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Section: 7B

Lab: 01

## Task 1: Create the virtual machine

Setting up the VM:

Microsoft Azure

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

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* Azure for Students

Resource group \* (New) CloudComputingGroup

Create new

Instance details

Virtual machine name \* myVM

Region \* (Asia Pacific) Central India

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

Azure-selected zone (Preview)

Let Azure assign the best zone for your needs

Using an Azure-selected zone is not supported in region 'Central India'.

Availability zone \* Zone 1

You can now select multiple zones. Selecting multiple zones will create one VM per zone. Learn more

Security type Trusted launch virtual machines

Configure security features

Image \* Windows Server 2025 Datacenter: Azure Edition - x64 Gen2

See all images Configure VM generation

VM architecture

Arm64

< Previous Next : Disks > Review + create

Give feedback

Microsoft Azure

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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

VM architecture

ARM64

x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount

Size \* Standard\_D2s\_v3 - 2 vcpus, 8 GiB memory (\$143.81/month)

See all sizes

Enable Hibernation

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. Learn more

Administrator account

Username \* azureuser

Password \*

Confirm password \*

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 \* HTTP (80), RDP (3389)

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.

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## Networking Tab

Microsoft Azure

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Create a virtual machine

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

BasicsDisksNetworkingManagementMonitoringAdvancedTagsReview + 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 >](#)

Network interface

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

Virtual network

(New) vnet-centralindia (CloudComputingGroup)  
[Edit virtual network](#)

Subnet

(New) snet-centralindia-1  
[Edit subnet](#) 172.16.0.0 - 172.16.0.255 (256 addresses)

Public IP

Create new

NIC network security group

☐ None  
☒ Basic  
☐ Advanced

Public inbound ports

☐ None  
☒ Allow selected ports

Select inbound ports

HTTP (80), RDP (3389)

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

< PreviousNext: Management >Review + create

Give feedback

## Monitoring

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Create a virtual machine

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Configure monitoring options for your VM.

Alerts

Enable recommended alert rules

Diagnostics

Boot diagnostics

☐ Enable with managed storage account (recommended)  
☐ Enable with custom storage account  
☒ Disable

Enable OS guest diagnostics

Health

Enable application health monitoring

< PreviousNext: Advanced >Review + create

Give feedback

# Review Validation

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The 'Review + create' tab is selected, showing a summary of the configuration. A green banner at the top indicates 'Validation passed'. The configuration includes:

- Price:** 1 X Standard D2s v3 by Microsoft, 0.1970 USD/hr.
- TERMS:** A warning message states: 'You have set RDP portal open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.'
- Basics:** Subscription (Azure for Students), Resource group (new CloudComputingGroup), Virtual machine name (myVM), Region (Central India), Availability options (Availability zone), and Zone options (Self-selected zone).

Navigation buttons at the bottom include '< Previous', 'Next >', and 'Create'. A 'Download a template for automation' link and a 'Give feedback' link are also present.

