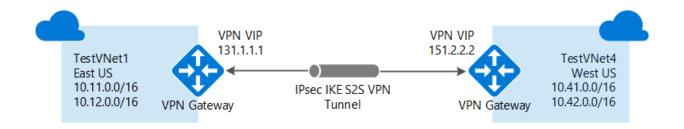
VNet-to-VNet VPN gateway



Example settings

Values for VNet1:

Virtual network settings

Name: VNet1

Address space: 10.1.0.0/16

Subscription: Select the subscription you want to use.

Resource group: TestRG1

Location: East US

Subnet

Name: FrontEnd

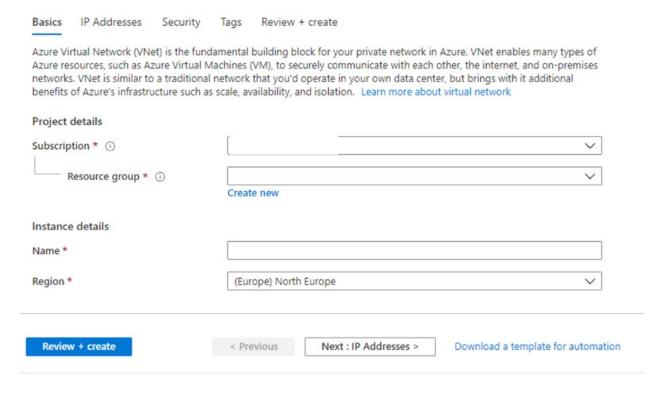
Address range: 10.1.0.0/24

o Gateway subnet:

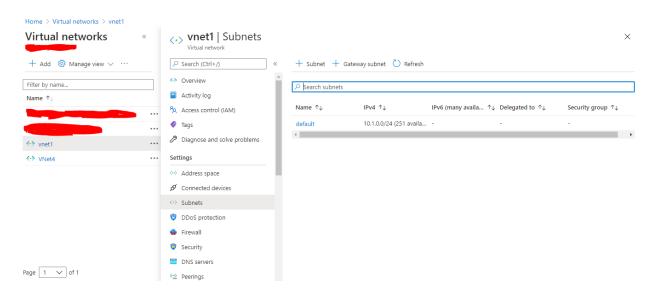
• Name: GatewaySubnet is autofilled

Address range: 10.1.255.0/27

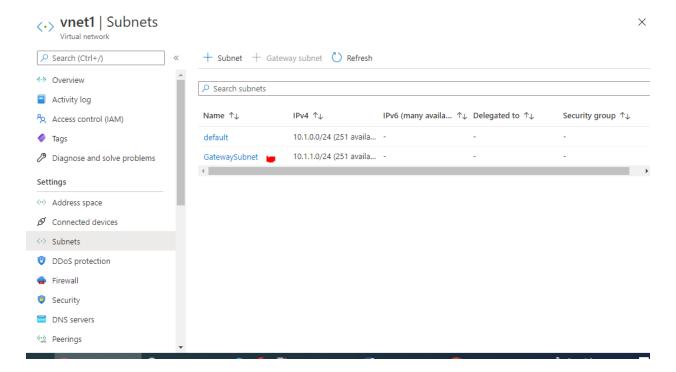
Create virtual network



Create vnet1 with default settings



Create gateway subnet also and explain to student what is mean by gateway subnet.



Virtual network gateway settings

Name: VNet1GW

Gateway type: Select VPN.

VPN type: Select Route-based.

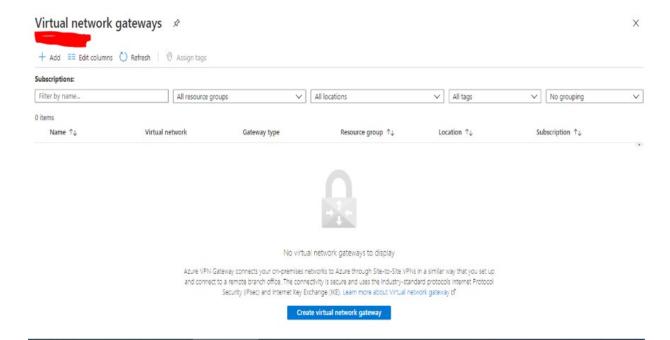
SKU: Select the gateway SKU you want to use.

