

# Project Title: Azure Hub-Spoke Architecture Deployment

## 1-Create Resource Group

Create a resource group

Basics Tags Review + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Subscription \*

Resource group name \*

Region \*

Previous

Create a resource group

Basics Tags Review + create

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Subscription \*

Resource group name \*

Region \*

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Basics Tags Review + create

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Subscription \*

Resource group name \*

Region \*

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Basics Tags Review + create

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Subscription \*

Resource group name \*

Region \*

Previous Next Review + create

## 2-Create VNets of Hub

Create virtual network

Basics Security IP addresses Tags Review + create

[Learn more..](#)

**Project details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

Resource group \*  Create new

**Instance details**

Virtual network name \*

Region \*

Deploy to an Azure Extended Zone

Previous Next Review + create Give feedback

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Error | mn1612@fayoum.edu.eg | DEFAULT DIRECTORY

Home > Virtual networks > Create virtual network ...

Basics Security IP addresses Tags Review + create

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. 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. [Learn more](#)

+ Add a subnet

10.0.0.0/16

10.0.0.0 /16 65,536 addresses

Subnets IP address range Size NAT gateway

default 10.0.0.0 - 10.0.0.255 /24 (256 addresses) -

Add IPv4 address space |

Previous Next Review + create Give feedback

This screenshot shows the 'IP addresses' tab of the Azure Virtual Network creation wizard. It displays a primary address space of 10.0.0.0/16 with 65,536 available addresses. A single subnet named 'default' is defined with a range of 10.0.0.0 - 10.0.0.255 and a size of /24 (256 addresses). Below the main table, there's a button to add more IPv4 address spaces.

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Error | mn1612@fayoum.edu.eg | DEFAULT DIRECTORY

Home > Virtual networks > Create virtual network ...

Basics Security IP addresses Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
location: Switzerland	: Switzerland North	All resources selected
		All resources selected

Previous Next Review + create Give feedback

This screenshot shows the 'Tags' tab of the Azure Virtual Network creation wizard. It lists two tags: 'location: Switzerland' which is mapped to 'Switzerland North' and applies to 'All resources selected'. There is also an empty row for another tag.

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Error | mn1612@fayoum.edu.eg | DEFAULT DIRECTORY

Home > Virtual networks > Create virtual network ...

Basics Security IP addresses Tags Review + create

**Basics**

Subscription	Azure for Students
Resource Group	HubAndSpokes
Name	hub
Region	Switzerland North

**Security**

Azure Bastion	Disabled
Azure Firewall	Disabled
Azure DDoS Network Protection	Disabled

**IP addresses**

Address space	10.0.0.0/16 (65,536 addresses)
Subnet	default (10.0.0.0/24) (256 addresses)

**Tags**

Previous Next Create Give feedback

This screenshot shows the 'Review + create' tab of the Azure Virtual Network creation wizard. It provides a summary of the configuration: subscription (Azure for Students), resource group (HubAndSpokes), name (hub), region (Switzerland North). Under security, it shows disabled options for Azure Bastion, Firewall, and DDoS protection. The IP addresses section reiterates the 10.0.0.0/16 address space and the default subnet. Finally, the tags section lists the previously defined 'location: Switzerland' tag. At the bottom, there are 'Previous', 'Next', and 'Create' buttons, along with a 'Give feedback' link.

### 3-Create spoke1

The screenshot shows the 'Create virtual network' wizard in the Microsoft Azure portal. The current step is 'Basics'. The 'Project details' section shows a selected subscription 'Azure for Students' and a resource group 'HubAndSpokes'. The 'Instance details' section shows a virtual network name 'spoke1' and a region '(Europe) Switzerland North'. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons.

**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 \* HubAndSpokes

Create new

**Instance details**

Virtual network name \* spoke1

Region \* (Europe) Switzerland North

Deploy to an Azure Extended Zone

Previous Next Review + create Give feedback

The screenshot shows the 'Create virtual network' wizard in the Microsoft Azure portal. The current step is 'IP addresses'. It displays a single subnet configuration for the address space 10.1.0.0/16, which covers the range 10.1.0.0 - 10.1.255.255 and provides 65,536 addresses. The 'Subnets' table shows one entry: 'default' with the range 10.1.0.0 - 10.1.0.255 and a size of /24 (256 addresses). At the bottom, there is an 'Add IPv4 address space' button and navigation buttons for 'Previous', 'Next', and 'Review + create'.

Add a subnet

10.1.0.0/16 Delete address space

10.1.0.0 /16 65,536 addresses

10.1.0.0 - 10.1.255.255

Subnets	IP address range	Size	NAT gateway
default	10.1.0.0 - 10.1.0.255	/24 (256 addresses)	-

Add IPv4 address space |

Previous Next Review + create Give feedback

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure

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DEFAULT DIRECTORY

Home > Virtual networks >

Create virtual network ...

Basics Security IP addresses Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
location	Switzerland	Switzerland North
		All resources selected
		All resources selected

Previous Next Review + create Give feedback

## 4-Create spok2

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure

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DEFAULT DIRECTORY

Home > Virtual networks >

Create virtual network ...

Basics Security IP addresses Tags Review + create

Learn more..

**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 \* HubAndSpokes

Create new

**Instance details**

Virtual network name \* spoke2

Region \* (Europe) Switzerland North

Deploy to an Azure Extended Zone

Previous Next Review + create Give feedback

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Error | mn1612@lafayoun.edu.eg | DEFAULT DIRECTORY

Home > Virtual networks > Create virtual network ...

Basics Security IP addresses Tags Review + create

Define the address space of your virtual network with one or more IPv4 or IPv6 address ranges. 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. [Learn more](#)

+ Add a subnet

10.2.0.0/16

10.2.0.0 /16 65,536 addresses

10.2.0.0 - 10.2.255.255

Subnets IP address range Size NAT gateway

default 10.2.0.0 - 10.2.0.255 /24 (256 addresses) -

Add IPv4 address space |

Previous Next Review + create Give feedback

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Error | mn1612@lafayoun.edu.eg | DEFAULT DIRECTORY

Home > Virtual networks > Create virtual network ...

Basics Security IP addresses Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
location: Switzerland	: Switzerland North	All resources selected
		All resources selected

Previous Next Review + create Give feedback

Create virtual network - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualNetwork

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Error | mn1612@lafayoun.edu.eg | DEFAULT DIRECTORY

Home > Virtual networks > Create virtual network ...

Basics Security IP addresses Tags Review + create

**Basics**

Subscription	Azure for Students
Resource Group	HubAndSpokes
Name	spoke2
Region	Switzerland North

**Security**

Azure Bastion	Disabled
Azure Firewall	Disabled
Azure DDoS Network Protection	Disabled

**IP addresses**

Address space	10.2.0.0/16 (65,536 addresses)
Subnet	default (10.2.0.0/24) (256 addresses)

**Tags**

Previous Next Create Give feedback

# 5-Configure VNet Peering

The screenshot shows the 'Add peering' configuration page in the Microsoft Azure portal. The 'Local virtual network summary' section includes a 'Peering link name' input field containing 'hubspoke1'. The 'Local virtual network peering settings' section contains several configuration options, many of which are checked:

- Allow 'hub' to access 'spoke1':
- Allow 'hub' to receive forwarded traffic from 'spoke1':
- Allow gateway or route server in 'hub' to forward traffic to 'spoke1':
- Enable 'spoke1' to use 'hub's' remote gateway or route server:

At the bottom of the page are 'Add' and 'Cancel' buttons.

The screenshot shows the 'Add peering' configuration page in the Microsoft Azure portal, focusing on the 'Remote virtual network peering settings' section. It includes the following fields:

- Peering link name: 'hub-spoke1'
- Virtual network deployment model:  Resource manager,  Classic
- I know my resource ID:
- Subscription: 'Azure for Students'
- Virtual network: 'spoke1 (HubAndSpokes)'

Below these, the 'Remote virtual network peering settings' section contains two checked checkboxes:

- Allow 'spoke1' to access 'hub':
- Allow 'spoke1' to receive forwarded traffic from 'hub':

At the bottom of the page are 'Add' and 'Cancel' buttons.

**Virtual networks - Microsoft Azure** | **Microsoft account security code** | +

portal.azure.com/#browse/Microsoft.Network%2fVirtualNetworks

Microsoft Azure

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Home > Virtual networks ...

Create Manage view Refresh Export to CSV Open query Assign tags

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Filter for any field... Subscription equals all Resource Group equals all Location equals all Add filter

Name	Resource Group	Location	Subscription
hub	HubAndSpokes	Switzerland North	Azure for Students
spoke1	HubAndSpokes	Switzerland North	Azure for Students
spoke2	HubAndSpokes	Switzerland North	Azure for Students

Showing 1 - 3 of 3. Display count: 10

Give feedback

Add peering - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#view/Microsoft\_Azure\_Network/AddEditPeering.ReactView/isAdd~/true/virtualNetworkId/%2Fsubscriptions%2F6c174ef9-fda7-4433-a01d-99198a5bd9da%2Fre...

Microsoft Azure

Search resources, services, and docs (G+)

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Home > Virtual networks > hub | Peerings >

### Add peering

hub

Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. This will allow resources in either virtual network to directly connect and communicate with resources in the peered virtual network.

**Remote virtual network summary**

Peering link name \* hubs-poke2

Virtual network deployment model  Resource manager  Classic

I know my resource ID

Subscription \* Azure for Students

Virtual network \* spoke2 (HubAndSpokes)

**Remote virtual network peering settings**

Allow 'spoke2' to access 'hub'

Allow 'spoke2' to receive forwarded traffic from 'hub'

Add Cancel

Give feedback

Add peering - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#view/Microsoft\_Azure\_Network/AddEditPeering.ReactView/isAdd~/true/virtualNetworkId/%2Fsubscriptions%2F6c174ef9-fda7-4433-a01d-99198a5bd9da%2Fre...

