



Azure 103 Module 4

Hands On - 4

Azure Certification Training

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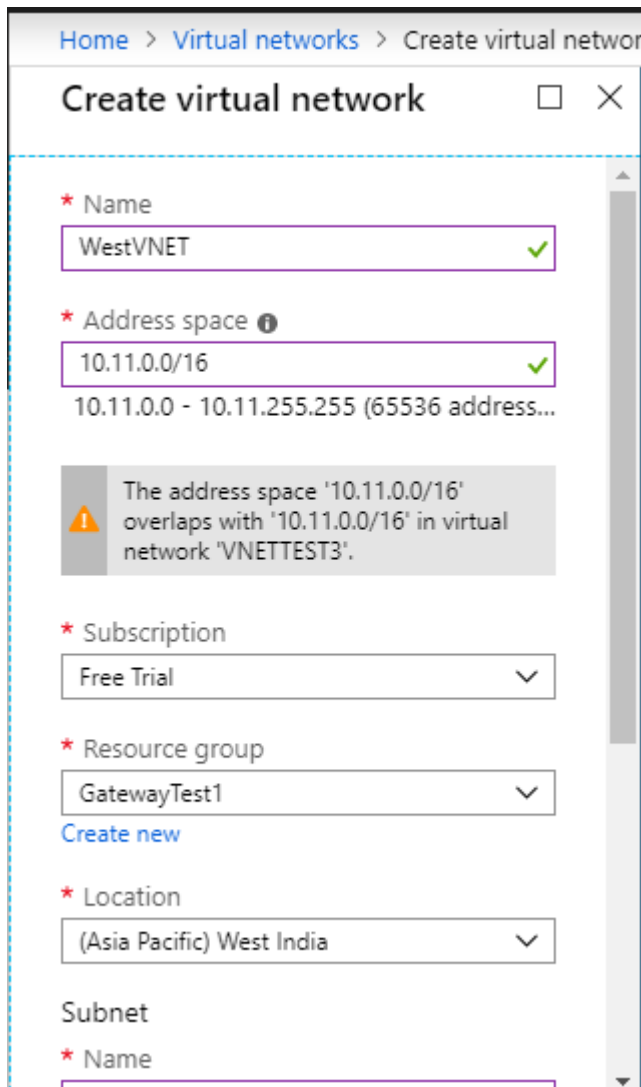
US: 1-800-216-8930(Toll Free)

Azure 103 Module 4 , Hands On – 4

Create a VNET to VNET Gateway Connection.

Step 1: Create two resource groups (In separate locations i.e. West India and South India).

Step 2: Create two virtual networks in separate regions one in each resource group (Central and South India).



Home > Virtual networks > Create virtual network

Create virtual network

* Name
WestVNET ✓

* Address space ⓘ
10.11.0.0/16 ✓
10.11.0.0 - 10.11.255.255 (65536 address...)

⚠ The address space '10.11.0.0/16' overlaps with '10.11.0.0/16' in virtual network 'VNETTEST3'.


* Subscription
Free Trial ▼


* Resource group
GatewayTest1 ▼
[Create new](#)

* Location
(Asia Pacific) West India ▼


Subnet



* Name
-


* Resource group
GatewayTest1 
[Create new](#)


* Location
(Asia Pacific) West India 


Subnet

* Name
Front 

* Address range 
10.11.0.0/24 
10.11.0.0 - 10.11.0.255 (256 addresses)

DDoS protection 
☒ Basic ☐ Standard

Service endpoints 
Disabled Enabled

Firewall 
Disabled Enabled

Create [Automation options](#)

Home > Virtual networks > Create virtual network

Create virtual network □ ×

*** Name**

SouthVNET ✓

*** Address space ⓘ**

10.41.0.0/16 ✓

10.41.0.0 - 10.41.255.255 (65536 address...)

⚠ The address space '10.41.0.0/16' overlaps with '10.41.0.0/16' in virtual network 'VNetTest2'.