Public IP address name: VNet1GWpip

Connection

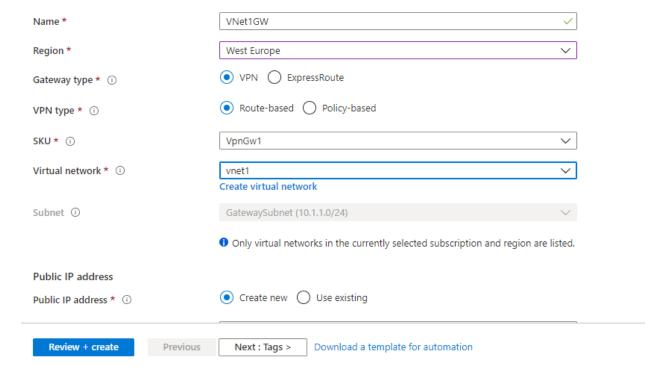
Name: VNet1toVNet4

• **Shared key**: You can create the shared key yourself. When you create the connection between the VNets, the values must match. For this exercise, use abc123.



Home > Virtual network gateways >

Create virtual network gateway



Create virtual network gateway

	Only virtual networks in the currently selected subscription and region are listed.	
Public IP address		
Public IP address * (i)	Create new Use existing	
Public IP address name *	VNet1GWpip ✓	
Public IP address SKU	Basic	
Assignment	Dynamic Static	
Enable active-active mode * ①	○ Enabled ● Disabled	
Configure BGP * ①	○ 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.		
Review + create Previous	Next : Tags > Download a template for automation	

Create VNET Gateway 1

Values for VNet4:

• Virtual network settings

o Name: VNet4

o **Address space**: 10.41.0.0/16

o **Subscription**: Select the subscription you want to use.

Resource group: TestRG4

Location: West US

Subnet

• Name: FrontEnd

• Address range: 10.41.0.0/24

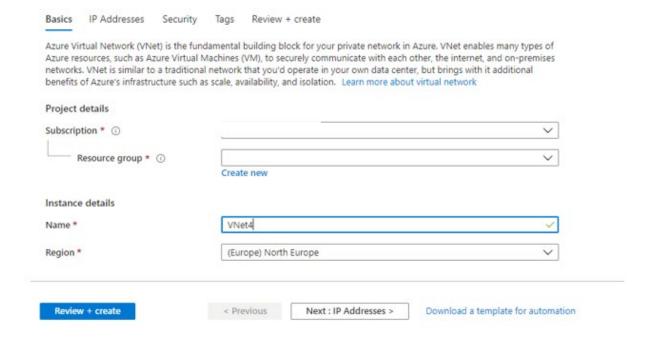
GatewaySubnet

• Name: GatewaySubnet is autofilled

Address range: 10.41.255.0/27

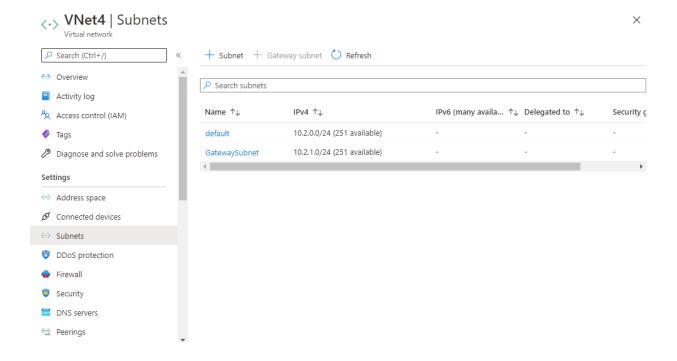
Home > Virtual networks >

Create virtual network



Create vnet4 with default settings.

Now create gateway subnet



Virtual network gateway settings

Name: VNet4GW

Gateway type: Select VPN.

VPN type: Select Route-based.

o **SKU**: Select the gateway SKU you want to use.

