Lab: Azure Network Services

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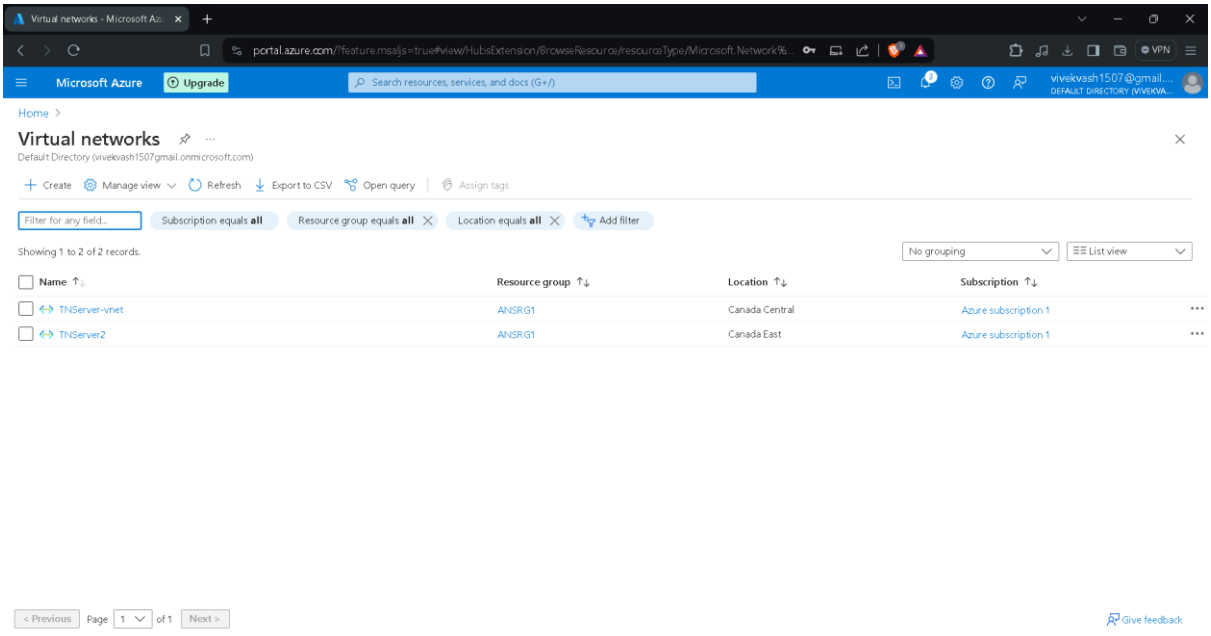
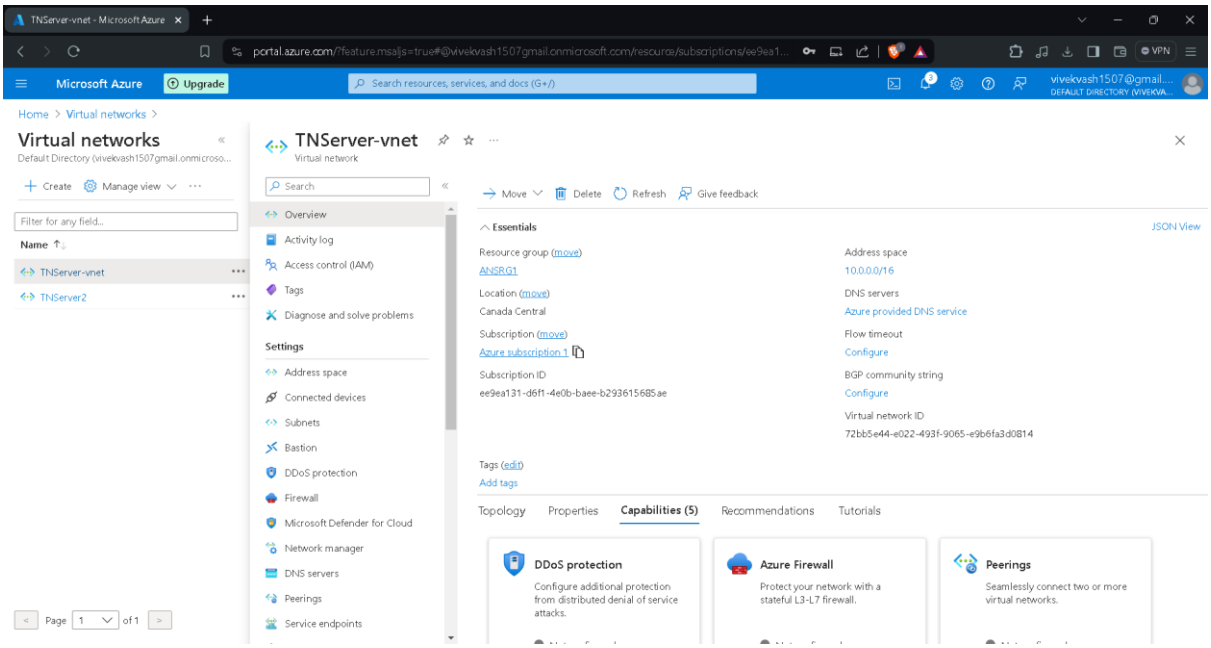
Student ID: 000907246

Screenshots

- Two networks and the ability to ping between them




TNServer-vnet - Microsoft Azure
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Home > Virtual networks >
Virtual networks
Default Directory (vivekvash1507gmail.onmicroso...
Create
Manage view
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TNServer2
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TNServer-vnet
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Firewall
Microsoft Defender for Cloud
Network manager
DNS servers
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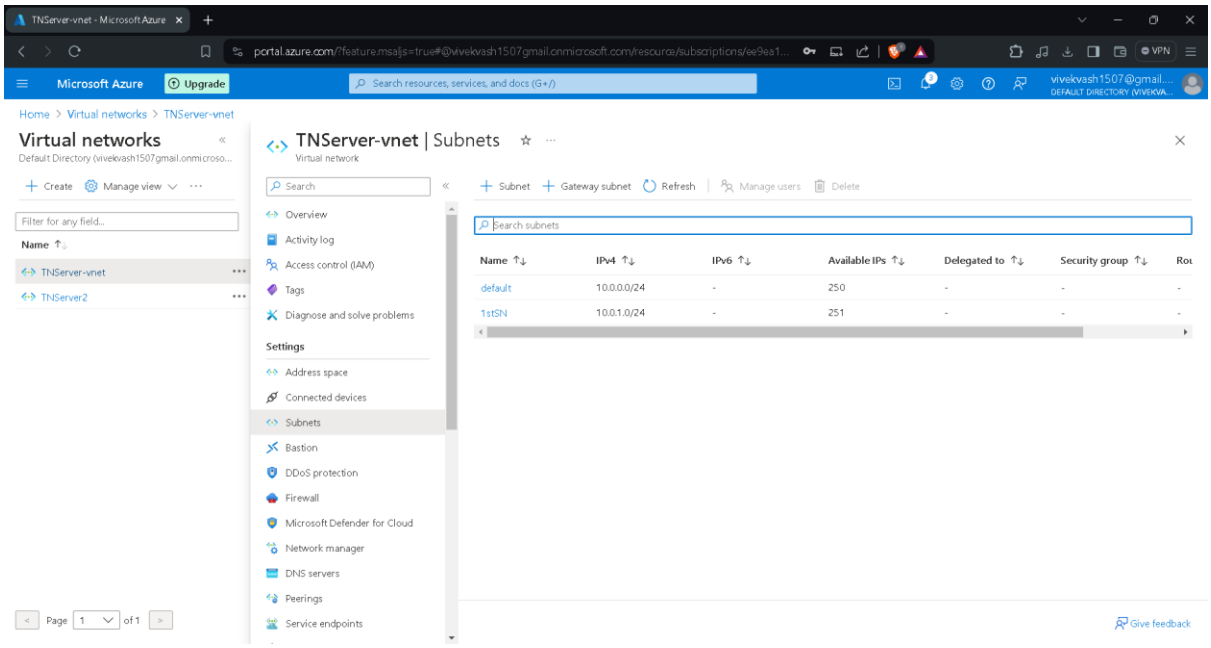
JSON View
Resource group (move)
ANSRG1
Location (move)
Canada Central
Subscription (move)
Azure subscription 1
Subscription ID
ee9ea131-d6f1-4e0b-baee-b293615685ae
Address space
10.0.0.0/16
DNS servers
Azure provided DNS service
Flow timeout
Configure
BGP community string
Configure
Virtual network ID
72bb5e44-e022-493f-9065-e9b6fa3d0814
Tags (edit)
Add tags
Topology
Properties
Capabilities (5)
Recommendations
Tutorials
DDoS protection
Configure additional protection from distributed denial of service attacks.
Azure Firewall
Protect your network with a stateful L3-L7 firewall.
Peerings
Seamlessly connect two or more virtual networks.


