrosoft.com/resource/subscriptions/63bb78a9-4754-4427-8a89-76d313f98dd7/resourcegroups/Resources_of_Project/providers/Microsoft.Compute/virtualMachines/Web-Server-B". The top navigation bar includes "Search resources, services, and docs (G+)" and user information "samudesa3009@gmail... DEFAULT DIRECTORY (SAMUDES...)". Below the header, the page title is "Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202-20231021191401 | Overview >". The main content area shows the "Web-Server-B" virtual machine details. The left sidebar has sections like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Networking, Connect, Windows Admin Center, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, Availability + scaling, Configuration, Identity, Properties, and Locks. The right panel displays the "Essentials" section with details such as Resource group (move) : Resources_of_Project, Status : Running, Location : Italy North (Zone 2), Subscription (move) : Azure for Students, Subscription ID : 63bb78a9-4754-4427-8a89-76d313f98dd7, Availability zone : 2, Tags (edit) : Sam : 7. It also shows the "Properties" tab selected, displaying the Virtual machine, Networking, and Size sections. The "Networking" section shows Public IP address : 4.232.128.30 (Network interface web-server-b302_z2), Private IP address : 172.22.0.5, Virtual network/subnet : Network_of_Web-Server-A/Sub-Network_of_Web-Server-A, and DNS name : Not configured. The "Size" section shows Standard D2s v3 with 2 vCPUs.

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

The screenshot shows the Microsoft Azure portal "Create a virtual machine" wizard. The title bar says "Create a virtual machine - Microsoft Azure". The address bar contains the URL "portal.azure.com/#create/Microsoft.VirtualMachine-ARM". The top navigation bar includes "Search resources, services, and docs (G+)" and user information "samudesa3009@gmail... DEFAULT DIRECTORY (SAMUDES...)". Below the header, the page title is "Home > Virtual machines > Create a virtual machine > ...". The main content area shows the "Project details" step. It asks to select a subscription and resource group. The "Subscription" dropdown is set to "Azure for Students" and the "Resource group" dropdown is set to "Resources_of_Project". The "Instance details" step follows, where the "Virtual machine name" is "Web-Server-C", "Region" is "(Europe) Germany West Central", "Availability options" is "Availability zone", and "Availability zone" is "Zones 1". A note says "You can now select multiple zones. Selecting multiple zones will create one VM per zone." The "Security type" is "Trusted launch virtual machines" and the "Image" is "Ubuntu Server 22.04 LTS - x64 Gen2". At the bottom, there are buttons for "Review + create", "< Previous", "Next : Disks >", and "Activate Windows" (with a link to "Go to Settings to activate Windows").

Standard D2s_v3 - 2 vcpus, 8 GiB memory (₹6,592.97/month)

Administrator account

Authentication type: SSH public key

Username: Samiksha_Desai

SSH public key source: Generate new key pair

Key pair name: Sam-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: Allow selected ports

Select inbound ports: HTTPS (443), SSH (22)

Review + create < Previous Next : Disks > Activate Windows Go to Settings to activate Windows Give feedback

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

Create virtual network

The Microsoft Azure Virtual Network service enables Azure resources to securely communicate with each other in a virtual network which is a logical isolation of the Azure cloud dedicated to your subscription. You can connect virtual networks to other virtual networks, or your on-premises network. [Learn more](#)

Name: Network_of_Web-Server-C

Address space

The virtual network's address space, specified as one or more address prefixes in CIDR notation (e.g. 192.168.1.0/24).

Address range *	Addresses	Overlap
192.168.0.0/16	192.168.0 - 192.168.255.255 (65536 address...)	None
	(0 Addresses)	None

Subnets

The subnet's address range in CIDR notation. It must be contained by the address space of the virtual network.

Subnet name	Address range	Addresses
Sub-Network_of_Web-Server-C	192.168.0.0/24	192.168.0.0 - 192.168.0.255 (256 addresses)
	(0 Addresses)	

Activate Windows
Go to Settings to activate Windows.

Create a virtual machine

Advanced

Public inbound ports None Allow selected ports

Select inbound ports:

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](#)

Adding Tags

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

The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. At the top, there are three tabs: 'Create a virtual machine - Micro', 'v.net to v.net peering - Google', and 'Untitled document - Google Doc'. The main title is 'Create a virtual machine' under 'Microsoft Azure'. The navigation bar includes 'Home > Virtual machines > Create a virtual machine'. A green header bar at the top says 'Validation passed'. Below it, the 'Review + create' tab is selected, along with 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', and 'Tags'. A note says 'Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.' The 'Price' section shows '1 X Standard D2s v3 by Microsoft' with a cost of '9.0315 INR/hr'. It also mentions 'Subscription credits apply' and links to 'Terms of use' and 'Privacy policy'. The 'TERMS' section contains a detailed legal statement about agreeing to terms and privacy statements. Below this, there are fields for 'Name' (Samiksha Desai) and 'Preferred e-mail address' (samudesa3009@gmail.com). At the bottom, there are buttons for 'Create', '< Previous' (disabled), 'Next >', and 'Download a template for automation'. On the right, there's an 'Activate Windows' link.

This screenshot shows the 'Basics' configuration step for creating a virtual machine. The title is 'Create a virtual machine' under 'Microsoft Azure'. The navigation bar shows 'Home > Virtual machines > Create a virtual machine'. The 'Basics' tab is selected, while 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', and 'Tags' are shown as other tabs. A green header bar at the top says 'Validation passed'. The configuration details are as follows:

Subscription	Azure for Students
Resource group	Resources_of_Project
Virtual machine name	Web-Server-C
Region	Germany West Central
Availability options	Availability zone
Availability zone	1
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

At the bottom, there are buttons for 'Create', '< Previous' (disabled), 'Next >', and 'Download a template for automation'. On the right, there's an 'Activate Windows' link.

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) samudesa3009@gmail.com 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

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) samudesa3009@gmail.com 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

Validation passed

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)
- Sam 7 (Disk)
- Sam 7 (Network interface)
- Sam 7 (Network security group)
- Sam 7 (Public IP address)
- Sam 7 (Recovery Services vault)
- Sam 7 (SQL Virtual Machine)
- Sam 7 (SSH key)
- Sam 7 (Storage account)
- Sam 7 (Virtual machine)
- Sam 7 (Virtual machine extension)
- Sam 7 (Virtual network)

Next > Download a template for automation

Submitting deployment...
Submitting the deployment template for resource group 'Resources_of_Project'.

Activate Windows
Go to Settings to activate Windows.
Give feedback

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021214119 Start time: 10/21/2023, 9:51:26 PM
Subscription: Azure for Students Correlation ID: 6e53cd9-406c-4f38-8815-8d7b92d05cfb

Deployment details:

Resource	Type	Status	Operation details
web-server-c250_z1	Microsoft.Network/networkInterfaces	Created	Operation details
Web-Server-C-ip	Microsoft.Network/publicIPAddresses	OK	Operation details
Web-Server-C-nsg	Microsoft.Network/networkSecurityGroups	OK	Operation details
Network_of_Web-Server-C	Microsoft.Network/virtualNetworks	OK	Operation details

Give feedback
Tell us about your experience with deployment

Activate Windows
Go to Settings to activate Windows.

Deployment of Third VM is Complete

The screenshot shows the Microsoft Azure portal with the deployment status for 'CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021214119'. The main message is 'Your deployment is complete' with a green checkmark. Deployment details include a name, subscription, resource group, start time, and correlation ID. A 'Deployment details' section lists setup auto-shutdown, monitor health, and run a script. A 'Next steps' section suggests Go to resource or Create another VM. To the right, there are links for Cost Management, Microsoft Defender for Cloud, Free Microsoft tutorials, Work with an expert, and Activate Windows.

The screenshot shows the Microsoft Azure portal with the overview of the virtual machine 'Web-Server-C'. The main pane displays the 'Essentials' section with details like Resource group, Status, Location, Subscription, and Tags. The 'Properties' tab is selected, showing the 'Virtual machine' properties such as Computer name, Operating system, Image publisher, and Agent status. The 'Networking' tab shows network interface details. The 'Size' tab indicates the VM size as Standard D2s v3. A sidebar on the left provides navigation links for Activity log, Access control (IAM), Tags, Diagnose and solve problems, Networking, Connect, Disks, Size, Microsoft Defender for Cloud, Advisor recommendations, Extensions + applications, Availability + scaling, Configuration, Identity, Properties, Locks, and 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

Size: Standard D2s v3

vCPUs: 2

RAM: 8 GiB

Disk:

- OS disk: Web-Server-C_disk1_de48a2ac59aa4c228aebbc324ee0991e
- Encryption at host: Disabled
- Azure disk encryption: Not enabled
- Ephemeral OS disk: N/A
- Data disks: 0

Availability + scaling:

- Availability zone (edit): 1
- Availability set: -
- Scale Set: -

Auto-shutdown:

- Auto-shutdown: Not enabled
- Scheduled shutdown: -

Azure Spot:

- Azure Spot: -
- Azure Spot eviction policy: -

Security type:

- Security type: Trusted launch
- Enable secure boot: Enabled
- Enable vTPM: Enabled
- Integrity monitoring: Disabled

Extensions + applications:

- Extensions: -
- Applications: -

Activate Windows: Go to Settings to activate Windows.

