

EXP NO 14. Demonstrate Infrastructure as a Service (IaaS) by creating a Virtual Machine using a Public Cloud Service Provider (Azure), configure with required memory and CPU.

PROCEDURE:

STEP1: CREATE AN ACCOUNT IN MICROSOFT AZURE.

STEP2: GOTO RESOURCE GROUP AND CREATE A RESOURCE GROUP.

STEP3: GIVE NECESSARY THINGS FOR RESOURCE GROUP.

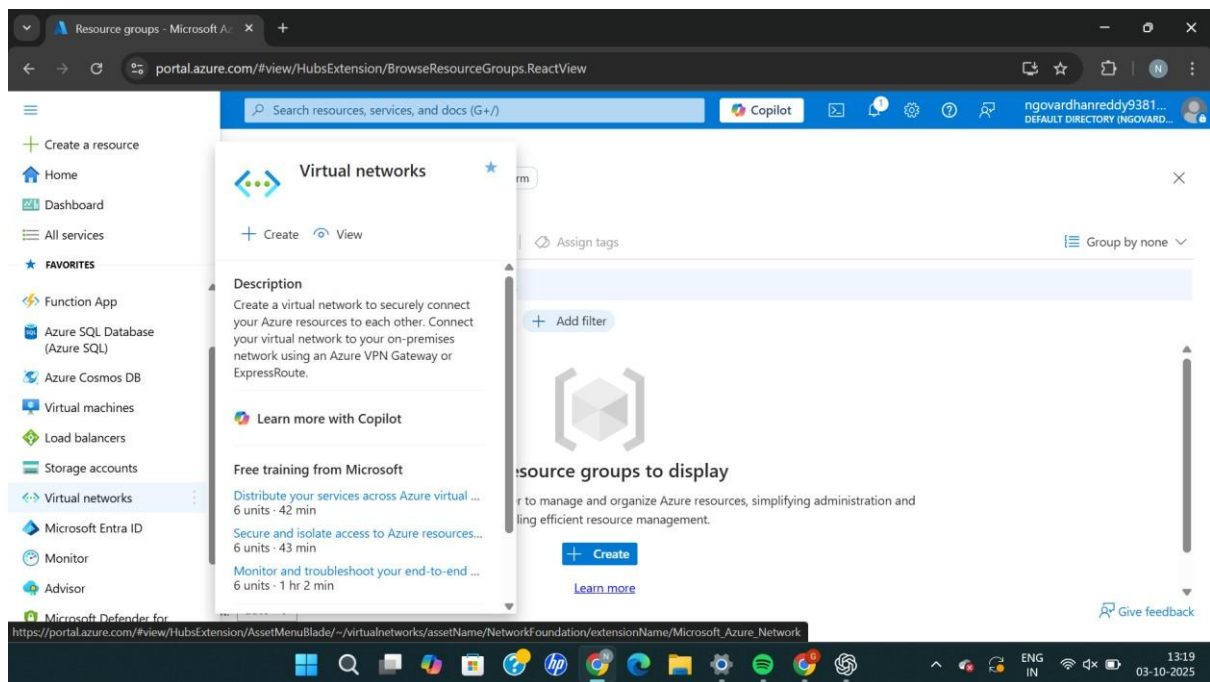
STEP4: CREATE A VIRTUAL NETWORK FOR TO CREATE A VIRTUAL MACHINE.

