

Introduction to Cloud Computing

LAB 02

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Section: BSSE 7-B

Task 1: Create a virtual network

The screenshot shows the 'Create virtual network' wizard in the Microsoft Azure portal. The 'Validation passed' step is completed. The 'Basics' tab is selected, showing the following configuration:

- Subscription: Azure for Students
- Resource Group: MyResourceGroup
- Name: vnet1
- Region: Central India
- Security:
 - Azure Bastion: Disabled
 - Azure Firewall: Disabled
 - Azure DDoS Network Protection: Disabled

At the bottom, there are 'Previous', 'Next', and 'Create' buttons, along with a 'Download a template for automation' link and a 'Give feedback' button.

The screenshot shows the 'Deployment' overview page for a deployment named 'vnet1-1763089193242'. The status is 'Your deployment is complete'. Deployment details include:

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

Deployment started at 11/14/2025, 2:00:10 AM with Correlation ID: 5c79d3c90c7-4efc-9a5b-d30c03be90ca. The 'Overview' tab is selected, and other tabs for 'Inputs', 'Outputs', and 'Template' are visible. A 'Next steps' section contains a 'Go to resource' button. On the right, there are promotional cards for 'Cost management', 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'.

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Task 2: Create two virtual machines

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Microsoft Azure', a search bar, and various icons. Below the navigation bar, the URL 'https://2280143@szable.pk' and 'DISPLAY DIRECTORY' are visible. The main content area displays the 'Overview' tab for a virtual machine named 'HamadVM1'. The 'Essentials' section provides details such as Resource group (MyResourceGroup), Status (Running), Location (Central India (Zone 1)), Subscription (Azure for Students), Subscription ID (06961442-040c-42c9-828a-ed31c3c3e4ff), Availability zone (1), Operating system (Windows (Windows Server 2025 Datacenter)), Size (Standard D2s v3 (2 vcpus, 8 GB memory)), Primary NIC public IP (21.187.9.304), Virtual network/subnet (vnet1.vnet.centralindia), DNS name (HamadVM1), Health state (Not configured), and Time created (15/13/2025, 9:38 PM UTC). The 'Properties' tab is selected at the bottom.

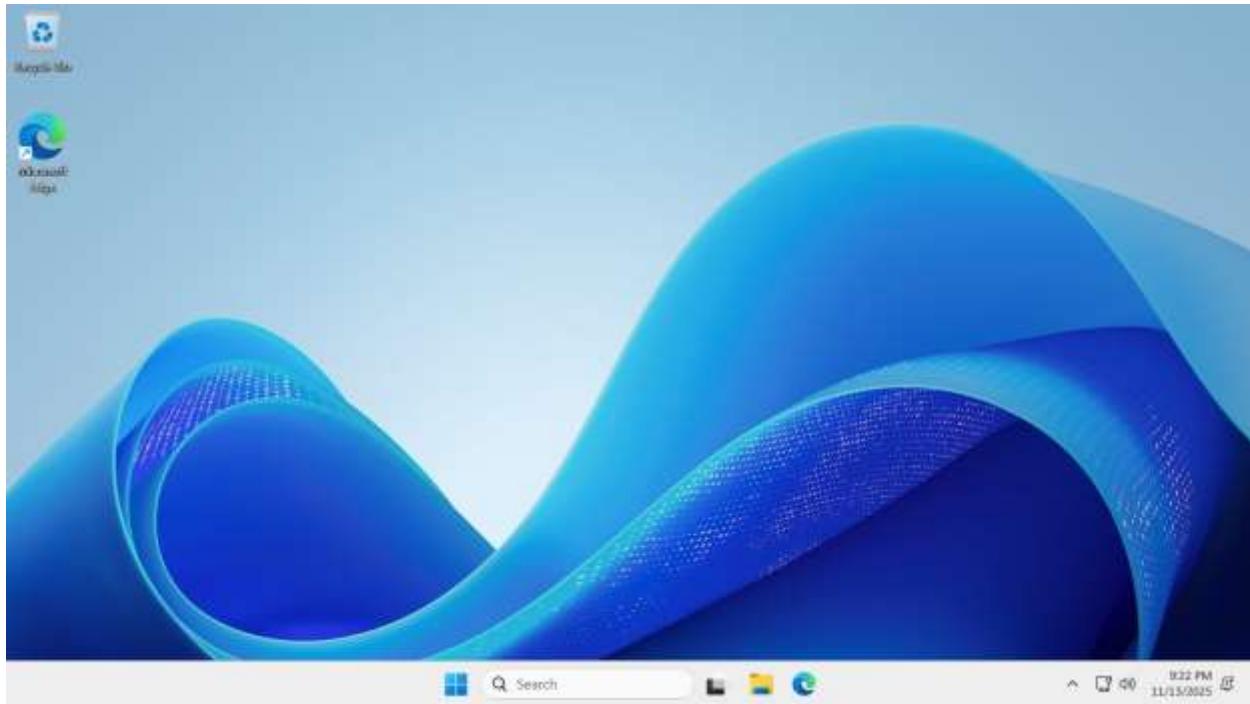
The screenshot shows the Microsoft Azure portal interface, similar to the previous one but for a different virtual machine. The top navigation bar and URL are identical. The main content area displays the 'Overview' tab for a virtual machine named 'HamadVM2'. The 'Essentials' section provides details such as Resource group (MyResourceGroup), Status (Running), Location (Central India (Zone 1)), Subscription (Azure for Students), Subscription ID (06961442-040c-42c9-828a-ed31c3c3e4ff), 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), DNS name (HamadVM2), Health state (Not configured), and Time created (15/13/2025, 9:37 PM UTC). A warning message at the top states: 'HamadVM2 virtual machine agent status is not ready. Troubleshoot the issue.' The 'Properties' tab is selected at the bottom.