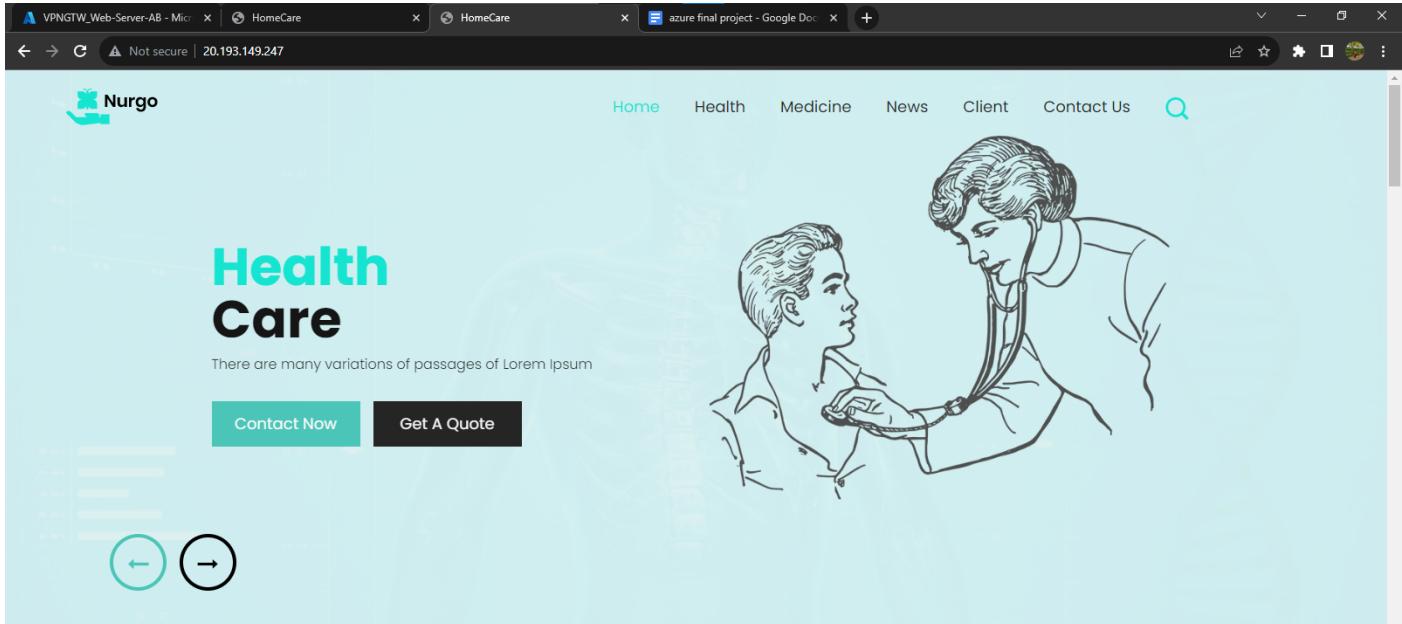
Running the pem file in command prompt and adding the required files to host the website

```
Microsoft Windows [Version 10.0.19042.1415]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user> ssh -i C:\Users\user\Sam-Key.pem Samiksha_Desai@51.116.128.154
```

Properties	Operating system	Linux (Ubuntu 22.04)
Image publisher	canonical	Public IP address (IPv6) - Activate Windows
Image offer	0001-com-ubuntu-server-jammy	Private IP address 192.168.0.4
Image plan	22_04-lts-gen2	Private IP address (IPv6) - Activate Windows

Here the Website is Hosted



Best Of Health care for you

Activate Windows
Go to Settings to activate Windows.

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

Activate Windows
Go to Settings to activate Windows.
Give feedback

Create a virtual machine

Size * Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹6,592.97/month)

Administrator account

Authentication type SSH public key Password

Username * Samiksha_Desai

SSH public key source Generate new key pair

Key pair name * Sam_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

Select inbound ports * HTTPS (443), SSH (22)

Review + create < Previous Next: Disks > Activate Windows Go to Settings to activate Windows Give feedback

Assigning Same Virtual Network to the same regional vm's

Create a virtual machine

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

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

Learn more [View](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network * Network_of_Web-Server-C [Create new](#)

Subnet * Sub-Network_of_Web-Server-C (192.168.0.0/24) [Manage subnet configuration](#)

Public IP * (new) Web-Server-D-ip [Create new](#)

NIC network security group None Basic Advanced

Public inbound ports * None Allow selected ports

Select inbound ports * HTTPS (443), SSH (22)

Review + create < Previous Next: Management > Activate Windows Go to Settings to activate Windows Give feedback

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) samudesa3009@gmail.com DEFAULT DIRECTORY (AMADEUS)

Home > Virtual machines > Create a virtual machine

Public inbound ports * None Allow selected ports Select inbound ports * HTTPS (443), SSH (22)

Advanced

Warning: 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 Application gateway

Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.
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 - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) samudesa3009@gmail.com DEFAULT DIRECTORY (AMADEUS)

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 - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

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. Please use [Pricing calculator](#) for all your pricing needs.

Price
1 X Standard D2s v3 by Microsoft Subscription credits apply 9.0315 INR/hr Terms of use Privacy policy 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 samudesa3009@gmail.com

Create < Previous Next > Download a template for automation

Activate Windows Go to Settings to activate Windows Give feedback

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) 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

Disk

Create < Previous Next > Download a template for automation

Activate Windows Go to Settings to activate Windows Give feedback

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) samudesa3009@gmail.com 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

Activate Windows Go to Settings to activate Windows Give feedback

Create < Previous Next > Download a template for automation

Create a virtual machine - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Search resources, services, and docs (G+) samudesa3009@gmail.com 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)

Activate Windows Go to Settings to activate Windows Give feedback

Create < Previous Next > Download a template for automation

Downloading Private Key and Creating Resources

Validation passed

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)
Sam	7 (Disk)
Sam	7 (Network interface)

Activate Windows
Go to Settings to activate Windows.
Give feedback

Deployment of fourth VM is Completed

Deployment succeeded

Deployment 'CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021215322' to resource group 'Resources_of_Project' was successful.

Deployment name: CreateVm-canonical.0001-com-ubuntu-server-j... Start time: 10/21/2023, 10:00:26 PM
Subscription: Azure for Students Correlation ID: 3c2158be-3450-48d9-8001-7669ea096c4

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 >

Activate Windows
Go to Settings to activate Windows.

Web-Server-D - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#@samudesa3009@gmail.onmicrosoft.com/resource/subscriptions/63bb78a9-4754-4427-8a89-76d313f98dd7/resourcegroups/Resources_of_Project/providers/Microsoft.Compute/virtualMachines/Web-Server-D

Microsoft Azure Search resources, services, and docs (G+)

Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021215322 | Overview >

Web-Server-D Virtual machine

Connect Start 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

Resource group : Resources of Project Status : Running Location : Germany West Central (Zone 2) Subscription : Azure for Students Subscription ID : 63bb78a9-4754-4427-8a89-76d313f98dd7 Availability zone : 2 Tags : 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
vCPUs	2

Activate Windows Go to Settings to activate Windows.

JSON View

Web-Server-D - Microsoft Azure v.net to v.net peering - Google Docs Untitled document - Google Docs

portal.azure.com/#@samudesa3009@gmail.onmicrosoft.com/resource/subscriptions/63bb78a9-4754-4427-8a89-76d313f98dd7/resourcegroups/Resources_of_Project/providers/Microsoft.Compute/virtualMachines/Web-Server-D

Microsoft Azure Search resources, services, and docs (G+)

Home > CreateVm-canonical.0001-com-ubuntu-server-jammy-2-20231021215322 | Overview >

Web-Server-D Virtual machine

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

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

Availability + scaling

Availability zone (edit)	2
Availability set	-
Scale Set	-

Auto-shutdown

Auto-shutdown	Not enabled
Scheduled shutdown	-

Security type

Security type	Trusted launch
Enable secure boot	Enabled
Enable vTPM	Enabled
Integrity monitoring	Disabled

Azure Spot

Azure Spot	-
Azure Spot eviction policy	-

Extensions + applications

Extensions	-
Applications	-

Activate Windows Go to Settings to activate Windows.

In this Way We Have Created Four Virtual Machines

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'Virtual machines - Microsoft Azure', 'v.net to v.net peering - Google', and 'Untitled document - Google Doc'. The main title is 'Virtual machines' under 'Microsoft Azure'. A search bar at the top right says 'Search resources, services, and docs (G+)'. Below the search bar are various management buttons: '+ Create', 'Switch to classic', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', 'Start', 'Restart', 'Stop', 'Delete', 'Services', 'Maintenance'. There are also filter options: 'Filter for any field...', 'Subscription equals all', 'Type equals all', 'Resource group equals all', 'Location equals all', and '+ Add filter'. The results table shows four entries:

Name	Type	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disk
Web-Server-A	Virtual machine	Azure for Students	Resources_of_Project	Italy North	Running	Windows	Standard_D2s_v3	4.232.64.201	1
Web-Server-B	Virtual machine	Azure for Students	Resources_of_Project	Italy North	Running	Windows	Standard_D2s_v3	4.232.128.30	1
Web-Server-C	Virtual machine	Azure for Students	Resources_of_Project	Germany West Central	Running	Linux	Standard_D2s_v3	20.52.185.81	1
Web-Server-D	Virtual machine	Azure for Students	Resources_of_Project	Germany West Central	Running	Linux	Standard_D2s_v3	98.67.161.251	1

At the bottom, there are navigation buttons: '< Previous', 'Page 1 of 1', and 'Next >'. On the right side, there is a 'Activate Windows' message: 'Activate Windows Go to Settings to activate Windows.' and a 'Give feedback' link.

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

The screenshot shows the 'Add peering' configuration page in the Microsoft Azure portal. The top navigation bar includes tabs for 'Add peering - Microsoft Azure', 'v.net to v.net peering - Google', and 'Untitled document - Google Doc'. The main title is 'Add peering' under 'Network_of_Web-Server-A | Peerings'. A search bar at the top right says 'Search resources, services, and docs (G+)'. Below the search bar are various configuration fields and checkboxes:

- This virtual network:**
 - Peering link name ***: Network_of_Web-Server-AB-Peering
 - Allow 'Network_of_Web-Server-A' to access 'Network_of_Web-Server-C'
 - Allow 'Network_of_Web-Server-A' to receive forwarded traffic from 'Network_of_Web-Server-C'
 - Allow gateway in 'Network_of_Web-Server-A' to forward traffic to 'Network_of_Web-Server-C'
 - Enable 'Network_of_Web-Server-A' to use 'Network_of_Web-Server-C's remote gateway
- Remote virtual network:**
 - Peering link name ***: Network_of_Web-Server-CD-Peering
 - Virtual network deployment model**:
 - Resource manager
 - Classic
 - I know my resource ID
- Subscription ***: Add

On the right side, there is a 'Activate Windows' message: 'Activate Windows Go to Settings to activate Windows.' and a 'Give feedback' link.