Microsoft Azure

Search resources, services, and docs (G+)

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Home > Virtual networks > hub | Peerings >

### Add peering

hub

Allow gateway or route server in 'spoke2' to forward traffic to 'hub'

Enable 'spoke2' to use 'hub's remote gateway or route server

**Local virtual network summary**

Peering link name \* hubspoke2

**Local virtual network peering settings**

Allow 'hub' to access 'spoke2'

Allow 'hub' to receive forwarded traffic from 'spoke2'

Allow gateway or route server in 'hub' to forward traffic to 'spoke2'

Enable 'hub' to use 'spoke2's remote gateway or route server

Add Cancel

Give feedback

hub | Peerings

Virtual network

+ 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

Showing all 2 items

Name	Peering sync status	Peering state	Remote VNet	Virtua...	Cross-tenant
hubspoke1	Fully Synchronized	Connected	spoke1	Disabled	No
hubspoke2	Fully Synchronized	Connected	spoke2	Disabled	No

Add or remove favorites by pressing Ctrl+Shift+F

Give feedback

## 6-Subnet of spoke1

spoke1 | Subnets

Virtual network

+ Subnet Refresh Manage users Delete

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
default	10.1.0.0/24	-	251	-	-	-
spoke1subnet	10.1.1.0/24	-	251	-	-	-

Showing 2 subnets

Add or remove favorites by pressing Ctrl+Shift+F

Give feedback

The screenshot shows the Microsoft Azure portal interface. The left sidebar is for 'spoke1' and the main area is titled 'Add a subnet'. The 'Subnet purpose' dropdown is set to 'Default'. The 'Name' field contains 'spoke1subnet'. Under 'IPv4', the 'Include an IPv4 address space' checkbox is checked. The 'IPv4 address range' dropdown shows '10.1.0.0/16' with '10.1.0.0 - 10.1.255.255' listed below it. The 'Starting address' is '10.1.1.0' and the 'Size' is '/24 (256 addresses)'. The 'Subnet address range' is '10.1.1.0 - 10.1.1.255'. There is also a section for 'IPv6' which is currently disabled. A note about private subnets is present. At the bottom are 'Add' and 'Cancel' buttons.

## 7- Subnet of spoke2

The screenshot shows the Microsoft Azure portal interface for 'spoke2'. The left sidebar lists various options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, and Settings. Under 'Subnets', there are two entries: 'default' (IPv4 range 10.2.0.0/24) and 'spoke2subnet' (IPv4 range 10.2.1.0/24). The right side has tabs for Subnet, Refresh, Manage users, and Delete. Below the table, it says 'Showing 2 subnets'. At the bottom are 'Give feedback' and other portal navigation links.

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open with the path: Home > Virtual networks > spoke2. The 'Subnets' section is selected under the 'Settings' category. On the right, a modal window titled 'Add a subnet' is displayed. The 'IPv4' tab is active, showing the configuration for a new subnet named 'spoke2subnet'. The 'Name' field is set to 'spoke2subnet'. Under 'IPv4', the 'Include an IPv4 address space' checkbox is checked, and the 'IPv4 address range' is set to '10.2.0.0/16' with '10.2.0.0 - 10.2.255.255' as the starting address and '/24 (256 addresses)' as the size. The 'Subnet address range' is listed as '10.2.1.0 - 10.2.1.255'. The 'IPv6' tab is shown but contains no data. A note at the bottom states: 'Private subnets enhance security by not providing default outbound access. To enable outbound connectivity for virtual machines to access the internet, it is necessary to explicitly grant outbound access. A NAT gateway is the recommended way to provide outbound connectivity for virtual machines in the subnet.' Buttons for 'Add' and 'Cancel' are at the bottom of the dialog.

## 8-Create subnet of hub

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open with the path: Home > Virtual networks > hub. The 'Subnets' section is selected under the 'Settings' category. On the right, a modal window titled 'Add a subnet' is displayed. The 'IPv4' tab is active, showing the configuration for a new subnet named 'hubsubnet'. The 'Name' field is set to 'hubsubnet'. Under 'IPv4', the 'Include an IPv4 address space' checkbox is checked, and the 'IPv4 address range' is set to '10.0.0.0/16' with '10.0.0.0 - 10.0.255.255' as the starting address and '/24 (256 addresses)' as the size. The 'Subnet address range' is listed as '10.0.1.0 - 10.0.1.255'. The 'IPv6' tab is shown but contains no data. A note at the bottom states: 'Private subnets enhance security by not providing default outbound access. To enable outbound connectivity for virtual machines to access the internet, it is necessary to explicitly grant outbound access. A NAT gateway is the recommended way to provide outbound connectivity for virtual machines in the subnet.' Buttons for 'Add' and 'Cancel' are at the bottom of the dialog.

## 9-NSG

Create network security group - Microsoft Azure

portal.azure.com/#create/Microsoft.NetworkSecurityGroup

Microsoft Azure

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

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DEFAULT DIRECTORY

Home > Network security groups >

## Create network security group

Basics Tags Review + create

**Project details**

Subscription \* Azure for Students ✓

Resource group \* HubAndSpokes ✓

Create new

**Instance details**

Name \* HASNSG ✓

Region \* Switzerland North ✓

Review + create < Previous Next : Tags > Download a template for automation

Create network security group - Microsoft Azure

portal.azure.com/#create/Microsoft.NetworkSecurityGroup

Microsoft Azure

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

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mn1612@fayoun.edu.eg

DEFAULT DIRECTORY

Home > Network security groups >

## Create network security group

Basics Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags [?](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name  Value   
location Switzerland : Switzerland North

Review + create < Previous Next : Review + create > Download a template for automation

Create network security group - Microsoft Azure

portal.azure.com/#create/Microsoft.NetworkSecurityGroup

Microsoft Azure

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

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DEFAULT DIRECTORY

Home > Network security groups >

## Create network security group

Validation passed

Basics Tags Review + create

**Basics**

Subscription	Azure for Students
Resource group	HubAndSpokes
Region	Switzerland North
name	HASNSG

**Tags**

location Switzerland	Switzerland North
----------------------	-------------------

Create < Previous Next > Download a template for automation

# 10- Inbound security rules

The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation bar is visible, showing options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, and Settings. Under Settings, the 'Inbound security rules' option is selected. The main content area displays the 'HASNSG | Inbound security rules' page, which lists existing security rules:

Priority	Name	Port	Protocol
65000	AllowVnetInBound	Any	Any
65001	AllowAzureLoadBalancerIn	Any	Any
65500	DenyAllInBound	Any	Any

To the right, a modal window titled 'Add inbound security rule' is open, allowing the creation of a new rule. The configuration fields are as follows:

- Destination port ranges: 443
- Protocol: TCP (selected)
- Action: Allow (selected)
- Priority: 100
- Name: AllowAnyHTTPSIInbound
- Description: (empty)

At the bottom of the modal are 'Add' and 'Cancel' buttons.

This screenshot shows the same Azure portal interface and navigation bar as the previous one. The 'Inbound security rules' page for HASNSG is displayed, showing the same list of existing rules. To the right, a second 'Add inbound security rule' dialog is open, showing a different configuration:

- Source: Any
- Source port ranges: \* (wildcard)
- Destination: Any
- Service: HTTPS
- Destination port ranges: 443
- Protocol: TCP (selected)
- Action: Allow (selected)

At the bottom of this second modal are 'Add' and 'Cancel' buttons.

Priority	Name	Port	Protocol	Source	Destination	Action
100	AllowAnyHTTPSIInbound	443	TCP	Any	Any	Allow
110	AllowAnyHTTPInbound	80	TCP	Any	Any	Allow
65000	AllowVnetInbound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInbound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInbound	Any	Any	Any	Any	Deny

Add or remove favorites by pressing **Ctrl+Shift+F**

## 11- Outbound security rules

**Add outbound security rule**

HASNSG

Destination port ranges: 443

Protocol:  TCP

Action:  Allow

Priority: 120

Name: AllowAnyHTTPSOOutbound

Description:

**Add** **Cancel**

**Add outbound security rule - Microsoft Azure**

portal.azure.com/#@mn1612fayoumedu.onmicrosoft.com/resource/subscriptions/6c174ef9-fda7-4433-a01d-99198a5bd9da/resourcegroups/HubAndSpokes/providers/Microsoft...

**Microsoft Azure**

Home > HASNSG

**HASNIG | Outbound security rules**

Network security group

Search: + Add Hide default rules Refresh Delete Give feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Settings Inbound security rules Outbound security rules Network interfaces Subnets Properties Locks Monitoring Automation Help

Priority ↑ Name ↑ Port ↑ Protocol ↑ Source = all Destination = all Action = all

Priority	Name	Port	Protocol	Source	Destination	Action
120	AllowAnyHTTPSOubound	443	TCP	Any	Any	Allow
65000	AllowVnetOutBound	Any	Any			Allow
65001	AllowInternetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65500	DenyAllOutBound	Any	Any	Any	Internet	Allow

Add Cancel Give feedback

**Add outbound security rule**

Source: Any

Source port ranges: \* (dropdown menu)

Destination: Any

Service: HTTP

Destination port ranges: 80

Protocol: TCP (radio button selected)

Action: Allow (radio button selected)

Add Cancel Give feedback

**HASNIG - Microsoft Azure**

portal.azure.com/#@mn1612fayoumedu.onmicrosoft.com/resource/subscriptions/6c174ef9-fda7-4433-a01d-99198a5bd9da/resourcegroups/HubAndSpokes/providers/Microsoft...

