

Microsoft Azure



Project Report: Azure Hub-and-Spoke Network Topology

Team members:

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Introduction

Project Title: Azure Hub-and-Spoke Network Topology Deployment

Project Objective: To design, deploy, and document a basic hub-and-spoke cloud network topology on Microsoft Azure, establish VNet peering, and publish a web application within the network, with a focus on cost optimization and core Azure skills.

Project Requirements

Topology: Hub-and-Spoke network model with one Hub VNet and three Spoke VNets (Spoke-1, Spoke-2, Spoke-3).

Connectivity:

VNet peering configured between the Hub VNet and each Spoke VNet.

Traffic forwarding enabled to allow communication between Spoke VNets through the Hub VNet (acting as a central router).

Subnetting: Implementation of subnets within both the Hub and Spoke VNets for organizational purposes.

Web Application Deployment:

Deployment of a simple Azure Web App Service.

Hosting of a basic static website or Azure Starter App.

Configuration for public accessibility via a Public IP address.

Security: Implementation of Network Security Groups (NSGs) to control inbound and outbound traffic at the VNet and subnet levels, including rules to allow HTTP (port 80) and HTTPS (port 443) traffic.

Monitoring: Enabling Azure Monitor or utilizing basic azure

Cost Estimation and Optimization: Analysis of the costs associated with the deployed resources and identification of potential budget optimization strategies (Total Cost of Ownership - TCO).

Design and Planning

Network Architecture Diagram:

Microsoft Azure

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CloudProject-RG

Overview

Essentials

Resources Recommendations (13)

Filter for any field...

Type equals Virtual network

Location equals all

Add filter

Showing 1 to 4 of 4 records.

Show hidden types

No grouping

List view

Name	Type	Location
Hub-VNet	Virtual network	Italy North
Spoke-1-VNet	Virtual network	Italy North
Spoke-2-VNet	Virtual network	Italy North
Spoke-3-VNet	Virtual network	Italy North

Previous Page 1 of 1 Next

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Home > CloudProject-RG > Hub-VNet

Hub-VNet | Peerings

Virtual network

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peerings

Service endpoints

Private endpoints

Properties

Locks

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. [Learn more](#)

Filter by name...

Showing all 3 items

Name	Peering sync status	Peering...	Remo...	Virtu...	Cross-tenant
ANM_22740FFA83EB4B03043CC7E_Hub-VNet_Spo...	Fully Synchronized	Connect ed	Spoke-1...	Disabled	No
ANM_22740FFA83EB4B03043CC7E_Hub-VNet_Spo...	Fully Synchronized	Connect ed	Spoke-2...	Disabled	No
ANM_22740FFA83EB4B03043CC7E_Hub-VNet_Spo...	Fully Synchronized	Connect ed	Spoke-3...	Disabled	No

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<https://portal.azure.com/#@hm2922fayoumedu.onmicrosoft.com/resource/subscriptions/1edf0b2d-1d2f-419d-8bb1-9b09f46f2e3/resourceGroups/CloudProject-RG/providers/Microsoft.Network/virtualNetworks/Hub-VNet/peerings>

Microsoft Azure

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Home > Spoke-1-VNet

Spoke-1-VNet | Peerings

Virtual network

Search

+ Add Refresh Export to CSV Delete Sync

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. [Learn more](#)

Filter by name...

Showing all 1 items

<input type="checkbox"/>	Name	Peering sync status	Peering...	Remo...	Virtu...	Cross-tenant
<input type="checkbox"/>	ANM_22740FFA83E84B03043CC7E_Spoke-1-VNet...	Fully Synchronized	Connect ed	Hub-VNet	Disabled	No

[Give feedback](#)

<https://portal.azure.com/#@hm2922fayoumedu.onmicrosoft.com/resource/subscriptions/1edf0b2d-1d2f-4194-8bb1-9b0946ff2e3/resourceGroups/CloudProject-RG/providers/Microsoft.Network/virtualNetworks/Spoke-1-VNet/peerings>

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Home > Spoke-2-VNet

Spoke-2-VNet | Peerings

Virtual network

Search

+ Add Refresh Export to CSV Delete Sync

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. [Learn more](#)

Filter by name...

Showing all 1 items

<input type="checkbox"/>	Name	Peering sync status	Peering...	Remo...	Virtu...	Cross-tenant
<input type="checkbox"/>	ANM_22740FFA83E84B03043CC7E_Spoke-2-VNet...	Fully Synchronized	Connect ed	Hub-VNet	Disabled	No

[Give feedback](#)

<https://portal.azure.com/#@hm2922fayoumedu.onmicrosoft.com/resource/subscriptions/1edf0b2d-1d2f-4194-8bb1-9b0946ff2e3/resourceGroups/CloudProject-RG/providers/Microsoft.Network/virtualNetworks/Spoke-2-VNet/peerings>

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Home > Spoke-3-VNet

Spoke-3-VNet | Peerings

Virtual network

Search

+ Add Refresh Export to CSV Delete Sync

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes. [Learn more](#)

Filter by name...