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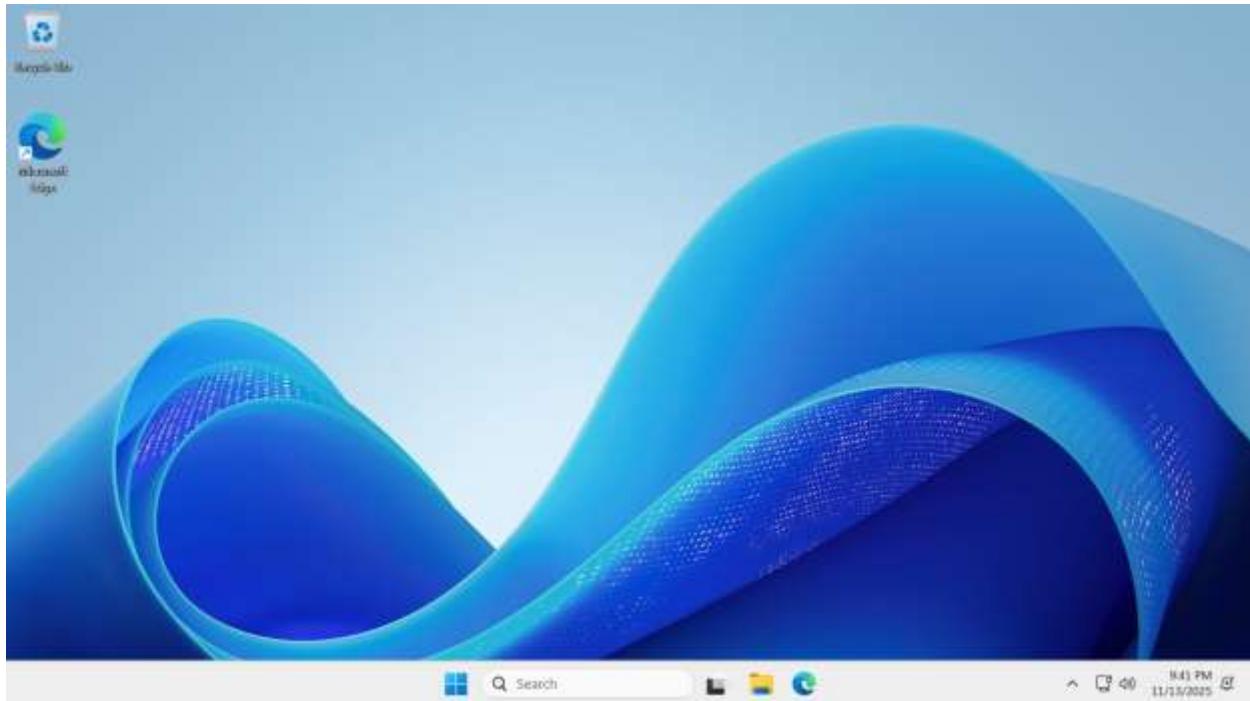
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Task 3: Test the connection

VM1:



VM2:

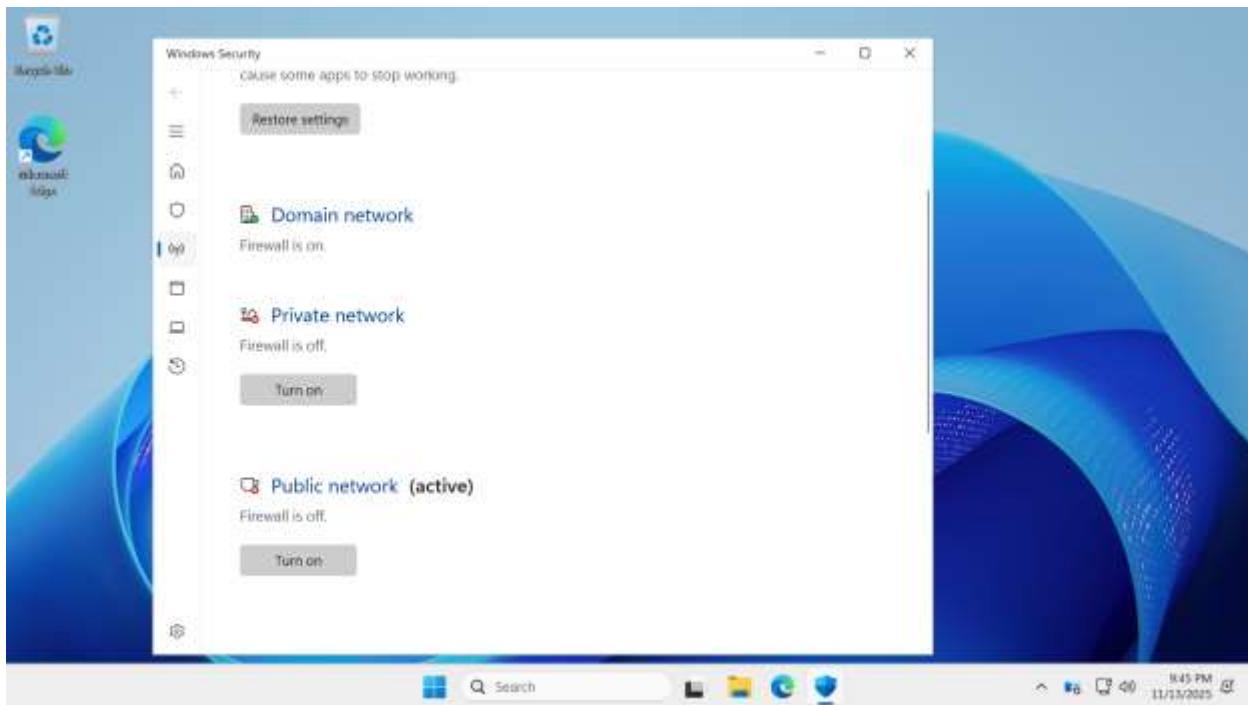


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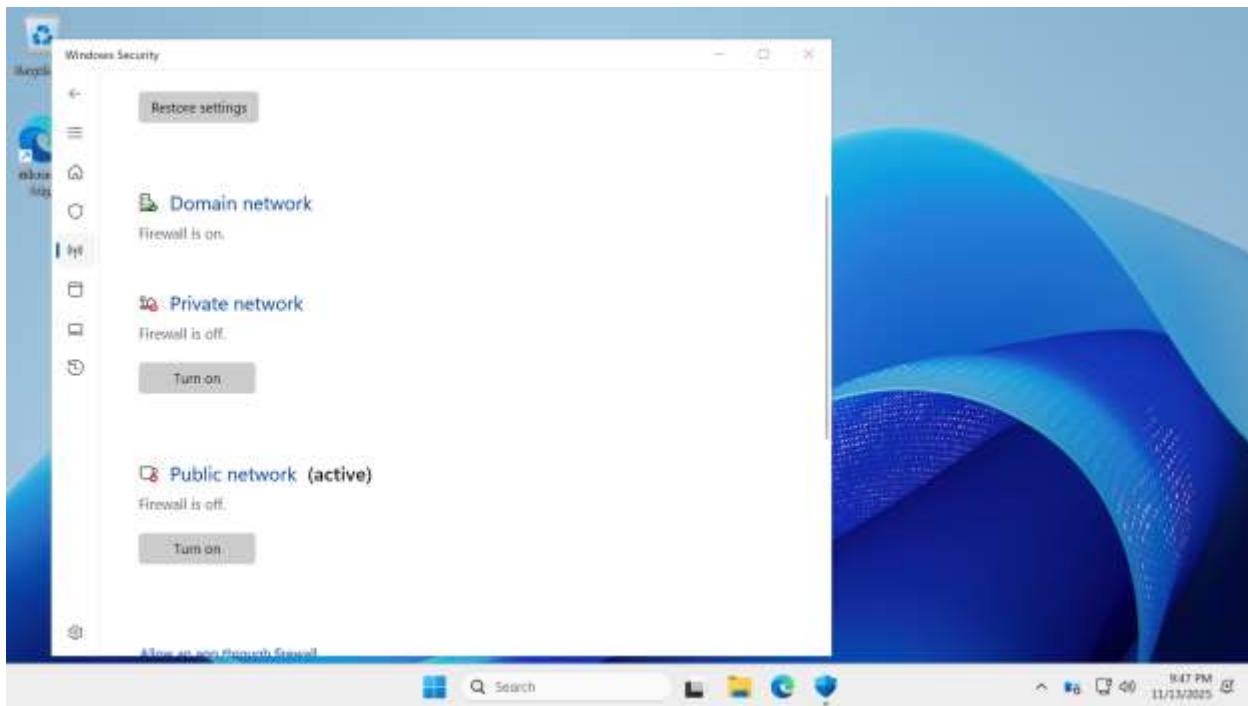
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Firewall Disabled:

VM1:



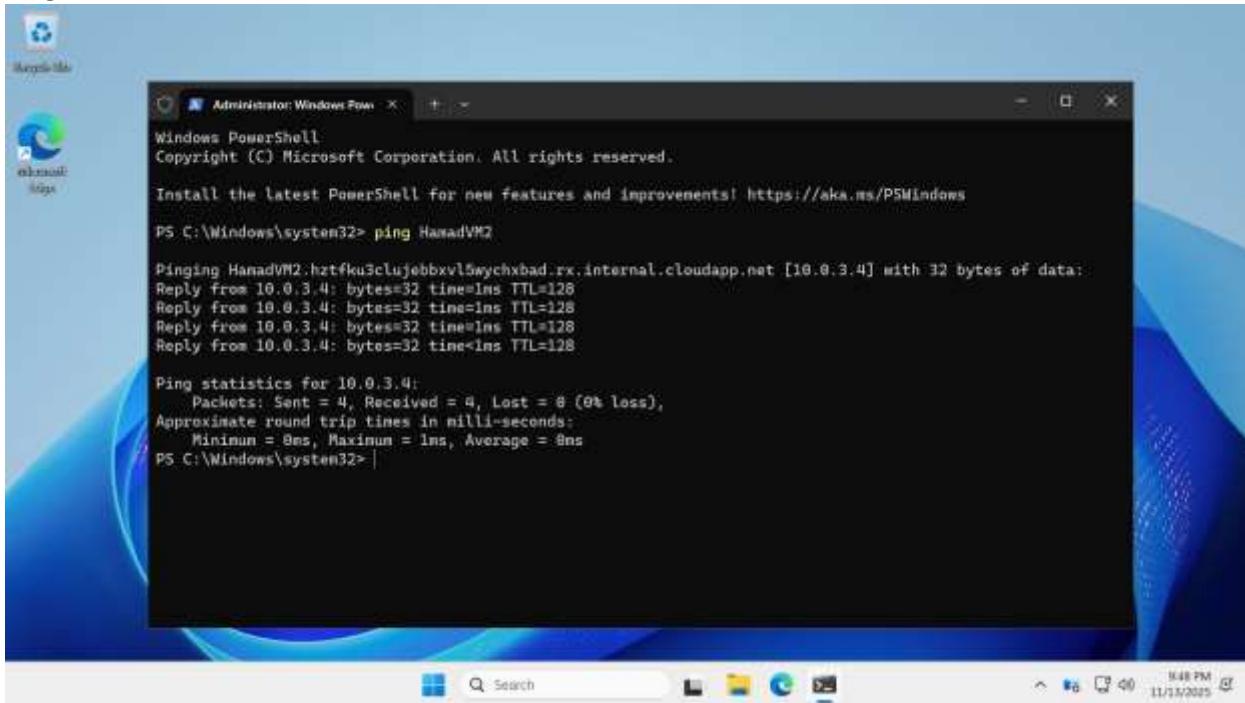
VM2:



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Ping:



A screenshot of a Windows desktop environment showing a PowerShell window titled "Administrator: Windows Pow". The window displays the output of a "ping" command to a cloud VM named "HanadVM2". The output shows four successful replies from the target IP address 10.0.3.4, each with 32 bytes of data and a TTL of 128. Below the replies, ping statistics are provided, indicating 4 packets sent, 0 lost, and an average round-trip time of 8ms.

```
Administrator: Windows Pow -> + - X
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.hztfk3clujebbxv15wychxbad.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 = 8ms, Maximum = 1ms, Average = 8ms
PS C:\Windows\system32>
```