**Microsoft Azure**

Home > HASNIG

**HASNIG | Outbound security rules**

Network security group

Search: + Add Hide default rules Refresh Delete Give feedback

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Settings Inbound security rules Outbound security rules Network interfaces Subnets Properties Locks Monitoring Automation Help

Priority ↑ Name ↑ Port ↑ Protocol ↑ Source = all Destination = all Action = all

Priority	Name	Port	Protocol	Source	Destination	Action
120	AllowAnyHTTPSOubound	443	TCP	Any	Any	Allow
130	AllowAnyHTTPOutbound	80	TCP	Any	Any	Allow
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Add Cancel Give feedback

## 12-Edit Subnet

**Edit subnet - Microsoft Azure**

Microsoft account security code

Microsoft Azure

Virtual networks <>

hub | Subnets Virtual network

Search

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Settings Address space Connected devices Subnets Bastion DDoS protection Firewall Microsoft Defender for Cloud Network manager DNS servers Peerings Add or remove favorites by pressing Ctrl+Shift+F

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Name hub spoke1 spoke2

Showing 1 - 3 of 3. Display count: 10

**Edit subnet**

NAT gateway: None

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. Learn more

Network security group: HASNSG

Route table: None

**Service Endpoints**

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. Learn more

Services: Select a service endpoint Remove service endpoint

**Subnet Delegation**

Delegate subnet to a service: None

**Network Policy for Private Endpoints**

The network policy affects the types of network policies that control traffic going to the private endpoints in this subnet. Learn more

Private endpoint network policy: Disabled

Save Cancel Give feedback

**Edit subnet - Microsoft Azure**

Microsoft account security code

Microsoft Azure

Home > Virtual networks > spoke2

spoke2 | Subnets Virtual network

Search Subnet Refresh Manage users D Create subnets to segment the virtual network address space in subnet.

Search subnets

Name default spoke2subnet IPv4

10.2.0.0/24 10.2.1.0/24

Showing 2 subnets

**Edit subnet**

**Security**

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. Learn more

NAT gateway: None

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. Learn more

Network security group: HASNSG

Route table: None

**Service Endpoints**

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. Learn more

Services: Select a service endpoint Remove service endpoint

**Subnet Delegation**

Delegate subnet to a service: None

**Network Policy for Private Endpoints**

Save Cancel Give feedback

**Edit subnet - Microsoft Azure**

Microsoft account security code

Microsoft Azure

Home > Virtual networks > spoke1

Virtual networks <>

spoke1 | Subnets Virtual network

Search Subnet Create subnets to segment the virtual network address space in subnet.

Search subnets

Name hub spoke1 spoke2

Showing 1 - 3 of 3. Display count: 10

**Edit subnet**

Enable private subnet (no default outbound access)

**Security**

Simplify internet access for virtual machines by using a network address translation gateway. Filter subnet traffic using a network security group. Learn more

NAT gateway: None

A NAT gateway is recommended for outbound internet access from subnets. Edit the subnet to add a NAT gateway. Learn more

Network security group: HASNSG

Route table: None

**Service Endpoints**

Create service endpoint policies to allow traffic to specific azure resources from your virtual network over service endpoints. Learn more

Services: Select a service endpoint Remove service endpoint

**Subnet Delegation**

Delegate subnet to a service: None

Save Cancel Give feedback

# 13-Create virtual machine of hub

Subscription: Azure for Students  
Resource group: HubAndSpokes  
Virtual machine name: hubvm  
Region: (Europe) Switzerland North  
Image: Windows Server 2022 Datacenter: Azure Edition Hotpatch - x64 Gen2

VM architecture: x64  
Size: Standard\_D2s\_v3 - 2 vcpus, 8 GiB memory (\$163.52/month)  
Administrator account: hubvm

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MNN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a 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

Enable Hibernation  Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. [Learn more](#)

**Administrator account**

Username \*  ✓

Password \*  ✓

Confirm password \*  ✓

**Inbound port rules**

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*  None  Allow selected ports

Select inbound ports \*  ✓

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.

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MNN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a 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

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution.

Learn more i

**Network interface**

When creating a virtual machine, a network interface will be created for you.

Virtual network \*  hub Create new ✓

Subnet \*  hubsubnet (10.0.1.0/24) Manage subnet configuration ✓

Public IP  [new] hubvm-ip Create new ✓

NIC network security group  None  Basic  Advanced

The selected subnet 'hubsubnet (10.0.1.0/24)' is already associated to a network security group 'HASNSG'. We recommend managing connectivity to this virtual machine via the existing network security group instead of creating a new one.

< Previous | Next : Management > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MNN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a 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

The selected subnet 'hubsubnet (10.0.1.0/24)' is already associated to a network security group 'HASNSG'. We recommend managing connectivity to this virtual machine via the existing network security group instead of creating a new one here.

Configure network security group \*  HASNSG Create new ✓

Delete public IP and NIC when VM is deleted

Enable accelerated networking

**Load balancing**

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. Learn more i

Load balancing options  None  Azure load balancer Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.  Application gateway Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

< Previous | Next : Management > | Review + create | Give feedback

The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The title bar indicates the page is 'Create a virtual machine - Microsoft Azure' at 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The main content area is titled 'Create a virtual machine ...' and shows the 'Monitoring' tab selected among 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create'. The 'Monitoring' section includes three help buttons: 'Help me create a low cost VM', 'Help me create a VM optimized for high availability', and 'Help me choose the right VM size for my workload'. Below these are sections for 'Alerts' (checkbox for 'Enable recommended alert rules') and 'Diagnostics' (radio buttons for 'Boot diagnostics' and 'Enable with managed storage account (recommended)', and checkboxes for 'Enable OS guest diagnostics'). The 'Health' section shows 'Enable application health monitoring' checked, with a configuration panel for 'Health monitor configuration' (Type: Application health extension, Protocol: HTTP, Port number: 80, Path: /) and a 'Configure' button. At the bottom are navigation buttons: '< Previous', 'Next : Advanced >', 'Review + create', and 'Give feedback'.

This screenshot continues the 'Create a virtual machine' wizard. The title bar remains the same. The main content area is titled 'Create a virtual machine ...' and shows the 'Tags' tab selected. A note states: 'Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags.' Below this, a note says: 'Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.' A table shows a single tag entry: 'Name' is 'location\_Switzerland', 'Value' is 'Switzerland North', and 'Resource' is a dropdown menu showing '13 selected'. Navigation buttons at the bottom include '< Previous', 'Next : Review + create', 'Review + create', and 'Give feedback'.

## 14- Create virtual machine of spoke1

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@lafayoun.edu.ng | DEFAULT DIRECTORY (MANIFESTA...)

Home > Compute infrastructure | Virtual machines >

### Create a 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

VM architecture:  x64  
Arm64 is not supported with the selected image.

Run with Azure Spot discount:

Size: Standard\_D2s\_v3 - 2 vcpus, 8 GiB memory (\$163.52/month)   
See all sizes

Enable Hibernation:   
Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. [Learn more](#).

Administrator account:

Username: spoke1vm

Password:

Confirm password:

Inbound port rules:

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@lafayoun.edu.ng | DEFAULT DIRECTORY (MANIFESTA...)

Home > Compute infrastructure | Virtual machines >

### Create a 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

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: HubAndSpokes   
Create new

Instance details:

Virtual machine name: spoke1vm

Region: (Europe) Switzerland North

Availability options: No infrastructure redundancy required

Security type: Standard

Image: Windows Server 2022 Datacenter: Azure Edition Hotpatch - x64 Gen2   
This image is compatible with additional security features. [Click here to swap to the latest image](#).

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@fayoun.edu.ng | DEFAULT DIRECTORY (MANUAL)

Home > Compute infrastructure | Virtual machines >

## Create a 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

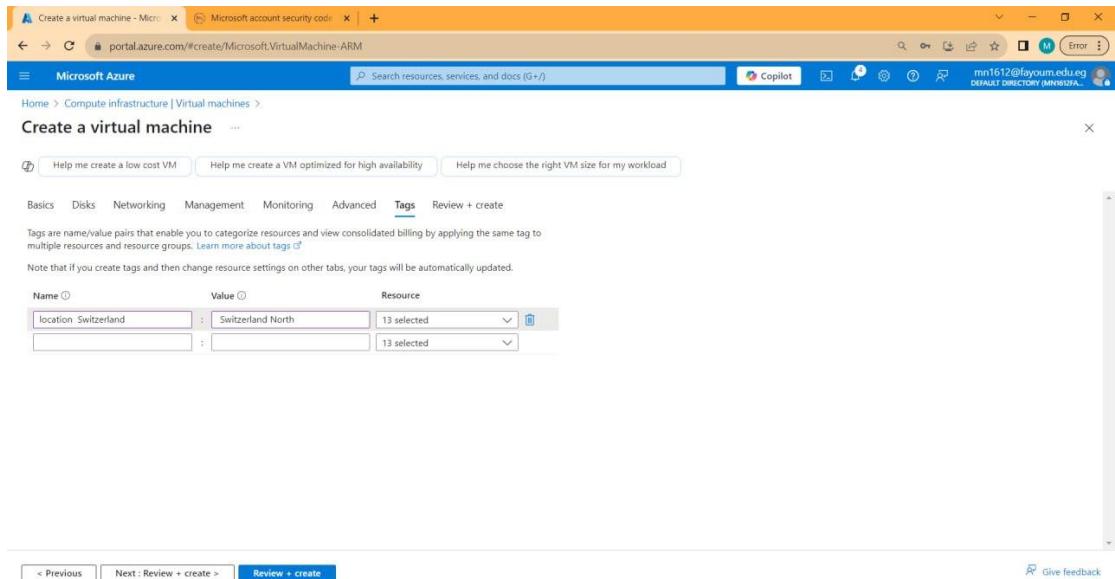
Basics Disks Networking Management Monitoring Advanced Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Learn more about tags.