*** Subscription**

Free Trial ▼

*** Resource group**

GatewayTest2 ▼

[Create new](#)

*** Location**

(Asia Pacific) South India ▼

Subnet

*** Name**

Front ✓

Home > Virtual networks > Create virtual network

Create virtual network

* Resource group
GatewayTest2

* Location
(Asia Pacific) South India

Subnet

* Name
Front ✓

* Address range ⓘ
10.41.0.0/24 ✓
10.41.0.0 - 10.41.0.255 (256 addresses)

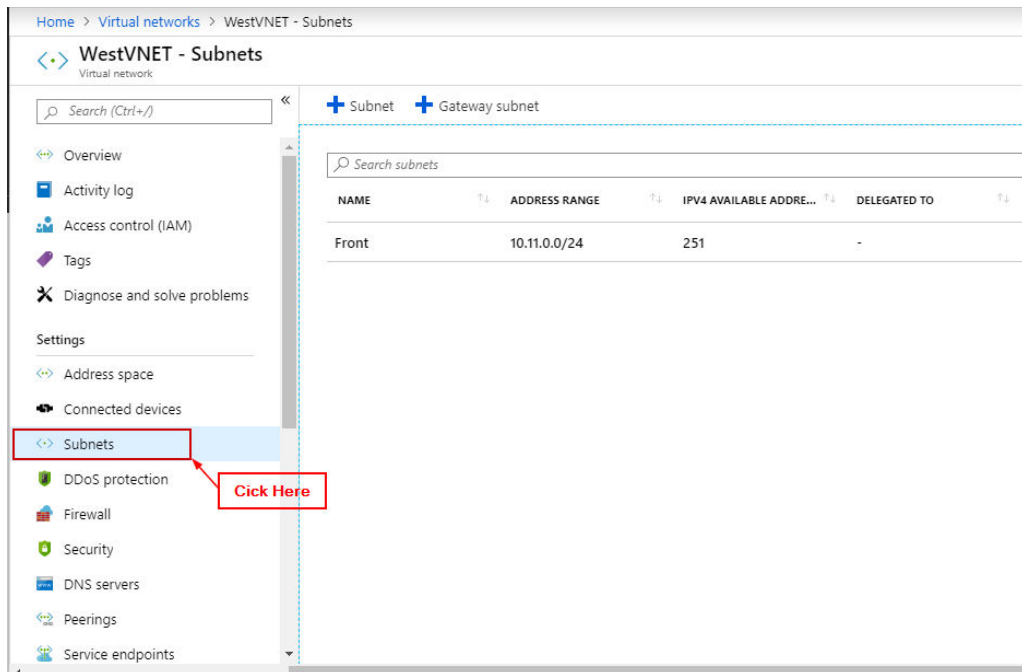
DDoS protection ⓘ
☒ Basic ☐ Standard

Service endpoints ⓘ

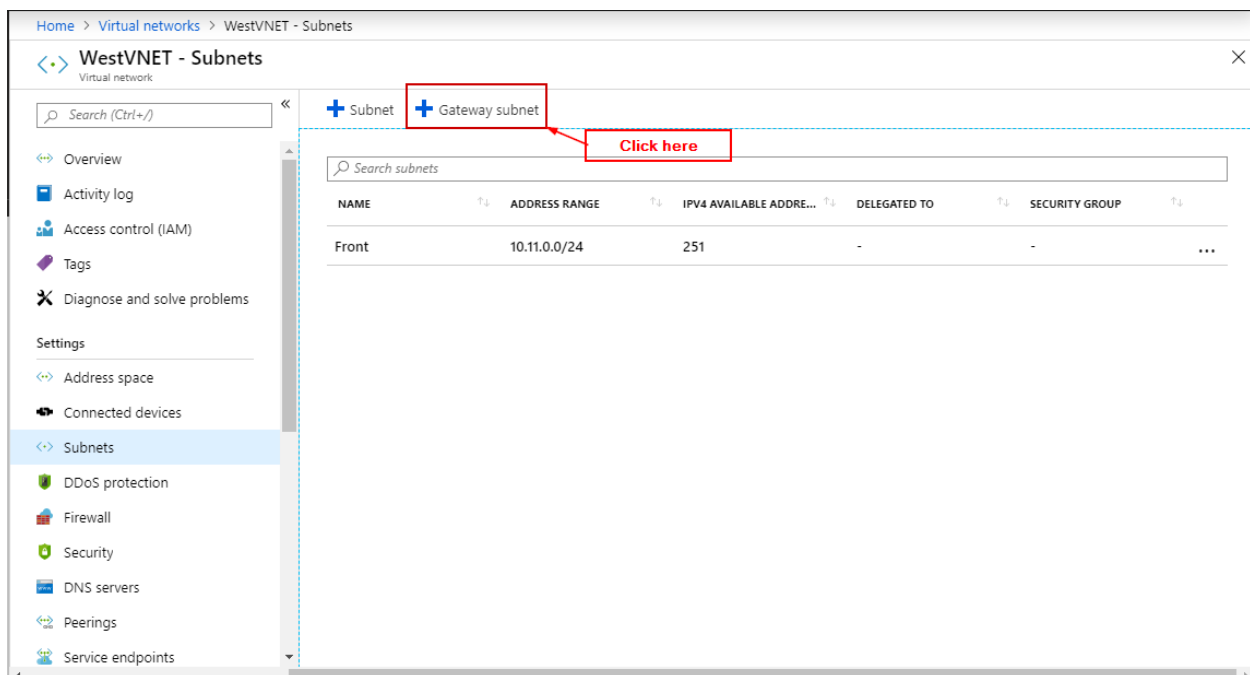
Firewall ⓘ

[Automation options](#)

Step 3: Open the VNet and go to subnets.



Step 4: Click on + Gateway subnet.



Step 5: Enter details and click on OK (Do this for both VNets).

Add subnet
✕

WestVNET

* Name

* Address range (CIDR block) ⓘ
 ✓

10.11.255.0 - 10.11.255.31 (27 + 5 Azure reserved addresses)

Network security group
 ▼

Route table
 ▼

Service endpoints

Services ⓘ
 ▼

Subnet delegation

Delegate subnet to a service ⓘ
 ▼

OK

Add subnet

SouthVNET

* Name

GatewaySubnet

* Address range (CIDR block) ⓘ

10.41.255.0/27 ✓

10.41.255.0 - 10.41.255.31 (27 + 5 Azure reserved addresses)