Public IP address name: VNet4GWpip

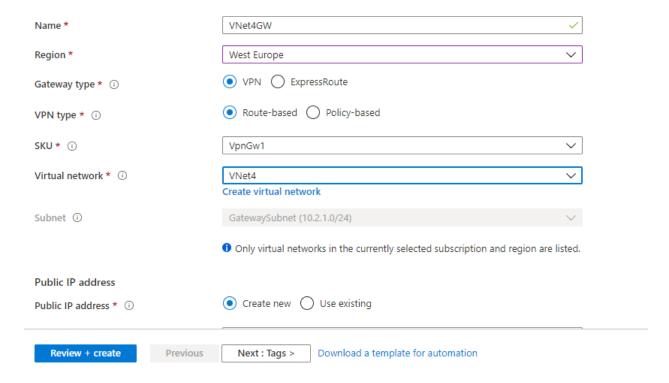
Connection

Name: VNet4toVNet1

• **Shared key**: You can create the shared key yourself. When you create the connection between the VNets, the values must match. For this exercise, use abc123.

Home > Virtual network gateways >

Create virtual network gateway



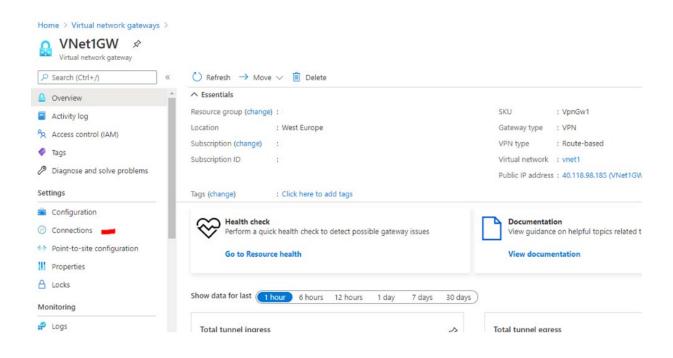
Now virtual network Vnet1, Virtual Network Gateway 1 has been created.

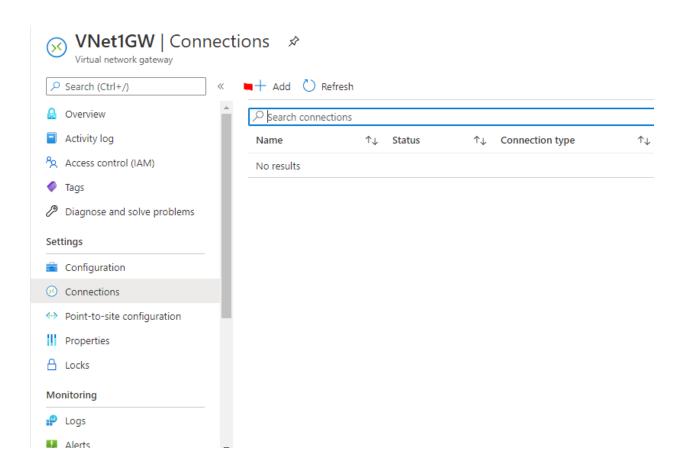
Now virtual network Vnet4, Virtual Network Gateway 4 has been created.