TNServer-vnet - Microsoft Azure
Microsoft Azure
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Search resources, services, and docs (G+/)
Home > Virtual networks > TNServer-vnet
Virtual networks
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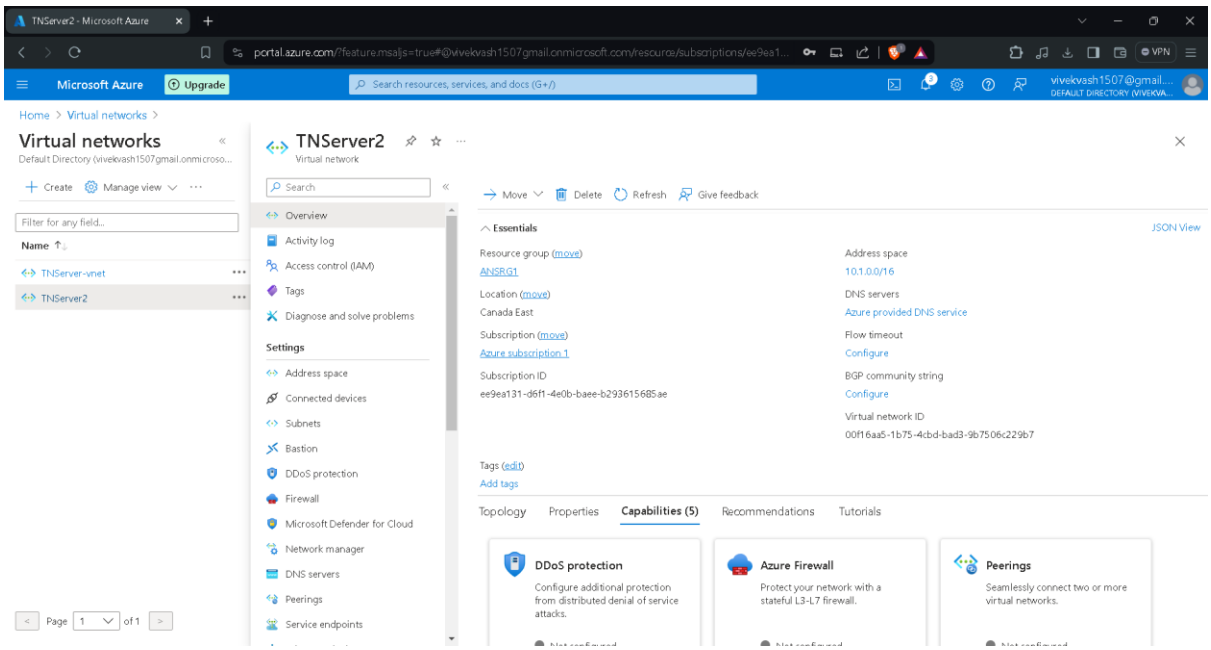
IPv6
Available IPs
Delegated to
Security group
default
10.0.0.0/24
250
1stSN
10.0.1.0/24
251
Give feedback


TNServer2 - Microsoft Azure
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Delete
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Give feedback
Essentials
JSON View
Resource group (move)
ANSRG1
Location (move)
Canada East
Subscription (move)
Azure subscription 1
Subscription ID
ee9ea131-d6f1-4e0b-baee-b293615685ae
Address space
10.1.0.0/16
DNS servers
Azure provided DNS service
Flow timeout
Configure
BGP community string
Configure
Virtual network ID
00f16aa5-1b75-4cbd-bad3-9b7506c229b7
Tags (edit)
Add tags
Topology
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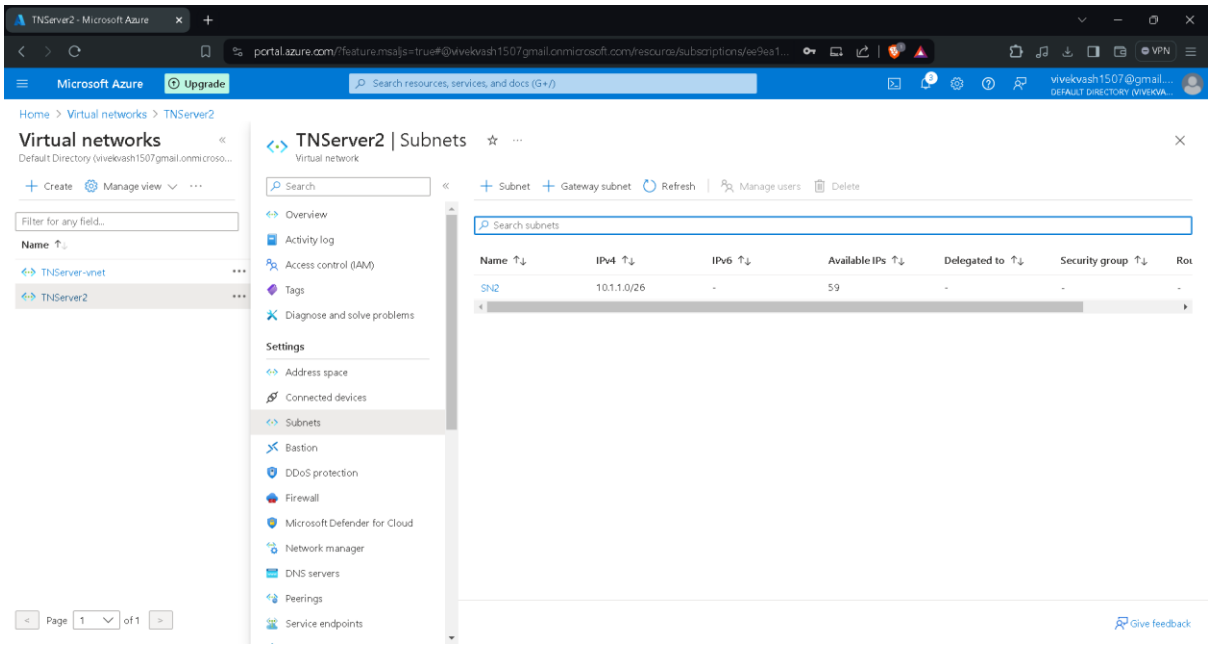
Seamlessly connect two or more virtual networks.


TNServer2 - Microsoft Azure
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Home > Virtual networks > TNServer2
Virtual networks
Default Directory (vivekvash1507gmail.onmicroso...
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Manage view
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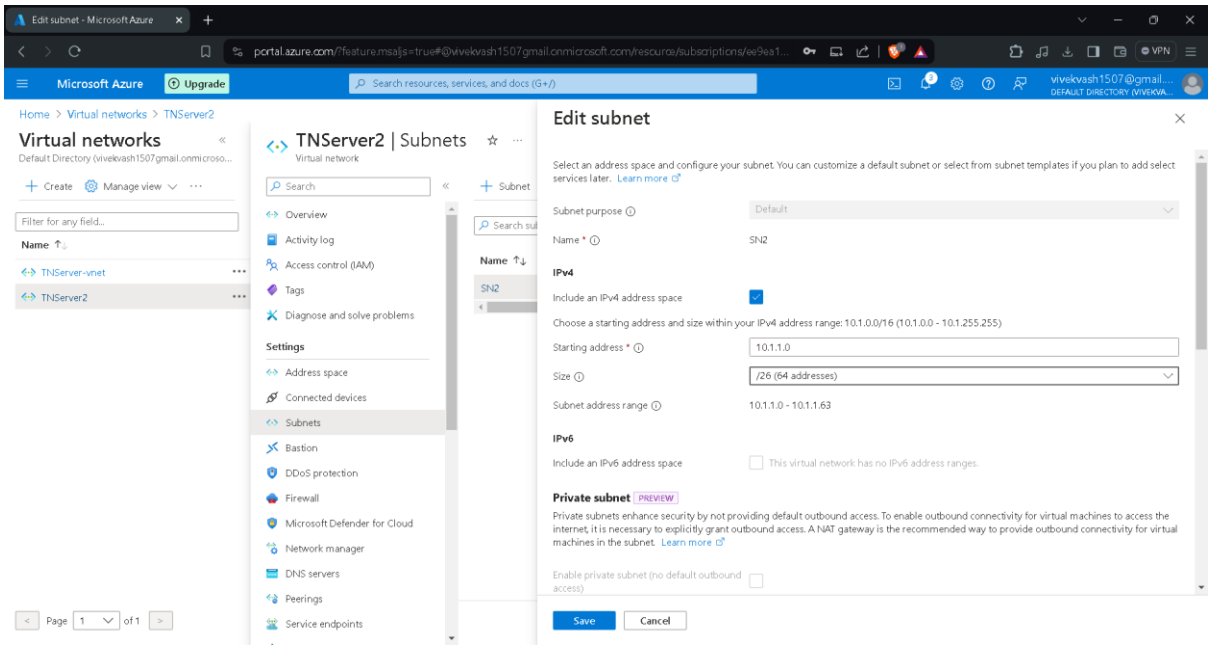
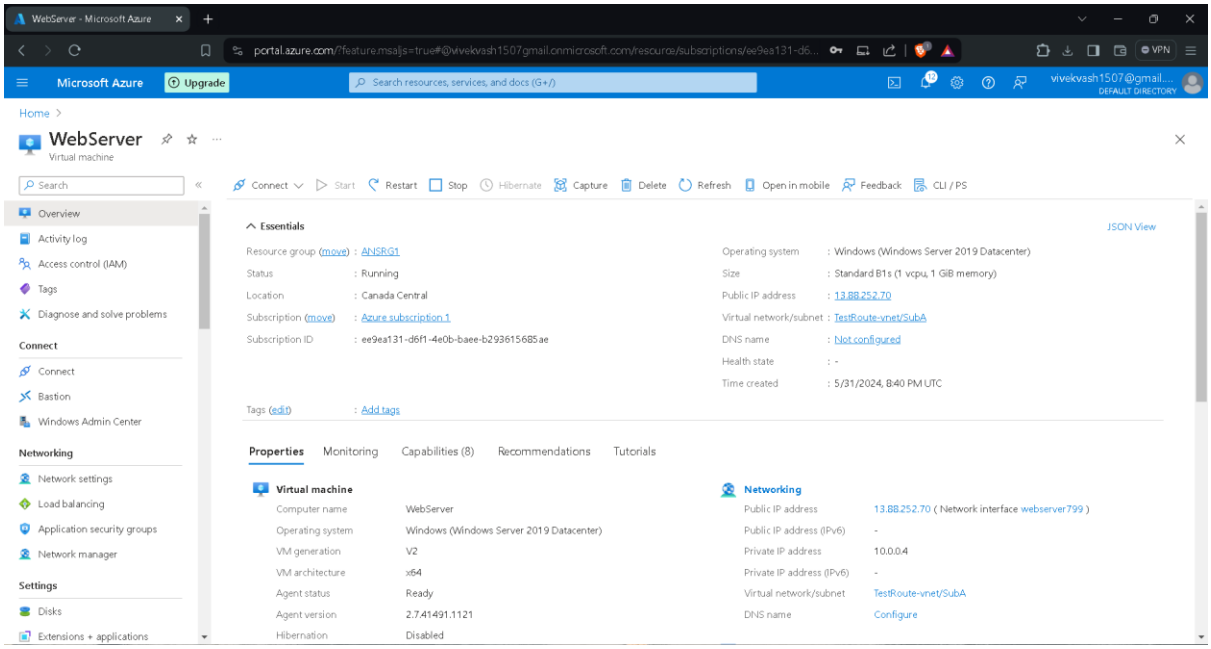
IPv6
Available IPs
Delegated to
Security group
SN2
10.1.1.0/26
59
Give feedback

