

INTRODUCTION TO CLOUD COMPUTING

Lab Task 02 (Create A Virtual Network)

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Task 1: Create a virtual network

Microsoft Azure

Search resources, services, and docs (G+)

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Home > Network foundation | Virtual networks >

Create virtual network

Validation passed

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

[View automation template](#)

Basics

Subscription	Azure for Students
Resource Group	RG_LAB2
Name	vnet1
Region	East Asia

Security

Azure Bastion	Disabled
Azure Firewall	Disabled

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Home >

vnet1

Virtual network

[Check health of virtual network](#) [Suggest connectivity model for this network](#) [Analyze traffic within this network](#)

[Move](#) [Delete](#) [Refresh](#) [Give feedback](#)

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Settings
- Monitoring
- Automation
- Help

Essentials

Resource group (move)	: RG_LAB2	Address space	: 10.0.0.0/16
Location (move)	: East Asia	Subnets	: 1 subnet
Subscription (move)	: Azure for Students	DNS servers	: Azure provided DNS service
Subscription ID	: 57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43	BGP community string	: Configure
		Virtual network ID	: bd0df19a-d8be-4629-8a75-44dee3e47c35

Tags ([edit](#)) : [Add tags](#)

Topology Properties **Capabilities (5)** Recommendations Tutorials

DDoS protection

Configure additional protection from distributed denial of service attacks.

Azure Firewall

Protect your network with a stateful L3-L7 firewall.

Peerings

Seamlessly connect two or more virtual networks.

[JSON View](#)

Add or remove resources for inspection. View a list of resources.

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Task 2: Create two virtual machines

This screenshot shows the Azure portal interface for a virtual machine named 'ArihaVM1'. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Networking, Settings, Availability + scale, and Security. The main content area displays the 'Essentials' section for the VM, including its resource group (RG_LAB2), status (Running), location (East Asia), and subscription details. A table on the right lists various properties such as the operating system (Windows Server 2025 Datacenter), size (Standard D2s v3), primary NIC public IP (20.2.81.108), and virtual network/subnet (ynet1/snet-eastasia-1).

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Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251118233517 | Overview >

ArihaVM1
Virtual machine

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

Search

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Connect
- Networking
- Settings
- Availability + scale
- Security

Connect | Start | Restart | Stop | Hibernate | Capture | Delete | Refresh | Open in mobile | Feedback

Essentials [JSON View](#)

Resource group (move)	Operating system
RG_LAB2	Windows (Windows Server 2025 Datacenter)
Status	Size
Running	Standard D2s v3 (2 vcpus, 8 GiB memory)
Location	Primary NIC public IP
East Asia (Zone 1)	20.2.81.108
Subscription (move)	1 associated public IPs
Azure for Students	Virtual network/subnet
Subscription ID	ynet1/snet-eastasia-1
57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43	DNS name
Availability zone	Not configured
1	Health state
	-

Add or remove favorites by pressing Ctrl+Shift+F

This screenshot shows the Azure portal interface for a second virtual machine named 'ArihaVM2'. The layout is identical to the first screenshot, showing the 'Essentials' section with details for resource group (RG_LAB2), status (Running), location (East Asia), and subscription. The properties table on the right shows a different primary NIC public IP (20.2.233.135) and a different virtual network/subnet (ynet1/snet-eastasia-2).

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Home > CreateVm-MicrosoftWindowsServer.WindowsServer-202-20251118235529 | Overview >

ArihaVM2
Virtual machine

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

Search

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Connect
- Networking
- Settings
- Availability + scale
- Security

Connect | Start | Restart | Stop | Hibernate | Capture | Delete | Refresh | Open in mobile | Feedback

Essentials [JSON View](#)

Resource group (move)	Operating system
RG_LAB2	Windows (Windows Server 2025 Datacenter)
Status	Size
Running	Standard_D2s_v3
Location	Primary NIC public IP
East Asia (Zone 1)	20.2.233.135
Subscription (move)	1 associated public IPs
Azure for Students	Virtual network/subnet
Subscription ID	ynet1/snet-eastasia-2
57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43	DNS name
Availability zone	Not configured
1	Health state
	-