Showing all 1 items

<input type="checkbox"/>	Name	Peering sync status	Peering...	Remo...	Virtu...	Cross-tenant
<input type="checkbox"/>	ANM_22740FFA83E84B03043CC7E_Spoke-3-VNet...	Fully Synchronized	Connect ed	Hub-VNet	Disabled	No

[Give feedback](#)

<https://portal.azure.com/#@hm2922fayoumedu.onmicrosoft.com/resource/subscriptions/1edf0b2d-1d2f-4194-8bb1-9b0946ff2e3/resourceGroups/CloudProject-RG/providers/Microsoft.Network/virtualNetworks/Spoke-3-VNet/peerings>

VNet and Subnet Planning

This screenshot shows the 'Hub-VNet | Subnets' page in the Microsoft Azure portal. The left-hand navigation pane includes links to Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Settings, Address space, Connected devices, Subnets (selected), Bastion, DDoS protection, Firewall, Microsoft Defender for Cloud, and Network manager. The main content area features a search bar, '+ Subnet', 'Refresh', 'Manage users', and 'Delete' buttons. Below this is a table of subnets with columns: Name, IPv4, IPv6, Available IPs, Delegated to, Security group, and Route table. The table lists three subnets: GatewaySubnet, AzureBastionSubn..., and default. A 'Showing 3 subnets' message is at the bottom, along with a 'Give feedback' link.

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
GatewaySubnet	10.0.1.0/24	-	availability ...	-	-	-
AzureBastionSubn...	10.0.2.0/26	-	57	-	-	-
default	10.0.0.0/24	-	249	-	hassnaa9-n...	-

This screenshot shows the 'Spoke-1-VNet | Subnets' page in the Microsoft Azure portal. The left-hand navigation pane includes links to Tags, Diagnose and solve problems, Resource visualizer, Settings, Address space, Connected devices, Subnets (selected), Bastion, DDoS protection, Firewall, Microsoft Defender for Cloud, Network manager, DNS servers, Peering, and Service endpoints. The main content area features a search bar, '+ Subnet', 'Refresh', 'Manage users', and 'Delete' buttons. Below this is a table of subnets with columns: Name, IPv4, IPv6, Available IPs, Delegated to, Security group, and Route table. The table lists three subnets: Web-Subnet, AzureBastionSubn..., and default. A 'Showing 3 subnets' message is at the bottom, along with a 'Give feedback' link.

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
Web-Subnet	10.1.1.0/24	-	251	-	-	-
AzureBastionSubn...	10.1.2.0/26	-	59	-	-	-
default	10.1.0.0/24	-	250	-	spoke-1-nsg	-

This screenshot shows the 'Spoke-2-VNet | Subnets' page in the Microsoft Azure portal. The left-hand navigation pane includes links to Bastion, DDoS protection, Firewall, Microsoft Defender for Cloud, Network manager, DNS servers, Peering, Service endpoints, Private endpoints, Properties, Locks, Monitoring, Automation, and Help. The main content area features a search bar, '+ Subnet', 'Refresh', 'Manage users', and 'Delete' buttons. Below this is a table of subnets with columns: Name, IPv4, IPv6, Available IPs, Delegated to, Security group, and Route table. The table lists three subnets: AppSubnet, default, and AzureBastionSubn.... A 'Showing 3 subnets' message is at the bottom, along with a 'Give feedback' link.

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
AppSubnet	10.2.1.0/24	-	251	-	-	-
default	10.2.0.0/24	-	250	-	spoke-2-nsg	-
AzureBastionSubn...	10.2.2.0/26	-	59	-	-	-

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DEFAULT DIRECTORY

Home > Spoke-3-VNet

Spoke-3-VNet | Subnets

Virtual network

Search

+ Subnet

Refresh

Manage users

Delete

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peerings

Service endpoints

Private endpoints

Properties

Locks

Monitoring

Automation

Help

Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet.

Search subnets

	Name ↑	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table		
<input type="checkbox"/>	MI.Subnet	10.3.1.0/24	-	251	-	-	-		
<input type="checkbox"/>	default	10.3.0.0/24	-	250	-	spoke-3-nsg	-		

Showing 2 subnets

Give feedback

Add or remove favorites by pressing Ctrl+Shift+F

NSG Rule Planning

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Home >

CloudProject-RG

Resource group

Search

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Cost Management

Monitoring

Automation

Help

Essentials

Resources

Recommendations (13)

Filter for any field...

Type equals Network security group

Location equals all

Add filter

Showing 1 to 5 of 5 records.