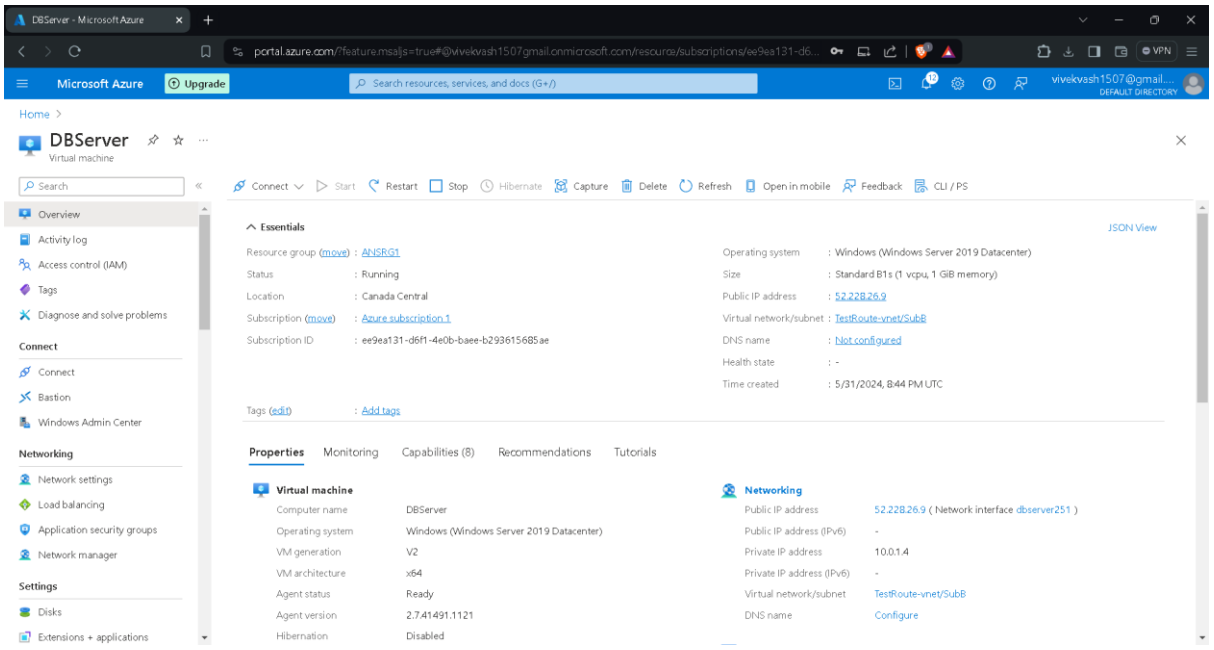
How many IP addresses will be in the new subnet?

Ans: 64



- User defined routes




DBServer - Microsoft Azure
portal.azure.com/?feature.msaljs=true#@vivekvash1507gmail.onmicrosoft.com/resource/subscriptions/ee9ea131-d6...
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
vivekvash1507@gmail....
DEFAULT DIRECTORY
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Start
Restart
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Capture
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Refresh
Open in mobile
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Disks
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JSON View
Resource group (move) : ANSRG1
Status : Running
Location : Canada Central
Subscription (move) : Azure subscription 1
Subscription ID : ee9ea131-d6f1-4e0b-baee-b293615685ae
Operating system : Windows (Windows Server 2019 Datacenter)
Size : Standard B1s (1 vcpu, 1 GiB memory)
Public IP address : 52.228.26.9
Virtual network/subnet : TestRoute-vnet/SubB
DNS name : Not configured
Health state : -
Time created : 5/31/2024, 8:44 PM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (8)
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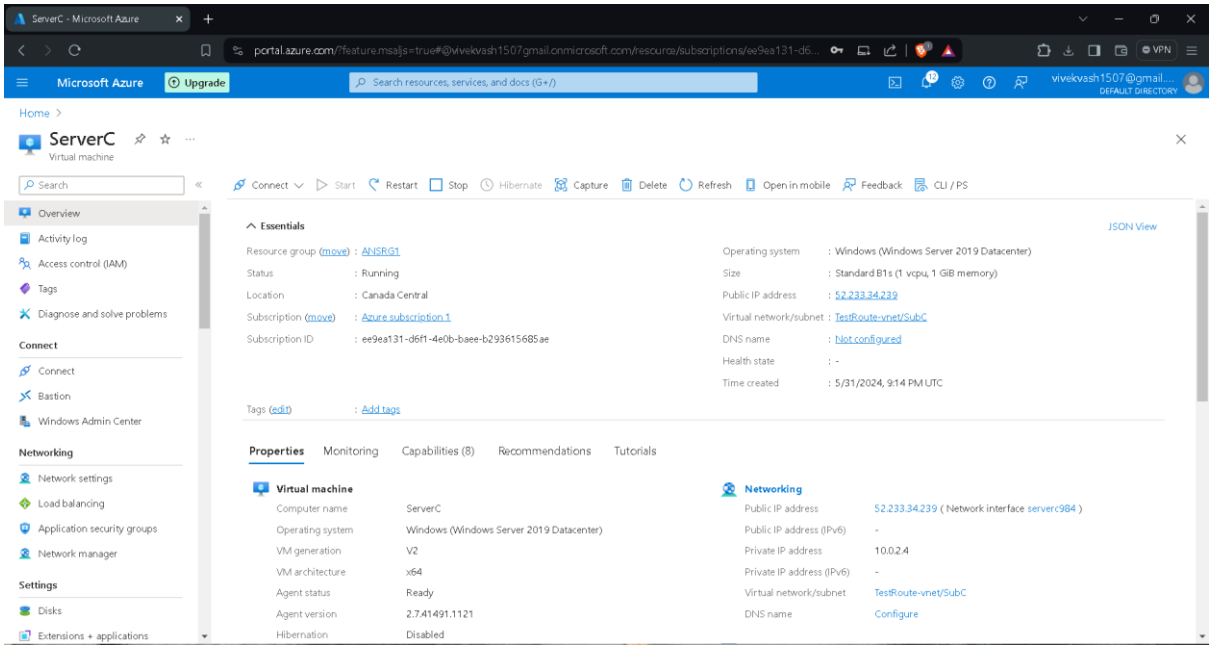
Tutorials
Virtual machine
Computer name DBServer
Operating system Windows (Windows Server 2019 Datacenter)
VM generation V2
VM architecture x64
Agent status Ready
Agent version 2.7.41491.1121
Hibernation Disabled
Networking
Public IP address 52.228.26.9 (Network interface dbserver251)
Public IP address (IPv6) -
Private IP address 10.0.1.4
Private IP address (IPv6) -
Virtual network/subnet TestRoute-vnet/SubB
DNS name Configure


ServerC - Microsoft Azure
portal.azure.com/?feature.msaljs=true#@vivekvash1507gmail.onmicrosoft.com/resource/subscriptions/ee9ea131-d6...
Microsoft Azure
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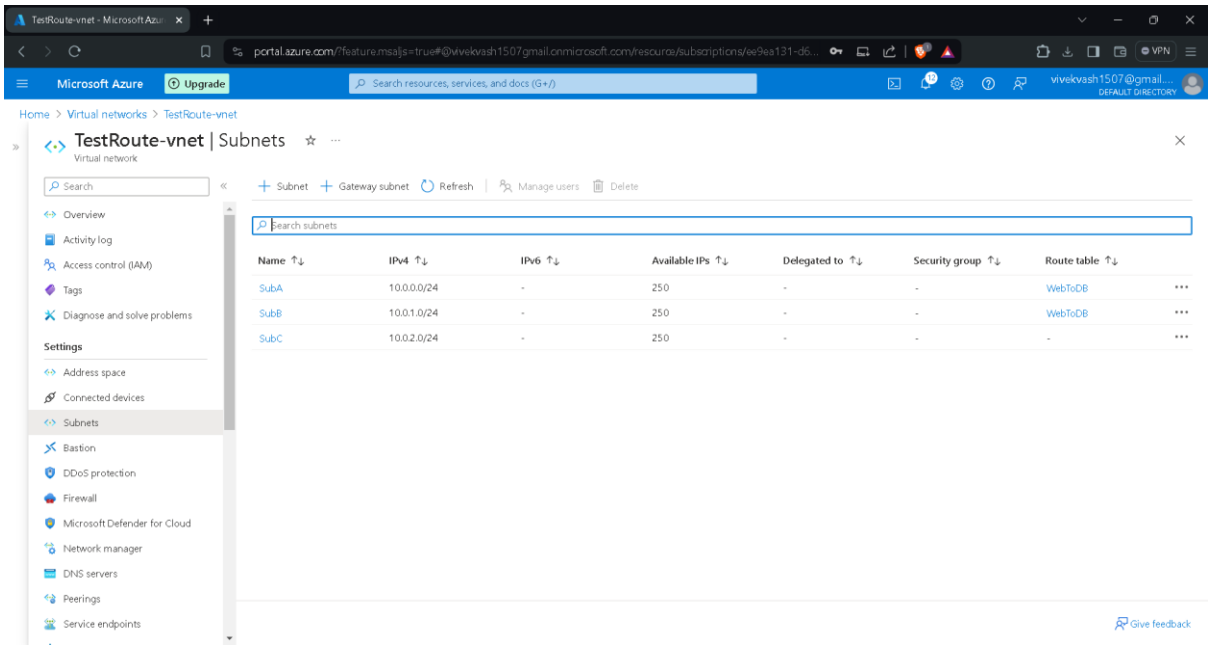
Resource group (move) : ANSRG1
Status : Running
Location : Canada Central
Subscription (move) : Azure subscription 1
Subscription ID : ee9ea131-d6f1-4e0b-baee-b293615685ae
Operating system : Windows (Windows Server 2019 Datacenter)
Size : Standard B1s (1 vcpu, 1 GiB memory)
Public IP address : 52.233.34.239
Virtual network/subnet : TestRoute-vnet/SubC
DNS name : Not configured
Health state : -
Time created : 5/31/2024, 9:14 PM UTC
Tags (edit) : Add tags
Properties
Monitoring
Capabilities (8)
Recommendations
Tutorials
Virtual machine
Computer name ServerC
Operating system Windows (Windows Server 2019 Datacenter)
VM generation V2
VM architecture x64
Agent status Ready
Agent version 2.7.41491.1121
Hibernation Disabled
Networking
Public IP address 52.233.34.239 (Network interface serverc984)
Public IP address (IPv6) -
Private IP address 10.0.2.4
Private IP address (IPv6) -
Virtual network/subnet TestRoute-vnet/SubC
DNS name Configure


