

# Introduction to Cloud Computing

## LAB 02

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Section: BSSE 7-B

### Task 1: Create a virtual network

Microsoft Azure

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### Create virtual network

Validation passed

Basics Security IP addresses Tags **Review + create**

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#### Basics

Subscription	Azure for Students
Resource Group	MyResourceGroup
Name	vnet1
Region	Central India

#### Security

Azure Bastion	Disabled
Azure Firewall	Disabled
Azure DDoS Network Protection	Disabled

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### vnet1-1763089193242 | Overview

Deployment

[Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)

**Overview** [Inputs](#) [Outputs](#) [Template](#)

**Your deployment is complete**

Deployment name : vnet1-1763089193242  
Subscription : Azure for Students  
Resource group : MyResourceGroup

Start time : 11/14/2023, 2:01:10 AM  
Correlation ID : 5c7c943c-90c7-4efc-9a2b-d3a00be90ca

[Deployment details](#)

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### Task 2: Create two virtual machines

This screenshot shows the Azure portal interface for a virtual machine named 'HamadVM1'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Bastion, Windows Admin Center, Networking, Settings, Availability + scale, and Security. The main content area displays the 'Overview' tab for HamadVM1, which is a Windows (Windows Server 2025 Datacenter) VM. Key details include: Resource group: MyResourceGroup, Status: Running, Location: Central India (Zone 1), Subscription: Azure for Students, and Availability zone: 1. The Networking section shows a public IP address of 20.197.9.304 and a network interface named 'HamadVM1NIC1'. The bottom of the page shows the 'Virtual machine' section with the computer name 'HamadVM1'.

Property	Value
Resource group	MyResourceGroup
Status	Running
Location	Central India (Zone 1)
Subscription	Azure for Students
Subscription ID	00561442-040c-42c9-828a-e631cd3c448f
Availability zone	1
Operating system	Windows (Windows Server 2025 Datacenter)
Size	Standard D2s v3 (2 vcpus, 8 GB memory)
Primary NIC public IP	20.197.9.304
Virtual network/subnet	vnet1 (vnet-centralindia-1)
DNS name	Not configured
Health state	-
Time created	11/13/2025, 9:08 PM UTC

This screenshot shows the Azure portal interface for a virtual machine named 'HamadVM2'. The left sidebar contains navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Bastion, Windows Admin Center, Networking, Network settings, Load balancing, and Application security groups. The main content area displays the 'Overview' tab for HamadVM2, which is a Windows VM. Key details include: Resource group: MyResourceGroup, Status: Running, Location: Central India (Zone 1), Subscription: Azure for Students, and Availability zone: 1. The Networking section shows a public IP address of 20.180.253.236 and a network interface named 'HamadVM2NIC1'. A warning message at the top indicates that the virtual machine agent status is not ready. The bottom of the page shows the 'Virtual machine' section with the computer name 'HamadVM2'.

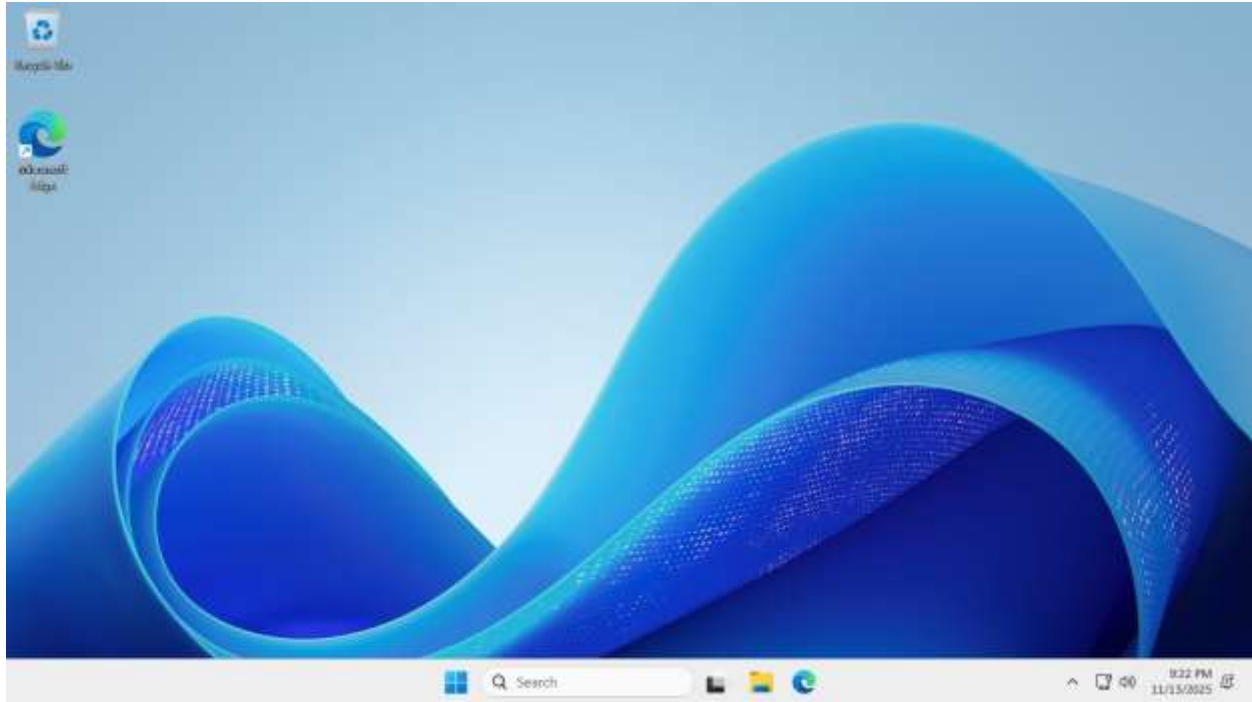
Property	Value
Resource group	MyResourceGroup
Status	Running
Location	Central India (Zone 1)
Subscription	Azure for Students
Subscription ID	00561442-040c-42c9-828a-e631cd3c448f
Availability zone	1
Operating system	Windows
Size	Standard D2s v3 (2 vcpus, 8 GB memory)
Primary NIC public IP	20.180.253.236
Virtual network/subnet	vnet1 (vnet-centralindia-1)
DNS name	Not configured
Health state	-
Time created	11/13/2025, 9:37 PM UTC