Show hidden types

No grouping

List view

Name	Type	Location
hassnaa9-nsg	Network security group	Italy North
NSG	Network security group	Italy North
spoke-1-nsg	Network security group	Italy North
spoke-2-nsg	Network security group	Italy North
spoke-3-nsg	Network security group	Italy North

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Home >

hassnaa9-nsg

Network security group

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Access control (IAM)

Tags

Diagnose and solve problems

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Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

Automation

Essentials

Resource group (move): CloudProject-RG

Location: Italy North

Subscription (move): Azure for Students

Subscription ID: 1edf0b2d-1d2f-419d-8bb1-9b09f46ff2e3

Tags (edit): Add tags

Custom security rules: 4 inbound, 0 outbound

Associated with: 1 subnets, 1 network interfaces

Filter by name

Port == all

Protocol == all

Source == all

Destination == all

Action == all

Priority	Name	Port	Protocol	Source	Destination	Action
310	Allow-HTTP	80	TCP	Any	Any	Allow
320	Allow-HTTPS	443	TCP	Any	Any	Allow
330	Allow-RDP	3389	TCP	Any	Any	Allow
340	Allow-ICMP	Any	ICMP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

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Home >

spoke-1-nsg

Network security group

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Location: Italy North

Subscription (move): Azure for Students

Subscription ID: 1edf0b2d-1d2f-419d-8bb1-9b09f46ff2e3

Tags (edit): Add tags

Custom security rules: 3 inbound, 0 outbound

Associated with: 1 subnets, 1 network interfaces

Filter by name

Port == all

Protocol == all

Source == all

Destination == all

Action == all

Priority	Name	Port	Protocol	Source	Destination	Action
100	Allow-HTTP	80	TCP	Any	Any	Allow
110	Allow-HTTPS	443	TCP	Any	Any	Allow
300	Allow-RDP	3389	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Outbound Security Rules

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Home >

spoke-2-nsg

Network security group

Search

Move Delete Refresh Give feedback

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Activity log

Access control (IAM)

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Diagnose and solve problems

Resource visualizer

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

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Monitoring

Automation

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Essentials

Resource group (move): [CloudProject-RG](#)

Location: Italy North

Subscription (move): [Azure for Students](#)

Subscription ID: 1edf0b2d-1d2f-419d-8bb1-9b09f46ff2e3

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

Custom security rules: 4 inbound, 0 outbound

Associated with: 1 subnets, 1 network interfaces

Filter by name

Port == all Protocol == all Source == all Destination == all Action == all

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound Security Rules						
110	Allow-HTTP	80	TCP	Any	Any	Allow
120	Allow-HTTPs	443	TCP	Any	Any	Allow
130	AllowAnyRDPInbo...	3389	TCP	Any	Any	Allow
140	Allow-ICMP	Any	ICMP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalan...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

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spoke-3-nsg

Network security group

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Diagnose and solve problems

Resource visualizer

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Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

Automation

Add or remove favorites by pressing Ctrl+Shift+F

Essentials

Resource group (move): [CloudProject-RG](#)

Location: Italy North

Subscription (move): [Azure for Students](#)