TestRoute-vnet - Microsoft Azure
portal.azure.com/?feature.msaljs=true#@vivekvash1507gmail.onmicrosoft.com/resource/subscriptions/ee9ea131-d6...
Microsoft Azure
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DEFAULT DIRECTORY
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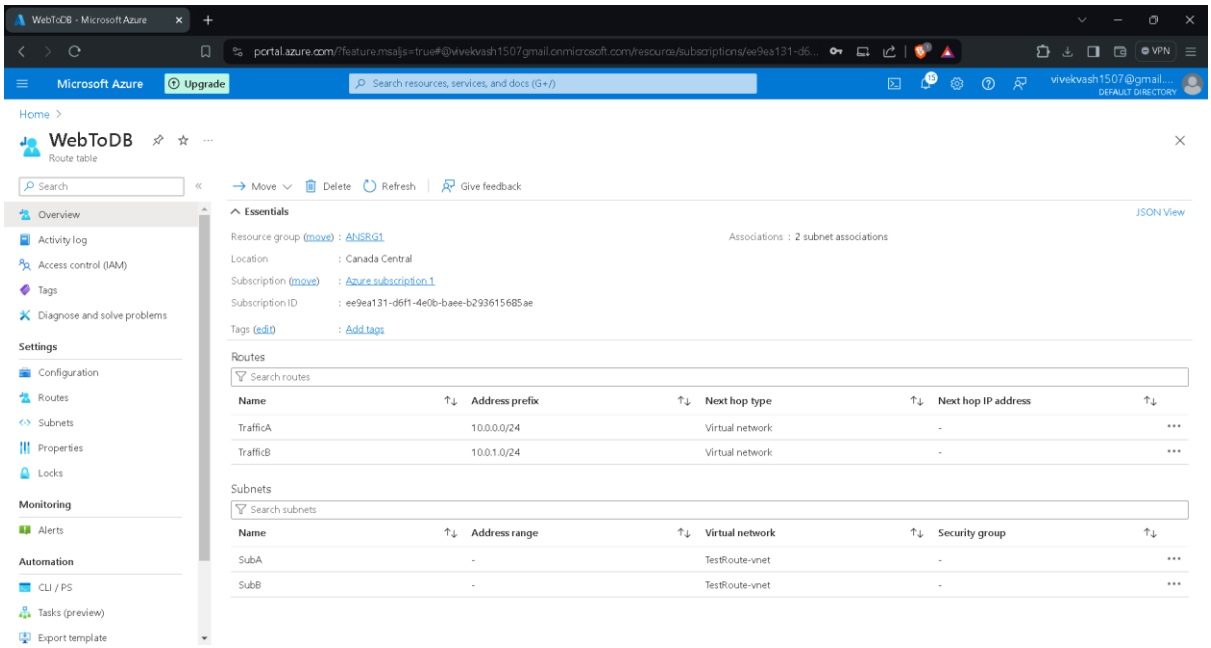
Available IPs
Delegated to
Security group
Route table
SubA 10.0.0.0/24 - 250 - - WebToDB
SubB 10.0.1.0/24 - 250 - - WebToDB
SubC 10.0.2.0/24 - 250 - - -
Give feedback


WebToDB - Microsoft Azure
portal.azure.com/?feature.msaljs=true#@vivekvash1507gmail.onmicrosoft.com/resource/subscriptions/ee9ea131-d6...
Microsoft Azure
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vivekvash1507@gmail....
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Export template
Move
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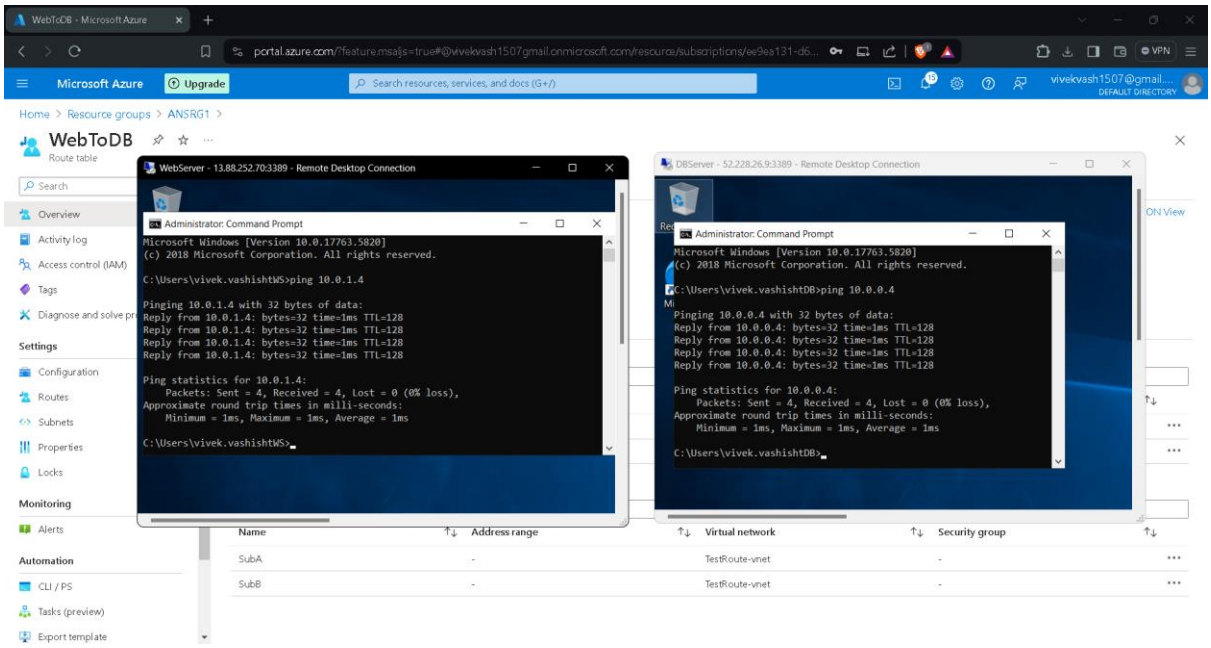
Give feedback
Essentials
JSON View
Resource group (move) : ANSRG1
Location : Canada Central
Subscription (move) : Azure subscription 1
Subscription ID : ee9ea131-d6f1-4e0b-baee-b293615685ae
Tags (edit) : Add tags
Associations : 2 subnet associations
Routes
Search routes
Name
Address prefix
Next hop type
Next hop IP address
TrafficA 10.0.0.0/24 Virtual network -
TrafficB 10.0.1.0/24 Virtual network -
Subnets
Search subnets
Name
Address range
Virtual network
Security group
SubA - TestRoute-vnet -
SubB - TestRoute-vnet -


WebToDB - Microsoft Azure
Microsoft Azure
Upgrade
Home > Resource groups > ANSRG1 >
WebToDB
Route table
WebServer - 13.88.252.70:3389 - Remote Desktop Connection
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.5820]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\vivek.vashishtWS>ping 10.0.1.4
Pinging 10.0.1.4 with 32 bytes of data:
Reply from 10.0.1.4: bytes=32 time=1ms TTL=128
Reply from 10.0.1.4: bytes=32 time=1ms TTL=128
Reply from 10.0.1.4: bytes=32 time=1ms TTL=128
Reply from 10.0.1.4: bytes=32 time=1ms TTL=128
Ping statistics for 10.0.1.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\Users\vivek.vashishtWS>
DBServer - 52.228.26.9:3389 - Remote Desktop Connection
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.5820]
(c) 2018 Microsoft Corporation. All rights reserved.
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Ping statistics for 10.0.0.4:
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C:\Users\vivek.vashishtDB>
Overview
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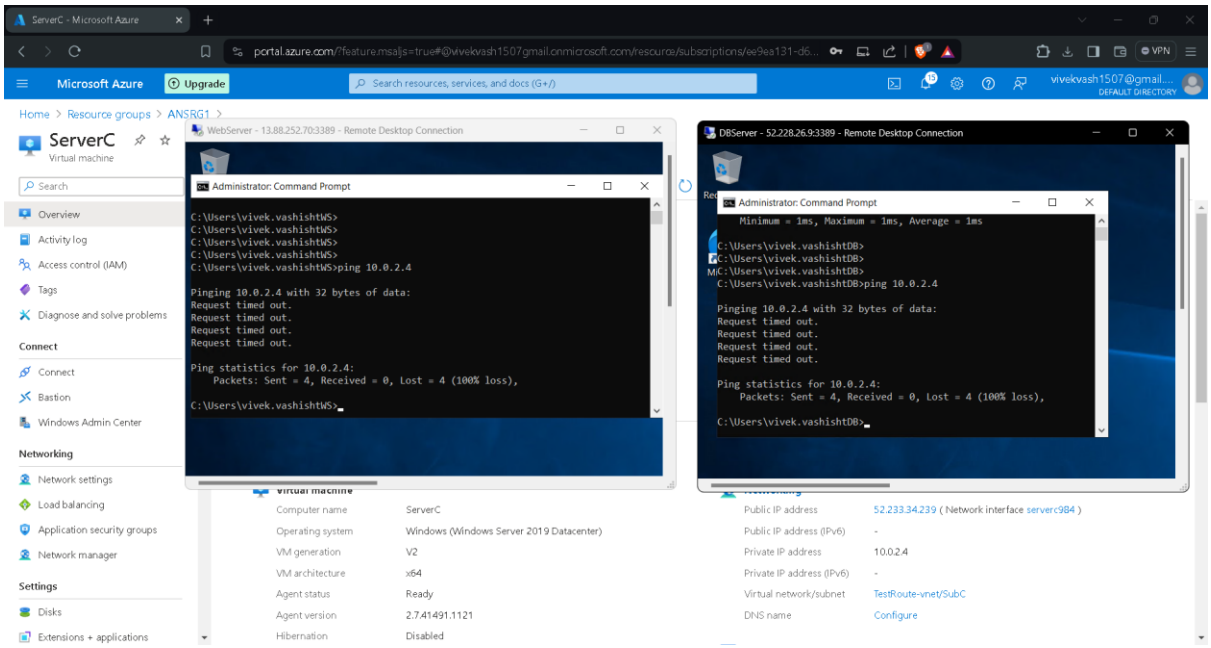
Automation
CLI / PS
Tasks (preview)
Export template
Name
Address range
Virtual network
Security group
SubA
TestRoute-vnet
SubB
TestRoute-vnet