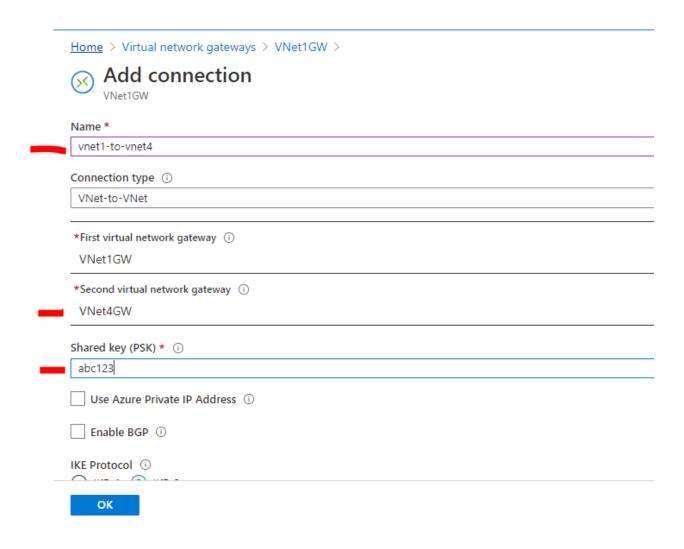
This will take 40 mins

Now first goto VNET Gateway 1

Go to connections



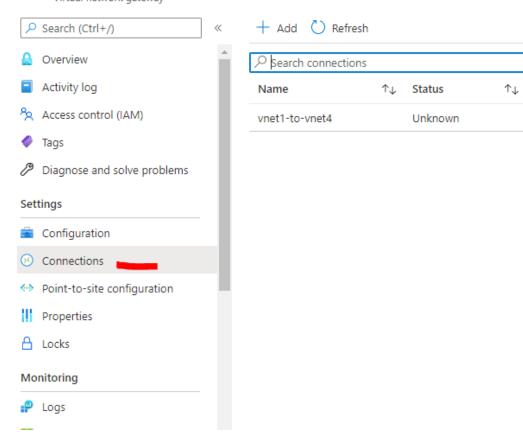




Now goto vnet gateway 4

Do the same vnet4 to vnet 1-→ secret name – abc123





Connection type

VNet-to-VNet

$\underline{\mathsf{Home}} \, \geq \, \mathsf{Virtual} \,\, \mathsf{network} \,\, \mathsf{gateways} \, \geq \, \mathsf{VNet4GW} \, \geq \,$



Name *
vnet4-to-vnet1
Connection type ①
VNet-to-VNet
*First virtual network gateway 🛈
VNet4GW
*Second virtual network gateway (i)
VNet1GW
Shared key (PSK) * i
abc123
Use Azure Private IP Address ①
Enable BGP ①
IKE Protocol ①
ОК

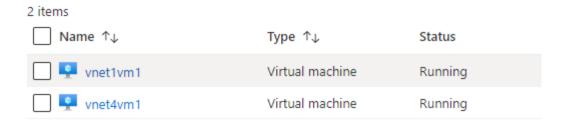
Now create one VM in Vnet1 and another VM in VNET4

Login in each machine and try to ping other machine.

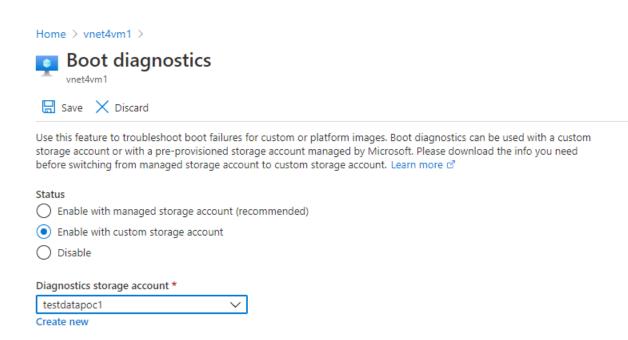
VM in VNET1

1 items		
Name ↑↓	Type ↑↓	Status
vnet1vm1	Virtual machine	Running

VM in VNET4

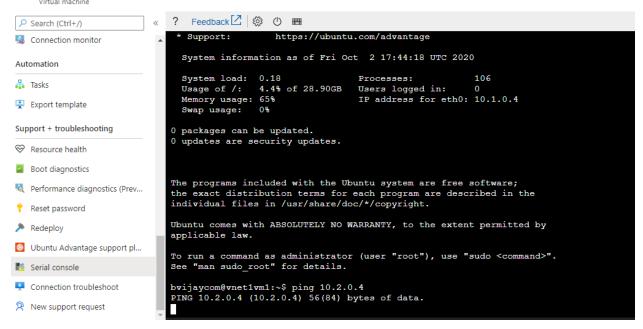


Go to each vm serial console option.if you get any warning then go to boot diagnostics...enable