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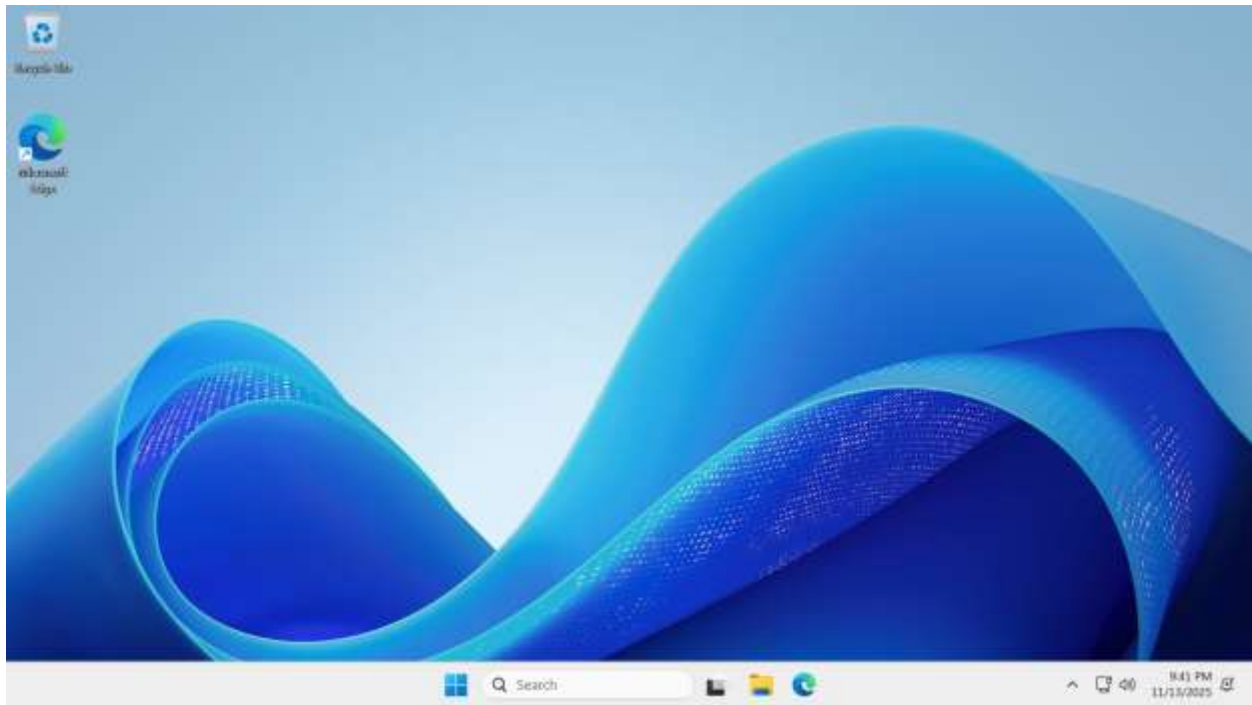
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### Task 3: Test the connection

VM1:



VM2:

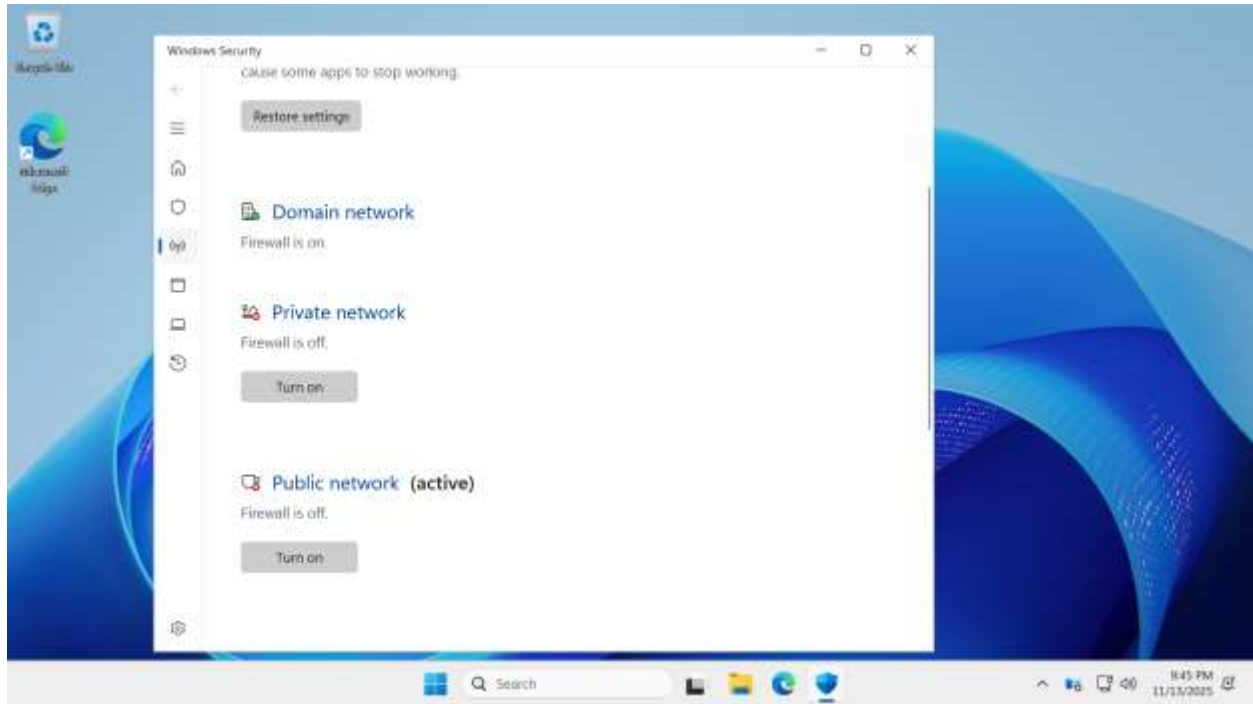


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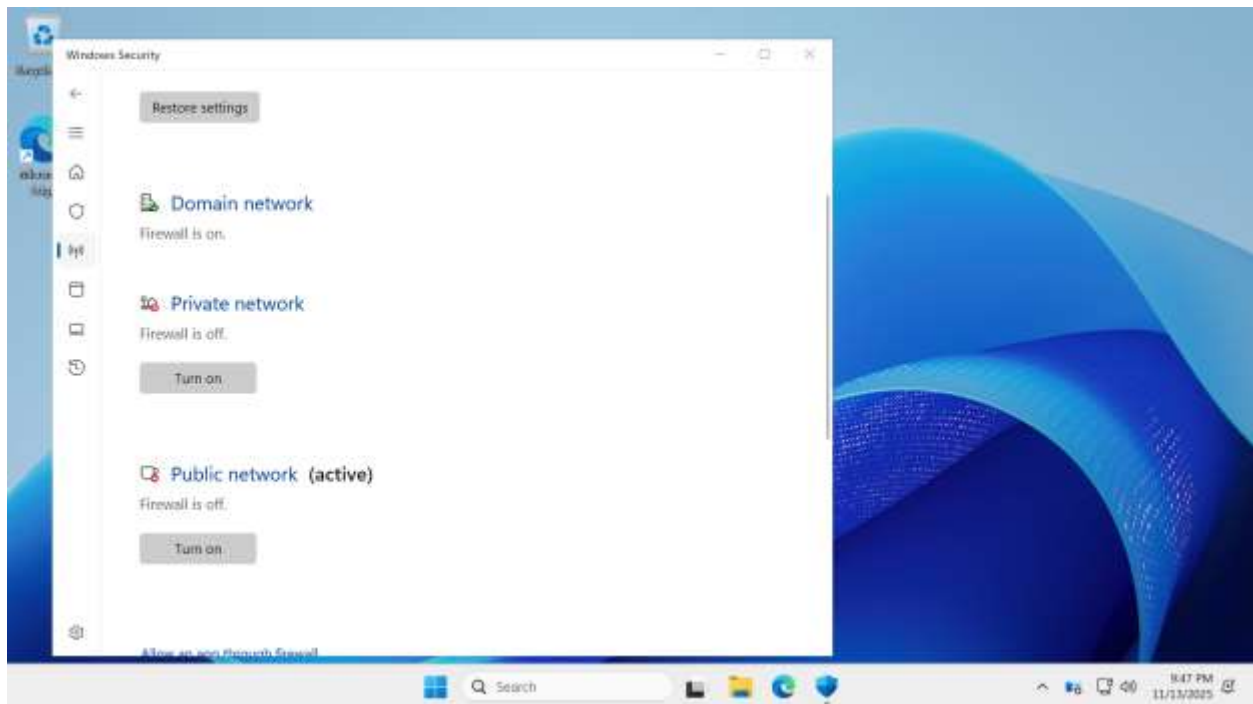
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**Firewall Disabled:**