ServerC - Microsoft Azure
Microsoft Azure
Upgrade
Home > Resource groups > ANSRG1 >
ServerC
Virtual machine
WebServer - 13.88.252.70:3389 - Remote Desktop Connection
Administrator: Command Prompt
C:\Users\vivek.vashishtWS>ping 10.0.2.4
Pinging 10.0.2.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.0.2.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Users\vivek.vashishtWS>
DBServer - 52.228.26.9:3389 - Remote Desktop Connection
Administrator: Command Prompt
Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\Users\vivek.vashishtDB>ping 10.0.2.4
Pinging 10.0.2.4 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.0.2.4:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Users\vivek.vashishtDB>
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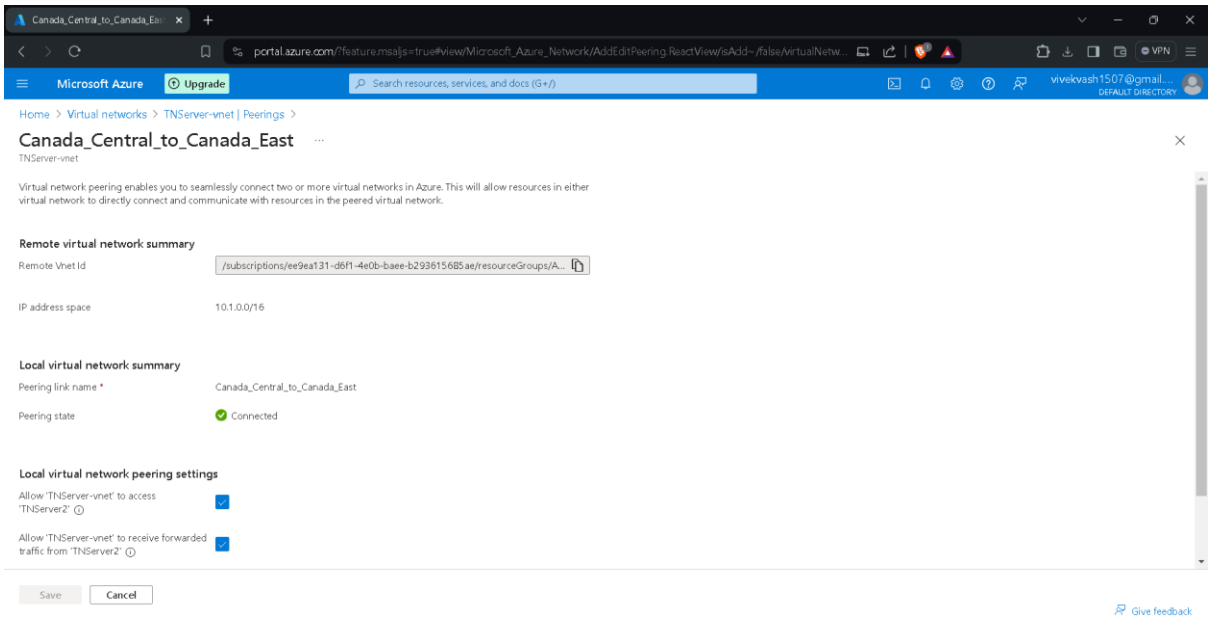
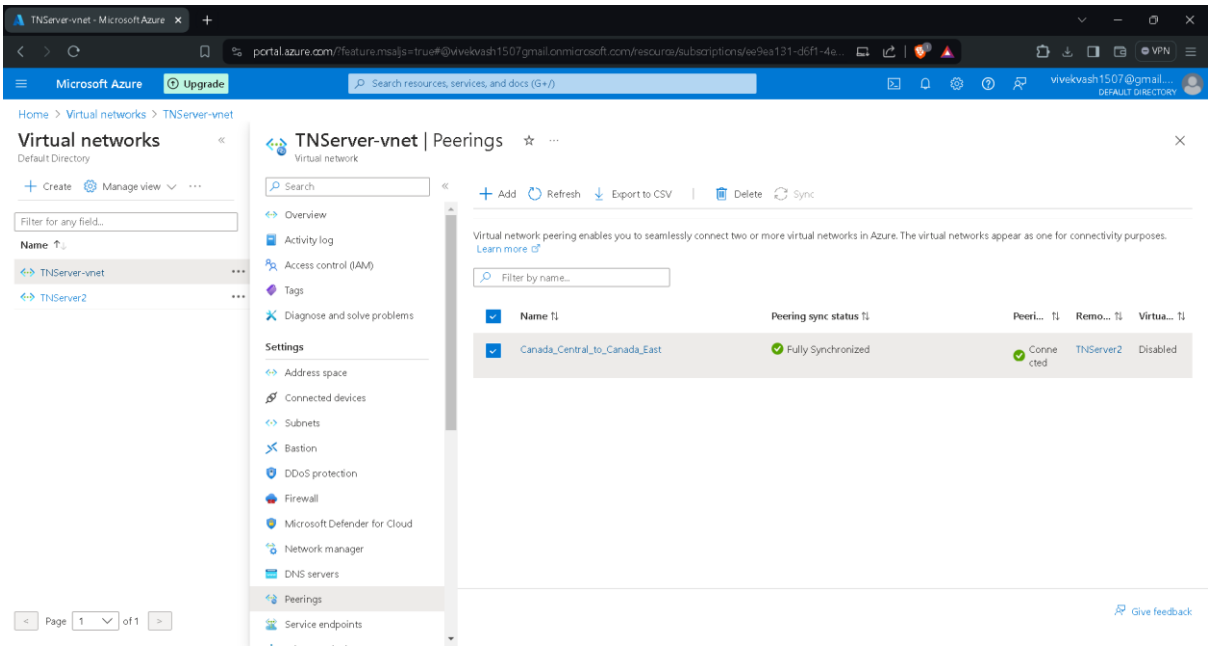
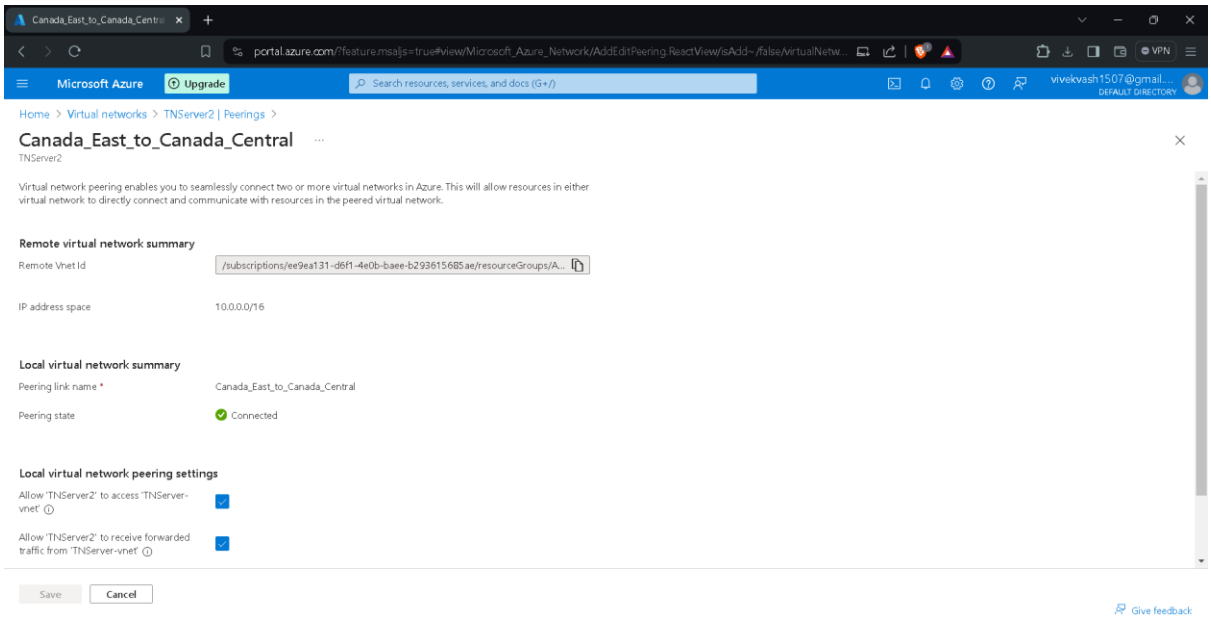
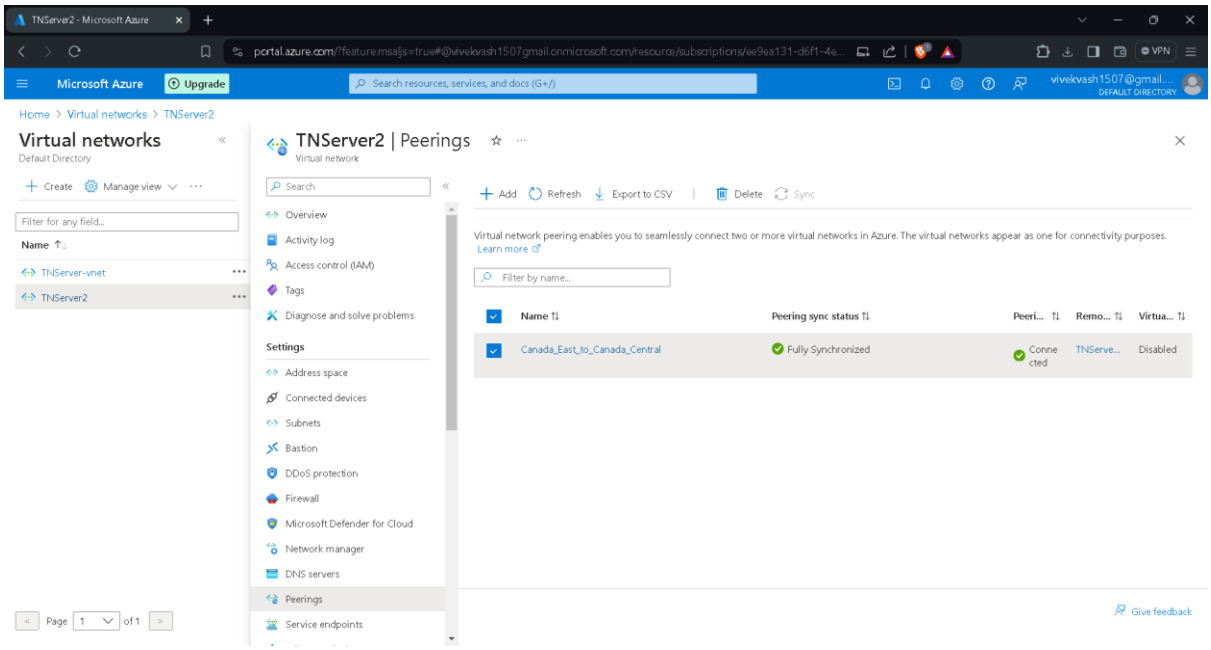
Windows Admin Center
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Disks
Extensions + applications
Computer name
ServerC
Operating system
Windows (Windows Server 2019 Datacenter)
VM generation
V2
VM architecture
x64
Agent status
Ready
Agent version
2.7.41491.1121
Hibernation
Disabled
Public IP address
52.233.34.239 (Network interface servervc984)
Public IP address (IPv6)
-
Private IP address
10.0.2.4
Private IP address (IPv6)
-
Virtual network/subnet
TestRoute-vnet/SubC
DNS name
Configure