Subscription ID: 1edf0b2d-1d2f-419d-8bb1-9b09f46ff2e3

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

Custom security rules: 4 inbound, 0 outbound

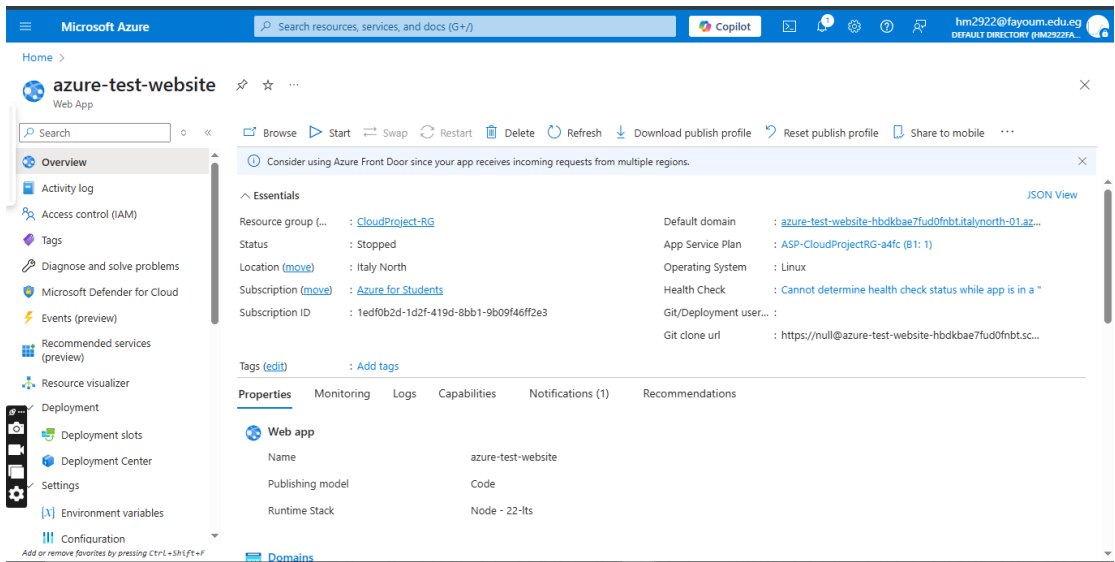
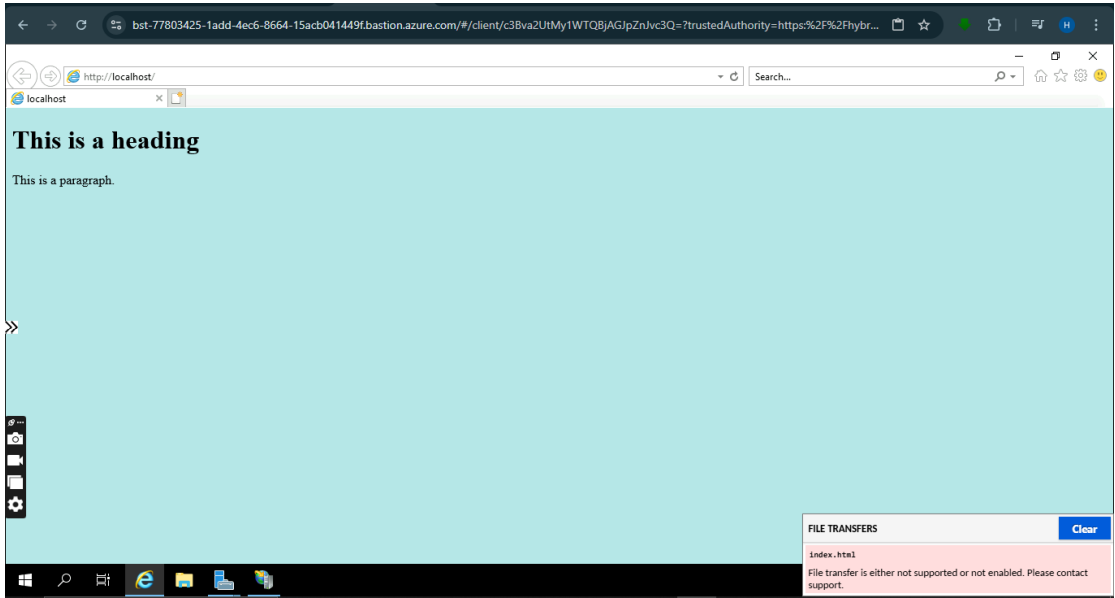
Associated with: 1 subnets, 1 network interfaces

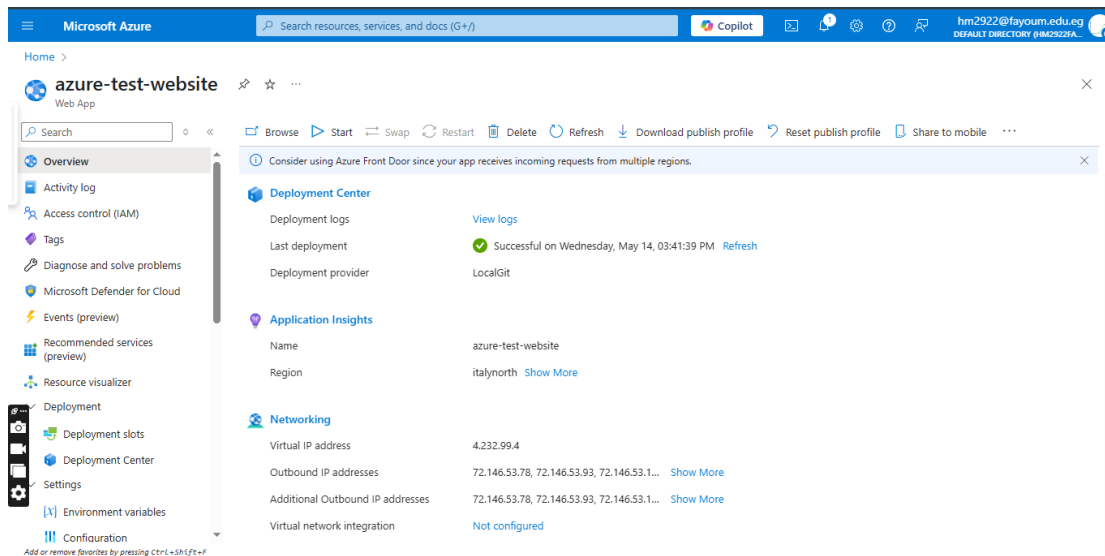
Filter by name

Port == all Protocol == all Source == all Destination == all Action == all

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound Security Rules						
100	Allow-HTTP	80	TCP	Any	Any	Allow
110	Allow-HTTPs	443	TCP	Any	Any	Allow
120	Allow-RDP	3389	TCP	Any	Any	Allow
130	Allow-ICMP	Any	ICMP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalan...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Web Application Configuration