Network security group

None

Route table

None

Service endpoints

Services ⓘ

0 selected

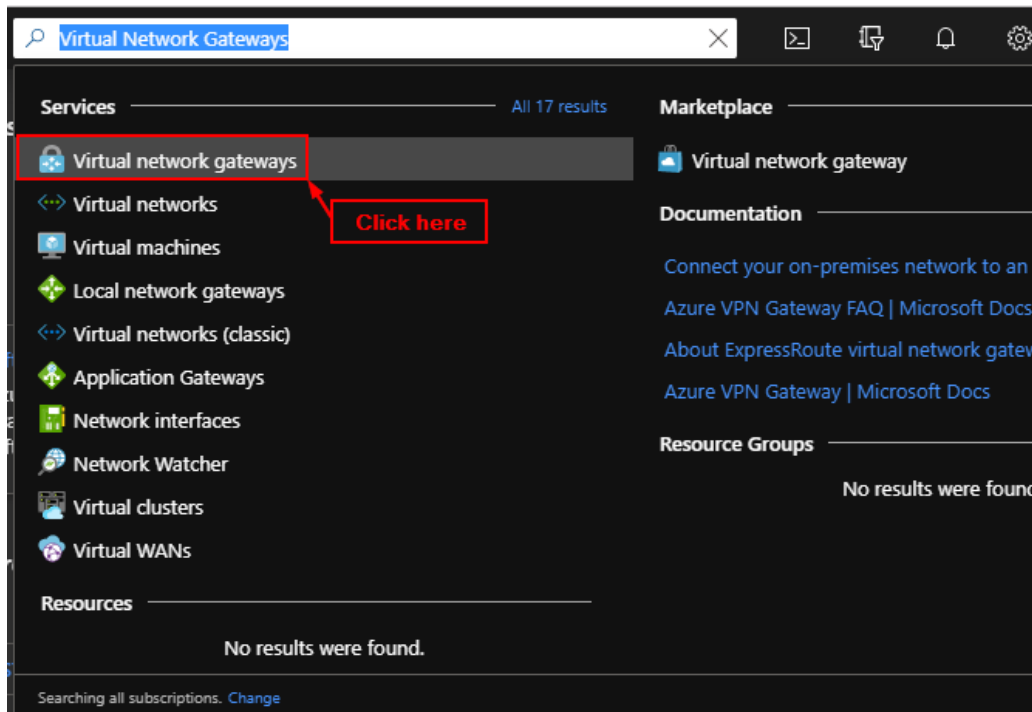
Subnet delegation

Delegate subnet to a service ⓘ

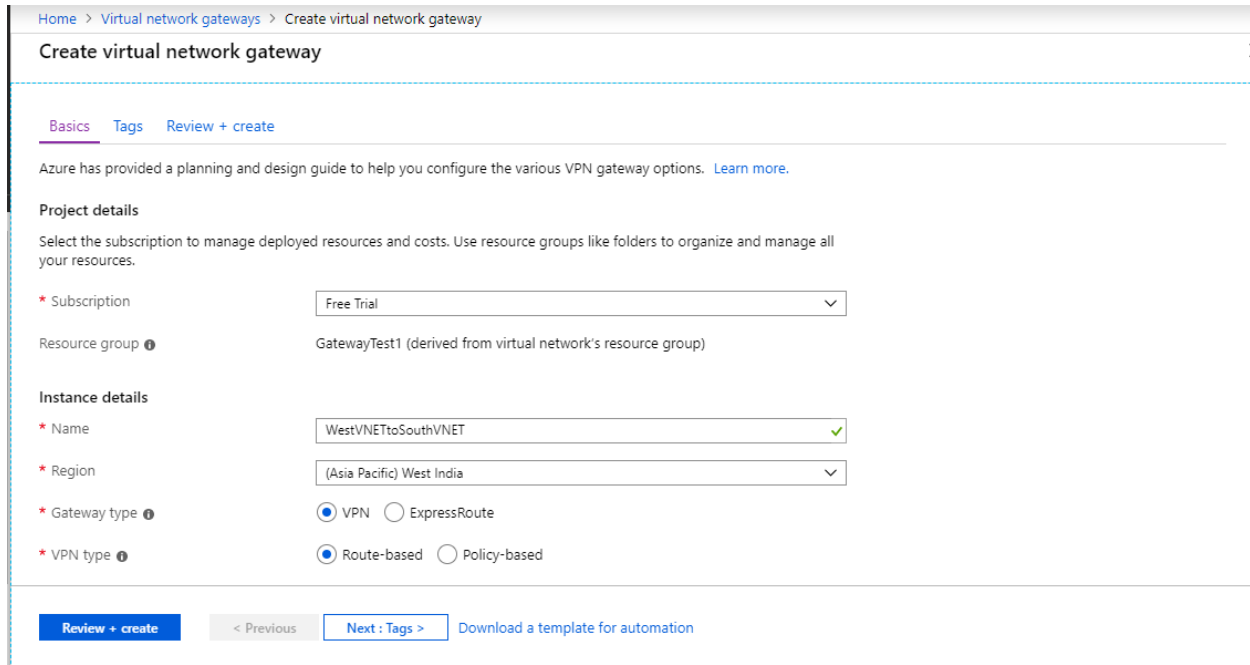
None

OK

Step 6: In Azure portal search for Virtual Network Gateways and click on it.



Step 7: Click on + Add and Enter information and click create. (Create two Gateways one with each Virtual Network selected that we created earlier).



The screenshot shows the 'Create virtual network gateway' form in the Azure portal. The form is titled 'Create virtual network gateway' and has tabs for 'Basics', 'Tags', and 'Review + create'. The 'Basics' tab is selected. The form contains the following fields:

- Project details**
 - Subscription: Free Trial
 - Resource group: GatewayTest1 (derived from virtual network's resource group)
- Instance details**
 - Name: WestVNETtoSouthVNET
 - Region: (Asia Pacific) West India
 - Gateway type: VPN (selected), ExpressRoute
 - VPN type: Route-based (selected), Policy-based

At the bottom of the form, there are buttons for 'Review + create', '< Previous', 'Next : Tags >', and 'Download a template for automation'.