- Peered networks






Canada_East_to_Canada_Central
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Home > Virtual networks > TNServer2 | Peerings >
Canada_East_to_Canada_Central
TNServer2
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
Remote Vnet Id
/subscriptions/ee9ea131-d6f1-4e0b-baee-b2936156851ae/resourceGroups/A...
IP address space
10.0.0.0/16
Local virtual network summary
Peering link name *
Canada_East_to_Canada_Central
Peering state
Connected
Local virtual network peering settings
Allow 'TNServer2' to access 'TNServer-vnet'
Allow 'TNServer2' to receive forwarded traffic from 'TNServer-vnet'
Save
Cancel
Give feedback


TNServer2 - Microsoft Azure
Microsoft Azure
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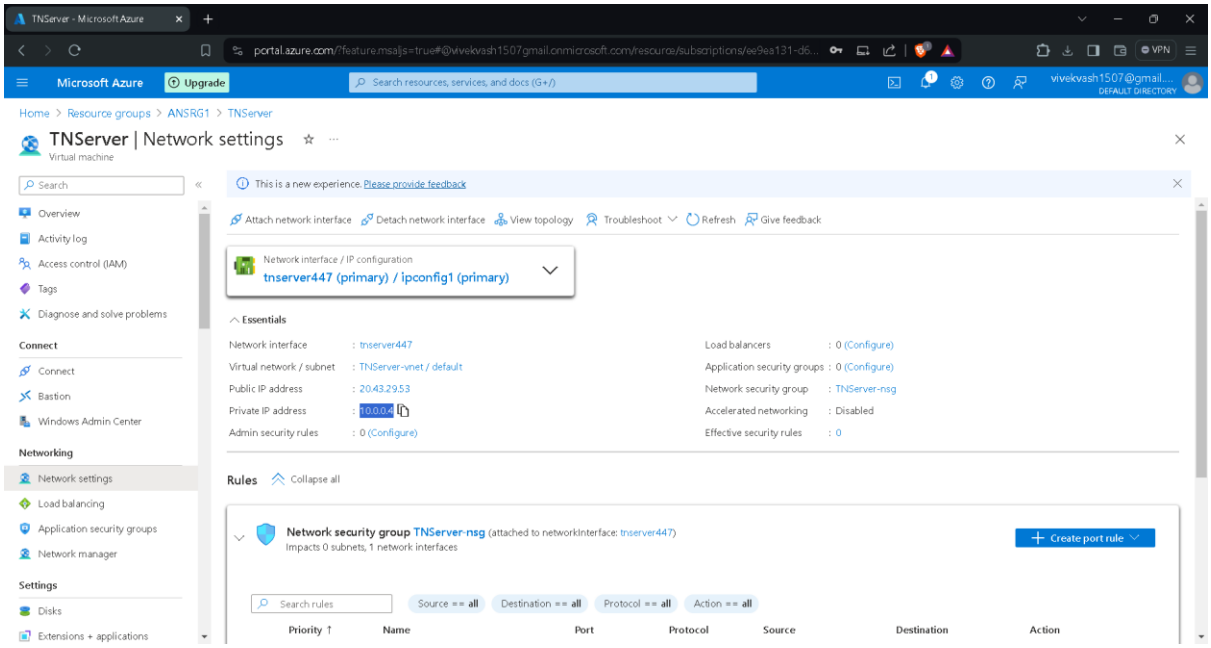
Add
Refresh
Export to CSV
Delete
Sync
Virtual network peering enables you to seamlessly connect two or more virtual networks in Azure. The virtual networks appear as one for connectivity purposes.
Learn more
Filter by name...
Name
Peering sync status
Peeri...
Remo...
Virtua...
Canada_East_to_Canada_Central
Fully Synchronized
Connected
TNServe...
Disabled
Give feedback


