

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.

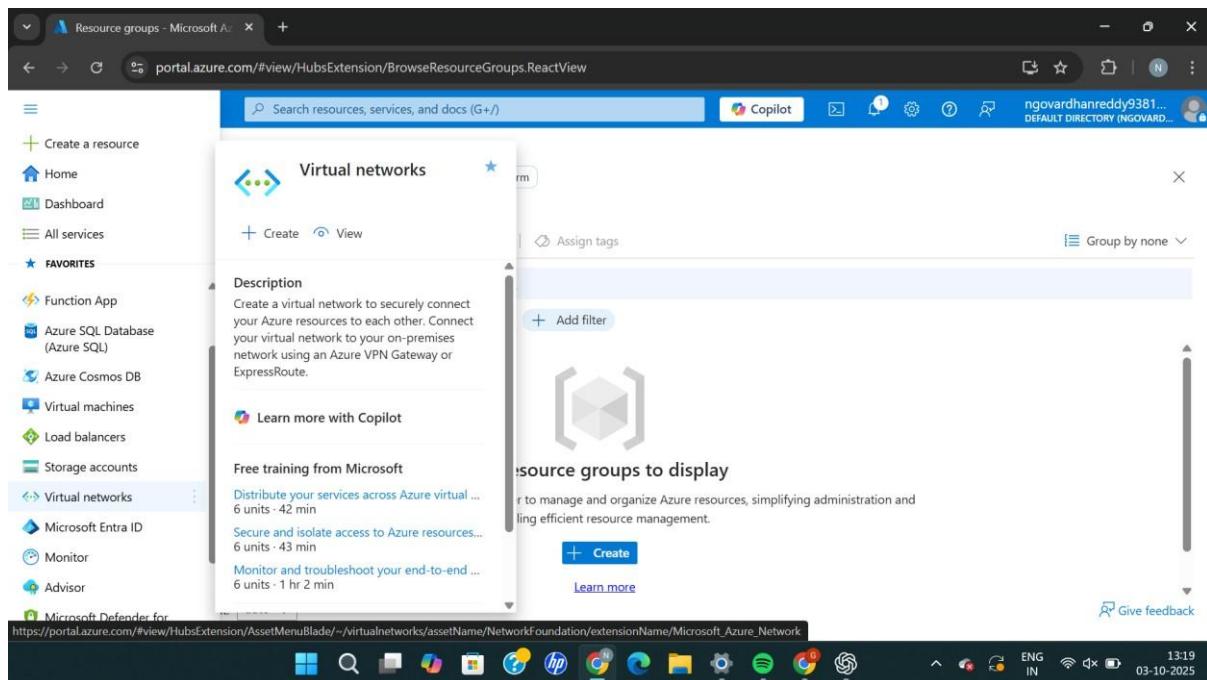
STEP4: CREATE A VIRTUAL NETWORK FOR TO CREATE A VIRTUAL MACHINE.

STEP5: NOW CREATE A VIRTUAL MACHINE WITH UR IPADDRESS 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:



Resource groups - Microsoft Azure

portal.azure.com/#browse/resourcegroups

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

Copilot

ngovardhanreddy9381...
DEFAULT DIRECTORY (NGOARDHANREDDY9381...)

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.

Filter for any field... Subscription equals all Location equals all Add filter

No resource groups to display

Resource groups provide a logical container for resources, simplifying administration and management.

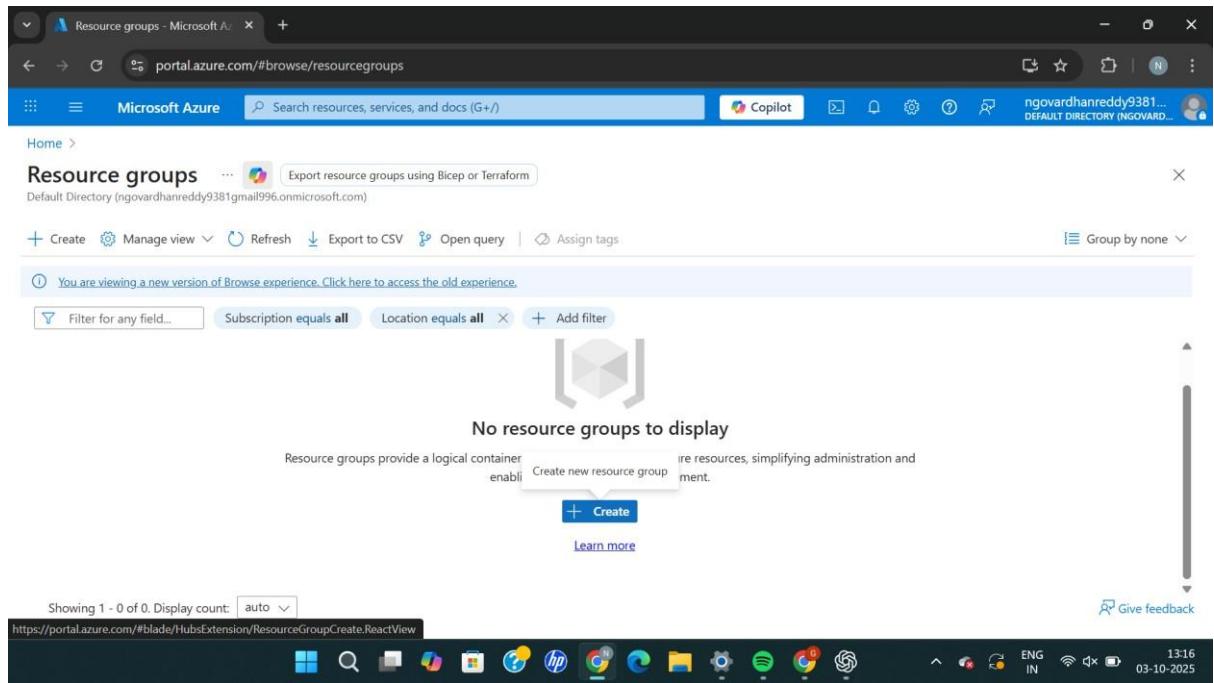
Create new resource group + Create Learn more