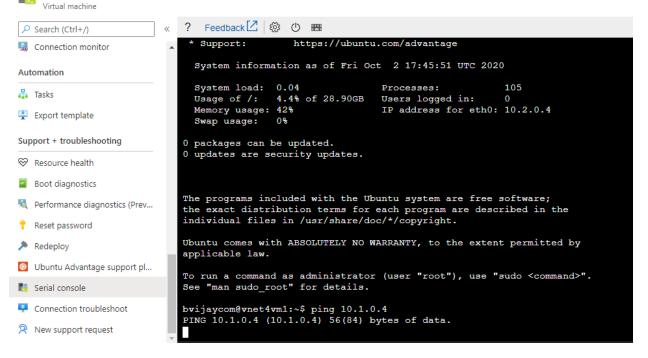
Now go to serial console and it will work.

vnet1vm1 | Serial console



Now try from VNET4 VM 4 machine

Home > vnet4vm1 > vnet4vm1 | Serial console





Now see from both machines

Home > vnet1vm1 >

vnet1vm1 | Serial console

? Feedback ☑ │ ۞ ① ## Search (Ctrl+/) 64 bytes from 10.2.0.4: icmp_seq=201 ttl=64 time=5.02 ms
64 bytes from 10.2.0.4: icmp_seq=202 ttl=64 time=5.09 ms
64 bytes from 10.2.0.4: icmp_seq=203 ttl=64 time=4.62 ms Connection monitor Automation 64 bytes from 10.2.0.4: icmp_seq=204 ttl=64 time=4.98 ms 64 bytes from 10.2.0.4: icmp_seq=204 ttl=64 time=4.98 ms
64 bytes from 10.2.0.4: icmp_seq=205 ttl=64 time=4.78 ms
64 bytes from 10.2.0.4: icmp_seq=206 ttl=64 time=4.89 ms
64 bytes from 10.2.0.4: icmp_seq=207 ttl=64 time=4.93 ms
64 bytes from 10.2.0.4: icmp_seq=208 ttl=64 time=4.87 ms
64 bytes from 10.2.0.4: icmp_seq=209 ttl=64 time=4.89 ms
64 bytes from 10.2.0.4: icmp_seq=210 ttl=64 time=5.60 ms
64 bytes from 10.2.0.4: icmp_seq=211 ttl=64 time=5.22 ms 🖧 Tasks Export template Support + troubleshooting Resource health 64 bytes from 10.2.0.4: icmp_seq=212 ttl=64 time=5.21 ms 64 bytes from 10.2.0.4: icmp_seq=213 ttl=64 time=4.99 ms 64 bytes from 10.2.0.4: icmp_seq=214 ttl=64 time=5.48 ms Boot diagnostics 64 bytes from 10.2.0.4: icmp_seq=215 ttl=64 time=4.61 ms Performance diagnostics (Prev... 64 bytes from 10.2.0.4: icmp_seq=216 ttl=64 time=4.73 ms
64 bytes from 10.2.0.4: icmp_seq=217 ttl=64 time=5.00 ms
64 bytes from 10.2.0.4: icmp_seq=218 ttl=64 time=5.46 ms Reset password 64 bytes from 10.2.0.4: icmp_seq=219 ttl=64 time=4.72 ms
64 bytes from 10.2.0.4: icmp_seq=220 ttl=64 time=5.23 ms
64 bytes from 10.2.0.4: icmp_seq=221 ttl=64 time=5.55 ms Redeploy Ubuntu Advantage support pl... 64 bytes from 10.2.0.4: icmp_seq=222 ttl=64 time=5.35 ms
64 bytes from 10.2.0.4: icmp_seq=222 ttl=64 time=5.37 ms
64 bytes from 10.2.0.4: icmp_seq=223 ttl=64 time=4.93 ms
64 bytes from 10.2.0.4: icmp_seq=224 ttl=64 time=7.63 ms
64 bytes from 10.2.0.4: icmp_seq=225 ttl=64 time=12.1 ms
64 bytes from 10.2.0.4: icmp_seq=226 ttl=64 time=4.60 ms Serial console Connection troubleshoot New support request

Home > vnet4vm1 >



vnet4vm1 | Serial console

Virtual machine