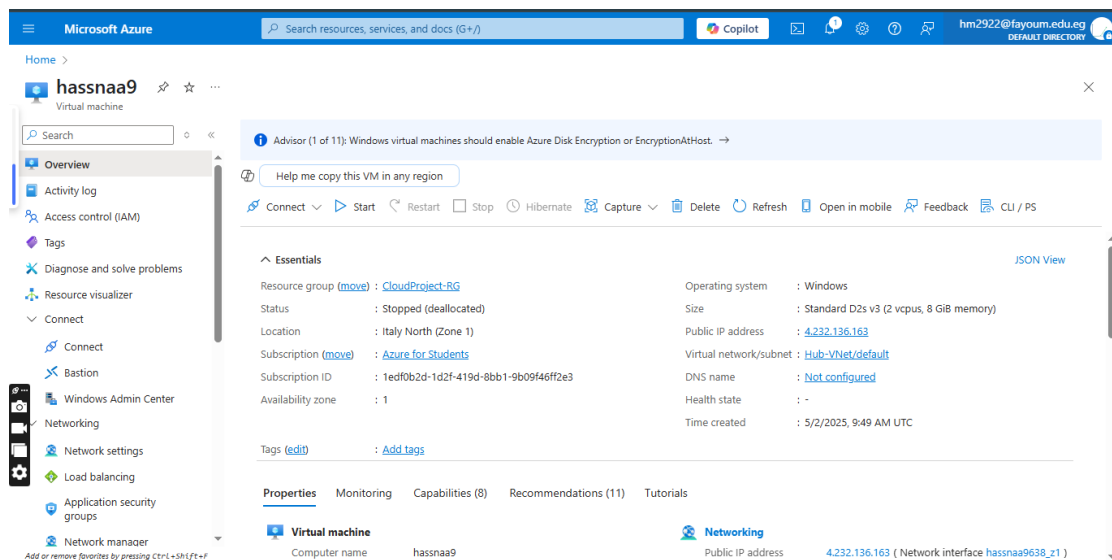




Verifying Network Connectivity (Ping Tests)

This section details the steps taken to ensure proper network connectivity between virtual machines deployed within the Hub VNet and the Spoke VNets. The ping utility is used to test the reachability of VMs across the peered virtual networks.

Deploy a VM in the Hub , Spokes VNet



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Home >

spoke-2-VM

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Connect

Bastion

Windows Admin Center

Networking

Network settings

Load balancing

Application security groups

Network manager

Advisor (1 of 5): Windows virtual machines should enable Azure Disk Encryption or EncryptionAtHost. →

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Essentials

Resource group (move): CloudProject-RG

Status: Stopped (deallocated)

Location: Italy North (Zone 1)

Subscription (move): Azure for Students

Subscription ID: 1edf0b2d-1d2f-419d-8bb1-9b09f46ff2e3

Availability zone: 1

Operating system: Windows

Size: Standard E2s v3 (2 vcpus, 16 GiB memory)

Public IP address: -

Virtual network/subnet: Spoke-2-VNet/default

DNS name: -

Health state: -

Time created: 5/3/2025, 12:25 PM UTC

Tags (edit): Add tags

JSON View

Properties Monitoring Capabilities (8) Recommendations (5) Tutorials

Virtual machine

Computer name: spoke-2-VM

Public IP address: -

Microsoft Azure

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Home >

spoke-3-VM

Virtual machine

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Connect

Connect

Bastion

Windows Admin Center

Networking

Network settings

Load balancing

Application security groups

Network manager

Advisor (1 of 5): Machines should be configured to periodically check for missing system updates. →

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Essentials

Resource group (move): CloudProject-RG

Status: Stopped (deallocated)

Location: Italy North (Zone 1)

Subscription (move): Azure for Students

Subscription ID: 1edf0b2d-1d2f-419d-8bb1-9b09f46ff2e3

Availability zone: 1

Operating system: Windows

Size: Standard E2s v3 (2 vcpus, 16 GiB memory)

Public IP address: -

Virtual network/subnet: Spoke-3-VNet/default

DNS name: -

Health state: -

Time created: 5/3/2025, 4:09 PM UTC

Tags (edit): Add tags

JSON View

Properties Monitoring Capabilities (8) Recommendations (5) Tutorials

Virtual machine

Computer name: spoke-3-VM

Public IP address: -

Configuring Network Security Groups for ICMP:

- To allow ping (which uses the Internet Control Message Protocol - ICMP), inbound rules need to be added to the Network Security Groups associated with the subnets where the test VMs are deployed.

The screenshot displays the Microsoft Azure portal interface for the 'hassnaa9-nsg' Network Security Group. The left-hand navigation pane shows various management options, with 'Settings' expanded to show 'Inbound security rules' and 'Outbound security rules'. The main pane shows the 'Inbound Security Rules' table, which lists rules for allowing HTTP, HTTPS, RDP, and ICMP traffic. A red arrow points to the 'Allow-ICMP' rule, which is highlighted. The rule has a priority of 340, is named 'Allow-ICMP', and allows ICMP traffic from any source to any destination.