## Task 2:

## VM deployed

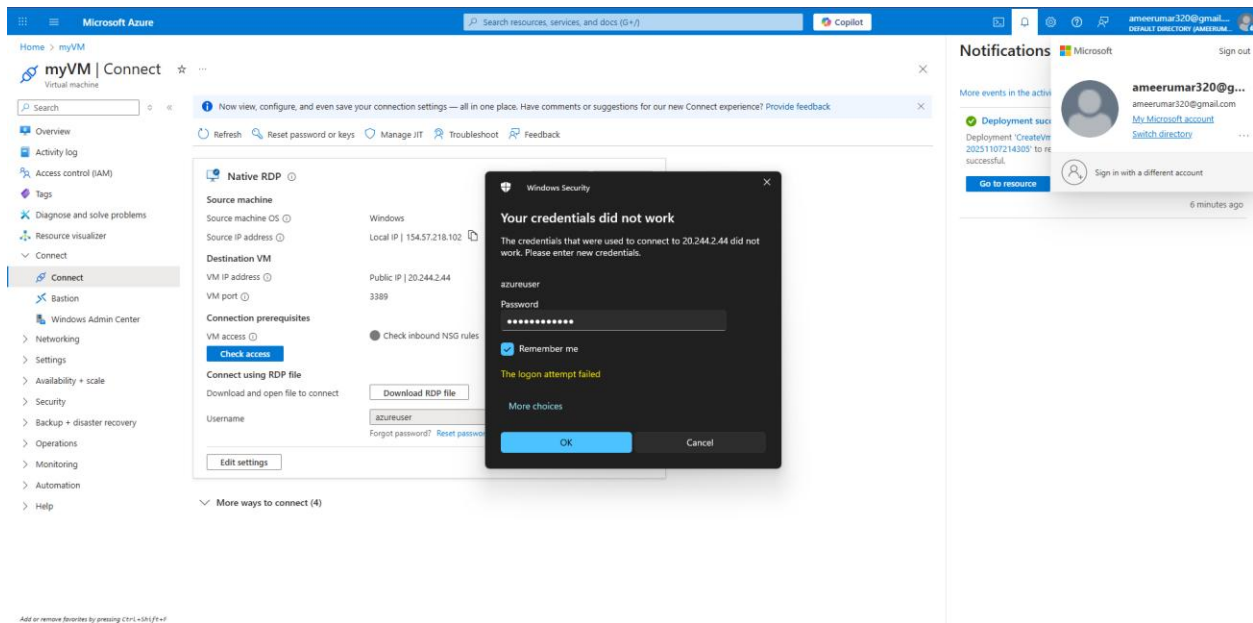
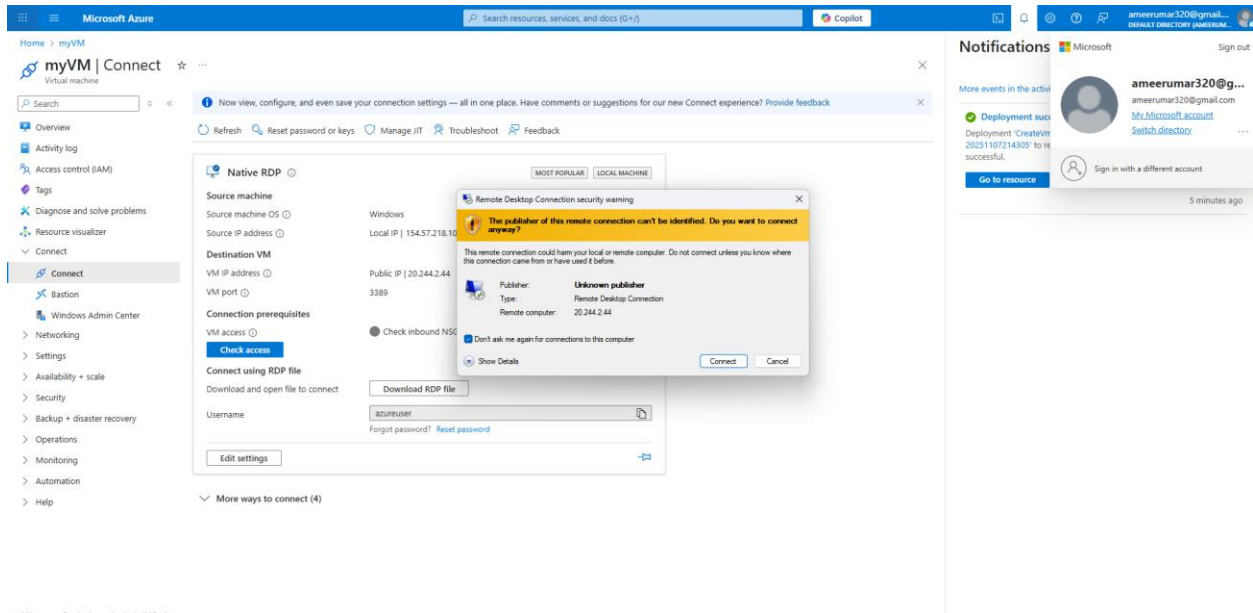
The screenshot shows the 'Overview' page for a deployed virtual machine in the Microsoft Azure portal. The deployment is titled 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251107214305'. The status is 'Your deployment is complete'. The deployment details are as follows:

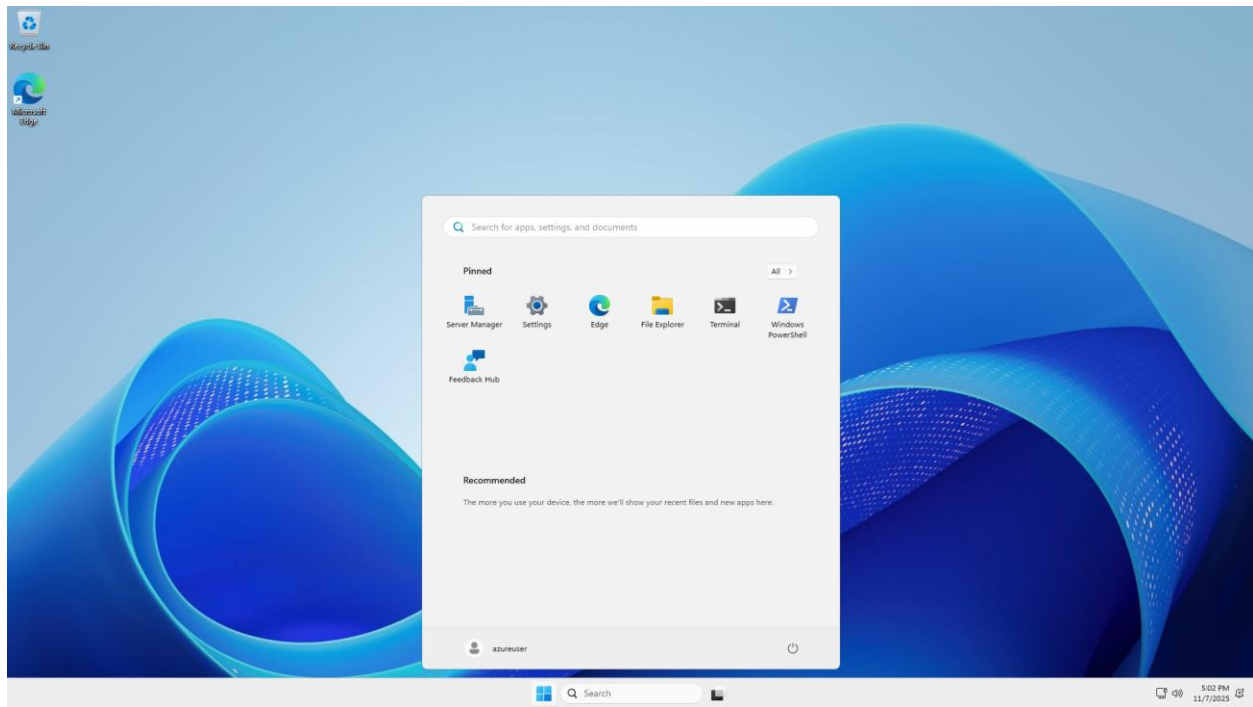
- Deployment name:** CreateVm-MicrosoftWindowsServer.Window...
- Subscription:** Azure for Students
- Resource group:** CloudComputingGroup
- Start time:** 11/7/2025, 9:52:13 PM
- Correlation ID:** 20e37e94-ca89-465f-ae7f-f1394097125e

The 'Next steps' section includes recommendations to 'Set up auto-shutdown', 'Monitor VM health, performance, and network dependencies', and 'Run a script inside the virtual machine'. A 'Go to resource' button is available. A 'Give feedback' link is also present.

On the right, a 'Notifications' panel shows a 'Deployment successful' message for the deployment 'CreateVm-20251107214305' to the resource group 'CloudComputingGroup'. A 'Go to resource' button is provided for the deployment.

# Connecting via RDP





### Task 3:

Install command in power shell

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> Install-WindowsFeature -name Web-Server -IncludeManagementTools

Success Restart Needed Exit Code      Feature Result
-----
True      No          Success      {Common HTTP Features, Default Document, D...

PS C:\Windows\system32> |
```

Microsoft Azure

Search resources, services, and docs (G+)

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Home >

myVM Virtual machine

Help me copy this VM in any region Manage this VM with Azure CLI

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Networking

Settings

Availability + scale

Security

Backup + disaster recovery

Operations

Monitoring

Automation

Help

Essentials

Resource group (move) : CloudComputingGroup

Status : Running

Location : Central India (Zone 1)

Subscription (move) : Azure for Students

Subscription ID : 9c95a83d-2817-48dc-9b2e-0c49f8b0c0b

Availability zone : 1

Tags (edit) : Add tags

Operating system : Windows (Windows Server 2025 Datacenter Azure Edition)

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Primary NIC public IP : 20.244.2.44 1 associated public IP

Virtual network/subnet : vnet-centralindia/vnet-centralindia-1

DNS name : Not configured

Health state : -

Time created : 11/7/2025, 4:52 PM UTC

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

Computer name : myVM

Operating system : Windows (Windows Server 2025 Datacenter Azure Edition)

VM generation : V2

VM architecture : x64

Agent status : Ready

Agent version : 2.7.41491.1172

Hibernation : Disabled

Host group : -

Host : -

Proximity placement group : -

Colocation status : N/A

Networking

Public IP address : 20.244.2.44 (Network interface myvm09\_11)

Public IP address (IPv6) : -

Private IP address : 172.16.0.4

Private IP address (IPv6) : -

Virtual network/subnet : vnet-centralindia/vnet-centralindia-1

DNS name : Configure

Size

Size : Standard D2s v3

vCPUs : 2

RAM : 8 GiB

Sign out

ameerumar320@g...  
ameerumar320@gmail.com  
My Microsoft account  
Switch directory

Sign in with a different account

https://portal.azure.com/#blade/SharedBlade/ResourceMenu/blade/9c95a83d-2817-48dc-9b2e-0c49f8b0c0b