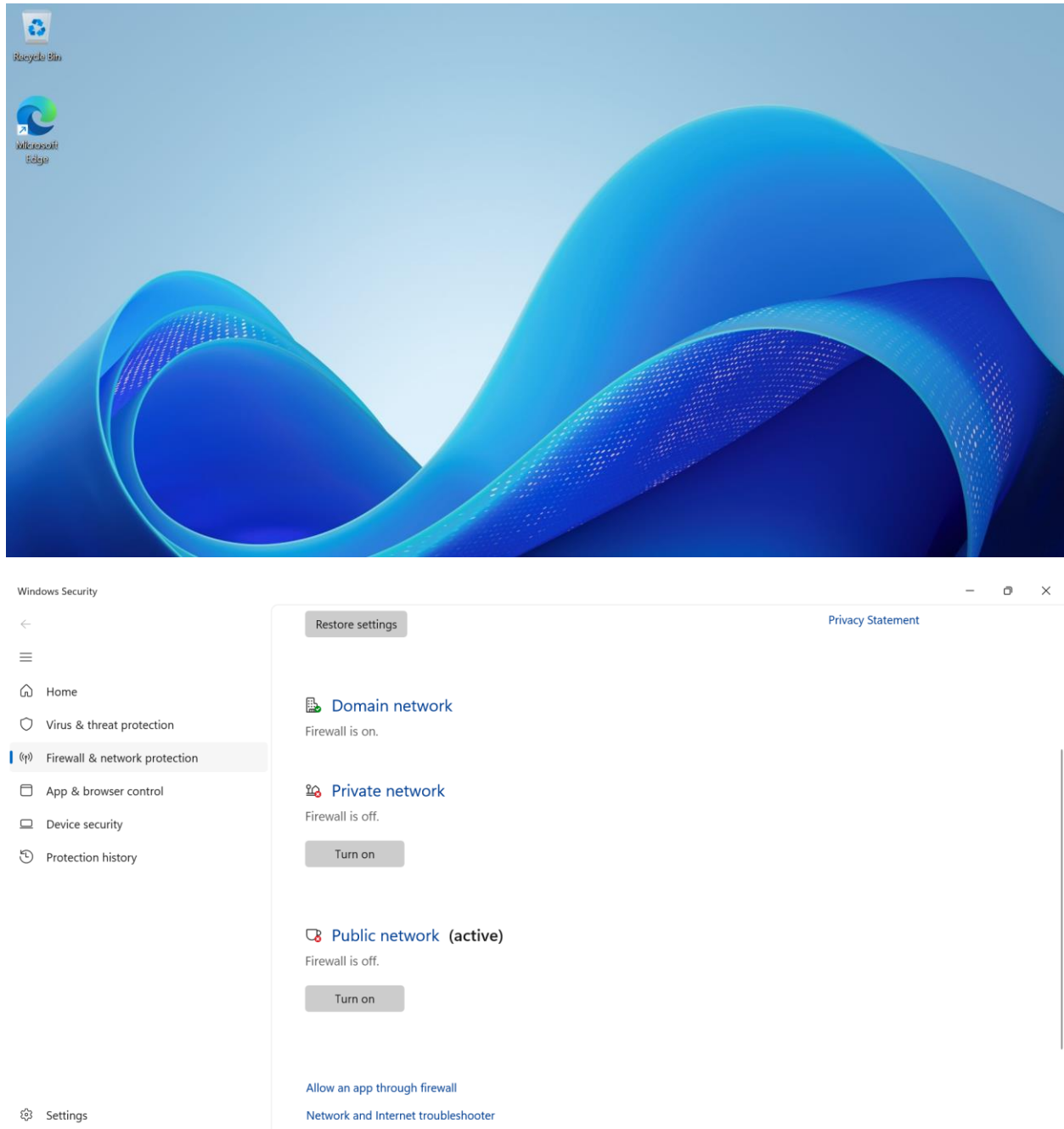
Add or remove favorites by pressing Ctrl+Shift+F

