

**EXP NO 20. Demonstrate Infrastructure as a Service (IaaS) by establishing the remote connection, launch the created VM image and run in your desktop using Azure.**

**PROCEDURE:**

**STEP1: CREATE AN ACCOUNT IN MICROSOFT AZURE.**

**STEP2: GOTO RESOURCE GROUP AND CREATE A RESOURCE GROUP.**

**STEP3: GIVE NECESSARY THINGS FOR RESOURCE GROUP.**

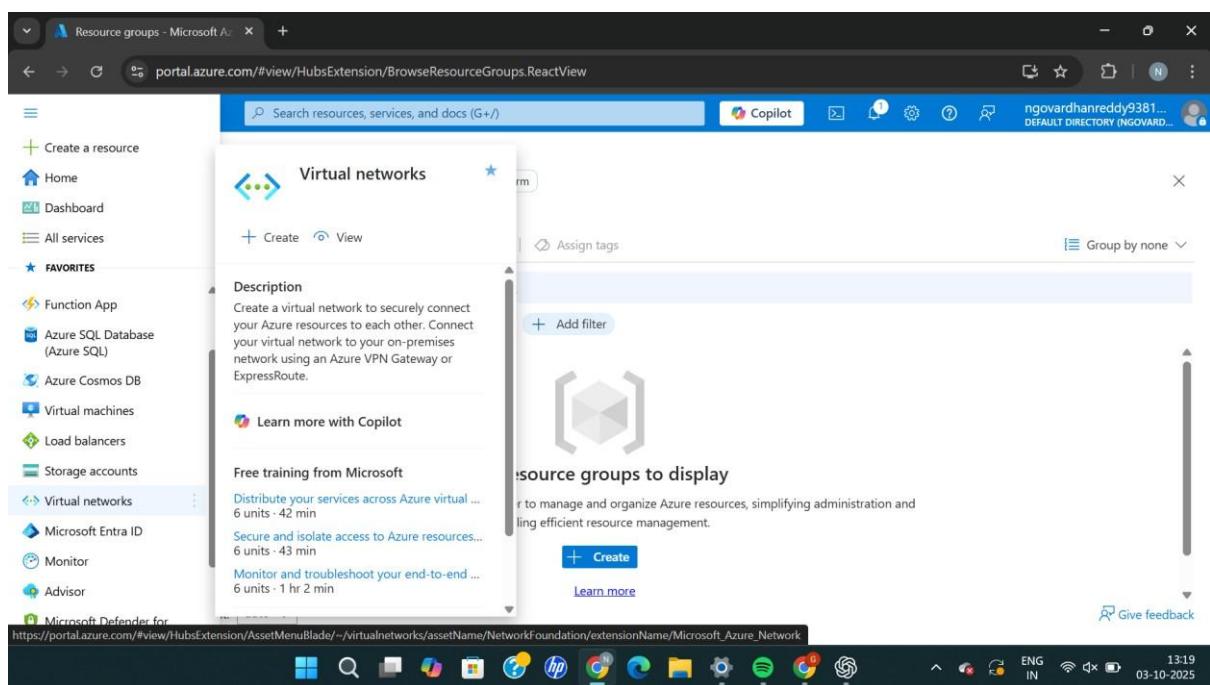
**STEP4: CREATE A VIRTUAL NETWORK FOR TO CREATE A VIRTUAL MACHINE.**

**STEP5: NOW CREATE A VIRTUAL MACHINE WITH UR IPADDRESS AND USERNAME AND PASSWORD FOR YOUR VIRTUAL MACINE.**

**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.

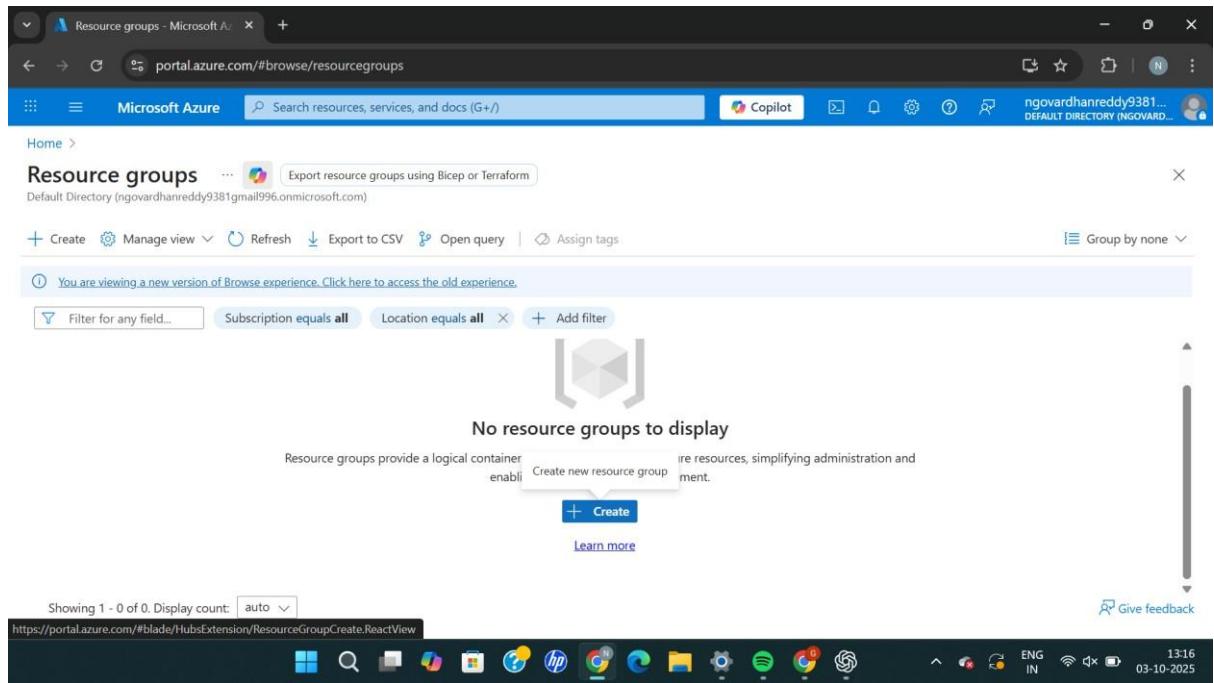
Create new resource group + Create Learn more

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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DEFAULT DIRECTORY (NGOARDHANREDDY9381...)

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](#)