Add peering

Network_of_Web-Server-A

Allow 'Network_of_Web-Server-A' to receive forwarded traffic from 'Network_of_Web-Server-C' (Optional)

Allow gateway in 'Network_of_Web-Server-A' to forward traffic to 'Network_of_Web-Server-C' (Optional)

Enable 'Network_of_Web-Server-A' to use 'Network_of_Web-Server-C's remote gateway (Optional)

Remote virtual network

Peering link name *

Network_of_Web-Server-CD-Peering

Virtual network deployment model (Optional)

Resource manager

Classic

I know my resource ID (Optional)

Subscription * (Optional)

Azure for Students

Virtual network * (Optional)

Network_of_Web-Server-C

Allow 'Network_of_Web-Server-C' to access 'Network_of_Web-Server-A' (Optional)

Allow 'Network_of_Web-Server-C' to receive forwarded traffic from 'Network_of_Web-Server-A' (Optional)

Allow gateway in 'Network_of_Web-Server-C' to forward traffic to 'Network_of_Web-Server-A' (Optional)

Enable 'Network_of_Web-Server-C' to use 'Network_of_Web-Server-A's remote gateway (Optional)

Add

Activate Windows
Go to Settings to activate Windows.

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

Microsoft Azure

Search resources, services, and docs (G+)

Home > Virtual networks > Network_of_Web-Server-A

Network_of_Web-Server-A | Peerings

Virtual network

Create Manage view ...

Filter for any field...

Name ↑

- Network_of_Web-Server-A ...
- Network_of_Web-Server-C ...

Settings

- Address space
- Connected devices
- Subnets
- Bastion
- DDoS protection
- Firewall
- Microsoft Defender for Cloud
- Network manager
- DNS servers
- Peerings**
- Service endpoints
- Private endpoints
- Properties

Search

+ Add Refresh Sync

Filter by name... Peering status == all

Name	Peer	Gateway transit
Network_of_Web-Server-AB-Peering	Network_of_Web-Server-C	Enabled

Page 1 of 1

Activate Windows
Go to Settings to activate Windows.

Give feedback

Network_of_Web-Server-C | Peerings

Name	Peer	Gateway transit
Network_of_Web-Server-CD-Peering	Network_of_Web-Server-A	Enabled

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

Network_of_Web-Server-A | Subnets

Add subnet

Name	IPv4	IPv6
Sub-Network_of_Web...	172.22.0.0/24	-

GatewaySubnet

Subnet address range: 172.22.1.0/24 (172.22.1.0 - 172.22.1.255 (251 + 5 Azure reserved addresses))

NAT gateway: None

Network security group: None

Route table: None

SERVICE ENDPOINTS

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. [Learn more](#)

Services: 0 selected

SUBNET DELEGATION

Delegate subnet to a service: None

Activate Windows

Go to Settings to activate Windows. [Give feedback](#)

Network_of_Web-Server-A | Subnets

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
Sub_Network_of_Web...	172.22.0.0/24	-	249	-	-	-
GatewaySubnet	172.22.1.0/24	-	availability dependent ...	-	-	-

Adding Gateway Subnet to the Network of Web Server CD

Add subnet

Name: GatewaySubnet

Subnet address range: 192.168.1.0/24 (192.168.1.0 - 192.168.1.255 (251 + 5 Azure reserved addresses))

NAT gateway: None

Network security group: None

Route table: None

SERVICE ENDPOINTS: Create service endpoint policies to allow traffic to specific Azure resources from your virtual network over service endpoints. Learn more.

Services: 0 selected

SUBNET DELEGATION: Delegate subnet to a service. Activate Windows Go to Settings to activate Windows.

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

The screenshot shows the 'Create virtual network gateway' wizard in the Azure portal. The 'Basics' tab is selected. The form fields are as follows:

- Subscription:** Azure for Students
- Resource group:** Resources_of_Project (derived from virtual network's resource group)
- Name:** VPNGTW_of_Web-Server-AB
- Region:** Italy North
- Gateway type:** VPN (selected)
- SKU:** VpnGw1
- Generation:** Generation1
- Virtual network:** Network_of_Web-Server-A (selected)
- Subnet:** GatewaySubnet (172.22.1.0/24)

At the bottom, there are buttons for 'Review + create', 'Previous', 'Next : Tags >', and 'Download a template for automation'. A note on the right says 'Activate Windows Go to Settings to activate Windows.'

The screenshot shows the 'Create virtual network gateway' wizard in the Azure portal. The 'Public IP address' tab is selected. The form fields are as follows:

- Gateway type:** VPN (selected)
- SKU:** VpnGw1
- Generation:** Generation1
- Virtual network:** Network_of_Web-Server-A (selected)
- Subnet:** GatewaySubnet (172.22.1.0/24)
- Public IP address:** Create new (selected)
- Public IP address name:** IP-address_of_VPN_GW_of_Web-Server-AB
- Public IP address SKU:** Standard
- Assignment:** Static (selected)
- Enable active-active mode:** Disabled (selected)
- Configure BGP:** Disabled (selected)

A note at the bottom left says 'Only virtual networks in the currently selected subscription and region are listed.' At the bottom, there are buttons for 'Review + create', 'Previous', 'Next : Tags >', and 'Download a template for automation'. A note on the right says 'Activate Windows Go to Settings to activate Windows.'

Adding Tags to our Virtual Network Gateways

The screenshot shows the Azure portal interface for creating a virtual network gateway. The 'Tags' tab is active. A single tag named 'Sam' is defined with the value '7'. The 'Review + create' button at the bottom left is highlighted in blue.

Validation Passed and Created

The screenshot shows the Azure portal interface after the validation process. A green banner at the top indicates 'Validation passed'. The 'Review + create' button at the bottom left is highlighted in blue.

Basics

Subscription	Azure for Students
Resource group	Resources_of_Project
Name	VPNGTW_of_Web-Server-AB
Region	Italy North
SKU	VpnGw1
Generation	Generation1
Virtual network	Network_of_Web-Server-A
Subnet	GatewaySubnet (172.22.1.0/24)
Gateway type	Vpn
VPN type	RouteBased
Enable active-active mode	Disabled
Configure BGP	Disabled
Public IP address	IP-address_of_VPNTGW_of_Web-Server-AB

Tags

Sam	7
-----	---

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

The screenshot shows the 'Create virtual network gateway' wizard in the Azure portal. The 'Basics' tab is selected. The configuration includes:

- Subscription:** Azure for Students
- Resource group:** Resources_of_Project (derived from virtual network's resource group)
- Name:** VPNGTW_of_Web-Server-CD
- Region:** Germany West Central
- Gateway type:** VPN (selected)
- SKU:** VpnGw1
- Generation:** Generation1
- Virtual network:** Network_of_Web-Server-C (selected)
- Subnet:** GatewaySubnet (192.168.1.0/24)

At the bottom, there are buttons for 'Review + create', 'Previous', 'Next : Tags >', and 'Download a template for automation'. A note on the right says 'Activate Windows Go to Settings to activate Windows.'

The screenshot shows the 'Create virtual network gateway' wizard in the Azure portal. The 'Public IP address' section is visible. The configuration includes:

- Gateway type:** VPN (selected)
- SKU:** VpnGw1
- Generation:** Generation1
- Virtual network:** Network_of_Web-Server-C (selected)
- Subnet:** GatewaySubnet (192.168.1.0/24)

A note at the bottom left says 'Only virtual networks in the currently selected subscription and region are listed.'

The 'Public IP address' section contains the following fields:

- Public IP address:** Create new (selected)
- Public IP address name:** IP-address_of_VPN_GW_of_Web-Server-CD
- Public IP address SKU:** Standard
- Assignment:** Static (selected)
- Enable active-active mode:** Disabled (selected)
- Configure BGP:** Disabled (selected)

At the bottom, there are buttons for 'Review + create', 'Previous', 'Next : Tags >', and 'Download a template for automation'. A note on the right says 'Activate Windows Go to Settings to activate Windows.'

Create virtual network gateway... Untitled document - Google Docs

portal.azure.com/#create/Microsoft.VirtualNetworkGateway-ARM

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual network gateways > Create virtual network gateway ...

Basics Tags Review + create

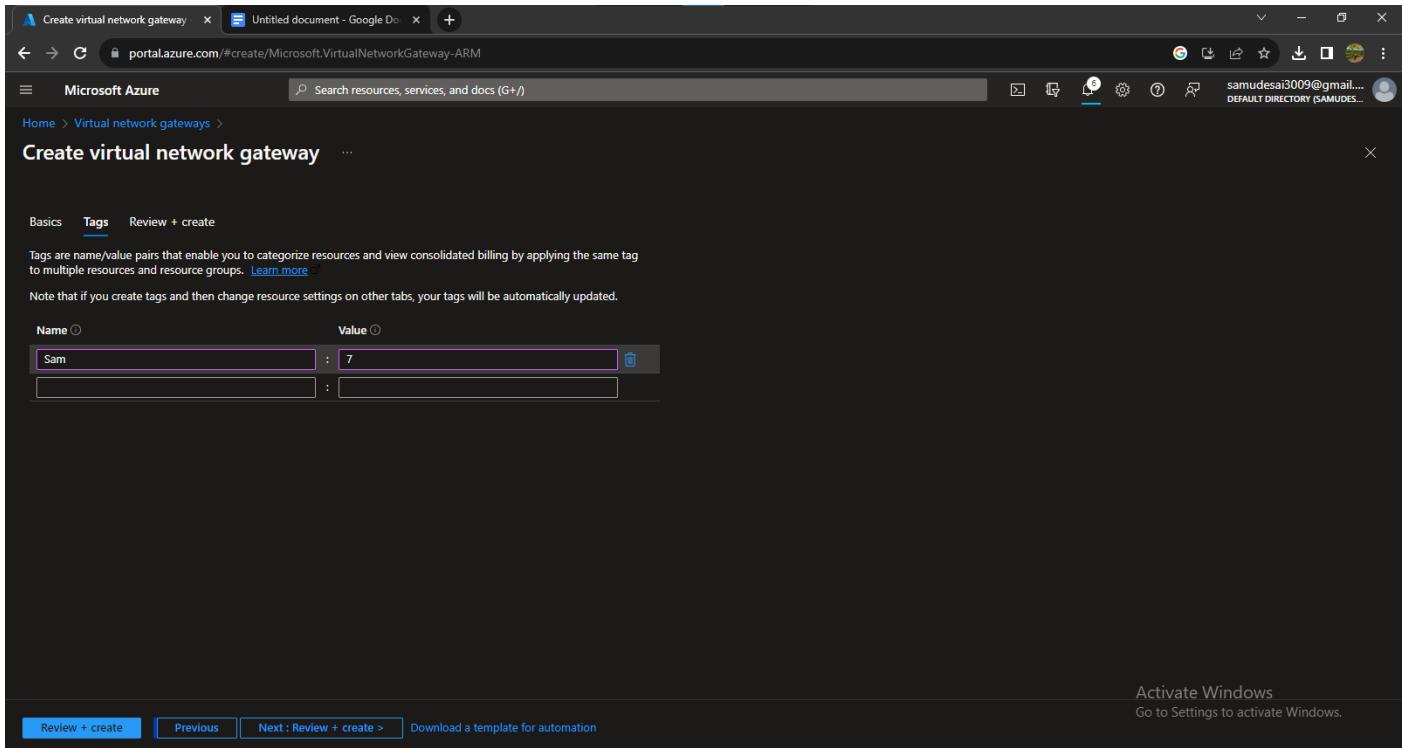
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more](#)