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Task 3: Test the connection

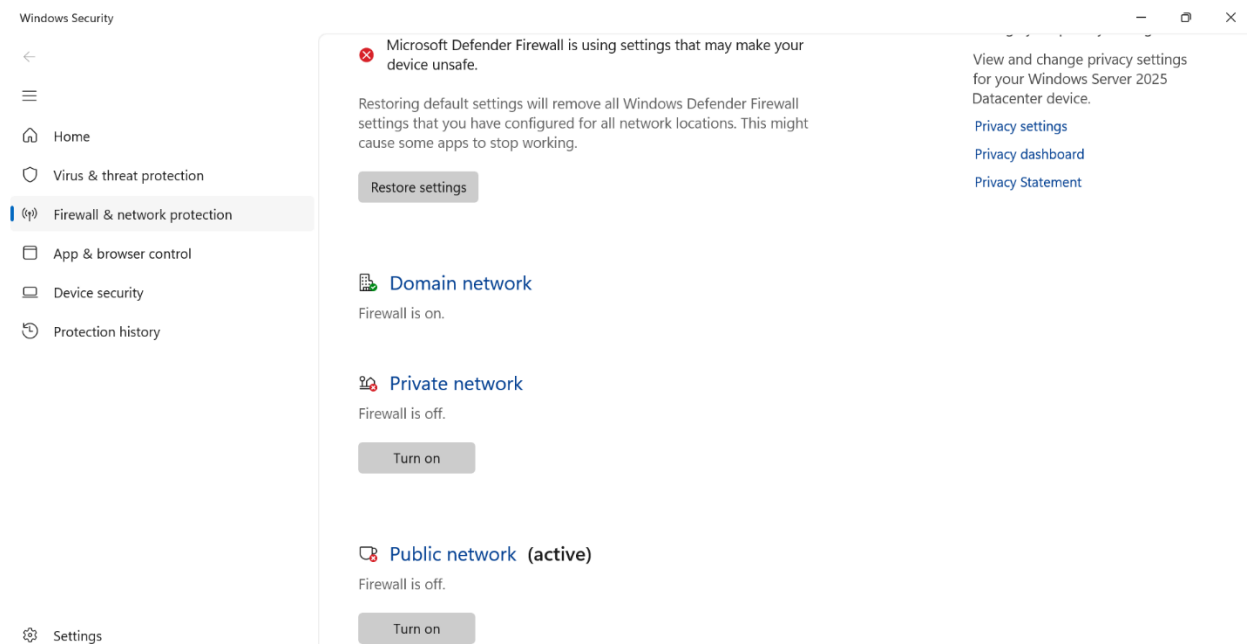
VM1:



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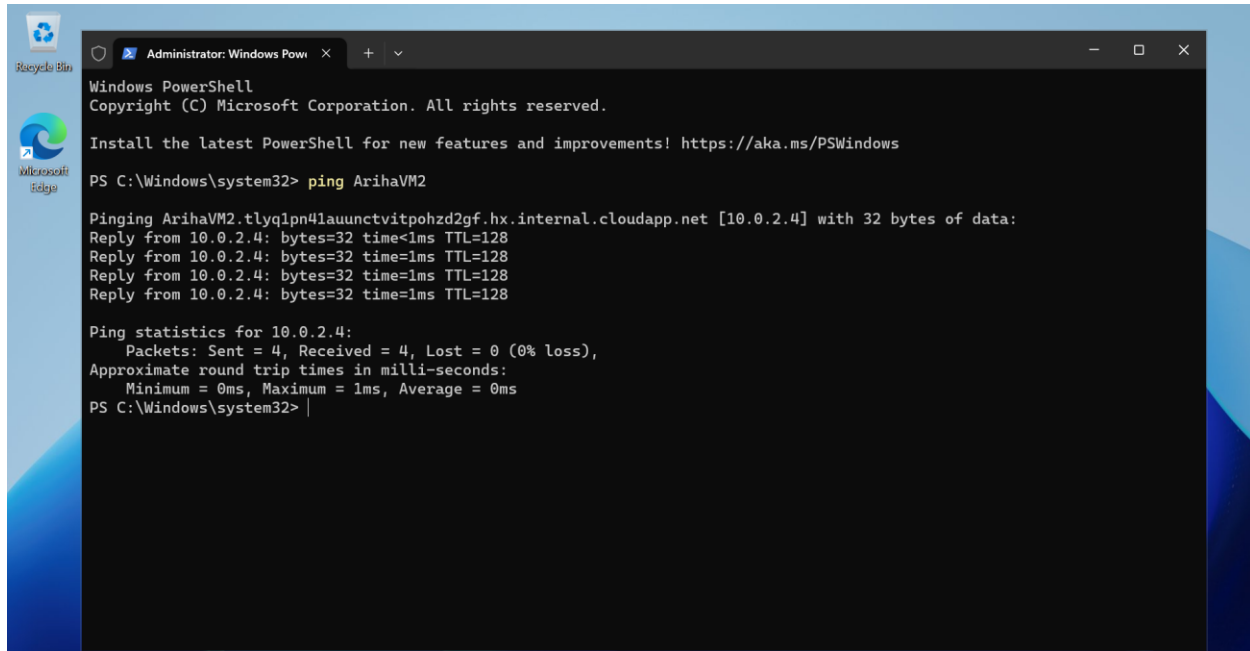
VM2:



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PING FROM VM1 TO VM2:



The screenshot shows a Windows PowerShell window titled "Administrator: Windows Powe...". 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 ArihaVM2

Pinging ArihaVM2.tlyq1pn41auunctvitpohzd2gf.hx.internal.cloudapp.net [10.0.2.4] with 32 bytes of data:
Reply from 10.0.2.4: bytes=32 time<1ms TTL=128
Reply from 10.0.2.4: bytes=32 time=1ms TTL=128
Reply from 10.0.2.4: bytes=32 time=1ms TTL=128
Reply from 10.0.2.4: bytes=32 time=1ms TTL=128

Ping statistics for 10.0.2.4:
    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> |
```