Home > Virtual network gateways > Create virtual network gateway

Create virtual network gateway

VIRTUAL NETWORK

* Virtual network

Gateway subnet address range 10.11.255.0/27

Public IP address

* Public IP address ☒ Create new ☐ Use existing

* Public IP address name

Public IP address SKU Basic

* Assignment ☒ Dynamic ☐ Static

* Enable active-active mode ☐ Enabled ☒ Disabled

* Configure BGP ASN ☐ Enabled ☒ Disabled

Azure recommends using a validated VPN device with your virtual network gateway. To view a list of validated devices and instructions for configuration, refer to Azure's [documentation](#) regarding validated VPN devices.

[Click Here](#)

[Review + create](#) [< Previous](#) [Next : Tags >](#) [Download a template for automation](#)

Home > Virtual network gateways > Create virtual network gateway

Create virtual network gateway

✓ Validation passed

[Basics](#) [Tags](#) [Review + create](#)

Basics

Subscription	Free Trial
Resource group	None
Name	WestVNETtoSouthVNET
Region	(Asia Pacific) West India
SKU	VpnGw1
Virtual network	WestVNET
Subnet	GatewaySubnet (10.11.255.0/27)
Gateway type	Vpn
VPN type	RouteBased
Enable active-active mode	Disabled
Configure BGP ASN	Disabled
Public IP address	WestVNETtoSouthVNETIP

Tags

[Click Here](#)

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

Home > Virtual network gateways > Create virtual network gateway

Create virtual network gateway

Basics Tags Review + create

Azure has provided a planning and design guide to help you configure the various VPN gateway options. [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 Free Trial

Resource group GatewayTest2 (derived from virtual network's resource group)

Instance details

* Name SouthVNETtoWestVNET

* Region (Asia Pacific) South India

* Gateway type ☒ VPN ☐ ExpressRoute

* VPN type ☒ Route-based ☐ Policy-based

Home > Virtual network gateways > Create virtual network gateway

Create virtual network gateway

VIRTUAL NETWORK

* Virtual network SouthVNET

Gateway subnet address range 10.41.255.0/27

Public IP address

* Public IP address ☒ Create new ☐ Use existing

* Public IP address name SouthVNETtoWestVNETIP

Public IP address SKU Basic

* Assignment ☒ Dynamic ☐ Static

* Enable active-active mode ☐ Enabled ☒ Disabled

* Configure BGP ASN ☐ Enabled ☒ Disabled

Azure recommends using a validated VPN device with your virtual network gateway. To view a list of validated devices and instructions for configuration, refer to Azure's [documentation](#) regarding validated VPN devices.

Click Here

Review + create

< Previous

Next : Tags >

[Download a template for automation](#)

Home > Virtual network gateways > Create virtual network gateway

Create virtual network gateway

✓ Validation passed

Basics Tags Review + create

Basics

Subscription	Free Trial
Resource group	None
Name	SouthVNETtoWestVNET
Region	(Asia Pacific) South India
SKU	VpnGw1
Virtual network	SouthVNET
Subnet	GatewaySubnet (10.41.255.0/27)
Gateway type	Vpn
VPN type	RouteBased
Enable active-active mode	Disabled
Configure BGP ASN	Disabled
Public IP address	SouthVNETtoWestVNETIP

Tags

[Click Here](#)

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

Step 9: Open a virtual network click on connections.

Home > SouthVNETtoWestVNET

SouthVNETtoWestVNET

Virtual network gateway

Search (Ctrl+/)

Refresh Move Delete

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Settings

- Configuration
- [Connections](#)
- Point-to-site configuration
- Properties
- Locks
- Export template