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
location	Switzerland	: Switzerland North 13 selected
		: 13 selected

< Previous | Next : Review + create > | Review + create | Give feedback



Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@fayoun.edu.ng | DEFAULT DIRECTORY (MANUAL)

Home > Compute infrastructure | Virtual machines >

## Create a 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

Advanced

The selected subnet 'spoke1subnet (10.1.0.0/24)' is already associated to a network security group 'HASNSG'. We recommend managing connectivity to this virtual machine via the existing network security group instead of creating a new one here.

Configure network security group \* HASNSG Create new

Delete public IP and NIC when VM is deleted

Enable accelerated networking

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. Learn more

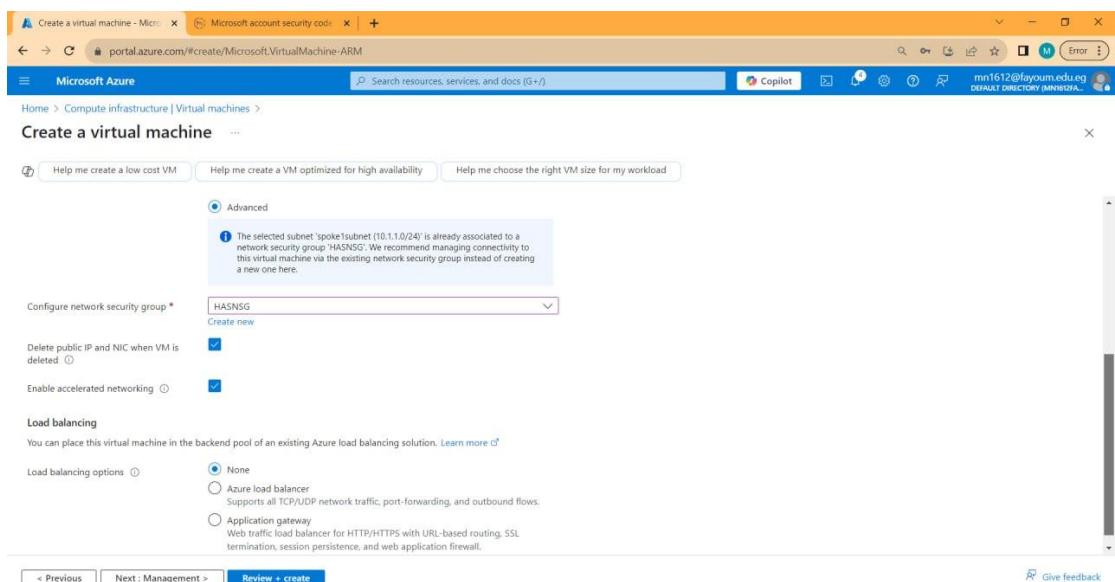
Load balancing options None

None

Azure load balancer Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

Application gateway Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

< Previous | Next : Management > | Review + create | Give feedback



Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@fayoum.edu.eg | DEFAULT DIRECTORY (MANUAL)

Home > Compute infrastructure | Virtual machines >

## Create a 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

**Network interface**

When creating a virtual machine, a network interface will be created for you.

Virtual network \*  Create new

Subnet \*  Manage subnet configuration

Public IP  Create new

NIC network security group:  None  Basic  Advanced

The selected subnet 'spoke1subnet (10.1.0/24)' is already associated to a network security group 'HASNSG'. We recommend managing connectivity to this virtual machine via the existing network security group instead of creating a new one here.

Configure network security group \*  Create new

Delete public IP and NIC when VM is

< Previous | Next : Management > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@fayoum.edu.eg | DEFAULT DIRECTORY (MANUAL)

Home > Compute infrastructure | Virtual machines >

## Create a 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

Enable Hibernation

Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. [Learn more](#)

**Administrator account**

Username \*  Create new

Password \*  Create new

Confirm password \*  Create new

**Inbound port rules**

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*  None  Allow selected ports

Select inbound ports \*  Create new

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.

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

mn1612@fayoum.edu.eg | DEFAULT DIRECTORY (MANUAL)

Home > Compute infrastructure | Virtual machines >

## Create a virtual machine ...

Validation passed

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**

**Price**

1 X Standard D2s v3 by Microsoft Terms of use | Privacy policy

Subscription credits apply  0.2240 USD/hr Pricing for other VM sizes

**TERMS**

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

**Basics**

Subscription: Azure for Students

< Previous | Next > | **Create** | Download a template for automation | Give feedback

**Basics**

Subscription	Azure for Students
Resource group	HubAndSpokes
Virtual machine name	spoke1vm
Region	Switzerland North
Availability options	No infrastructure redundancy required
Zone options	Self-selected zone
Security type	Standard
Image	Windows Server 2022 Datacenter: Azure Edition Hotpatch - Gen2
VM architecture	x64
Size	Standard D2s v3 (2 vcpus, 8 GiB memory)
Enable Hibernation	No
Username	spoke1vm
Already have a Windows license?	No
Azure Spot	No

< Previous | Next > | **Create**

**Disk**

Disk controller type	SCSI
Proximity placement group	None
Capacity reservation group	None

< Previous | Next > | **Create**

## 15- Create virtual machine of spoke2

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MNN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a virtual machine

⚠️ 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

**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 | HubAndSpokes | Create new

Resource group \*  HubAndSpokes | Create new

**Instance details**

Virtual machine name \*  spoke2vm

Region \*  (Europe) Switzerland North

Availability options  Availability zone

Zone options  Self-selected zone  
Choose up to 3 availability zones, one VM per zone  
 Azure-selected zone (Preview)  
Let Azure assign the best zone for your needs

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MNN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a virtual machine

⚠️ 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

**Availability options**  No infrastructure redundancy required

**Security type** Standard

**Image** Windows Server 2019 Datacenter - x64 Gen2 | See all images | Configure VM generation  
This image is compatible with additional security features. Click here to swap to the Trusted launch security type.

**VM architecture**  x64 | Arm64  
Arm64 is not supported with the selected image.

**Run with Azure Spot discount**

**Size** Standard\_D2s\_v4 - 2 vcpus, 8 GiB memory (\$159.51/month) | See all sizes  
Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernate to enable this feature. Learn more

< Previous | Next : Disks > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MNN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a 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

**Networking**

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. Learn more

**Network interface**

When creating a virtual machine, a network interface will be created for you.

Virtual network \* spoke2 | Create new

Subnet \* spoke2subnet (10.2.1.0/24) | Manage subnet configuration

Public IP (new) spoke2vm-ip | Create new

NIC network security group  Advanced

The selected subnet 'spoke2subnet (10.2.1.0/24)' is already associated to a network security group 'HASNSG'. We recommend managing connectivity to this virtual machine via the existing network security group instead of creating a new one.

< Previous | Next : Management > | Review + create | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoum.edu.eg | DEFAULT DIRECTORY (MN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a virtual machine

Validation passed

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**

Subscription	Azure for Students
Resource group	HubAndSpokes
Virtual machine name	spoke2vm
Region	Switzerland North
Availability options	No infrastructure redundancy required
Zone options	Self-selected zone
Security type	Standard
Image	Windows Server 2019 Datacenter - Gen2
VM architecture	x64
Size	Standard D2s v4 (2 vcpus, 8 GiB memory)
Enable Hibernation	No
Username	spoke2vm
Already have a Windows license?	No
Azure Spot	No

**Disk**

< Previous | Next > | **Create**

Download a template for automation | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

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Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a virtual machine

Validation passed

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

Ephemeral OS disk: No

**Networking**

Virtual network	spoke2
Subnet	spoke2subnet (10.2.1.0/24)
Public IP	(new) spoke2vm-ip
NIC network security group	HASNFG
Accelerated networking	On
Place this virtual machine behind an existing load balancing solution?	No
Delete public IP and NIC when VM is deleted	Enabled

**Management**

Microsoft Defender for Cloud	Basic (free)
System assigned managed identity	Off
Login with Microsoft Entra ID	Off
Auto-shutdown	Off
Backup	Disabled

< Previous | Next > | **Create**

Download a template for automation | Give feedback

Create a virtual machine - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoum.edu.eg | DEFAULT DIRECTORY (MN1612A...)

Home > Compute infrastructure | Virtual machines > Create a virtual machine >

## Create a virtual machine

Validation passed

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

Disk controller type: SCSI  
Proximity placement group: None  
Capacity reservation group: None

**Tags**

location Switzerland	Switzerland North (Auto-shutdown schedule)
location Switzerland	Switzerland North (Availability set)
location Switzerland	Switzerland North (Disk)
location Switzerland	Switzerland North (Network interface)
location Switzerland	Switzerland North (Network security group)
location Switzerland	Switzerland North (Public IP address)
location Switzerland	Switzerland North (Recovery Services vault)
location Switzerland	Switzerland North (SQL Virtual Machine)
location Switzerland	Switzerland North (SSH key)
location Switzerland	Switzerland North (Storage account)
location Switzerland	Switzerland North (Virtual machine)
location Switzerland	Switzerland North (Virtual machine extension)
location Switzerland	Switzerland North (Virtual network)

< Previous | Next > | **Create**

Download a template for automation | Give feedback

The screenshot shows the 'Create a virtual machine' blade in the Microsoft Azure portal. At the top, there's a validation message: 'Validation passed'. Below it are three buttons: 'Help me create a low cost VM', 'Help me create a VM optimized for high availability', and 'Help me choose the right VM size for my workload'. The configuration section includes: Disk controller type (SCSI), Proximity placement group (None), and Capacity reservation group (None). Under 'Tags', there's a list of location options for Switzerland North, such as 'Switzerland North (Auto-shutdown schedule)', 'Switzerland North (Availability set)', and 'Switzerland North (Disk)'. At the bottom, there are navigation buttons ('< Previous', 'Next >', 'Create') and links for 'Download a template for automation' and 'Give feedback'.