**VM1:**



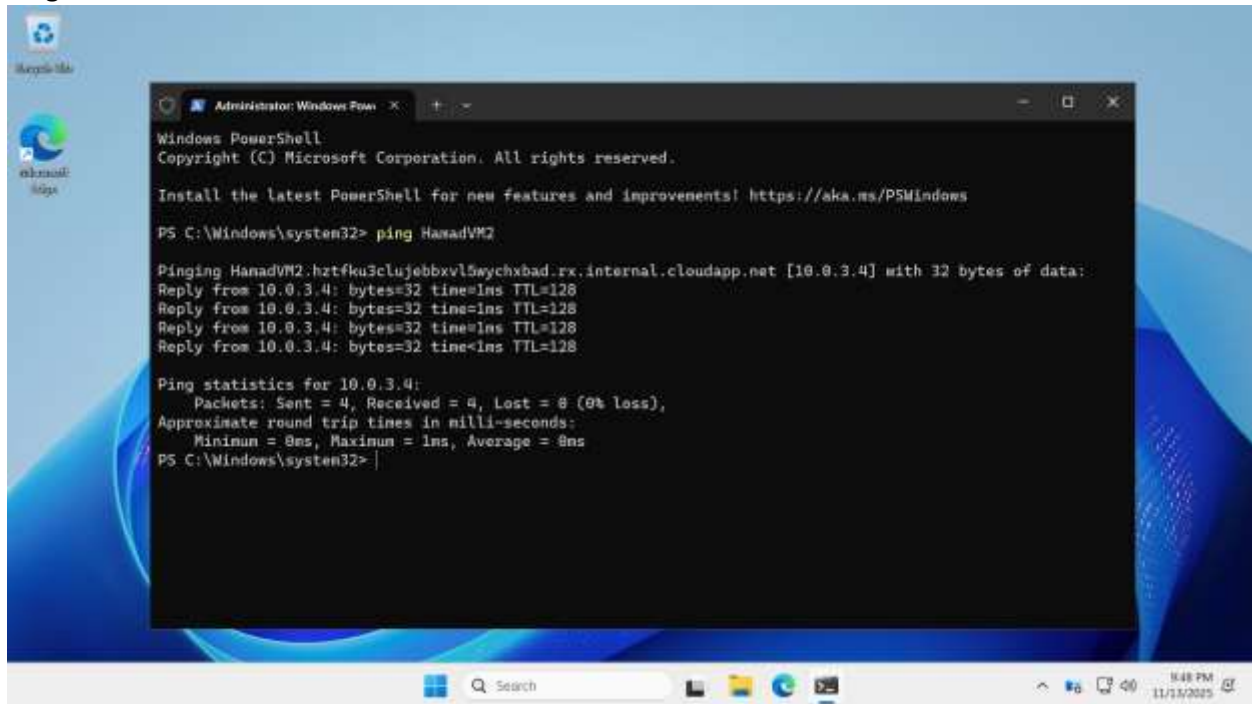
**VM2:**



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Ping:



The screenshot shows a Windows desktop with a blue background. In the center, a Windows PowerShell window titled "Administrator: Windows PowerShell" is open. The window displays the following text:

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

PS C:\Windows\system32> ping HanadVM2

Pinging HanadVM2.hztfku3clujebbxvl5wyxhbad.rx.internal.cloudapp.net [10.0.3.4] with 32 bytes of data:
Reply from 10.0.3.4: bytes=32 time=1ms TTL=128
Reply from 10.0.3.4: bytes=32 time=1ms TTL=128
Reply from 10.0.3.4: bytes=32 time=1ms TTL=128
Reply from 10.0.3.4: bytes=32 time=1ms TTL=128

Ping statistics for 10.0.3.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
PS C:\Windows\system32>
```

The taskbar at the bottom shows the Start button, a search bar, and several application icons. The system tray on the right indicates the time is 10:48 PM on 11/13/2025.