Showing 1 - 0 of 0. Display count: auto

https://portal.azure.com/#blade/HubsExtension/ResourceGroupCreate.ReactView

Give feedback

13:16 ENG IN 03-10-2025



Create a resource group - Microsoft Azure

portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/%7B"telemetryId"%3A"89fbcd78-25af-44eb-94b...

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

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Home > Resource groups >

Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

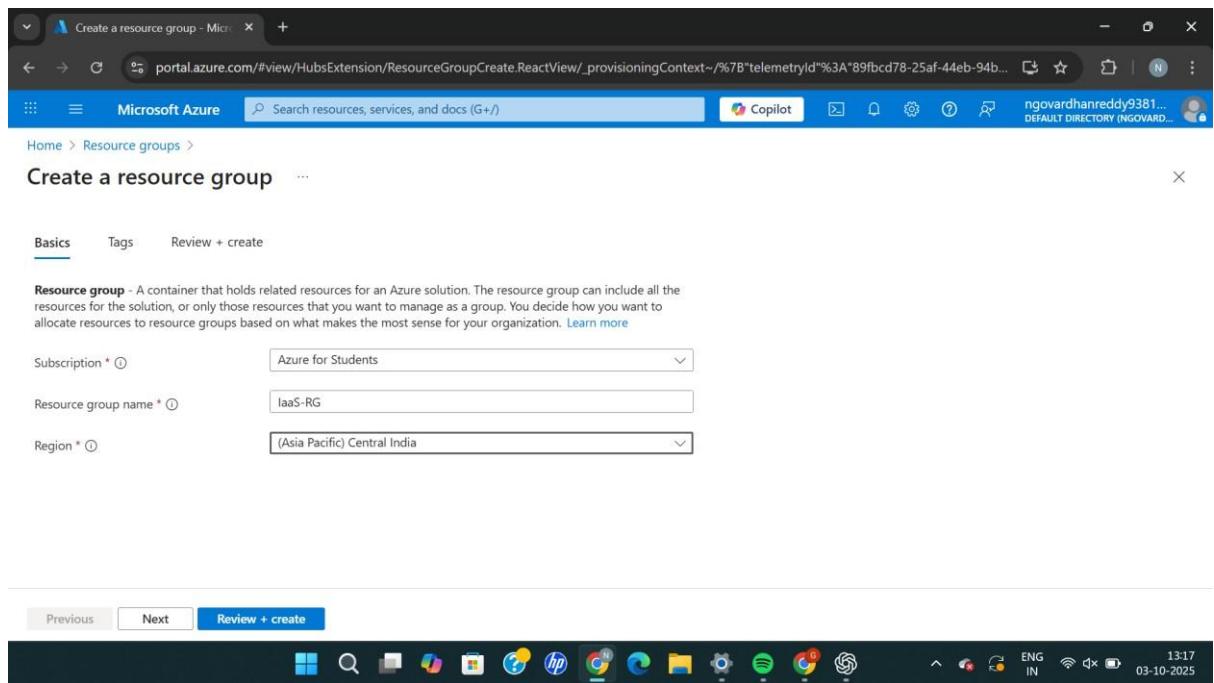
Subscription *

Resource group name *

Region *

Previous Next Review + create

13:17 ENG IN 03-10-2025



Create a resource group - Microsoft Azure

portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/_provisioningContext~/%7B"telemetryId"%3A"89fbcd78-25af-44eb-94b...