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 Docs

portal.azure.com/#create/Microsoft.VirtualNetworkGateway-ARM

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual network gateways > Create virtual network gateway ...

Validation passed

Basics Tags Review + create

Basics

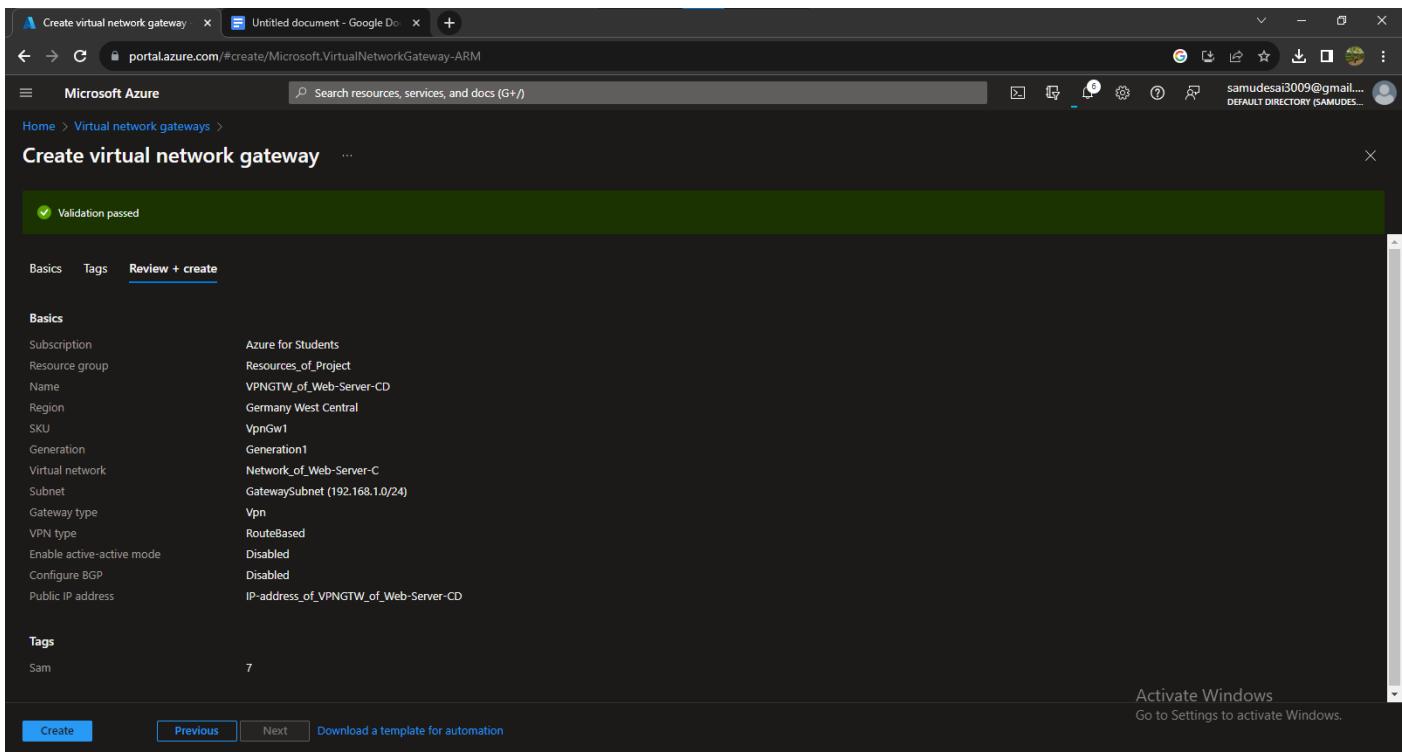
Subscription	Azure for Students
Resource group	Resources_of_Project
Name	VPNGTW_of_Web-Server-CD
Region	Germany West Central
SKU	VpnGw1
Generation	Generation1
Virtual network	Network_of_Web-Server-C
Subnet	GatewaySubnet (192.168.1.0/24)
Gateway type	Vpn
VPN type	RouteBased
Enable active-active mode	Disabled
Configure BGP	Disabled
Public IP address	IP-address_of_VPNTGW_of_Web-Server-CD

Tags

Sam	7
-----	---

Activate Windows Go to Settings to activate Windows.

Create Previous Next Download a template for automation



Here We Have Created Virtual Private Network Gateways for Both Networks

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'Virtual network gateways' and 'Untitled document - Google Doc'. The main content area is titled 'Virtual network gateways' and displays two entries:

Name	Virtual ...	Gateway ...	Resource group	Location	Subscription
VPNGTW_of_Web-Server-AB	Network_of... Vpn	Resources_of_Project	Italy North	Azure for Students	
VPNGTW_of_Web-Server-CD	Network_of... Vpn	Resources_of_Project	Germany West Central	Azure for Students	

Below the table, there are pagination controls ('Page 1 of 1') and a feedback link ('Give feedback').

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

The screenshot shows the 'Create connection' blade in the Microsoft Azure portal. The top navigation bar includes tabs for 'Create connection - Microsoft A' and 'Untitled document - Google Doc'. The main content area is titled 'Create connection' and shows the 'Basics' tab selected.

Project details

- Subscription: Azure for Students
- Resource group: Resources_of_Project

Instance details

- Connection type: VNet-to-VNet
- Establish bidirectional connectivity: Checked
- First connection name: VPNGTW_of_Web-Server-CD-Connection
- Second connection name: To-VPNGTW_of_Web-Server-AB
- Region: Germany West Central

At the bottom, there are buttons for 'Review + create', 'Previous', 'Next : Settings >', and 'Download a template for automation'. There is also an 'Activate Windows' link at the bottom right.

Create connection - Microsoft A Untitled document - Google Doc portal.azure.com/#view/Microsoft_Azure_HybridNetworking/CreateConnectionBladeV2

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual network gateways > VPNGTW_of_Web-Server-CD | Connections > Create connection

Virtual network gateway

To use a virtual network with a connection, it must be associated to a virtual network gateway.

First virtual network gateway * ○ VPNGTW_of_Web-Server-CD

Second virtual network gateway * ○ VPNGTW_of_Web-Server-AB

Shared key (PSK) * ○

IKE Protocol ○ IKEv1 IKEv2

Use Azure Private IP Address

Enable BGP

FastPath

IPSec / IKE policy ○ Default Custom

Use policy based traffic selector ○ Enable Disable

DPD timeout in seconds * ○ 45

Connection Mode ○ Default InitiatorOnly ResponderOnly

Activate Windows Go to Settings to activate Windows.

Review + create Previous Next : Tags > Download a template for automation

This screenshot shows the 'Create connection' blade in the Microsoft Azure portal. It's a step-by-step wizard for creating a Site-to-Site VPN connection. The current step is 'Settings'. The configuration includes selecting two virtual network gateways (VPNGTW_of_Web-Server-CD and VPNGTW_of_Web-Server-AB), setting the shared key (PSK), choosing IKEv2 as the protocol, and specifying a DPD timeout of 45 seconds. Other options like BGP and FastPath are disabled. At the bottom, there are navigation buttons for 'Review + create', 'Previous', 'Next : Tags >', and 'Download a template for automation'.

Adding Tags to the Connection

Create connection - Microsoft A Untitled document - Google Doc portal.azure.com/#view/Microsoft_Azure_HybridNetworking/CreateConnectionBladeV2

Microsoft Azure Search resources, services, and docs (G+)

Home > Virtual network gateways > VPNGTW_of_Web-Server-CD | Connections > Create connection

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 ○	Resource
Sam	: 7	Connection
[]	: []	Connection

Activate Windows Go to Settings to activate Windows.

Review + create Previous Next : Review + create > Download a template for automation

This screenshot shows the 'Create connection' blade in the Microsoft Azure portal, specifically the 'Tags' section. It allows users to add name-value pairs to categorize resources. A single tag 'Sam' with value '7' is listed under the 'Resource' column. Navigation buttons at the bottom include 'Review + create', 'Previous', 'Next : Review + create >', and 'Download a template for automation'.