## 16-Create Web App

The screenshot shows the 'Create Web App' blade in the Microsoft Azure portal. The 'Basics' tab is selected. It displays information about App Service Web Apps and their benefits. The 'Project Details' section requires selecting a subscription (Azure for Students) and a resource group (HubAndSpokes). The 'Instance Details' section includes fields for the app name (webapponcloud.azurewebsites.net), publishing method (Code selected), runtime stack (Python 3.13), and operating system (Linux selected). Navigation buttons at the bottom include 'Review + create', '< Previous', and 'Next : Database >'.

Create Web App - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#view/WebsitesExtension/AppServiceWebAppCreateV3Blade

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MINHOSA)

Home > App Services >

## Create Web App

Runtime stack \* Python 3.13

Operating System \* Linux

Region \* Switzerland North

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. Learn more *i*

Linux Plan (Switzerland North) \* (New) ASP-HubAndSpokes-b94b Create new

Pricing plan Basic B1 (100 total ACU, 1.75 GB memory, 1 vCPU) Explore pricing plans

Zone redundancy

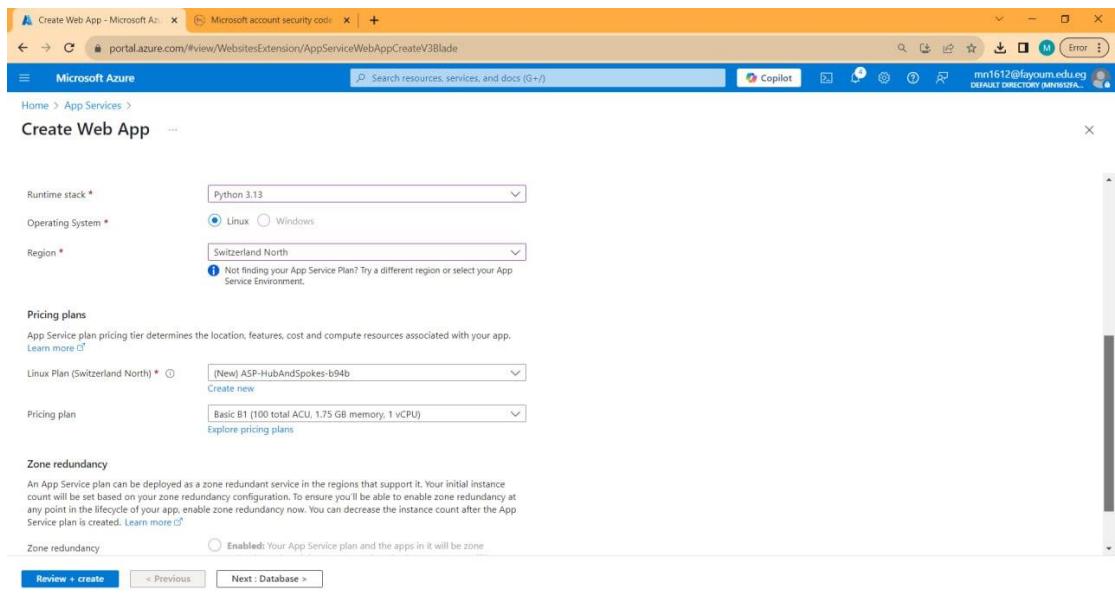
An App Service plan can be deployed as a zone redundant service in the regions that support it. Your initial instance count will be set based on your zone redundancy configuration. To ensure you'll be able to enable zone redundancy at any point in the lifecycle of your app, enable zone redundancy now. You can decrease the instance count after the App Service plan is created. Learn more *i*

Enabled: Your App Service plan and the apps in it will be zone redundant

Enabled: Your App Service plan and the apps in it will be zone redundant

Disabled: Your App Service plan and the apps in it will not be zone redundant

**Review + create** < Previous Next : Database >



Create Web App - Microsoft Azure | Microsoft account security code | +

portal.azure.com/#view/WebsitesExtension/AppServiceWebAppCreateV3Blade

Microsoft Azure | Search resources, services, and docs (G+)

Copilot | Error

mn1612@fayoun.edu.eg | DEFAULT DIRECTORY (MINHOSA)

Home > App Services >

## Create Web App

Secure unique default hostname on. More about this update *i*

Code  Container

Runtime stack \* Node 22 LTS

Operating System \* Linux  Windows

Region \* Switzerland North

Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. Learn more *i*

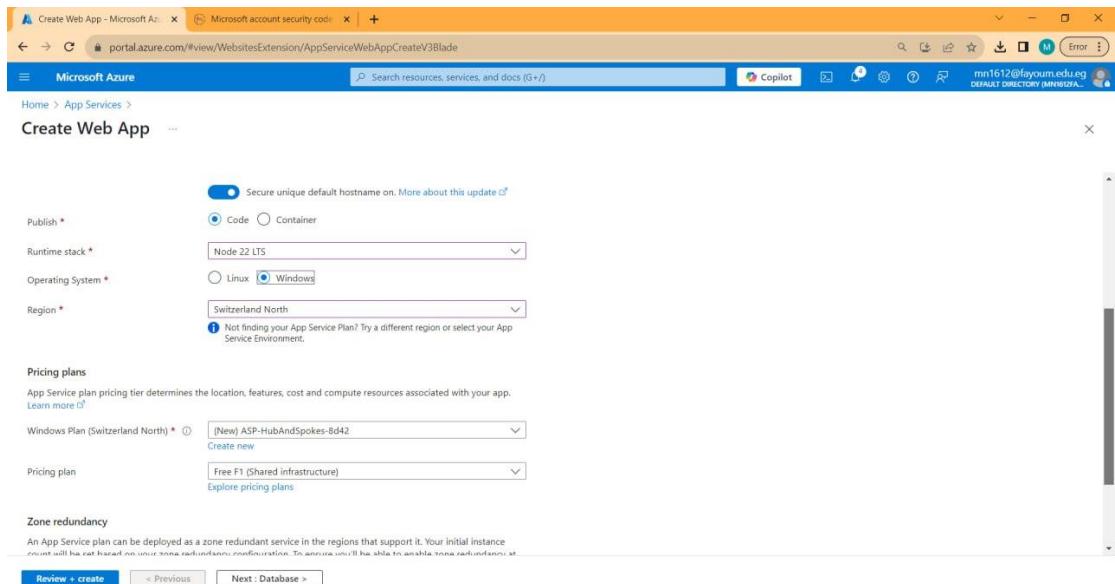
Windows Plan (Switzerland North) \* (New) ASP-HubAndSpokes-8d42 Create new

Pricing plan Free F1 (Shared Infrastructure) Explore pricing plans

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. Your initial instance count will be set based on your zone redundancy configuration. To ensure you'll be able to enable zone redundancy at any point in the lifecycle of your app, enable zone redundancy now. You can decrease the instance count after the App Service plan is created. Learn more *i*

**Review + create** < Previous Next : Database >



# 17-Monitor

**Monitoring configuration**

VM Insights now supports data collection using the Azure Monitor Agent and data collection rules.

Subscription: Azure for Students

Data collection rule: (new) MSVMI-DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-EUS

Guest performance: Enabled

Processes and dependencies (Map): Disabled

Log Analytics workspace: DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-EUS

This will also enable System Assigned Managed Identity, in addition to existing User Assigned identities (if any). Note: Unless specified in the request, the machine will default to using System Assigned Identity. Learn More

Currently, only resources in certain regions are supported. Learn More

**Configure** **Cancel**

The screenshot shows the Azure portal's Monitoring configuration blade for VM Insights. It lists three virtual machines under the 'Not monitored' tab: 'hubandspokes' (with sub-machines 'hubvm', 'spoke1vm', and 'spoke2vm'), 'Azure for Students', and 'mn1612'. The 'Guest performance' and 'Processes and dependencies (Map)' sections are both set to 'Enabled'. The 'Log Analytics workspace' dropdown is set to 'DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-EUS'. A note at the bottom indicates that System Assigned Managed Identity is also enabled. A 'Configure' button is at the bottom left, and a 'Cancel' button is at the bottom right.

**Monitoring configuration**

MSVMI-rule1

Guest performance: Enabled

Processes and dependencies (Map): Enabled

Log Analytics workspace: DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

**Edit** **Cancel**

The screenshot shows the Azure portal's Monitoring configuration blade for VM Insights. It displays a single data collection rule named 'MSVMI-rule1'. The 'Guest performance' and 'Processes and dependencies (Map)' sections are both set to 'Enabled'. The 'Log Analytics workspace' dropdown is set to 'DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN'. A 'Edit' button is at the top left and a 'Cancel' button is at the bottom right.

**Monitoring configuration**

VM Insights: On

Subscription: Azure for Students

Data collection rule: MSVMI-rule1

Guest performance: Enabled

Processes and dependencies (Map): Enabled

Log Analytics workspace: DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

**Configure** **Cancel**

The screenshot shows the Azure portal's Monitoring configuration blade for VM Insights. It displays a single data collection rule named 'MSVMI-rule1'. The 'VM Insights' toggle is set to 'On'. The 'Subscription' dropdown is set to 'Azure for Students'. The 'Data collection rule' dropdown is set to 'MSVMI-rule1'. The 'Guest performance' and 'Processes and dependencies (Map)' sections are both set to 'Enabled'. The 'Log Analytics workspace' dropdown is set to 'DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN'. A 'Configure' button is at the bottom left and a 'Cancel' button is at the bottom right.