Microsoft Azure Search resources, services, and docs (G+) Copilot Home > Resource groups > Create a resource group

Basics Tags Review + create

Automation Link

Basics

Subscription	Azure for Students
Resource group name	IaaS-RG
Region	Central India

Tags

None

Previous Next Create

Google Gemini Devices - Blynk.Console Resource groups - Microsoft Azure

portal.azure.com/#browse/resourcegroups

Microsoft Azure Search resources, services, and docs (G+) Copilot Home > Resource groups

Default Directory (ngovardhanreddy9381@gmail996.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Group by none

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IaaS Subscription equals all Location equals all Add filter

Name ↑	Subscription	Location
IaaS-Demo-RG	... Azure for Students	East Asia

Showing 1 - 1 of 1. Display count: auto Give feedback

11:40 08-10-2025

Create a virtual machine

Subscription: Azure for Students
Resource group: WindowsVM-RG

Virtual machine name: Windows-Demo-VM

Region: (Asia Pacific) East Asia

Availability options: Availability zone

Zone options: Self-selected zone

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine

Validation passed

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

Price

1 X Standard B1s by Microsoft
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

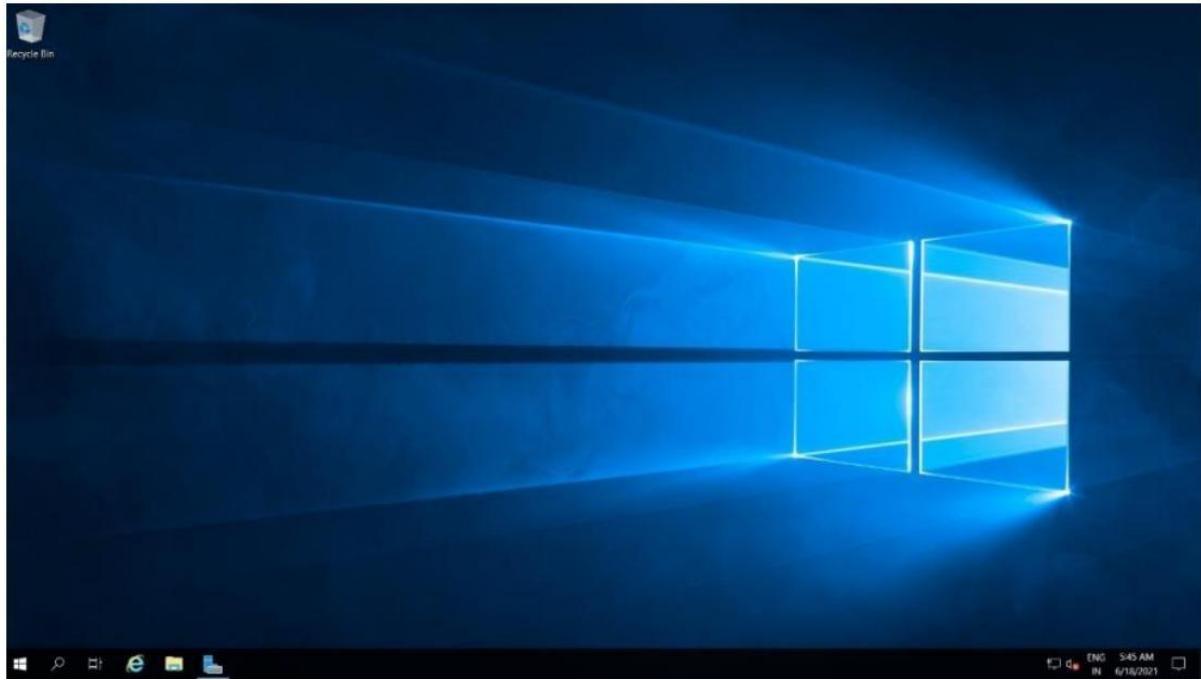
< Previous | Next > | Create | Download a template for automation | Give feedback

The screenshot shows the Microsoft Azure portal interface. At the top, there are two tabs: "CreateVm-MicrosoftWindowsServer" and "Google Gemini". The main content area is titled "CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251004114313 | Overview". A sidebar on the left includes "Overview", "Inputs", "Outputs", and "Template". The main pane displays a message "... Deployment is in progress" and a table of deployment details:

Resource	Type	Status	Operation details
Windows-Demo-VM	Microsoft.Compute/virtualmachines	Created	Operation details
windows-demo-vm51_2	Microsoft.Network/networkInterfaces	OK	Operation details
Windows-Demo-VM-nsc	Microsoft.Network/networkSecurityGroups	OK	Operation details
Windows-Demo-VM-vns	Microsoft.Network/virtualNetworks	OK	Operation details
Windows-Demo-VM-ip	Microsoft.Network/publicIPAddresses	OK	Operation details

On the right side, there are promotional banners for Microsoft Defender for Cloud and Free Microsoft tutorials, along with a "Work with an expert" section.

The screenshot shows the Microsoft Azure portal interface for the "Windows-Demo-VM" virtual machine. The title bar says "Windows-Demo-VM - Microsoft" and the main content area is titled "Windows-Demo-VM | Connect". The left sidebar shows navigation options like "Overview", "Activity log", "Access control (IAM)", "Tags", "Diagnose and solve problems", "Resource visualizer", and "Connect". Under "Connect", "Bastion" and "Windows Admin Center" are listed. The main pane displays a "Connect using RDP file" section with a "Download RDP file" button, and a "Remote Desktop Connection" dialog box showing the connection progress. Below this, there are sections for "Bastion (Basic, Standard, or Premium)" and "Serial console". The taskbar at the bottom shows various pinned icons and the date/time as 04-10-2025.



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.