Here Validation is Passed for the Connection

The screenshot shows the Azure portal interface for creating a connection. At the top, there are tabs for 'Create connection - Microsoft A' and 'Untitled document - Google Doc'. The main title is 'Create connection' with a 'Validation passed' message. Below this, there are two tabs: 'Basics' (selected) and 'Review + create'. The 'Basics' section contains configuration details:

Subscription	Azure for Students
Resource group	Resources_of_Project
Region	Germany West Central
Connection type	VNet-to-VNet
Establish bidirectional connectivity	Yes
First connection name	VPNGTW_of_Web-Server-CD-Connection
Second connection name	To-VPNGTW_of_Web-Server-AB

The 'Settings' section includes:

First virtual network gateway	VPNGTW_of_Web-Server-CD
Second virtual network gateway	VPNGTW_of_Web-Server-AB
IKE Protocol	IKEv2
IPSec / IKE policy	Default
Use policy based traffic selector	Disable
DPD timeout in seconds	45
Connection Mode	Default
Shared key (PSK)	Sam-psk

At the bottom, there are buttons for 'Create', 'Previous', 'Next', and 'Download a template for automation'. A right-hand sidebar displays the message 'Activate Windows'.

The screenshot shows the Azure portal interface for a deployment named 'NoMarketplace-20231021233001'. The left sidebar has a tree view with 'Overview' selected. The main area displays deployment details:

Deployment is in progress

Deployment name : NoMarketplace-20231021233001	Start time : 10/21/2023, 11:33:27 PM
Subscription : Azure for Students	Correlation ID : ef50a1b9-5cee-4b6c-b4a6-de580573dcd2
Resource group : Resources_of_Project	

Deployment details

Resource	Type	Status	Operation details
VPNGTW_of_Web-Server-CD-Connection	Connection	Created	Operation details
To-VPNGTW_of_Web-Server-AB	Connection	Created	Operation details

On the right side, there are promotional banners for Microsoft Defender for Cloud, Microsoft tutorials, and Azure experts. A right-hand sidebar displays the message 'Activate Windows'.

NoMarketplace-20231021233001 | Overview

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

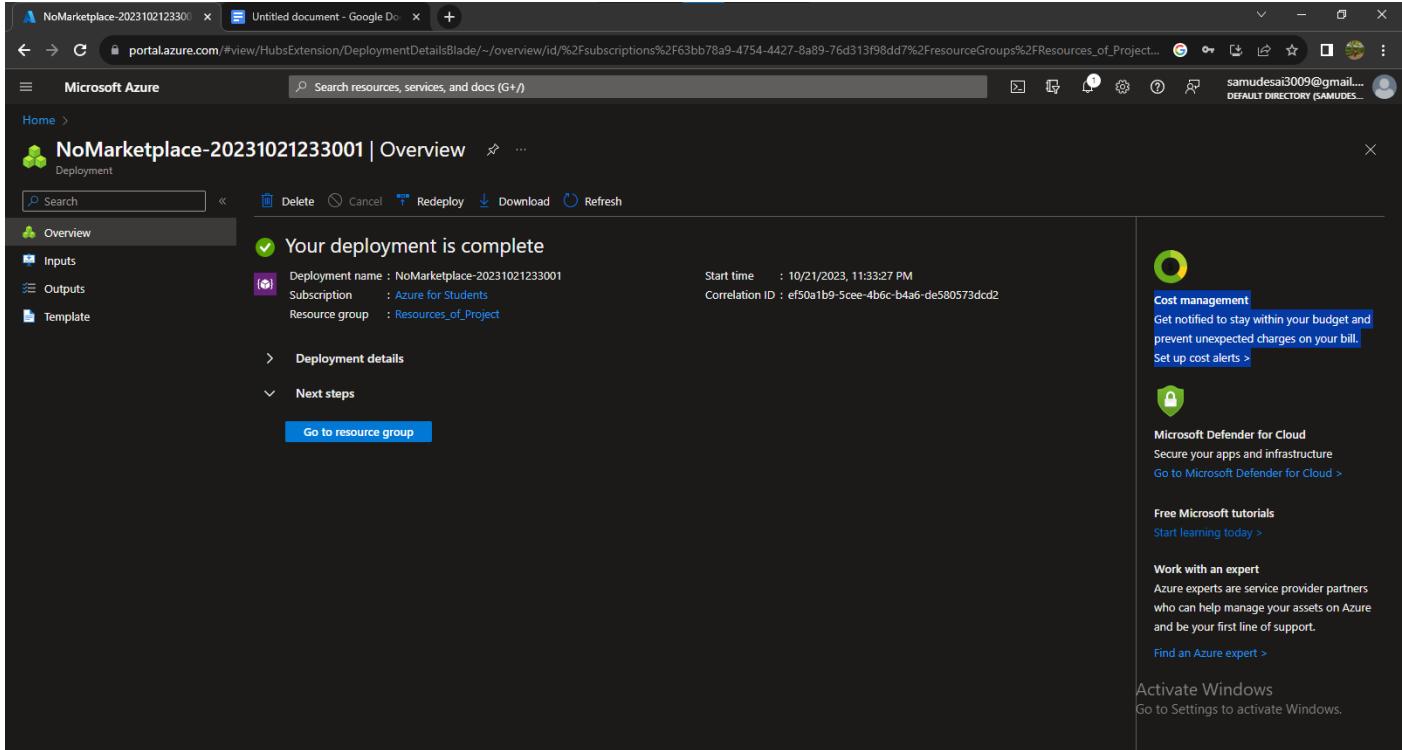
Start learning today >

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

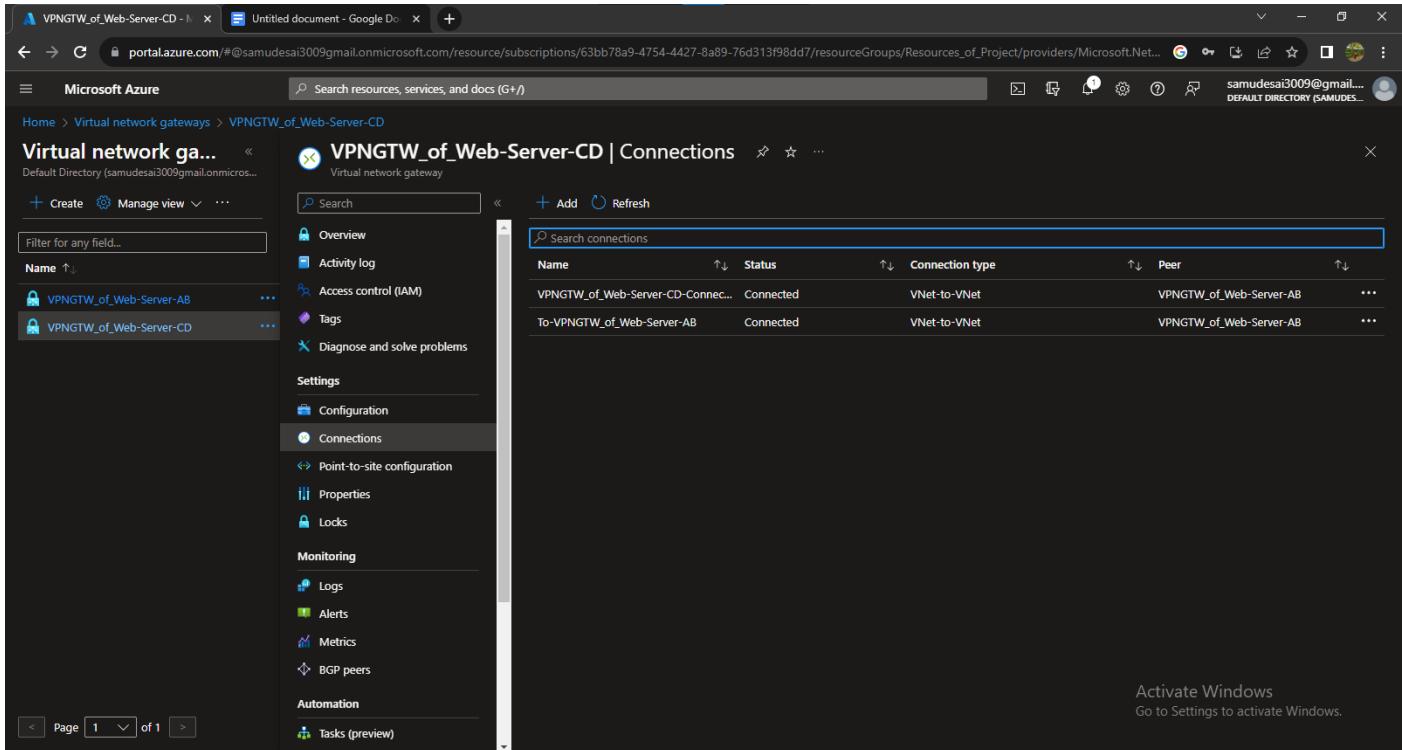
VPNGTW_of_Web-Server-CD

Add Refresh

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

Page 1 of 1

Activate Windows
Go to Settings to activate Windows.



