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Section – A

LAB: 01

Task 1: Create a Virtual Machine

The screenshot shows the Microsoft Azure portal homepage. At the top, there's a blue header bar with the Microsoft Azure logo, a search bar, and various icons. Below the header, the "Azure services" navigation bar is visible, featuring icons for "Create a resource", "Policy", "Network security groups", "Subscriptions", "App Services", "Key vaults", "Container Apps", "Storage accounts", "Cost Management ...", and "More services". Under the "Resources" section, there are tabs for "Recent" and "Favorite". A table lists two resources: "Azure for Students" (Subscription, last viewed 24 hours ago) and "DefaultResourceGroup-EUS" (Resource group, last viewed 5 days ago).

The screenshot shows the Microsoft Azure Compute infrastructure page, specifically the "Virtual machines" section. The top navigation bar includes the Microsoft Azure logo, a search bar, and a "Compute infrastructure | Virtual machines" title. On the left, there's a sidebar with links like "Overview", "All resources", "Infrastructure" (which is expanded to show "Virtual machines", "Virtual Machine Scale Set (VMSS)", "Compute Fleet", "Disks + images", and "Capacity + placement"), and "Get started". The main content area has a "Create" button and sections for "Virtual machine" and "Virtual machine scale set (VMSS)". The "Virtual machine" section describes it as best for lower-traffic workloads, testing, or customization. The "Virtual machine scale set (VMSS)" section describes it as built-in scaling, performance optimization, load balancing, and batch management for up to 1,000 VMs.

Create a virtual machine



Help me choose the right VM size for my workload

Help me create a low cost VM

Help me create a VM optimized for high availability

⚠️ Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.



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

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

ⓘ This subscription may not be eligible to deploy VMs of certain sizes in certain regions.

Project details

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) myVM_group

< Previous

Next : Disks >

Review + create

Create a virtual machine



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Help me create a low cost VM

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Help me choose the right VM size for my workload

Public IP ⓘ

Loading...



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 NIC when VM is deleted ⓘ



< Previous

Next : Management >

Review + create

All services > Compute infrastructure | Virtual machines >

Create a virtual machine

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

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

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

< Previous Next : Advanced > Review + create

Microsoft Azure

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

Copilot

DEFAULT DIRECTORY (BSSE22801...)

Home >

CreateVm-MicrosoftWindowsServer.WindowsServer-201-20251023180025 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Your deployment is complete

Deployment name : CreateVm-MicrosoftWindowsServer.... Start time : 10/23/2025, 6:03:46 PM
Subscription : Azure for Students Correlation ID : 341a5471-965d-4be8-9bf5-e4369ba4...
Resource group : myV_group

Deployment details

Next steps

Set up auto-shutdown Recommended
Monitor VM health, performance, and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Give feedback

Tell us about your experience with deployment

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Task 2: Connect to the virtual machine

The screenshot shows the Azure portal interface for a virtual machine named 'myVm'. The left sidebar has a 'Connect' section expanded, showing options like 'Bastion' and 'Windows Admin Center'. The main content area displays the VM's overview, including its resource group ('myV_group'), status ('Running'), location ('Central India (Zone 1)'), subscription ('Azure for Students'), and other details like IP address and DNS name.

Resource group: myV_group

Status: Running

Location: Central India (Zone 1)

Subscription: Azure for Students

Subscription ID: 2abc1374-49a7-48c3-b0a8-366511eba3ea

Availability zone: 1

Operating system: Windows (Windows Server 2019 Datacenter)

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

Primary NIC public IP: 20.40.42.93

Associated public IPs: 1 associated public IPs

Virtual network/subnet: myVm-vnet/default

DNS name: Not configured

Health state: -

Time created: 10/23/2025, 1:04 PM UTC

The screenshot shows the 'Native RDP' connection configuration for the 'myVm' virtual machine. The 'Source machine' is set to 'Windows' with 'Local IP' 43.246.221.82. The 'Destination VM' is set to 'Public IP' 20.40.42.93 on port 3389. Under 'Connection prerequisites', it is noted that port 3389 is accessible from the source IP(s). The 'Connect using RDP file' section includes a download button and a 'Username' field set to 'azureuser'. There is also a 'Forgot password?' link and an 'Edit settings' button.

Source machine: Windows

Source machine OS: Local IP | 43.246.221.82

Destination VM: Public IP | 20.40.42.93

VM port: 3389

Connection prerequisites: Port 3389 is accessible from source IP(s) [View applied NSG rules](#)

Connect using RDP file:

- Download RDP file
- Username: azureuser
- Forgot password? [Reset password](#)

[Edit settings](#)

Task 3: Install the web server role and test

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

PS C:\Users\azureuser> Install-WindowsFeature -name Web-Server -IncludeManagementTools

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

PS C:\Users\azureuser>
```