Monitor - Microsoft Azure | troubleshoot VM Insights - Azure | webappondoud - Microsoft Azure | Microsoft account security code | New Tab

portal.azure.com/#view/Microsoft\_Azure\_Monitoring/AzureMonitoringBrowseBlade/-/virtualMachines

Microsoft Azure Search resources, services, and docs (G+)

Copilot

mn1612@fayoum.edu.eg

DEFAULT DIRECTORY (MN1612FA...)

Home > Monitor

## Monitor | Virtual Machines

Search Refresh Provide Feedback

Get started Overview Performance Map

Filter by name... Subscription : Azure for Students Resource group : All resource groups

Type : All types Location : All locations Group by : Subscription, Resource group

Monitored (0) Not monitored (3) Workspace configuration Other onboarding options

Name	Monitor Coverage	Workspace
✓ Azure for Students	3 of 3	
✓ hubandspokes	3 of 3	
hubvm	Not enabled	<button>Enable</button>
spoke1vm	Not enabled	<button>Enable</button>
spoke2vm	Not enabled	<button>Enable</button>

Add or remove favorites by pressing Ctrl+Shift+F

Create new rule

Back to configure virtual machine insights

Data collection rule name \* rule2

Guest performance  
Enable a set of performance charts that target several key performance indicators (KPIs) to help you determine the performance of virtual machine.

Enable guest performance

Processes and dependencies  
View dependencies of virtual machine by discovering running process groups and processes that have active network connections

Enable processes and dependencies (Map)

Subscription \* Azure for Students

Log Analytics workspaces DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

Monitoring configuration

Subscription \* Azure for Students

Data collection rule (new) MSVMI-rule2 Create New MSVMI-rule2

Guest performance Enabled

Processes and dependencies (Map) Enabled

Log Analytics workspace DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

This will also enable System Assigned Managed Identity, in addition to existing User Assigned identities (if any).  
Note: Unless specified in the request, the machine will default to using System Assigned Identity. [Learn More](#)

Currently, only resources in certain regions are supported. [Learn More](#)

Configure Cancel

[Create new rule - Microsoft Azure](#) [Troubleshoot VM Insights - Azure](#) [webappondoud - Microsoft Azure](#) [Microsoft account security code](#) [New Tab](#)

portal.azure.com/#view/Microsoft\_Azure\_Monitoring/AzureMonitoringBrowseBlade/-/virtualMachines

Microsoft Azure Search resources, services, and docs (G+)

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Home > Monitor

## Monitor | Virtual Machines

Search Refresh Get started Filter by Location Monitored Name

Overview Activity log Alerts Metrics Logs Change Analysis Service health Workbooks Dashboards with Grafana (preview) Insights Applications Virtual Machines

Add or remove favorites by pressing Ctrl+Shift+F

Create new rule

Back to configure virtual machine insights

Data collection rule name \* rule3

**Guest performance**  
Enable a set of performance charts that target several key performance indicators (KPIs) to help you determine the performance of virtual machine.  
Enable guest performance

**Processes and dependencies**  
View dependencies of virtual machine by discovering running process groups and processes that have active network connections  
Enable processes and dependencies (Map)

Subscription \* Azure for Students

Log Analytics workspaces DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

Create Cancel

[Create new rule - Microsoft Azure](#) [Troubleshoot VM Insights - Azure](#) [webappondoud - Microsoft Azure](#) [Microsoft account security code](#) [New Tab](#)

portal.azure.com/#view/Microsoft\_Azure\_Monitoring/AzureMonitoringBrowseBlade/-/virtualMachines

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Home > Monitor

## Monitor | Virtual Machines

Search Refresh Get started Filter by Location Monitored Name

Overview Activity log Alerts Metrics Logs Change Analysis Service health Workbooks Dashboards with Grafana (preview) Insights Applications Virtual Machines

Add or remove favorites by pressing Ctrl+Shift+F

Create new rule

Back to configure virtual machine insights

Data collection rule name \* rule3

**Guest performance**  
Enable a set of performance charts that target several key performance indicators (KPIs) to help you determine the performance of virtual machine.  
Enable guest performance

**Processes and dependencies**  
View dependencies of virtual machine by discovering running process groups and processes that have active network connections  
Enable processes and dependencies (Map)

Subscription \* Azure for Students

Log Analytics workspaces DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

Create Cancel

**Monitoring configuration**

VM Insights now supports data collection using the Azure Monitor Agent and data collection rules.

Subscription *	Azure for Students	
Data collection rule	(new) MSVMI-rule3	
	Create New	
	<b>MSVMI-rule3</b>	
Monitored		
Name		
	Guest performance	Enabled
	Processes and dependencies (Map)	Enabled
	Log Analytics workspace	DefaultWorkspace-6c174ef9-fda7-4433-a01d-99198a5bd9da-CHN

This will also enable System Assigned Managed Identity, in addition to existing User Assigned identities (if any).  
**Note:** Unless specified in the request, the machine will default to using System Assigned Identity. [Learn More](#)

Currently, only resources in certain regions are supported. [Learn More](#)

**Overview**

Get started   Overview   Performance   Map

Filter by name...   Subscription : Azure for Students   Resource group : All resource groups

Type : All types   Location : All locations   Group by : Subscription, Resource group

Monitored (3)   Not monitored (0)   Workspace configuration   Other onboarding options

Name	Monitor Coverage	Data collection rule
hubandspokes	3 of 3	
hubvm	Enabled	MSVMI-rule2
spoke1vm	Enabled	MSVMI-rule1
spoke2vm	Enabled	MSVMI-rule3

Create Connection Monitor

Connection Monitor enables you to monitor connectivity in your Azure and hybrid network. Select your preferred subscription and region from which monitoring will be performed. Use workspace configuration to store monitoring data generated by Connection Monitor tests in Log Analytics workspace. Complete the Basics tab then proceed to Test Groups tab. [Learn more](#)

Connection Monitor Name \* monitor1

Subscription \* Azure for Students

Region \* Switzerland North

Next : Test groups > > Review + create Cancel

A Test group lets you define a logical group that will let you v sources and destination based on which you would like to de

Test group name \*

Sources (0) Add sources



Name	IP	Subscription	Resource group	Subnet	Network Wat...
hub		Azure for Students	HubAndSpokes		Not Enabled
spoke1		Azure for Students	HubAndSpokes		Not Enabled
spoke2		Azure for Students	HubAndSpokes		Not Enabled

Selected sources (2 Azure endpoints)

Add endpoints Cancel

Add test group details - Microsoft Edge portal.azure.com Troubleshoot VM Insights - Azure webapponcloud - Microsoft Edge Microsoft account security code New Tab

Microsoft Azure Search resources, services, and docs (G+) Copilot Home > Monitor | Networks > Create Connection Monitor >

## Add test group details

Some selected endpoints do not have the monitoring extension enabled. They will be automatically enabled during the creation of the connection monitor. If you do not wish to automatically enable the extensions, kindly deselect the endpoints before proceeding further

Test group name \*  ✓

Sources	Test configurations	Destinations
<p>Azure endpoints</p> <p>hubHubAndSpokes</p> <p>Subscription : Azure for Students</p> <p>Resource group: HubAndSpokes</p> <p><a href="#">Edit</a></p> <p>spoke1(HubAndSpokes)</p> <p>Subscription : Azure for Students</p> <p>Resource group: HubAndSpokes</p> <p><a href="#">Edit</a></p>	<p>Test configurations</p> <p>0 Items</p> <p><a href="#">Add Test configuration</a></p>	<p>Destinations</p> <p>0 Items</p> <p><a href="#">Add destinations</a></p>

**Add Test configuration - Microsoft Azure** | **portal.azure.com/#view/Microsoft\_Azure\_FlowLog/AddTestGroupBlade/subscriptionInputs-/7B"authorizationSource"%3A"RoleBased"%2C"displayName"%3A"Azure%20for... New Tab** | **Copilot** | **mn1612@fayoum.edu.eg** | **DEFAULT DIRECTORY (MN1612fa...)**

Home > Monitor | Networks > Create Connection Monitor

### Add test group details

Some selected endpoints do not have the monitoring extension enabled. They will be automatically enabled during the creation of the connection monitor. If you do not wish to automatically enable the extensions, kindly deselect the endpoints before proceeding further.

Sources	Extension Status
hub(HubAndSpokes)	Not Enabled
spoke1(HubAndSpokes)	Not Enabled

[Add sources](#)

[Disable test group](#)

[Add Test Group](#) [Cancel](#)

**Add Test configuration**

New configuration Choose existing

Test configuration name \*

Protocol

Create TCP test configuration

Destination port \*

Test Frequency

HTTP Configuration

Method

Path

[Add Test configuration](#) [Cancel](#)

**Add Destinations - Microsoft Azure** | **portal.azure.com/#view/Microsoft\_Azure\_FlowLog/AddTestGroupBlade/subscriptionInputs-/7B"authorizationSource"%3A"RoleBased"%2C"displayName"%3A"Azure%20for... New Tab** | **Copilot** | **mn1612@fayoum.edu.eg** | **DEFAULT DIRECTORY (MN1612fa...)**

Home > Monitor | Networks > Create Connection Monitor

### Add test group details

Some selected endpoints do not have the monitoring extension enabled. They will be automatically enabled during the creation of the connection monitor. If you do not wish to automatically enable the extensions, kindly deselect the endpoints before proceeding further.