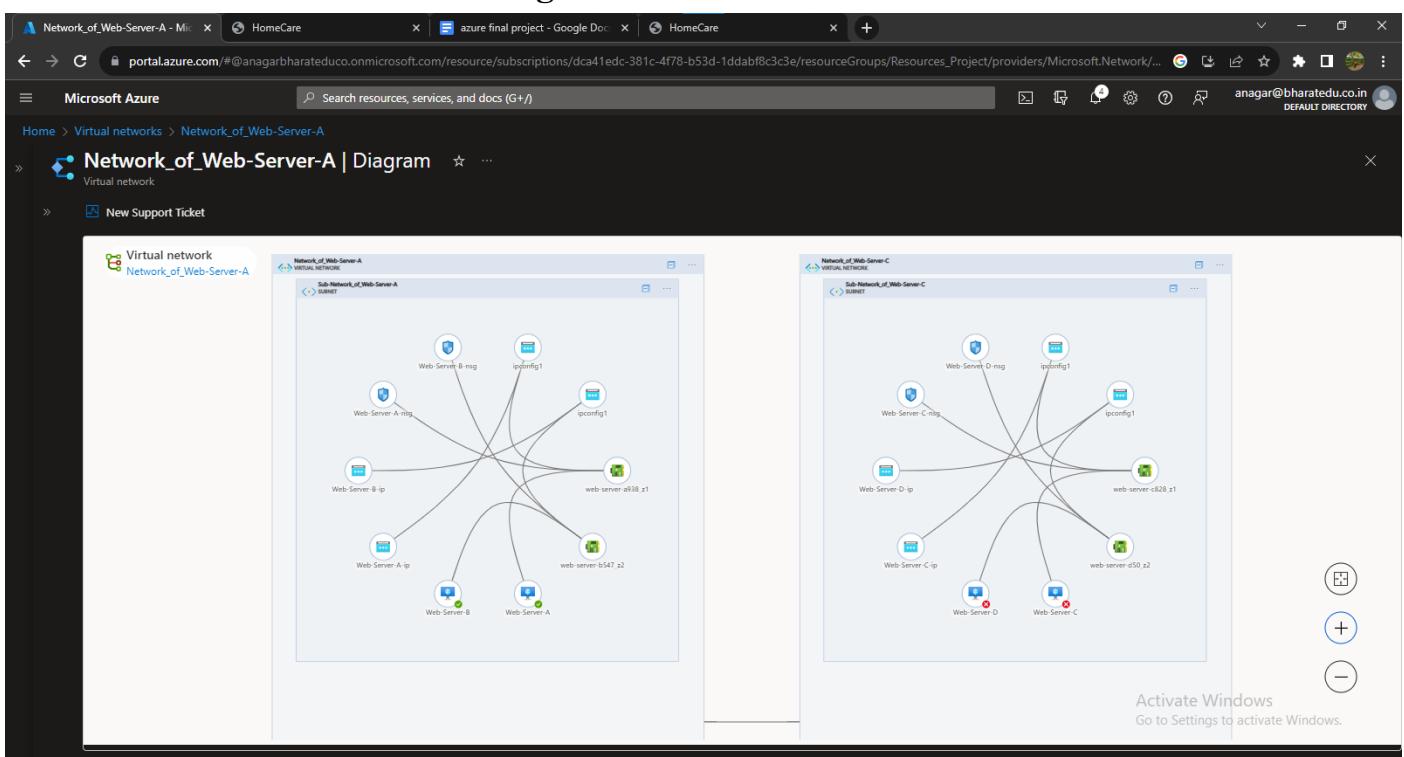
In this way We Have Connected Virtual Private Network Gateway of Web Server CD and Virtual Private Network Gateway of Web Server AB Bidirectionally.

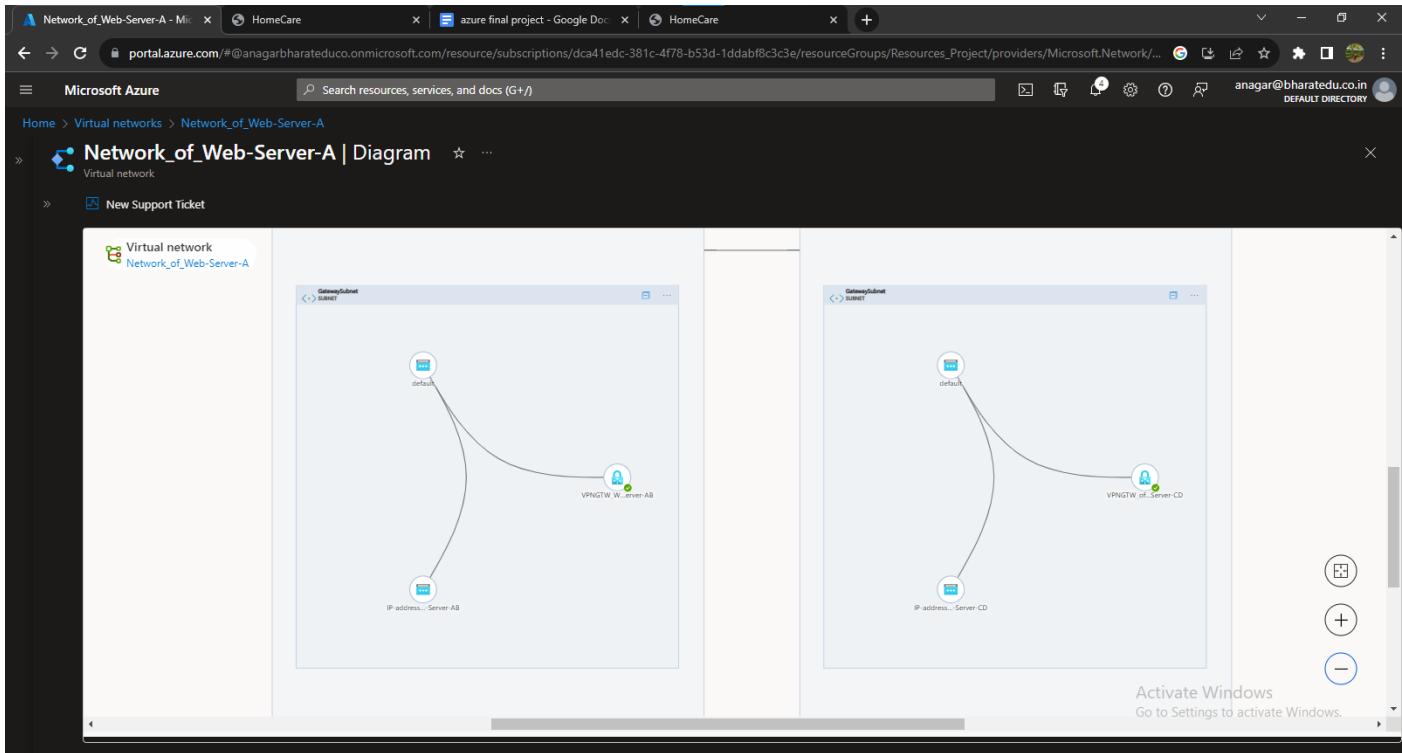
Microsoft Azure

VPNGTW_of_Web-Server-AB | Connections

Name	Status	Connection type	Peer
VPNGTW_of_Web-Server-CD-Connec...	Connected	VNet-to-VNet	VPNGTW_of_Web-Server-CD
To-VPNGTW_of_Web-Server-AB	Connected	VNet-to-VNet	VPNGTW_of_Web-Server-CD

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

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 *	Resources_Project

Instance details

Storage account name	project7storage
Region	(Asia Pacific) Central India

Deploy to an edge zone

Review < Previous **Next : Advanced >**

Activate Windows
Go to Settings to activate Windows.

Create a storage account - Microsoft Azure | HomeCare | HomeCare | portal.azure.com/#create/Microsoft.StorageAccount-ARM | azure final project - Google Docs

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

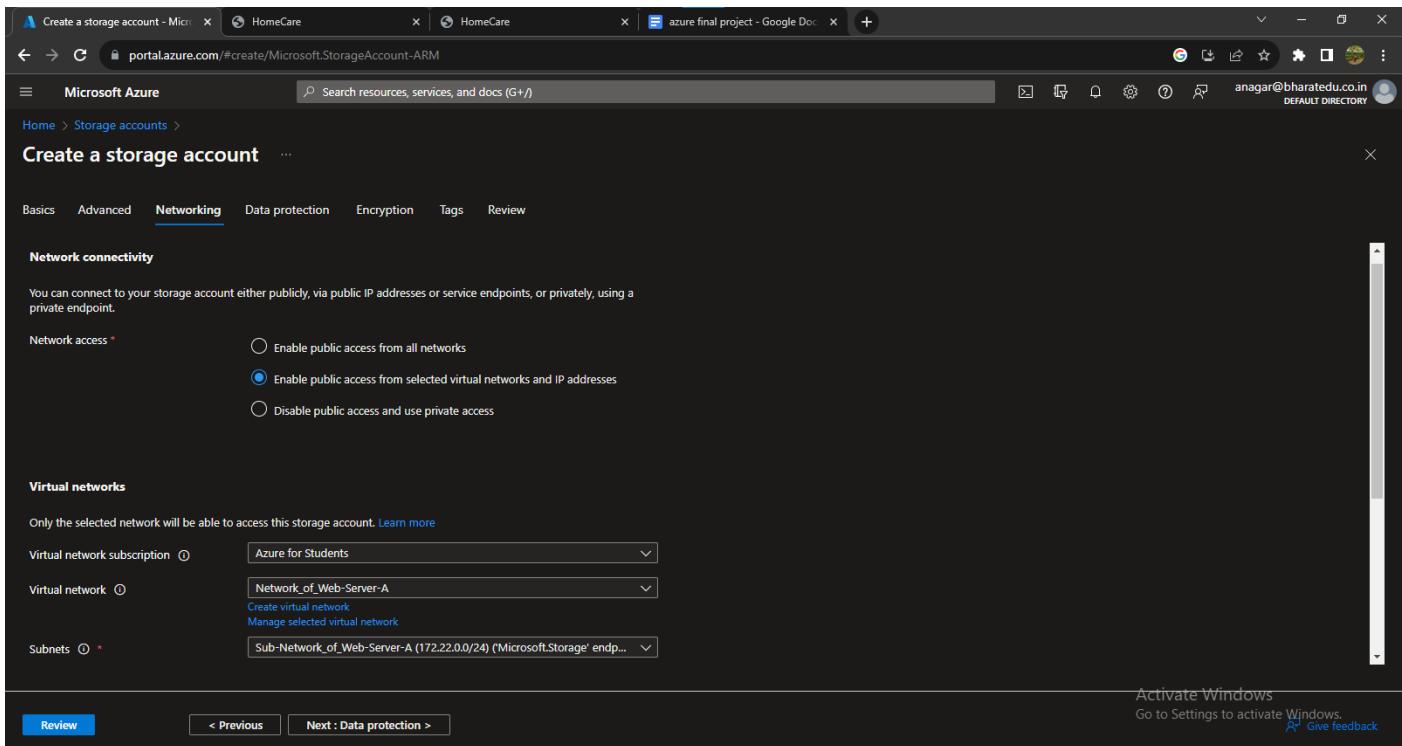
Virtual networks

Only the selected network will be able to access this storage account. [Learn more](#)

Virtual network subscription Virtual network Subnets

[Review](#) [< Previous](#) [Next : Data protection >](#)

Activate Windows Go to Settings to activate Windows. [Give feedback](#)



Create a storage account - Microsoft Azure | HomeCare | HomeCare | portal.azure.com/#create/Microsoft.StorageAccount-ARM | azure final project - Google Docs

