

EXP NO 19. 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.

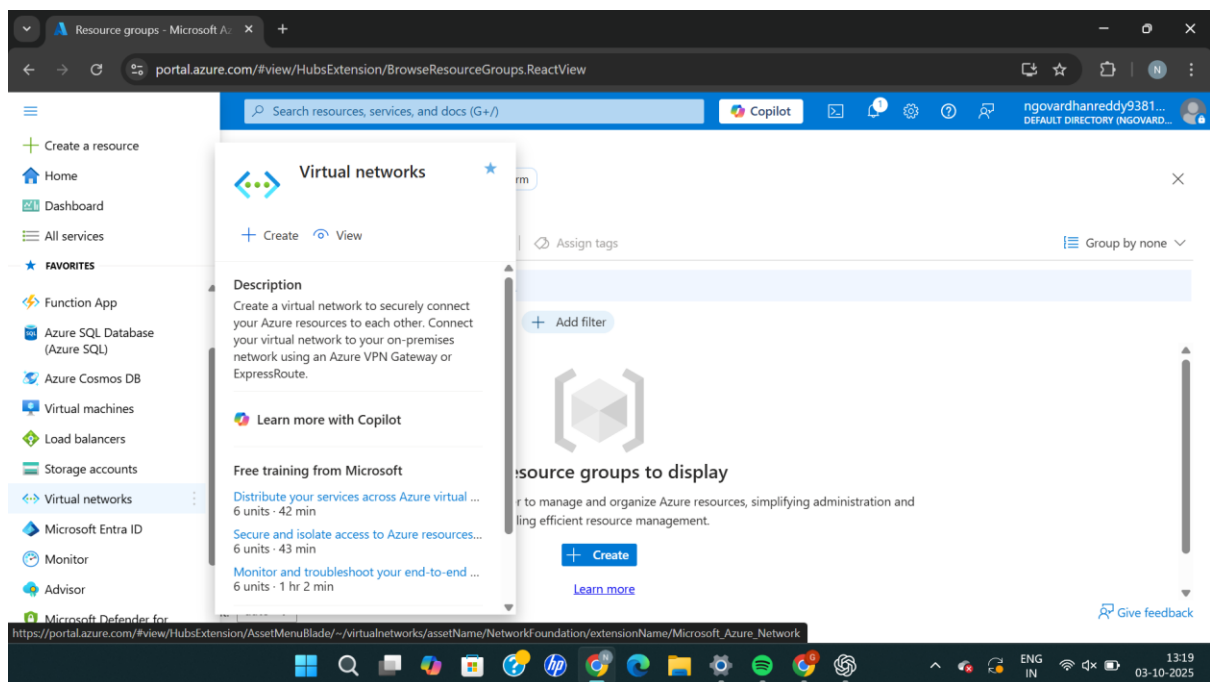
STEP6: AND YOUR VIRTUAL MACHINE IS DEPLOYED.

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:



Resource groups - Microsoft Azure

portal.azure.com/#browse/resourcegroups

Microsoft Azure

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

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## 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

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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

Give feedback

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

Create a resource group - Microsoft Azure

portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/\_provisioningContext~/%7B%22telemetryId%3A%2289fbc78-25af-44eb-94b...

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## 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 \* Azure for Students

Resource group name \* laaS-RG

Region \* (Asia Pacific) Central India

Previous Next Review + create

Create a resource group - Micr

portal.azure.com/#view/HubsExtension/ResourceGroupCreate.ReactView/\_provisioningContext~/%7B%22telemetryId%22%3A%2289fcd78-25af-44eb-94b...

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Create a resource group

BasicsTagsReview + create

Automation Link

Basics

Subscription

Azure for Students

Resource group name

laaS-RG

Region

Central India

Tags

None

Previous

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Windows Taskbar

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portal.azure.com/#browse/resourcegroups

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Resource groups

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Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Group by none

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laaS

Subscription equals all

Location equals all

Add filter

<input type="checkbox"/>	Name ↑	Subscription	Location
<input type="checkbox"/>	laaS-Demo-RG	Azure for Students	East Asia

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Give feedback

Windows Taskbar

Create a virtual machine - Microsoft Azure

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

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

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## 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

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## 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

< Previous Next > Create

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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	<a href="#">Operation details</a>
windows-demo-vm51_z1	Microsoft.Network/networkInterfaces	OK	<a href="#">Operation details</a>
Windows-Demo-VM-nic	Microsoft.Network/networkInterfaces	OK	<a href="#">Operation details</a>
Windows-Demo-VM-vnet	Microsoft.Network/virtualNetworks	OK	<a href="#">Operation details</a>
Windows-Demo-VM-ip	Microsoft.Network/publicIPAddresses	OK	<a href="#">Operation details</a>

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](#)

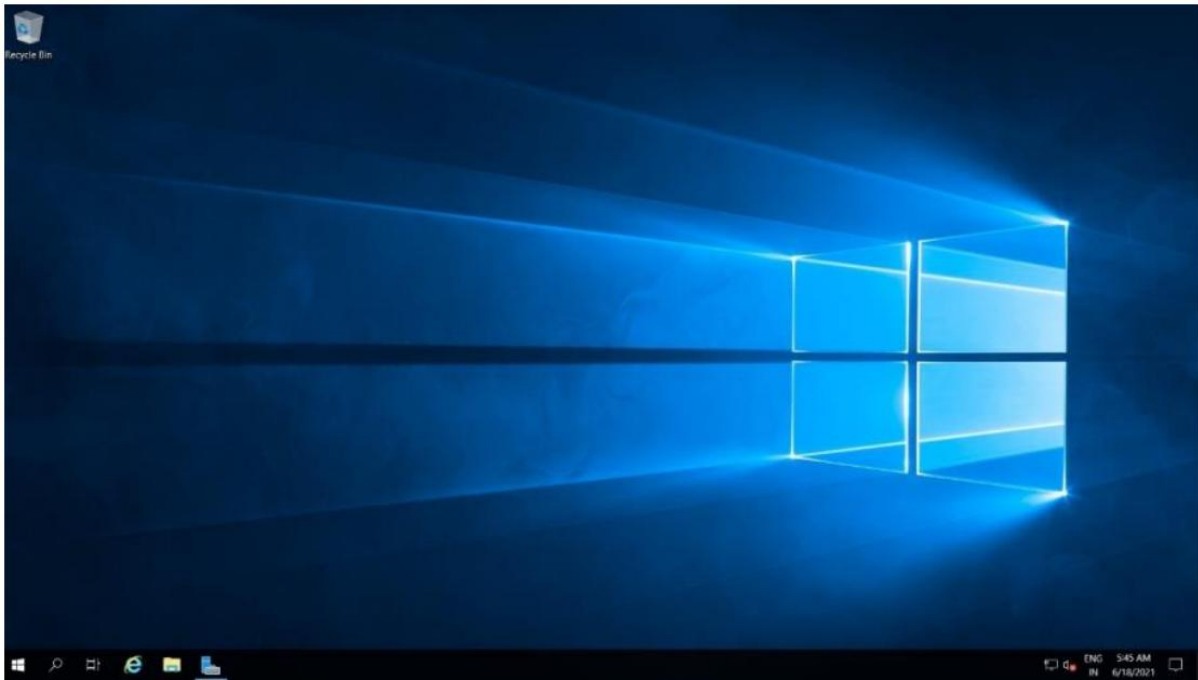
Username:

[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.