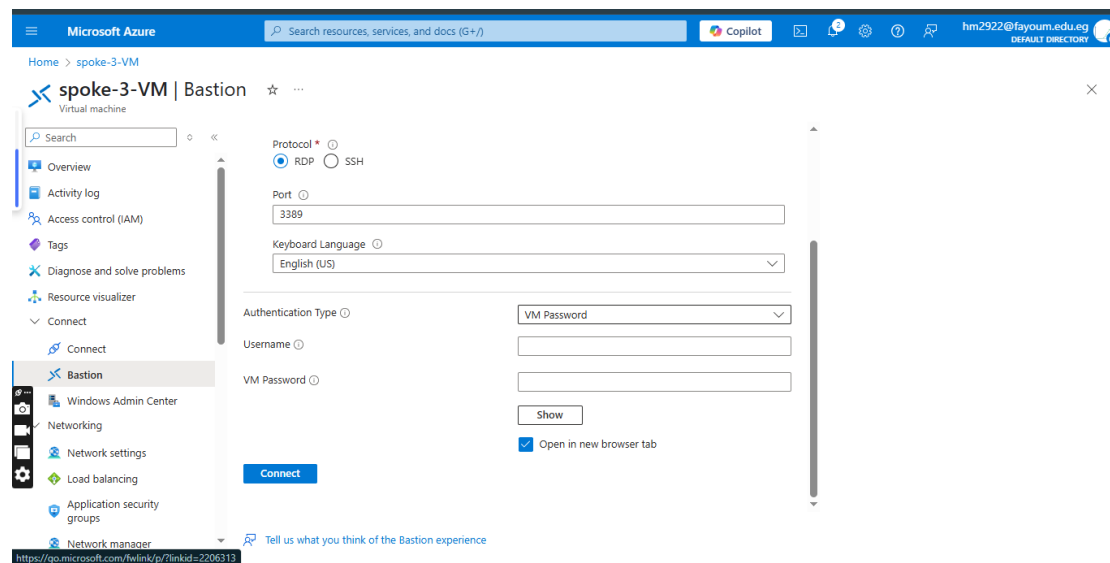
Priority	Name	Port	Protocol	Source	Destination	Action
310	Allow-HTTP	80	TCP	Any	Any	Allow
320	Allow-HTTPS	443	Any	Any	Any	Allow
330	RDP	3389	TCP	Any	Any	Allow
340	Allow-ICMP	Any	ICMP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalanc...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Outbound Security Rules

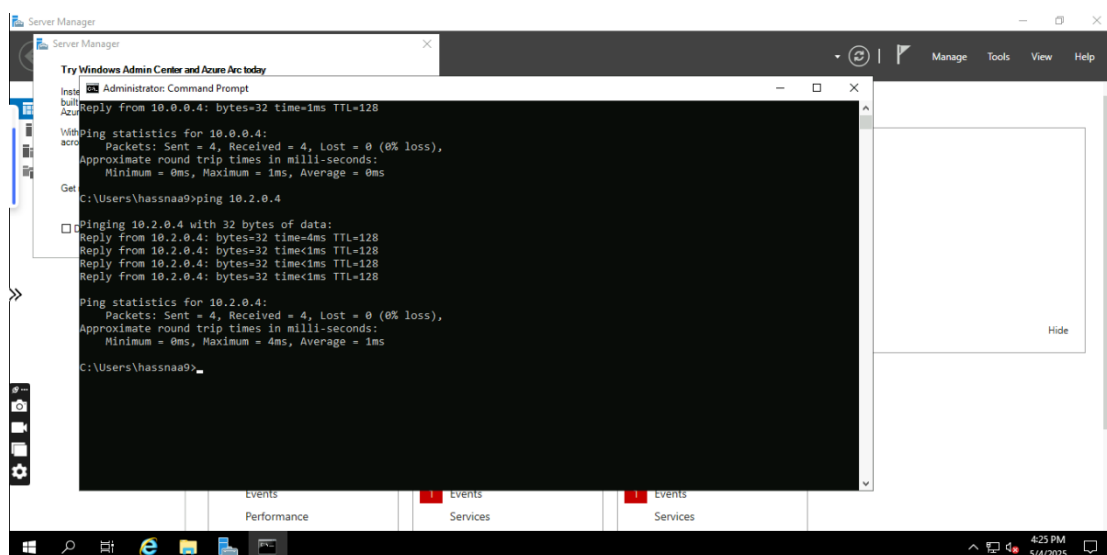
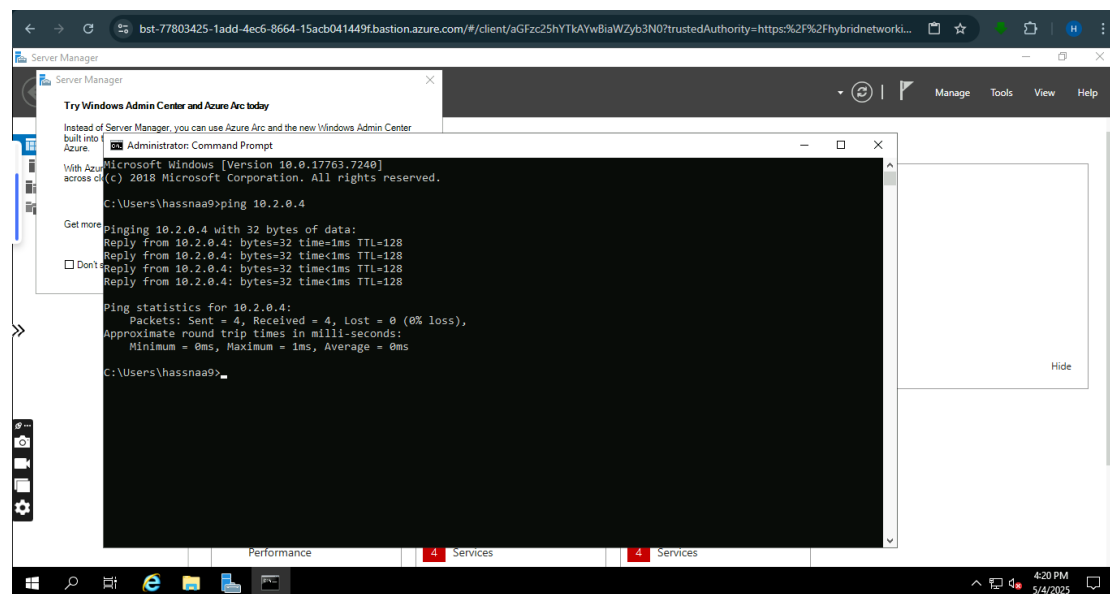
Priority	Name	Port	Protocol	Source	Destination	Action
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Ping Tests from Hub VM to Spoke VMs:

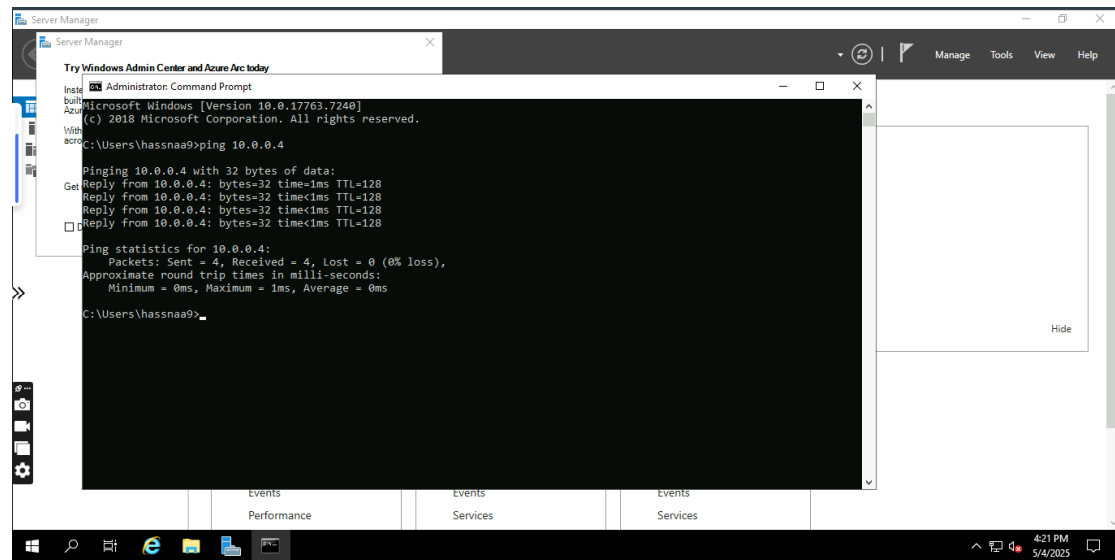
1-connect to VMs using Bastion



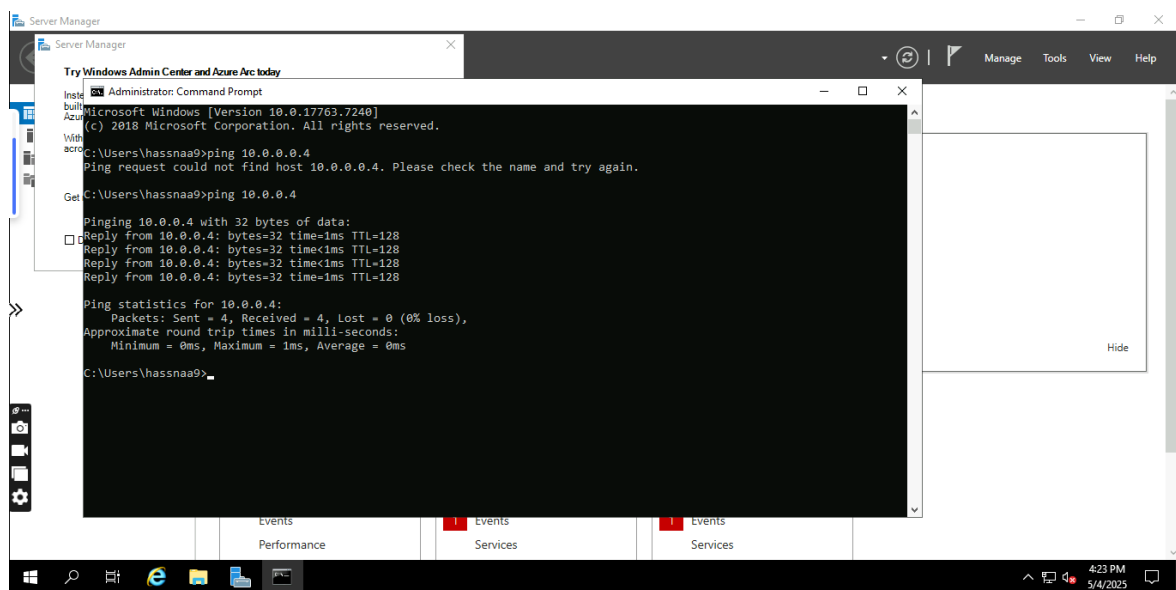
2-Run ping tests from Hub to Spokes



Ping from Spoke-2 VM to Hub VM



Ping from spoke 3 to spoke 2



Monitoring and Check Logs

1-add hub diagnostics

Microsoft Azure

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Home >

Diagnostic setting

×

Save

Discard

Delete

Feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

JSON View

Diagnostic setting name

hub-diagnostics

Logs

Category groups

☒ allLogs

Categories

☒ VM protection alerts

Metrics

☒ AllMetrics

Destination details

☒ Send to Log Analytics workspace

Subscription

Azure for Students

Log Analytics workspace

cloud-project-monitoring-workspace (italnorth)

☐ Archive to a storage account

☐ Stream to an event hub

☐ Send to partner solution

2-add spoke 1 diagnostics

Microsoft Azure

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Home > Spoke-1-VNet | Diagnostic settings >

Diagnostic setting

×

Save

Discard

Delete

Feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

JSON View

Diagnostic setting name

spoke-1-diagnostics

Logs

Category groups

☒ allLogs

Categories

☒ VM protection alerts

Metrics

☒ AllMetrics

Destination details

☒ Send to Log Analytics workspace

Subscription

Azure for Students

Log Analytics workspace

cloud-project-monitoring-workspace (italnorth)

☐ Archive to a storage account

☐ Stream to an event hub

☐ Send to partner solution

3-add spoke 2 diagnostics

Microsoft Azure

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Home > Spoke-2-VNet | Diagnostic settings

Diagnostic setting

Save Discard Delete Feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