Sources	Extension Status
hub(HubAndSpokes)	Not Enabled
spoke1(HubAndSpokes)	Not Enabled

[Add sources](#)

[Disable test group](#)

[Add Test Group](#) [Cancel](#)

**Add Destinations**

Azure endpoints ARC endpoints External Addresses Recent endpoint

Select from a list of Azure VMs. Group by, search and filter on Subscriptions, Resource Groups, VNET and Subnet.

Type \*

Subscription  Resource group  VNET  Subnet

Subscription \* Region \*

Azure for Students  Filter by name

Name	IP	Subscription	Resource group	Subnet
hub		Azure for Students	HubAndSpokes	
spoke1		Azure for Students	HubAndSpokes	
spoke2		Azure for Students	HubAndSpokes	

[Selected destinations \(1 Azure endpoints\)](#)

[Add endpoints](#) [Cancel](#)

**Add test group details - Microsoft Azure** | **portal.azure.com/#view/Microsoft\_Azure\_FlowLog/AddTestGroupBlade/subscriptionInputs-/7B"authorizationSource"%3A"RoleBased"%2C"displayName"%3A"Azure%20for... New Tab** | **Copilot** | **mn1612@fayoum.edu.eg** | **DEFAULT DIRECTORY (MN1612fa...)**

Home > Monitor | Networks > Create Connection Monitor

### Add test group details

Some selected endpoints do not have the monitoring extension enabled. They will be automatically enabled during the creation of the connection monitor. If you do not wish to automatically enable the extensions, kindly deselect the endpoints before proceeding further.

Sources	Extension Status
hub(HubAndSpokes)	Not Enabled

[Add sources](#)

[Disable test group](#)

[Add Test Group](#) [Cancel](#)

**Add test group details**

Test configurations 1 Items

testconf

[Add Test configuration](#)

Destinations 1 Items

spoke1(HubAndSpokes) Enabled

[Add destinations](#)

**Add Test configuration - Microsoft Azure** | **troubleshoot VM Insights - Microsoft Azure** | **webappondoud - Microsoft Azure** | **Microsoft account security code** | **New Tab**

portal.azure.com/#view/Microsoft\_Azure\_FlowLog/AddTestGroupBlade/subscriptionInputs-/78"authorizationSource"%3A"RoleBased"%2C"displayName"%3A"Azure%20for... | Copilot | Search resources, services, and docs (G+)

mn1612@fayoum.edu.eg | DEFAULT DIRECTORY (MN1612FA...)

**Home > Monitor | Networks > Create Connection Monitor**

## Add test group details

Some selected endpoints do not have the monitoring extension enabled. Kindly deselect the endpoints before proceeding.

A Test group lets you define a logical group that will let you validate a set of tests between a source and destination pair using a defined test configuration. Start by naming your test group and selecting sources and destination based on which you would like to define test for monitoring your network. [Learn more about test groups](#)

**Test group name \*** test2

**Sources** 1 Item

Azure endpoints	Extension Status
hub(HubAndSpokes)	Not Enabled

**Protocol** HTTP

Create TCP test configuration

**Destination port** 80

**Test Frequency** Every 30 seconds

**HTTP Configuration**

**Method** GET

**Path**

**Add Test Group** **Cancel** **Add Test configuration** **Cancel**

**Add Destinations - Microsoft Azure** | **troubleshoot VM Insights - Microsoft Azure** | **webappondoud - Microsoft Azure** | **Microsoft account security code** | **New Tab**

portal.azure.com/#view/Microsoft\_Azure\_FlowLog/AddTestGroupBlade/subscriptionInputs-/78"authorizationSource"%3A"RoleBased"%2C"displayName"%3A"Azure%20for... | Copilot | Search resources, services, and docs (G+)

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**Home > Monitor | Networks > Create Connection Monitor**

## Add test group details

Some selected endpoints do not have the monitoring extension enabled. Kindly deselect the endpoints before proceeding.

A Test group lets you define a logical group that will let you validate a set of tests between a source and destination pair using a defined test configuration. Start by naming your test group and selecting sources and destination based on which you would like to define test for monitoring your network. [Learn more about test groups](#)

**Test group name \*** test2

**Sources** 1 Item

Azure endpoints	Extension Status
hub(HubAndSpokes)	Not Enabled

**Azure endpoints** **ARC endpoints** **External Addresses** **Recent endpoint**

**Type** Virtual Machines

**Subscription** Azure for Students **Region** 96 selected

**Filter by name**

Name	IP	Subscription	Resource group	Subnet
hub		Azure for Students	HubAndSpokes	
spoke1		Azure for Students	HubAndSpokes	
spoke2		Azure for Students	HubAndSpokes	

**Selected destinations (1 Azure endpoints)**

**Add endpoints** **Cancel**

**Add test group details - Microsoft Azure** | **troubleshoot VM Insights - Microsoft Azure** | **webappondoud - Microsoft Azure** | **Microsoft account security code** | **New Tab**

portal.azure.com/#view/Microsoft\_Azure\_FlowLog/AddTestGroupBlade/subscriptionInputs-/78"authorizationSource"%3A"RoleBased"%2C"displayName"%3A"Azure%20for... | Copilot | Search resources, services, and docs (G+)

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**Home > Monitor | Networks > Create Connection Monitor**

## Add test group details

Some selected endpoints do not have the monitoring extension enabled. They will be automatically enabled during the creation of the connection monitor. If you do not wish to automatically enable the extensions, kindly deselect the endpoints before proceeding further.

A Test group lets you define a logical group that will let you validate a set of tests between a source and destination pair using a defined test configuration. Start by naming your test group and selecting sources and destination based on which you would like to define test for monitoring your network. [Learn more about test groups](#)

**Test group name \*** test2

**Sources** 1 Item

Azure endpoints	Extension Status
hub(HubAndSpokes)	Not Enabled

**Test configurations** 1 Items

testconf1	X
-----------	---

**Destinations** 1 Item

Azure endpoints	Extension Status
spoke2(HubAndSpokes)	Enabled

**Add Test Group** **Cancel**

[Create Connection Monitor - Microsoft Azure](#) | [Troubleshoot VM Insights - Microsoft Azure](#) | [webappondoud - Microsoft Azure](#) | [Microsoft account security code - Microsoft Azure](#) | [New Tab](#)

portal.azure.com/#view/Microsoft\_Azure\_FlowLogs/ConnectionMonitorConfigV2ViewModel

**Microsoft Azure** Search resources, services, and docs (G+)

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Home > Monitor | Networks >

## Create Connection Monitor

Basics Test groups Workspace Create alert Review + create

Some selected endpoints do not have the monitoring extension enabled. They will be automatically enabled during the creation of the connection monitor. If you do not wish to automatically enable the extensions, kindly deselect the endpoints before proceeding further

Each test group in Connection Monitor defines a number of sources, destinations and test configurations. All sources and destinations added to a test group with test configuration specified get broken down to individual tests. Tests are automatically generated by Connection Monitor. Individual tests will produce their own results, including checks failure rate and round-trip time.

Name	Sources ↑↓	Destinations ↑↓	Test Configuration ↑↓	Current Cost/...	Estimated Cost/...	Status ↑↓	Extension Status ↑↓
test1	hub(HubAndSpokes)	spoke1(HubAndSpokes)	testconf	0	\$0.3	Enabled	1 Auto Enablement
test2	hub(HubAndSpokes)	spoke2(HubAndSpokes)	testconf1	0	\$0.3	Enabled	1 Auto Enablement

Add Test Group << Previous Next : Workspace >> Review + create Cancel

[Monitor - Microsoft Azure](#) | [Troubleshoot VM Insights - Microsoft Azure](#) | [webappondoud - Microsoft Azure](#) | [Microsoft account security code - Microsoft Azure](#) | [New Tab](#)

portal.azure.com/#view/Microsoft\_Azure\_Monitoring/AzureMonitoringBrowseBlade/-/networkinsights

**Microsoft Azure** Search resources, services, and docs (G+)

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Home > Monitor

## Monitor | Networks

Search Refresh Feedback Useful Links Diagnostic Toolkit Topology

Try our new Topology experience which offers visualization of Azure resources for ease of inventory management and monitoring network at scale. Leverage it to visualize resources and their dependencies across subscriptions, regions and locations. Click to navigate to the experience.

Received our alerts and health. Click on the resource tiles below to view details

Show health Available Degraded Unavailable Unknown Health not supported

Network interfaces(3)	Network security g... (1)
Resource health	Resource health
3	1

Public IPs(3)	Virtual networks(4)
Resource health	Resource health
3	4

Alert time interval Last 24 hours + New Alert

Alert - All resource type

Total alerts Smart groups Total alert rules 0 0 0 Since 5/13/25, 06:12 PM

[Monitor - Microsoft Azure](#) | [Troubleshoot VM Insights - Microsoft Azure](#) | [webappondoud - Microsoft Azure](#) | [Microsoft account security code - Microsoft Azure](#) | [New Tab](#)

portal.azure.com/#view/Microsoft\_Azure\_Monitoring/AzureMonitoringBrowseBlade/-/networkinsights

**Microsoft Azure** Search resources, services, and docs (G+)

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Home > Monitor

## Monitor | Networks

Search Refresh Feedback Useful Links Diagnostic Toolkit Topology

Try our new Topology experience which offers visualization of Azure resources for ease of inventory management and monitoring network at scale. Leverage it to visualize resources and their dependencies across subscriptions, regions and locations. Click to navigate to the experience.