Monitoring

- Logs
- Alerts

Updating

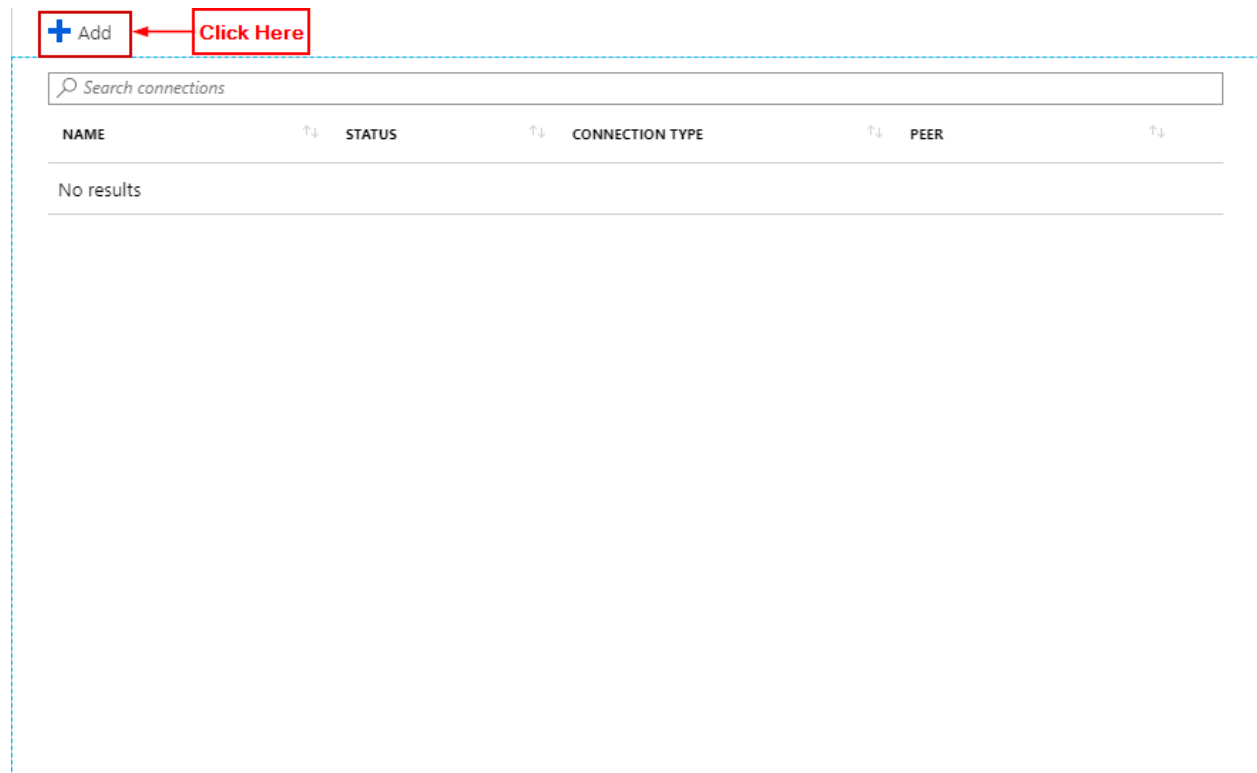
Resource group (change)	SKU
GatewayTest2	VpnGw1
Location	Gateway type
South India	VPN
Subscription (change)	VPN type
Free Trial	Route-based
Subscription ID	Virtual network
b9be3eac-a886-420f-88c4-c8a6156af111	SouthVNET
Tags (change)	Public IP address
Click here to add tags	- (SouthVNETtoWestVNETIP)

Health check
Perform a quick health check to detect possible gateway issues
[Go to Resource health](#)

Documentation
View guidance on helpful topics related to VPN gateway
[View documentation](#)

Show data for last: [1 hour](#) [6 hours](#) [12 hours](#) [1 day](#) [7 days](#) [30 days](#)

Step 10: Click on '+ Add' and fill in details.



+ Add **Click Here**

Search connections

NAME	STATUS	CONNECTION TYPE	PEER
No results			

Step 11: In the second virtual network gateway select the other virtual network you created that is not selected in the first virtual network gateway field. (Make sure when creating your gateways both your gateways have the same shared key). Click on Ok.

Home > SouthVNETtoWestVNET - Connections >

Add connection

SouthVNETtoWestVNET

* Name

Connection type ⓘ

* First virtual network gateway ⓘ

* Second virtual network gateway ⓘ

* Shared key (PSK) ⓘ

Subscription ⓘ

Resource group ⓘ

Create new

OK Click Here