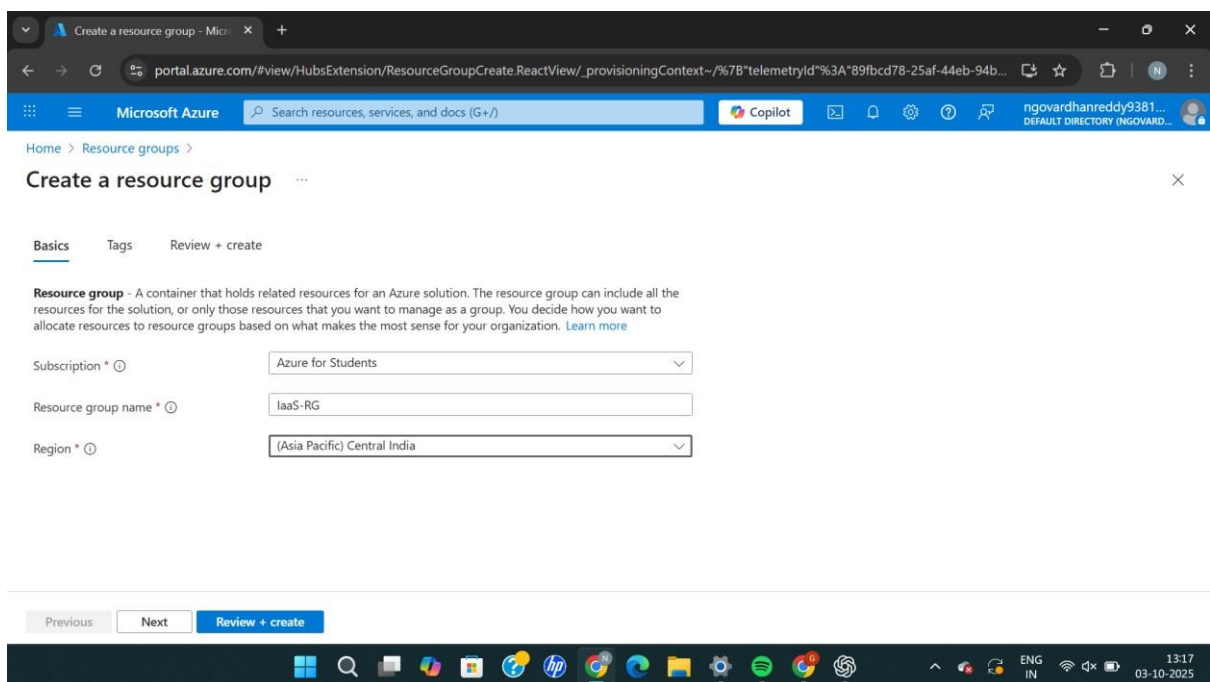
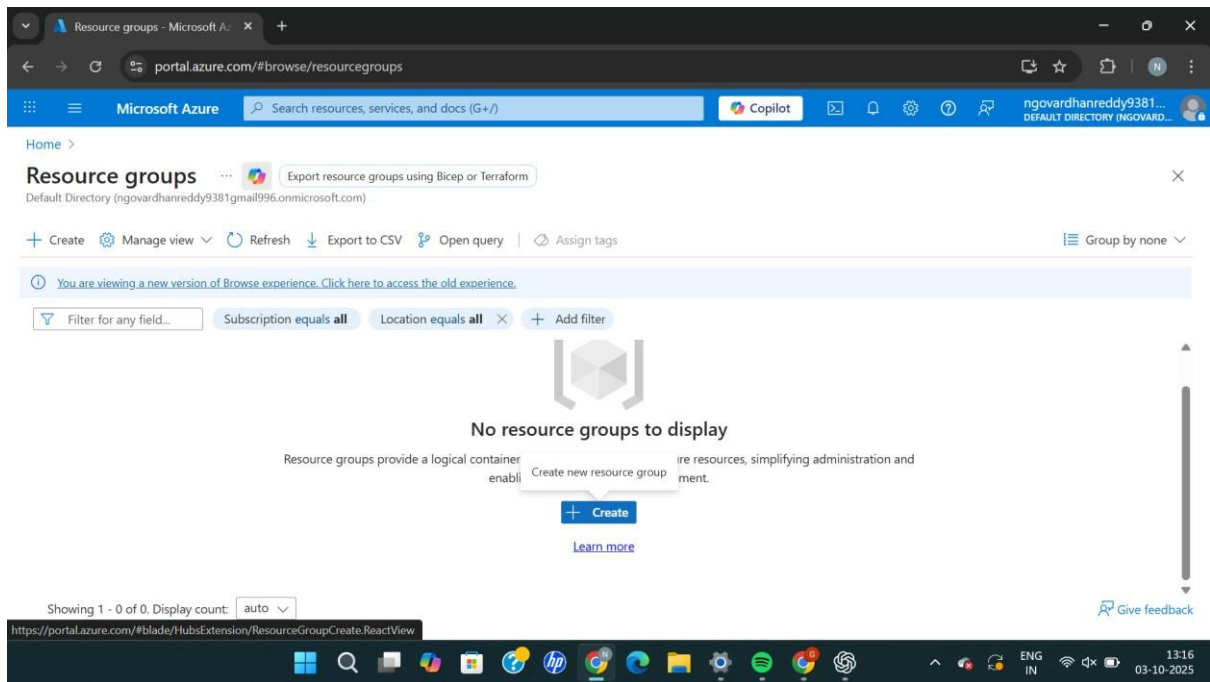
STEP5: NOW CREATE A VIRTUAL MACHINE WITH UR IP ADDRESS AND USERNAME AND PASSWORD FOR YOUR VIRTUAL MACHINE.