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

Enable soft delete for containers
Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)

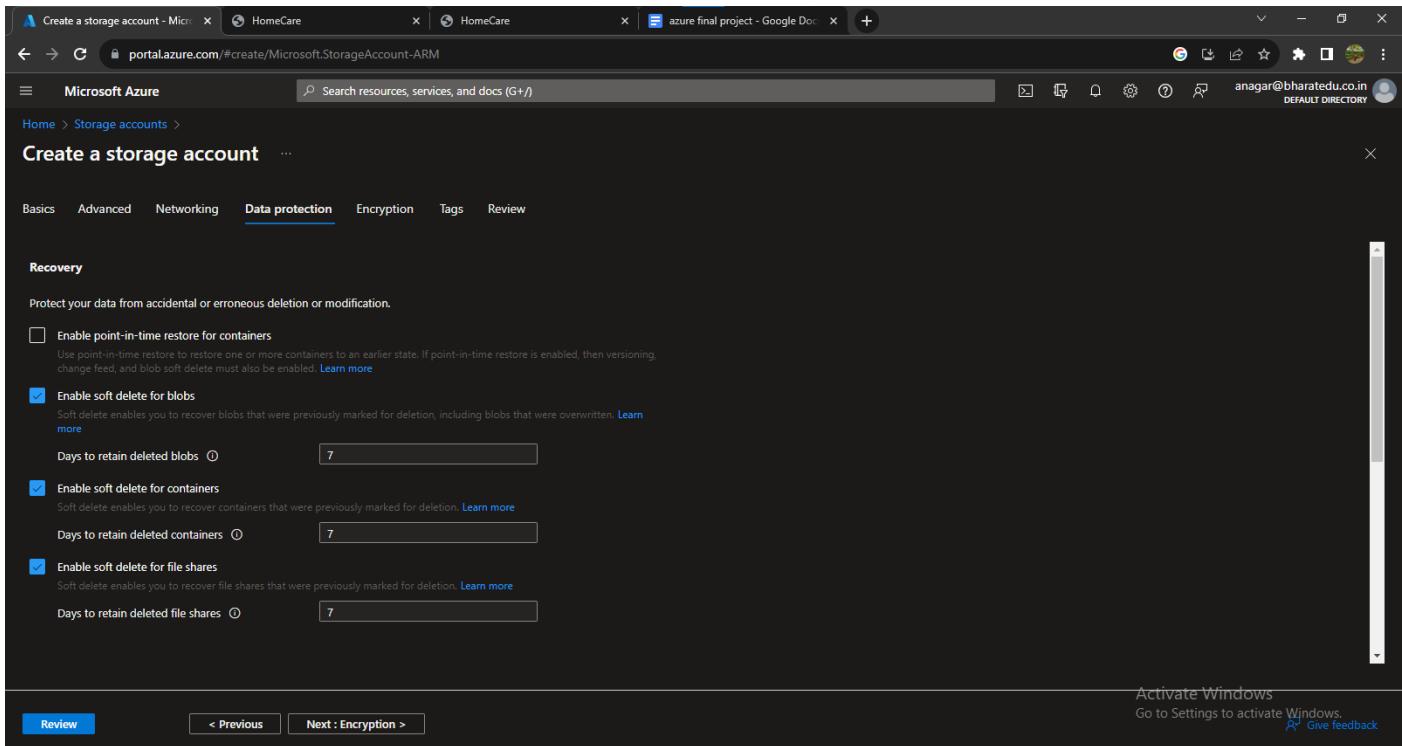
Days to retain deleted containers

Enable soft delete for file shares
Soft delete enables you to recover file shares that were previously marked for deletion. [Learn more](#)

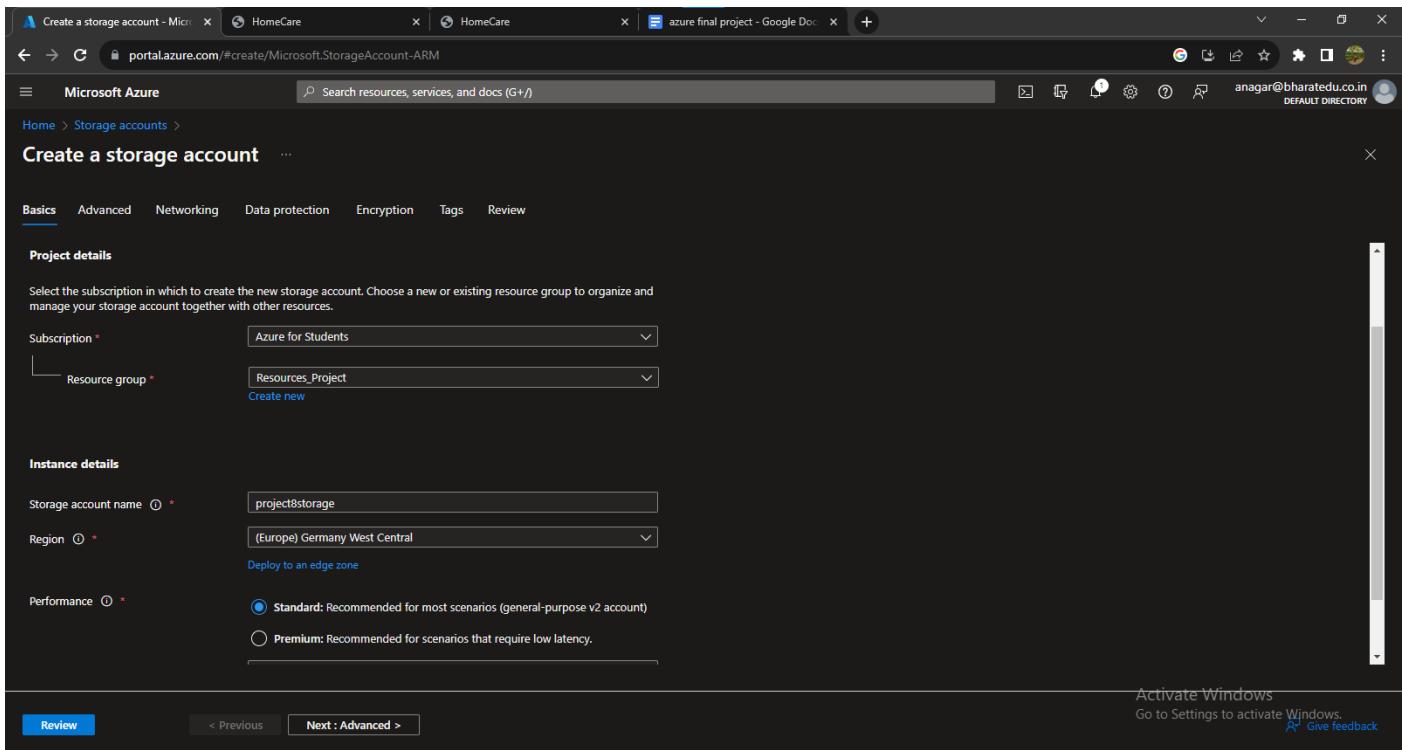
Days to retain deleted file shares

[Review](#) [< Previous](#) [Next : Encryption >](#)

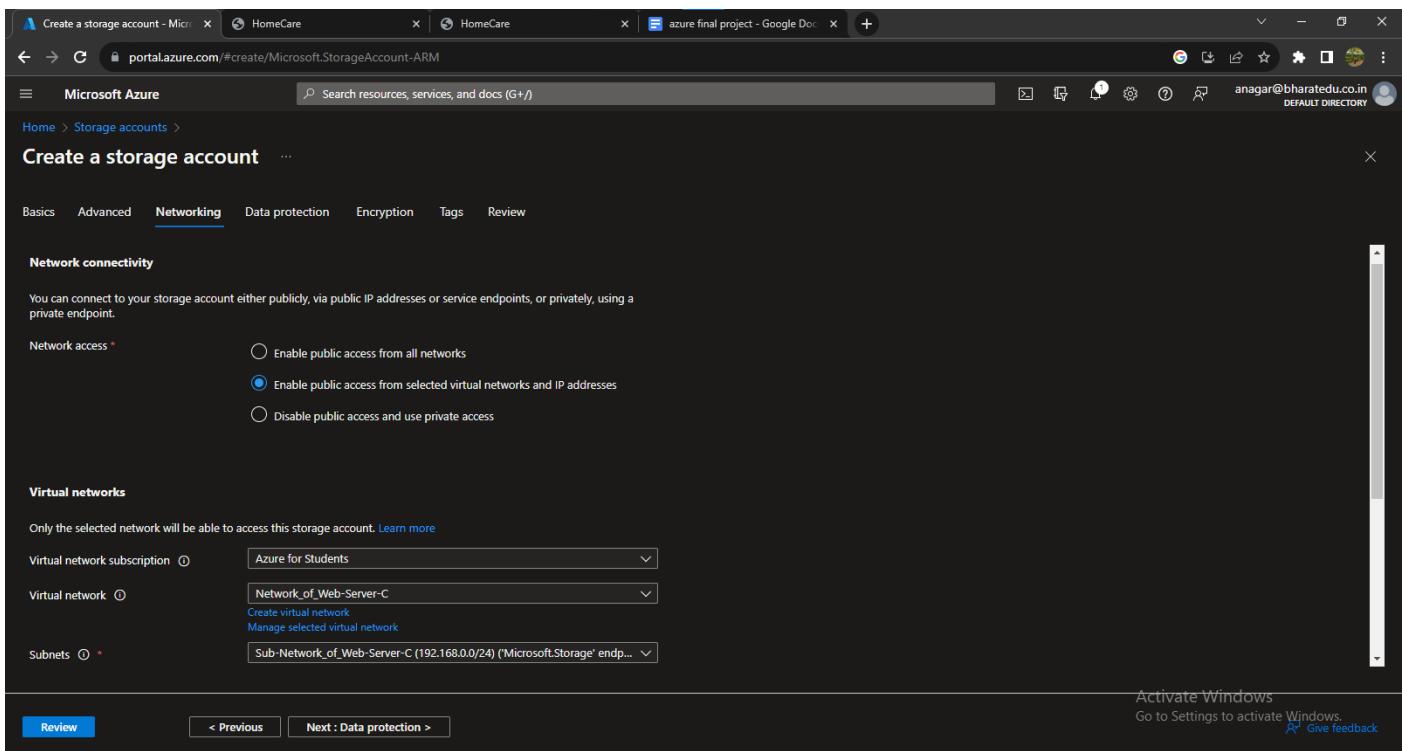
Activate Windows Go to Settings to activate Windows. [Give feedback](#)



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



The screenshot shows the 'Create a storage account' wizard on the Microsoft Azure portal. The current step is 'Basics'. The 'Subscription' dropdown is set to 'Azure for Students'. The 'Resource group' dropdown shows 'Resources_Project' with a 'Create new' option. The 'Storage account name' input field contains 'project8storage'. The 'Region' dropdown is set to '(Europe) Germany West Central'. Under 'Performance', the 'Standard' radio button is selected. At the bottom, there are 'Review' and 'Next : Advanced >' buttons.