TNServer - Microsoft Azure
Microsoft Azure
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Home > Resource groups > ANSRG1 > TNServer
TNServer | Network settings
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Settings
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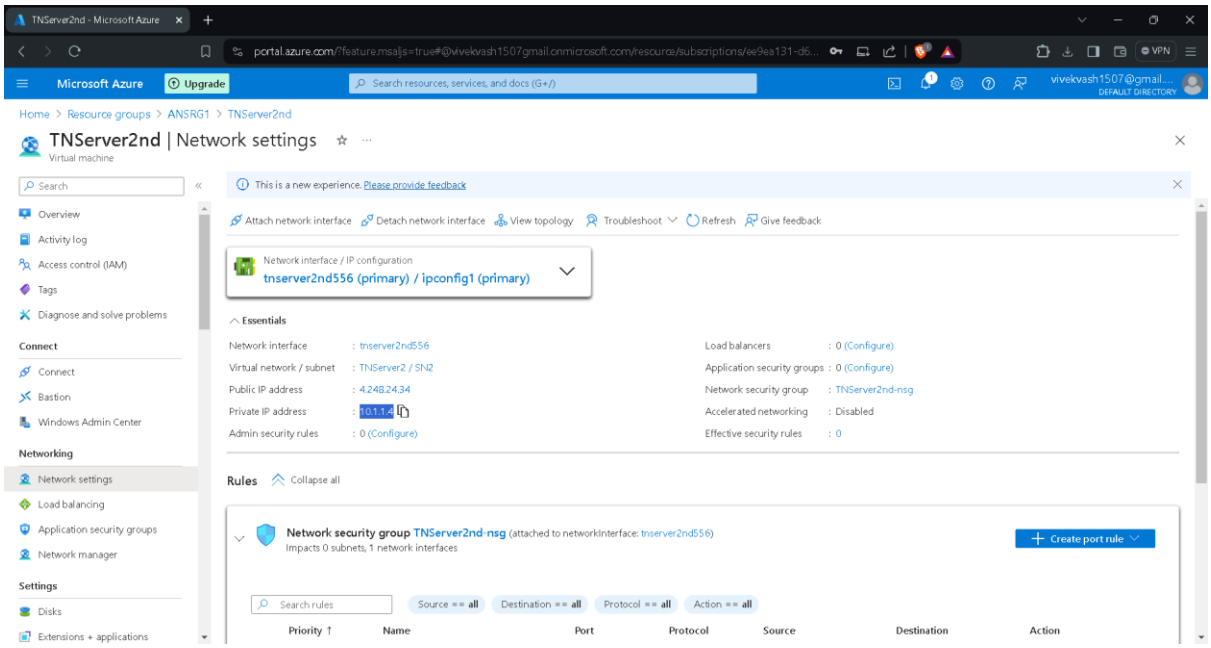
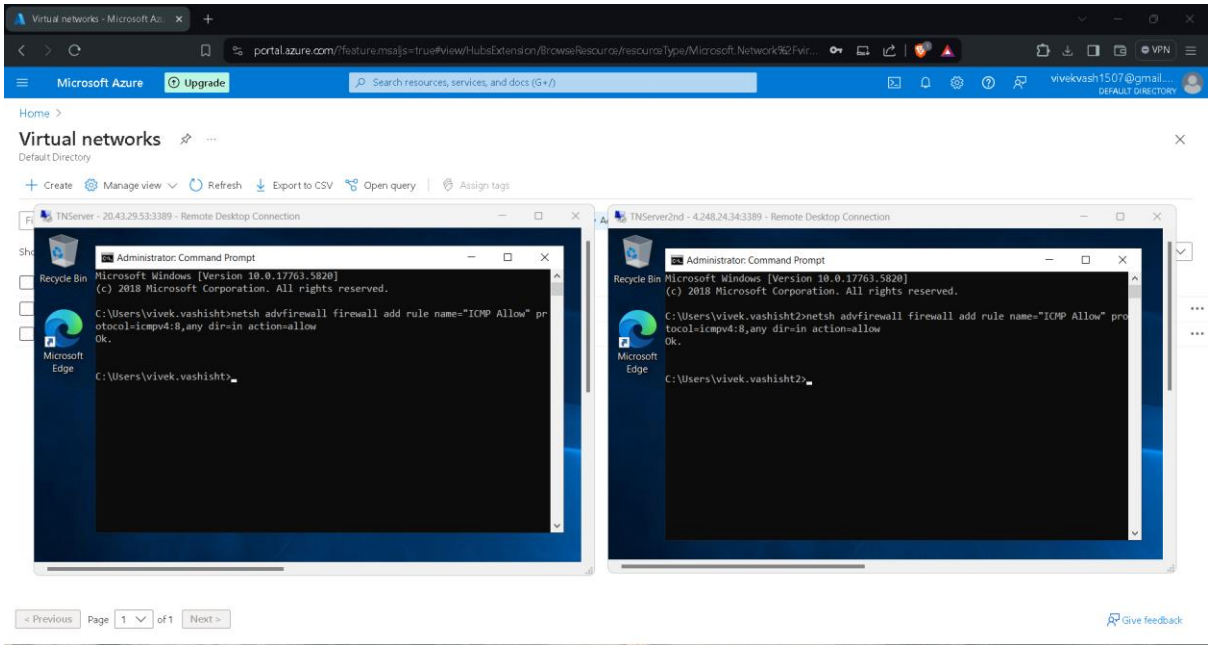
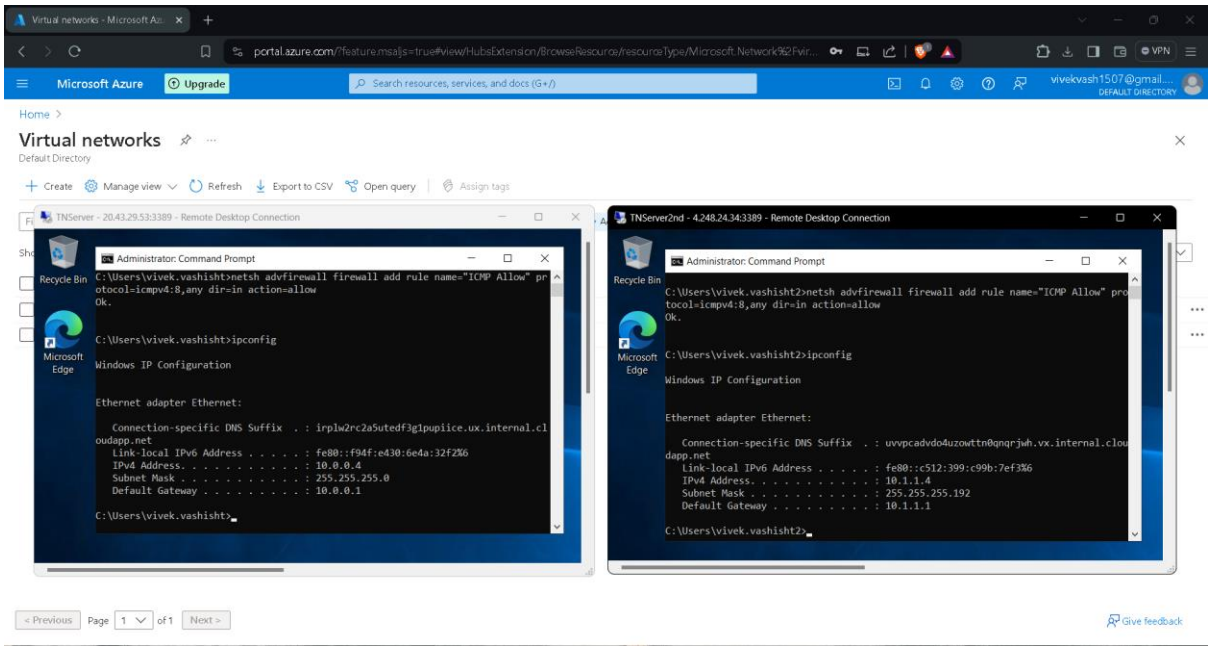
Extensions + applications
Attach network interface
Detach network interface
View topology
Troubleshoot
Refresh
Give feedback
tnserver447 (primary) / ipconfig1 (primary)
Essentials
Network interface : tnserver447
Virtual network / subnet : TNServer-vnet / default
Public IP address : 20.43.29.53
Private IP address : 10.0.0.4
Admin security rules : 0 (Configure)
Load balancers : 0 (Configure)
Application security groups : 0 (Configure)
Network security group : TNServer-nsg
Accelerated networking : Disabled
Effective security rules : 0
Rules
Collapse all
Network security group TNServer-nsg (attached to networkInterface: tnserver447)
Impacts 0 subnets, 1 network interfaces
Create port rule
Search rules
Source == all
Destination == all
Protocol == all
Action == all
Priority
Name
Port
Protocol
Source
Destination
Action


TNServer2nd - Microsoft Azure
Microsoft Azure
Upgrade
Home > Resource groups > ANSRG1 > TNServer2nd
TNServer2nd | Network settings
Virtual machine
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Connect
Connect
Bastion
Windows Admin Center
Networking
Network settings
Load balancing
Application security groups
Network manager
Settings
Disks
Extensions + applications
Attach network interface
Detach network interface
View topology
Troubleshoot
Refresh
Give feedback
tnserver2nd556 (primary) / ipconfig1 (primary)
Essentials
Network interface : tnserver2nd556
Virtual network / subnet : TNServer2 / SN2
Public IP address : 4.248.24.34
Private IP address : 10.1.1.4
Admin security rules : 0 (Configure)
Load balancers : 0 (Configure)
Application security groups : 0 (Configure)
Network security group : TNServer2nd-nsg
Accelerated networking : Disabled
Effective security rules : 0
Rules
Collapse all
Network security group TNServer2nd-nsg (attached to networkInterface: tnserver2nd556)
Impacts 0 subnets, 1 network interfaces
Create port rule
Search rules
Source == all
Destination == all
Protocol == all
Action == all
Priority
Name
Port
Protocol
Source
Destination
Action


Virtual networks - Microsoft Azu
portal.azure.com/?feature.msaljs=true#view/HubsExtension/BrowseResource/resourceType/Microsoft.Network%2Fvir...
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
vivekvash1507@gmail....
DEFAULT DIRECTORY
Home
Virtual networks
Default Directory
Create
Manage view
Refresh
Export to CSV
Open query
Assign tags
TNServer - 20.43.29.53:3389 - Remote Desktop Connection
TNServer2nd - 4.248.24.34:3389 - Remote Desktop Connection
Recycle Bin
Microsoft Edge
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17763.5820]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\vivek.vashisht>netsh advfirewall firewall add rule name="ICMP Allow" protocol=icmpv4:8,any dir=in action=allow
Ok.
C:\Users\vivek.vashisht>
C:\Users\vivek.vashisht2>netsh advfirewall firewall add rule name="ICMP Allow" protocol=icmpv4:8,any dir=in action=allow
Ok.
C:\Users\vivek.vashisht2>
< Previous
Page 1 of 1
Next >
Give feedback


Virtual networks - Microsoft Azu
portal.azure.com/?feature.msaljs=true#view/HubsExtension/BrowseResource/resourceType/Microsoft.Network%2Fvir...
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
vivekvash1507@gmail....
DEFAULT DIRECTORY
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TNServer - 20.43.29.53:3389 - Remote Desktop Connection
TNServer2nd - 4.248.24.34:3389 - Remote Desktop Connection
Recycle Bin
Microsoft Edge
Administrator: Command Prompt
C:\Users\vivek.vashisht>netsh advfirewall firewall add rule name="ICMP Allow" protocol=icmpv4:8,any dir=in action=allow
Ok.
C:\Users\vivek.vashisht>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
Connection-specific DNS Suffix . : irplw2rc2a5utedf3g1pupiice.ux.internal.cloudapp.net
Link-local IPv6 Address . . . . . : fe80::f94f:e430:6e4a:32f2%6
IPv4 Address. . . . . : 10.0.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.0.1
C:\Users\vivek.vashisht>
C:\Users\vivek.vashisht2>netsh advfirewall firewall add rule name="ICMP Allow" protocol=icmpv4:8,any dir=in action=allow
Ok.
C:\Users\vivek.vashisht2>ipconfig
Windows IP Configuration
Ethernet adapter Ethernet:
Connection-specific DNS Suffix . : uvvpcadvdo4uzowttn0qnqrjwh.vx.internal.cloudapp.net
Link-local IPv6 Address . . . . . : fe80::c512:399:c99b:7ef3%6
IPv4 Address. . . . . : 10.1.1.4
Subnet Mask . . . . . : 255.255.255.192
Default Gateway . . . . . : 10.1.1.1
C:\Users\vivek.vashisht2>
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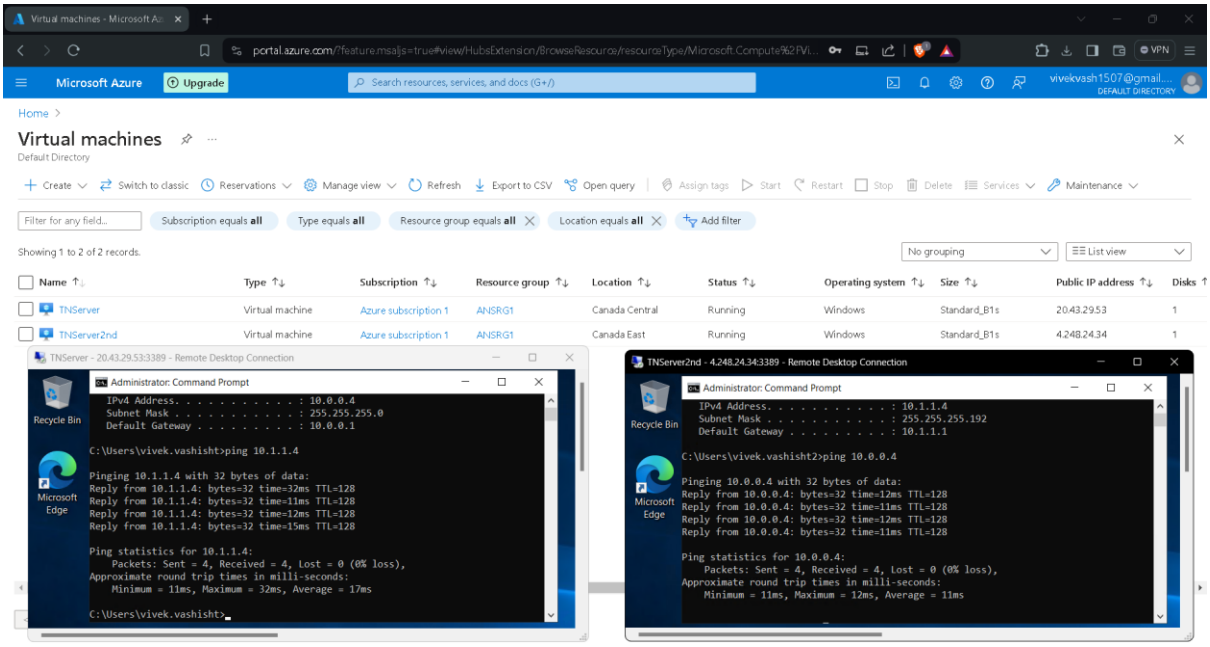
Next >
Give feedback