Network health Connectivity Traffic

Search IP Address or Address prefix Subscription = All Resource Group = All Location = All More (1)

Fetched traffic data. Click on the Resource tiles below to view details

Flow Logs and Traffic Analytics Enabled Flow Logs Enabled Flow Logs Not Configured

Switzerland North(1)
NSG
1

Alert time interval Last 24 hours + New Alert

Alert - Traffic Analytics

Create Connection Monitor - Microsoft Azure | troubleshoot VM Insights - Azure | webappondoud - Microsoft Azure | Microsoft account security code | New Tab

portal.azure.com/#view/Microsoft\_Azure\_FlowLog/ConnectionMonitorConfigV2ViewModel

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Microsoft Azure

Search resources, services, and docs (G+)

Home > Monitor | Networks > Topology >

## Create Connection Monitor

Basics Test groups Workspace Create alert Review + create

Connection Monitor Name \* connectionmonitor

Subscription \* Azure for Students

Region \* Switzerland North

Next : Test groups > Review + create Cancel

Server Manager

Server Manager > Dashboard

Add Roles and Features Wizard

Select server roles

Before You Begin  
Installation Type  
Server Selection  
**Server Roles**  
Features  
Web Server Role (IIS)  
Role Services  
Confirmation  
Results

Roles

- Active Directory Domain Services
- Active Directory Federation Services
- Active Directory Lightweight Directory Services
- Active Directory Rights Management Services
- Device Health Attestation
- DHCP Server
- DNS Server
- Fax Server
- File and Storage Services (1 of 12 installed)
  - File and Storage Guardian Service
  - Hyper-V
  - Network Controller
  - Network Policy and Access Services
  - Print and Document Services
  - Remote Desktop Services
  - Remote Effects
  - Remote Desktop Services
  - Volume Activation Services
  - Web Server (IIS)
  - Windows Deployment Services
  - Windows Server Update Services
- Windows Deployment Services
- Windows Server Update Services

Description

Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.

DESTINATION SERVER hubvm

Hide

< Previous Next > Install Cancel

Type here to search

Server Manager

Server Manager > Dashboard

Component Services  
Computer Management  
Defragment and Optimize Drives  
Disk Cleanup  
Event Viewer  
**Internet Information Services (IIS) Manager**  
iSCSI Initiator  
Local Security Policy  
Microsoft Azure Services  
ODBC Data Sources (32-bit)  
ODBC Data Sources (64-bit)  
Performance Monitor  
Recovery Drive  
Registry Editor  
Resource Monitor  
System Configuration  
System Information  
Task Scheduler  
Windows Defender Firewall with Advanced Security  
Windows Memory Diagnostic  
Windows PowerShell  
Windows PowerShell (x86)  
Windows Server Backup

Configure this local server

- 1 Add roles and features
- 2 Add other servers to manage
- 3 Create a server group
- 4 Connect this server to cloud services

QUICK START

WHAT'S NEW

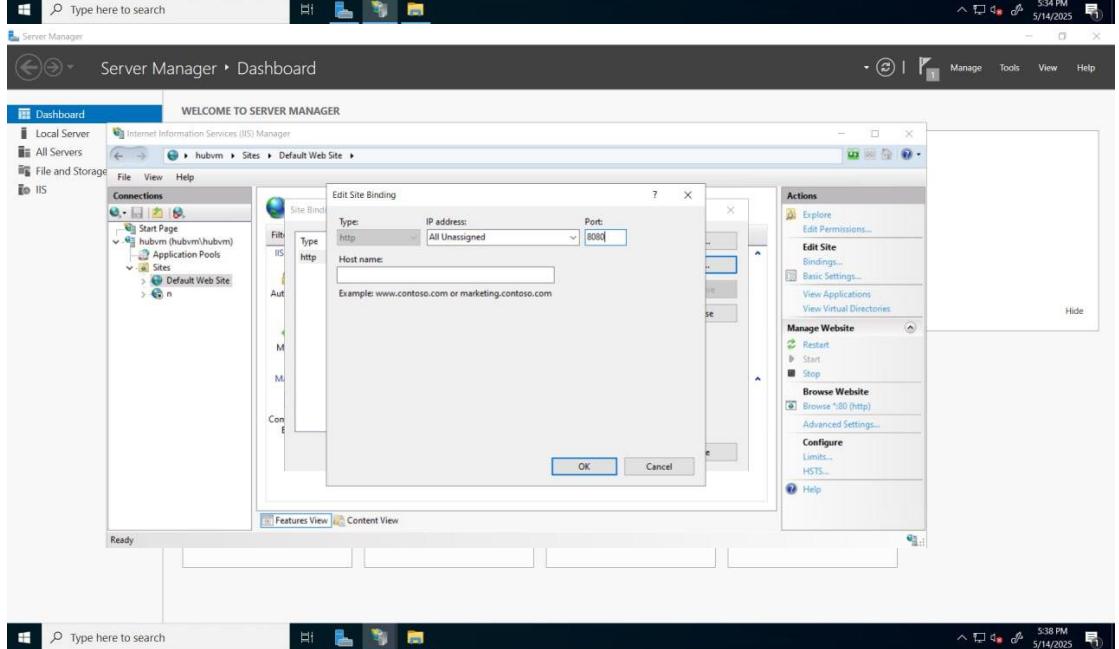
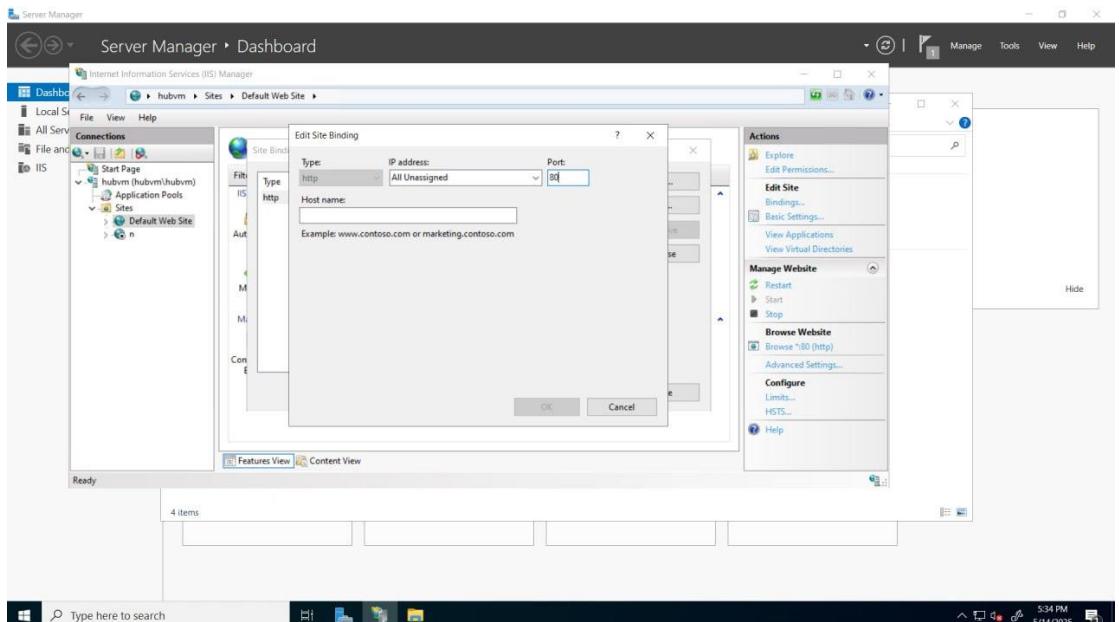
LEARN MORE

ROLES AND SERVER GROUPS

Roles: 2 | Server groups: 1 | Servers total: 1

<b>File and Storage Services</b> 1	<b>IIS</b> 1	<b>Local Server</b> 1
Manageability Events Performance BPA results	Manageability Events Services Performance BPA results	Manageability Events Services Performance BPA results

Services  
Performance  
BPA results



Server Manager

Server Manager • Dashboard

WELCOME TO SERVER MANAGER

This PC > Windows (C) > inetpub > wwwroot > New folder

Name	Date modified	Type	Size
index	5/3/2025 8:58 PM	Microsoft Edge HT...	4 KB

1 item 1 item selected 3.61 KB

Type here to search

Server Manager

Server Manager • Dashboard

WELCOME TO SERVER MANAGER

hubvm (hubvm\hubvm)

File View Help

Connections

- Start Page
- hubvm (hubvm\hubvm)
- Application Pools
- Sites
  - Default Web Site
- Explore
- Edit Permissions...
- Add Application...
- Add Virtual Directory...
- Edit Bindings...
- Manage Website
  - Restart
  - Start
  - Stop
  - Browse
  - Advanced Settings...
- Refresh
- Remove
- Rename
- Switch to Content View

hubvm Home

Filter: Go Show All Group by: Area

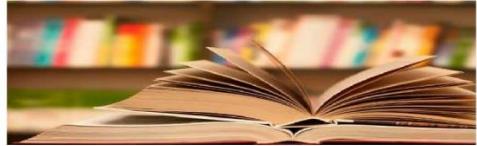
IIS

Actions

- Manage Server
  - Restart
  - Start
  - Stop
- View Application Pools
- View Sites
- Get New Web Platform Components
- Help

Type here to search

Reading



Reading is an exercise for the mind. It helps kids calm down and relax, opening doors of new knowledge to enlighten their minds. Kids who read grow up to have better cognitive skills. Reading is good for everyone, not only children or young adults. On the internet you will find many lists with up to 30 reasons why reading is important. Here I limit myself to 15 thoroughly substantiated reasons.

**The important of reading :**

- 1. Helps Understand Instructions
- 2. Supports Us on the Job
- 3. Develops New Skills
- 4. Supports All Areas of Life
- 5. Builds a Strong Vocabulary
- 6. Supports All Areas of Life

**Kinds Of Book :**



## 18- Make a Cost Estimation and Budget Optimization (TCO).

