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Section: 7B

Lab: 01

Task 1: Create the virtual machine

Setting up the VM:

Microsoft Azure

Create a virtual machine

Subscription: Azure for Students

Resource group: (New!) CloudComputingGroup

Virtual machine name: myVM

Region: (Asia Pacific) Central India

Availability zone: Self-selected zone (Zone 1)

Security type: Trusted launch virtual machines

Image: Windows Server 2023 Datacenter: Azure Edition - x64 Gen2

VM architecture: x64

Sign in with a different account

ameerumar320@gmail.com

My Microsoft account

Switch directory

Microsoft Azure

Create a virtual machine

VM architecture: x64

Size: Standard_D2s_v3 - 2 vcpus, 8 GiB memory (\$143.81/month)

Inbound port rules: Allow selected ports

Select inbound ports: HTTP (80), RDP (3389)

Sign in with a different account

ameerumar320@gmail.com

My Microsoft account

Switch directory

Networking Tab

The screenshot shows the 'Networking' tab of the Azure VM creation wizard. It includes fields for selecting a virtual network (vnet-centralindia), subnet (snet-centralindia-1), and public IP (HTTP port 80). It also allows configuring inbound ports (allow selected ports) and setting security group rules. A warning message states: "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." Navigation buttons at the bottom include < Previous, Next : Management, and Review + create.

Monitoring

The screenshot shows the 'Monitoring' tab of the Azure VM creation wizard. It includes sections for Alerts (enable recommended alert rules), Diagnostics (boot diagnostics and OS guest diagnostics), and Health (enable application health monitoring). A note says: "Configure monitoring options for your VM." Navigation buttons at the bottom include < Previous, Next : Advanced, and Review + create.

Review Validation

The screenshot shows the 'Create a virtual machine' review step in the Azure portal. At the top, there are three tabs: 'Help me choose the right VM size for my workload', 'Help me create a VM optimized for high availability', and 'Help me create a low cost VM'. The 'Help me create a low cost VM' tab is selected, showing a green validation status bar with the message 'Validation passed'. Below this, there are sections for 'Price' and 'TERMS'. The 'Price' section shows '1 X Standard D2s v3 by Microsoft' at a cost of '0.1970 USD/hr'. The 'TERMS' section contains legal text and links to 'Terms of use' and 'Privacy policy'. A warning message at the bottom left states: '⚠ You have set RDP port(s) open to the internet. This is only recommended for testing. If you want to change this setting, go back to Basics tab.' On the right side, there is a user profile for 'ameerumar320@gmail.com' and a 'Sign out' link. At the bottom, there are navigation buttons for '< Previous', 'Next >', and a blue 'Create' button.

Task 2:

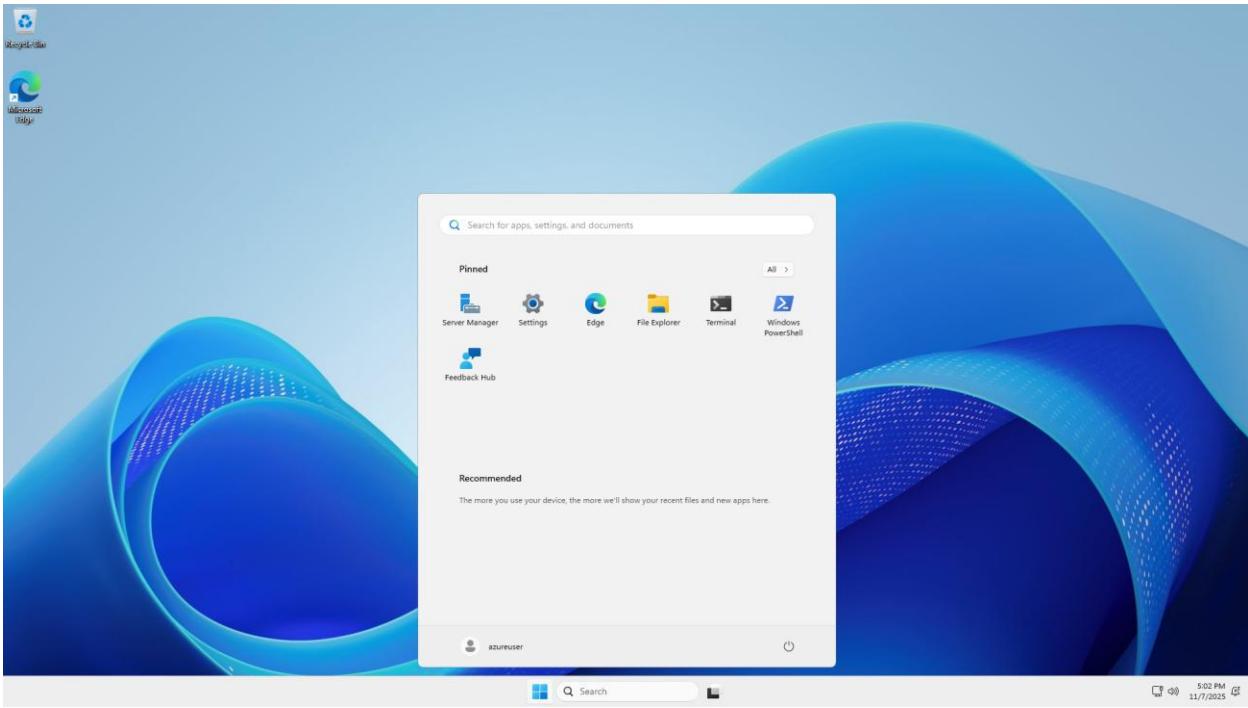
VM deployed

The screenshot shows the 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251107214305 | Overview' page in the Azure portal. The left sidebar has a tree view with 'Overview' (selected), 'Inputs', 'Outputs', and 'Template'. The main content area displays a summary: 'Your deployment is complete' with a green checkmark icon. It shows deployment details: 'Deployment name : CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251107214305', 'Subscription : Azure for Students', 'Start time : 11/7/2025, 9:52:13 PM', and 'Correlation ID : 2ce37e94-ce89-465f-ae7f-f1394097126e'. Below this, there are sections for 'Deployment details' (with 'Set up auto-shutdown Recommended' and 'Monitor VM health, performance, and network dependencies Recommended'), 'Next steps' (with 'Run a script inside the virtual machine Recommended'), and two buttons: 'Go to resource' and 'Create another VM'. At the bottom, there are 'Give feedback' and 'Tell us about your experience with deployment' buttons. On the right side, there is a 'Notifications' sidebar with a message: 'Deployment successful' for 'CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251107214305' and a 'Cost management' section with a link to 'Set up cost alerts'. The user profile 'ameerumar320@gmail.com' is also visible in the sidebar.

Connecting via RDP

The screenshot shows the Microsoft Azure portal interface for connecting to a virtual machine named 'myVM'. The left sidebar has 'Connect' selected under the 'Virtual machine' section. The main area displays the 'Native RDP' configuration page. A modal window titled 'Remote Desktop Connection security warning' is open, stating: 'The publisher of this remote connection can't be identified. Do you want to connect anyway?'. It includes fields for 'Publisher' (Unknown publisher), 'Type' (Remote Desktop Connection), and 'Remote computer' (20.244.2.44). There are checkboxes for 'Don't ask me again for connections to this computer' and 'Show Details'. At the bottom right of the modal are 'Connect' and 'Cancel' buttons.

This screenshot shows the same Azure portal setup as the previous one, but the 'Connect' button has been clicked. A 'Windows Security' dialog box is now displayed, stating 'Your credentials did not work' and 'The credentials that were used to connect to 20.244.2.44 did not work. Please enter new credentials.' It contains a 'Username' field with 'azureuser', a 'Password' field filled with '*****', and a checked 'Remember me' checkbox. Below the password field, it says 'The login attempt failed'. At the bottom are 'OK' and 'Cancel' buttons.



Task 3:

Install command in power shell

A screenshot of an Administrator PowerShell window titled 'Administrator: Windows Pow'. The window shows the command 'Install-WindowsFeature -name Web-Server -IncludeManagementTools' being run. The output indicates success, showing the feature name 'Common HTTP Features, Default Document, D...'. The PowerShell window has a dark theme and is located at the bottom of the screen, with the taskbar visible below it.

Microsoft Azure

myVM Virtual machine

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

Search

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

Copilot

ameerumar320@gmail.com

Microsoft

Sign out

ameerumar320@g...

ameerumar320@gmail.com

My Microsoft account

Switch directory

Sign in with a different account

Essentials

Resource group (move) : CloudComputingGroup

Status : Running

Location : Central India (Zone 1)

Subscription (move) : Azure for Students

Subscription ID : 9d954830-2817-48dc-9b2e-0c496f80cd8

Availability zone : 1

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 IPs

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 2.7.1491.1172

Hibernation Disabled

Host group -

Host -

Proximity placement group -

Colocation status N/A

Networking

Public IP address 20.244.2.44 (Network interface myvm09_c1)
1 associated public IPs

Private IP address (IPv6) -

Private IP address (IPv4) 172.16.0.4

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

DNS name Configure

Size

Size Standard D2s v3

vCPUs 2

RAM 8 GiB

<https://portal.azure.com/#blade/HubsExtension/ResourcesBlade/id/%7Bsubscription%7D/Pf5q58bd/2017-48dc->