STEP6: AND YOUR VIRTUAL MACHINE IS DEPLOYED.

STEP7: NOW CONNECT THE VIRTUAL MACHINE AND DOWNLOAD THE RDP FILE TO OPEN YOUR WINDOWS VIRTUAL MACHINE. STEP8: CREATED A NEW WINDOWS VIRTUAL MACHINE

DESIGN: DESIGN:





Create a resource group - Micro

portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/7B*telemetryId%3A*89fbc78-25af-44eb-94b...

Microsoft Azure

Search resources, services, and docs (G+)

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DEFAULT DIRECTORY (NGOVARD...

Home > Resource groups >

Create a resource group

BasicsTagsReview + create

Automation Link

Basics

Subscription

Azure for Students

Resource group name

laaS-RG

Region

Central India

Tags

None

Previous

Next

Create

Google Gemini

Devices - Blynk.Console

Resource groups - Microsoft A

portal.azure.com/#browse/resourcegroups

Microsoft Azure

Search resources, services, and docs (G+)

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Home >

Resource groups

Export resource groups using Bicep or Terraform

Default Directory (ngovardhanreddy9381@gmail996.onmicrosoft.com)

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Group by none

You are viewing a new version of Browse experience. Click here to access the old experience.

laaS

Subscription equals all

Location equals all

Add filter

☐

Name ↑

Subscription

Location

☐

laaS-Demo-RG

...

Azure for Students

East Asia

Showing 1 - 1 of 1. Display count: auto

Give feedback

Create a virtual machine - Microsoft Azure

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

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

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Home >

Create a virtual machine

Help me choose the right VM size for my workload Help me create a VM optimized for high availability Help me create a low cost VM

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Subscription * Azure for Students

Resource group * WindowsVM-RG
[Create new](#)

Instance details

Virtual machine name * Windows-Demo-VM

Region * (Asia Pacific) East Asia
[Deploy to an Azure Extended Zone](#)

Availability options Availability zone

Zone options Self-selected zone
Choose up to 3 availability zones, one VM per zone

< Previous Next : Disks > Review + create

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11:38 04-10-2025

Create a virtual machine - Microsoft Azure

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

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

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Home >

Create a virtual machine

Help me choose the right VM size for my workload Help me create a VM optimized for high availability Help me create a low cost VM

Validation passed

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Price

1 X Standard B1s
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply
0.0186 USD/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same

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11:45 04-10-2025

Microsoft Azure portal showing the deployment details for a virtual machine named "CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251004114313". The deployment is in progress.