The screenshot shows the 'Create a storage account' wizard on the Microsoft Azure portal. The current step is 'Networking'. Under 'Network connectivity', the 'Enable public access from selected virtual networks and IP addresses' radio button is selected. In the 'Virtual networks' section, the 'Virtual network subscription' dropdown is set to 'Azure for Students' and the 'Virtual network' dropdown shows 'Network_of_Web-Server-C' with options to 'Create virtual network' or 'Manage selected virtual network'. The 'Subnets' dropdown shows 'Sub-Network_of_Web-Server-C (192.168.0.0/24) ('Microsoft.Storage' endpoint)'. At the bottom, there are 'Review' and 'Next : Data protection >' buttons.

Adding a file in container of Storage Account

The screenshot shows the Microsoft Azure portal. The left sidebar navigation bar includes 'Storage accounts', 'Data storage', 'Security + networking', and 'Access keys'. The main content area displays the 'project8storage' storage account's overview. On the right, a modal window titled 'Upload blob' is open, showing a cloud icon and a message '1 Blob selected: 26_Stores'. It includes a 'Drag and drop files here or Browse for files' button and a dropdown menu for selecting an existing container ('container/project'). There are also options to 'Create new' and 'Overwrite if file already exist'. Below the modal, the 'Properties' tab of the storage account is visible, showing blob service settings like 'Hierarchical namespace: Disabled', 'Default access tier: Hot', and 'Blob anonymous access: Disabled'. The 'Security' tab is also partially visible.

The screenshot shows the Microsoft Azure portal's 'Storage accounts' list page. The top navigation bar includes 'Storage accounts', 'Create', 'Restore', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', and 'Delete'. The main content area lists three storage accounts: 'project8storage' (Storage V2, Resource_Group: Resources_Project, Location: Central India, Subscription: Azure for Students), 'project8storage' (Storage V2, Resource_Group: Resources_Project, Location: Germany West Central, Subscription: Azure for Students), and 'project8storage' (Storage V2, Resource_Group: Resources_Project, Location: Central India, Subscription: Azure for Students). The bottom of the page includes standard navigation buttons for 'Previous', 'Page 1 of 1', and 'Next >'. A 'Feedback' link is located at the bottom right.

STEP 10 - Creation of Translator from Azure AI Services.

The screenshot shows the Microsoft Azure portal with the URL portal.azure.com/#create/Microsoft.CognitiveServicesTextTranslation. The page title is "Create Translator". The "Basics" tab is selected. Under "Project Details", the "Subscription" is set to "Azure for Students" and the "Resource group" is "(New) Resources_of_Project". Under "Instance Details", there is an error message: "Please choose the Global region unless your business or application requires a specific region. Applications that do not offer a region selection use the Global region." The "Region" dropdown is set to "Central India", the "Name" is "IndianTranslator", and the "Pricing tier" is "Free F0 (Up to 2M characters translated per month)". At the bottom, there are "Previous", "Next", and "Review + create" buttons. A "Give feedback" link is also present.

Assigning network to the Translator.

The screenshot shows the Microsoft Azure portal with the URL portal.azure.com/#create/Microsoft.CognitiveServicesTextTranslation. The page title is "Create Translator". The "Network" tab is selected. A message at the top says "Configure network security for your Azure AI services resource." Under "Type", the "Selected networks" option is selected. Under "Virtual network", the "Virtual network" dropdown is set to "(New) Network_of_Web-Server-AB (Resources_of_Project)" and the "Subnets" dropdown is set to "(New) Sub_Network_of_Web-Server-AB". Under "Firewall", there is a note to "Add IP ranges to allow access from the internet or your on-premises networks." At the bottom, there are "Previous", "Next", and "Review + create" buttons. A "Give feedback" link is also present.

Validation Passed and Created.

The screenshot shows the 'Create Translator' wizard on the Microsoft Azure portal. The 'Basics' tab is selected, displaying the following configuration:

- Subscription:** Azure for Students
- Resource group:** Resources_of_Project
- Region:** Central India
- Name:** IndianTranslator
- Pricing tier:** Free F0 (Up to 2M characters translated per month)

The 'Network' tab shows:

- Type:** Selected networks, configure network security for your Azure AI services reso...
- Virtual network:** Network_of_Web-Server-AB
- Subnets:** Sub-Network_of_Web-Server-AB
- Address prefix (Subnets):** 172.22.0.0/24
- Address range:** 0 item(s)

The 'Identity' tab shows:

- Identity type:** None

The 'Tags' tab shows:

- Sam** 7 (Azure AI services)

At the bottom, there are 'Previous', 'Next', and 'Create' buttons, along with an 'Activate Windows' message and a 'Give feedback' link.

Creation of Translator in Germany West central.

The screenshot shows the 'Create Translator' wizard on the Microsoft Azure portal. The 'Basics' tab is selected, displaying the following configuration:

- Subscription:** Azure for Students
- Resource group:** Resources_of_Project

The 'Project Details' section includes:

- A note: "Easily integrate real-time text translation capabilities into your application's websites, tools, or any solution requiring multi-language support such as website localization, e-commerce, customer support, messaging applications, internal communication, and more."

The 'Instance Details' section includes:

- Region:** Germany West Central
- Name:** samgermantranslator07

A note in this section states: "Please choose the Global region unless your business or application requires a specific region. Applications that do not offer a region selection use the Global region."

The 'Pricing tier' section shows:

- Standard S1 (Pay as you go)**

At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons, along with an 'Activate Windows' message and a 'Give feedback' link.

Assigning Network to the Translator.

The screenshot shows the 'Create Translator' wizard on the 'Network' tab. A prominent message at the top says, 'Configure network security for your Azure AI services resource.' Below this, there are three radio button options for 'Type': 'All networks, including the internet, can access this resource.' (unchecked), 'Selected networks, configure network security for your Azure AI services resource.' (checked), and 'Disabled, no networks can access this resource. You could configure private endpoint connections that will be the exclusive way to access this resource.' (unchecked). The 'Virtual network' dropdown is set to '(New) Network_of_Web-Server-CD (Resources_of_Project)' and the 'Subnets' dropdown is set to '(New) Sub-Network_of_Web-Server CD'. Under the 'Firewall' section, there is a note about adding IP ranges and a link to 'Learn more'. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons, along with an 'Activate Windows' notice.

Validation passed and created.

The screenshot shows the 'Create Translator' wizard on the 'Review + create' tab. It displays a summary of the configuration: **Subscription** is 'Azure for Students', **Resource group** is 'Resources_of_Project', **Region** is 'Germany West Central', **Name** is 'sangermantranslator07', and **Pricing tier** is 'Standard S1 (Pay as you go)'. In the **Network** section, it shows 'Selected networks, configure network security for your Azure AI services reso...' with 'Virtual network' set to 'Network_of_Web-Server-CD', 'Subnets' set to 'Sub-Network_of_Web-Server-CD', 'Address prefix (Subnets)' set to '192.168.0.0/24', and 'Address range' showing '0 item(s)'. The **Identity** section shows 'Identity type' as 'None'. The **Tags** section shows a single tag 'Sam' associated with '7 (Azure AI services)'. At the bottom, there are 'Previous', 'Next', and 'Create' buttons, along with an 'Activate Windows' notice.

The screenshot shows the Azure AI services Translator blade. On the left, there's a sidebar with a tree view of AI services, and 'Translator' is selected. The main area displays a table with two records:

Name	Kind	Location	Custom Domain ...	Pricing tier	Status	Created date
IndianTranslator	TextTranslation	Central India	indiantranslator	F0	Succeeded	2024-02-06T09:00:01...
samgermantranslator07	TextTranslation	Germany West Central	samgermantransla...	S1	Succeeded	2024-02-06T09:14:25.2...

At the bottom right, there's a 'Activate Windows' message.

Here a sentence is converted from Italian language to German language.

The screenshot shows the 'germantranslator' resource overview page. The left sidebar lists various management options like Overview, Activity log, and Resource Management. The main area has a 'Try it' section where a sentence is translated from Italian to German:

From: Italian
To: German

Italian input: Buongiorno, stamattina vado a scuola presto

German output: Guten Morgen, ich gehe heute früh zur Schule

Below this, there are 'View request' and 'View response' sections showing the JSON data for the API call.

Here a sentence is converted from German language to English language.

The screenshot shows the Microsoft Azure portal interface for a Cognitive Services Text Translation resource. The left sidebar lists various management options like Overview, Activity log, and Resource Management. The main area displays a translation interface with a 'Try it' tab selected. The 'From' field is set to German, and the 'To' field is set to English. A text input box contains the German sentence "Guten Morgen, ich gehe heute früh zur Schule". The resulting English translation "Good morning, I'm going to school this morning" is shown in a blue-highlighted box. Below the input and output fields, there are 'View request' and 'View response' sections. The 'View response' section displays the JSON API response:

```
[{"text": "Guten Morgen, ich gehe heute früh zur Schule", "to": "en"}, {"text": "Good morning, I'm going to school this morning", "to": "en"}]
```

An 'Activate Windows' watermark is visible at the bottom right of the screen.