Diagnostic setting name spoke-2-diagnostics

Logs

Category groups

☒ allLogs

Categories

☒ VM protection alerts

Destination details

☒ Send to Log Analytics workspace

Subscription Azure for Students

Log Analytics workspace cloud-project-monitoring-workspace (italnorth)

☐ Archive to a storage account

☐ Stream to an event hub

☐ Send to partner solution

4-add spoke 4 diagnostics

Microsoft Azure

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Home > Spoke-3-VNet | Diagnostic settings

Diagnostic setting

Save Discard Delete Feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

Diagnostic setting name spoke-3-diagnostics

Logs

Category groups

☒ allLogs

Categories

☒ VM protection alerts

Destination details

☒ Send to Log Analytics workspace

Subscription Azure for Students

Log Analytics workspace cloud-project-monitoring-workspace (italnorth)

☐ Archive to a storage account

☐ Stream to an event hub

☐ Send to partner solution

Microsoft Azure

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

Copilot

hm2922@fayoum.edu.eg

Home > cloud-project-monitoring-workspace

cloud-project-monitoring-workspace | Metrics

Log Analytics workspace

Search

Tags

Diagnose and solve problems

Logs

Resource visualizer

Settings

Classic

Monitoring

Insights

Alerts

Metrics

Diagnostic settings

Advisor recommendations

Workbooks

Automation

Help

Local Time: 5/4 12:39 AM - 5/5 12:39 AM (Auto-...)

Sum Network In Total for spoke-2-VM

+ Add metric Add filter Apply splitting

Line chart Drill into Logs New alert rule Save to dashboard

spoke-2-VM, Network In Total, Sum

15.3MiB
13.4MiB
11.4MiB
9.5MiB
7.6MiB
5.7MiB
3.8MiB
1.9MiB
0B

6 AM 12 PM 6 PM UTC+03:00

Network In Total (Sum), spoke-2-VM | 31.6MiB

Give Feedback