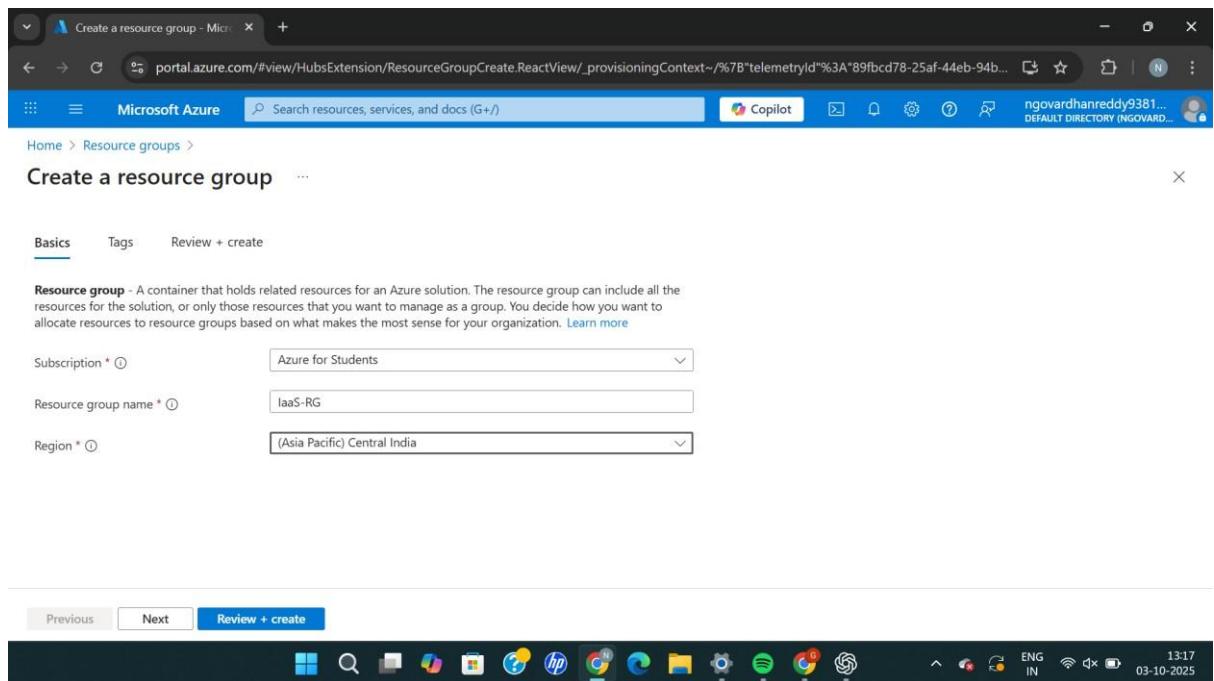
Subscription \*

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**

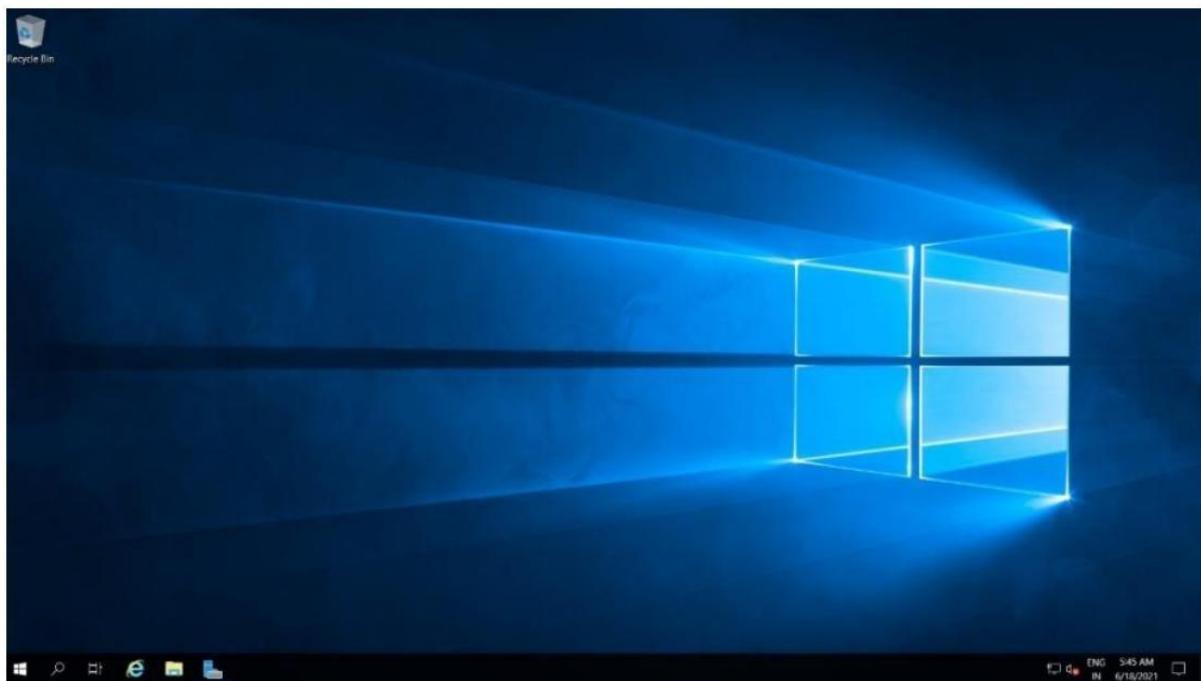
**Price**  
1 X Standard B1s by Microsoft  
Subscription credits apply  
0.0186 USD/hr  
Pricing for other VM sizes

**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.WindowsServer-202-20251004114313' and 'Google Gemini'. Below the tabs, the URL is 'portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2fsubscriptions%2f75e1e16e-428e-4402-84c9-4163a448...'. The main title is 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251004114313 | Overview'. On the left, there's a navigation menu with 'Overview' selected, along with 'Inputs', 'Outputs', and 'Template' options. The main content area displays the message 'Deployment is in progress'. It includes deployment details such as 'Deployment name: CreateVm-MicrosoftWindowsServer.Wi...', 'Subscription: Azure for Students', 'Resource group: WindowsVM-RG', 'Start time: 10/4/2025, 11:45:20 AM', and 'Correlation ID: bdf0ae4a-dc60-4fa2-b9b...'. Below this, a table lists deployment resources: Windows-Demo-VM (Microsoft.Compute/virtualMachines), windows-demo-vm51\_2 (Microsoft.Network/networkInterfaces), Windows-Demo-VM-nsc (Microsoft.Network/networkInterfaces), Windows-Demo-VM-vns (Microsoft.Network/virtualNetworkServices), and Windows-Demo-VM-ip (Microsoft.Network/publicIPAddresses). All resources are in 'OK' status. To the right, there are promotional banners for Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

The screenshot shows the Microsoft Azure portal interface for a specific virtual machine named 'Windows-Demo-VM'. The title bar says 'Windows-Demo-VM - Microsoft' and the URL is 'portal.azure.com/#@ngovardhanreddy9381gmail996.onmicrosoft.com/resource/subscriptions/75e1e16e-428e-4402-84c9-4163a448...'. The main title is 'Windows-Demo-VM | Connect'. On the left, a navigation menu shows 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Diagnose and solve problems', 'Resource visualizer', 'Connect' (which is expanded to show 'Bastion', 'Windows Admin Center', 'Networking', and 'Settings'), and other options like 'Bastion' and 'Serial console'. The central area shows a 'Connect using RDP file' section with a 'Download RDP file' button. A 'Remote Desktop Connection' dialog box is open, showing 'Connecting to: 20.255.59.71:3389' and 'Configuring remote session...'. Below this, there are sections for 'More ways to connect' including 'Bastion (Basic, Standard, or Premium)' and 'Serial console'. The bottom of the screen shows the Windows taskbar with various pinned icons and the date/time as '04-10-2025 11:51'.



## 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.