Deployment details:

Resource	Type	Status	Operation details
Windows-Demo-VM	Microsoft.Compute/virtualMachines	Created	Operation details
windows-demo-vm51_z'	Microsoft.Network/networkInterfaces	OK	Operation details
Windows-Demo-VM-nsc	Microsoft.Network/networkInterfaces	OK	Operation details
Windows-Demo-VM-vnc	Microsoft.Network/networkInterfaces	OK	Operation details
Windows-Demo-VM-ip	Microsoft.Network/publicIPAddresses	OK	Operation details

Deployment name: CreateVm-MicrosoftWindowsServer.Wi... Start time: 10/4/2025, 11:45:20 AM
Subscription: Azure for Students Correlation ID: bdf0ae4a-dc60-4fa2-b9b
Resource group: WindowsVM-RG

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Microsoft Azure portal showing the connection options for the virtual machine "Windows-Demo-VM".

Connect using RDP file

Download and open file to connect [Download RDP file](#)

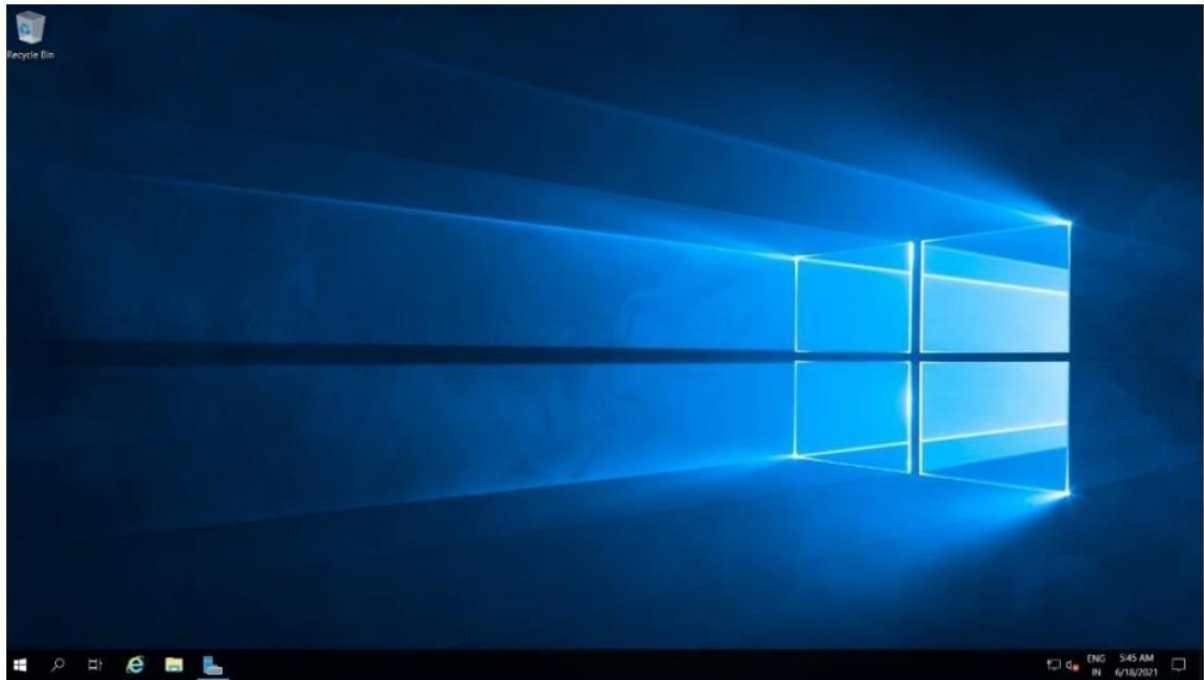
Username:

[Edit settings](#)

More ways to connect (4)

- Bastion (Basic, Standard, or Premium)**
Advanced capabilities including custom inbound port, RDP on desktop, and host scaling. [Learn more](#)
[Go to Bastion](#)
- Serial console**
Troubleshooting with access independent of the network or operating system state. [Learn more](#)
[Go to serial console](#)

A "Remote Desktop Connection" dialog box is overlaid, showing the connection status to 20.255.59.71:3389.



RESULT:

successfully demonstrated infrastructure as a service (iaas) by creating a virtual machine using a public cloud service provider (azure), configure with required memory and cpu.