Virtual machines - Microsoft Azure
portal.azure.com/?feature.msaljs=true#view/HubsExtension/BrowseResource/resourceType/Microsoft.Compute%2Fvi...
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
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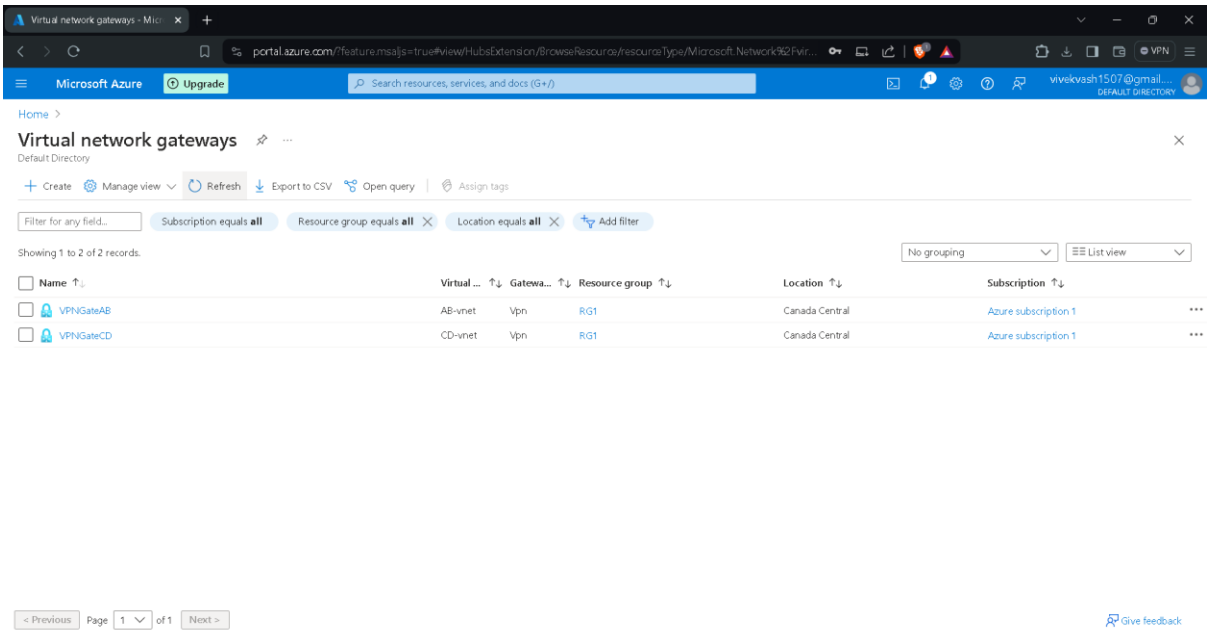
DEFAULT DIRECTORY
Home
Virtual machines
Default Directory
Create
Switch to classic
Reservations
Manage view
Refresh
Export to CSV
Open query
Assign tags
Start
Restart
Stop
Delete
Services
Maintenance
Filter for any field...
Subscription equals all
Type equals all
Resource group equals all
Location equals all
Add filter
Showing 1 to 2 of 2 records.
No grouping
List view
Name
Type
Subscription
Resource group
Location
Status
Operating system
Size
Public IP address
Disks
TNServer
Virtual machine
Azure subscription 1
ANSRG1
Canada Central
Running
Windows
Standard_B1s
20.43.29.53
1
TNServer2nd
Virtual machine
Azure subscription 1
ANSRG1
Canada East
Running
Windows
Standard_B1s
4.248.24.34
1
TNServer - 20.43.29.53:3389 - Remote Desktop Connection
Administrator: Command Prompt
IPv4 Address. . . . . : 10.0.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.0.1
C:\Users\vivek.vashisht>ping 10.1.1.4
Pinging 10.1.1.4 with 32 bytes of data:
Reply from 10.1.1.4: bytes=32 time=32ms TTL=128
Reply from 10.1.1.4: bytes=32 time=11ms TTL=128
Reply from 10.1.1.4: bytes=32 time=12ms TTL=128
Reply from 10.1.1.4: bytes=32 time=15ms TTL=128
Ping statistics for 10.1.1.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 11ms, Maximum = 32ms, Average = 17ms
C:\Users\vivek.vashisht>
TNServer2nd - 4.248.24.34:3389 - Remote Desktop Connection
Administrator: Command Prompt
IPv4 Address. . . . . : 10.1.1.4
Subnet Mask . . . . . : 255.255.255.192
Default Gateway . . . . . : 10.1.1.1
C:\Users\vivek.vashisht2>ping 10.0.0.4
Pinging 10.0.0.4 with 32 bytes of data:
Reply from 10.0.0.4: bytes=32 time=12ms TTL=128
Reply from 10.0.0.4: bytes=32 time=11ms TTL=128
Reply from 10.0.0.4: bytes=32 time=12ms TTL=128
Reply from 10.0.0.4: bytes=32 time=11ms TTL=128
Ping statistics for 10.0.0.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 11ms, Maximum = 12ms, Average = 11ms
Recycle Bin
Microsoft Edge

- VPN gateway


Virtual network gateways - Micr
portal.azure.com/?feature.msaljs=true#view/HubsExtension/BrowseResource/resourceType/Microsoft.Network%2Fvir...
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
vivekvash1507@gmail....
DEFAULT DIRECTORY
Home
Virtual network gateways
Default Directory
Create
Manage view
Refresh
Export to CSV
Open query
Assign tags
Filter for any field...
Subscription equals all
Resource group equals all
Location equals all
Add filter
Showing 1 to 2 of 2 records.
No grouping
List view
Name
Virtual ...
Gatewa...
Resource group
Location
Subscription
VPNGateAB
AB-vnet
Vpn
RG1
Canada Central
Azure subscription 1
VPNGateCD
CD-vnet
Vpn
RG1
Canada Central
Azure subscription 1
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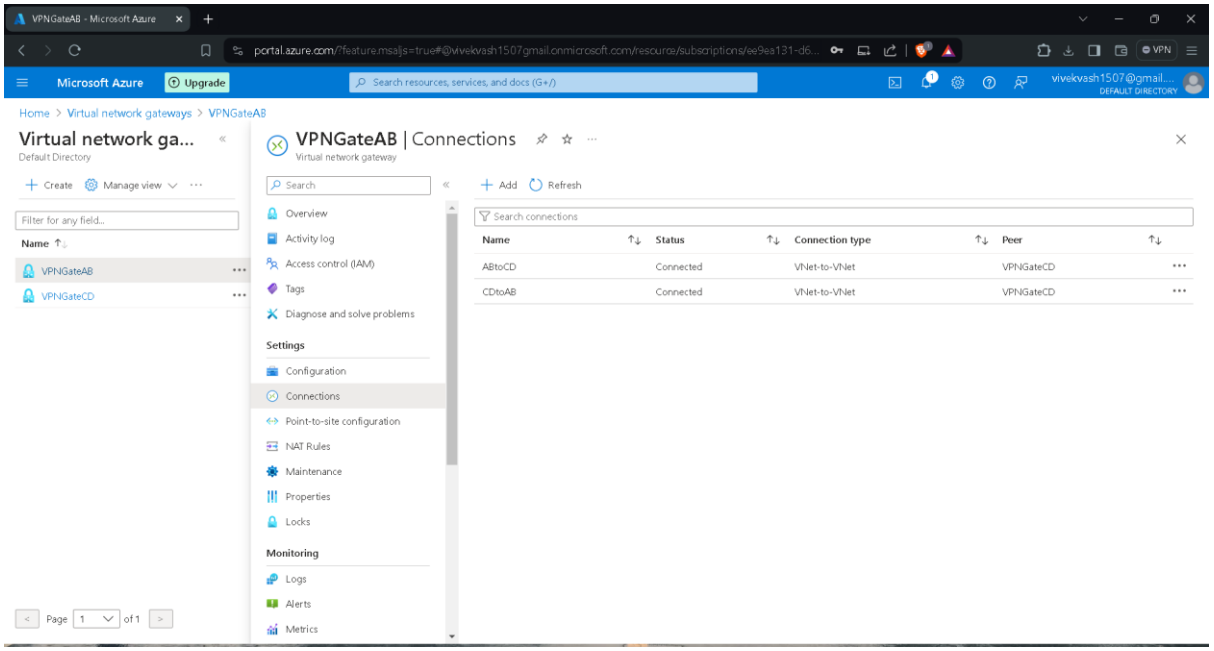
Give feedback


VPNGateAB - Microsoft Azure
Microsoft Azure
Upgrade
Home > Virtual network gateways > VPNGateAB
Virtual network ga...
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VPNGateAB | Connections
Virtual network gateway
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Monitoring
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Alerts
Metrics
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Refresh
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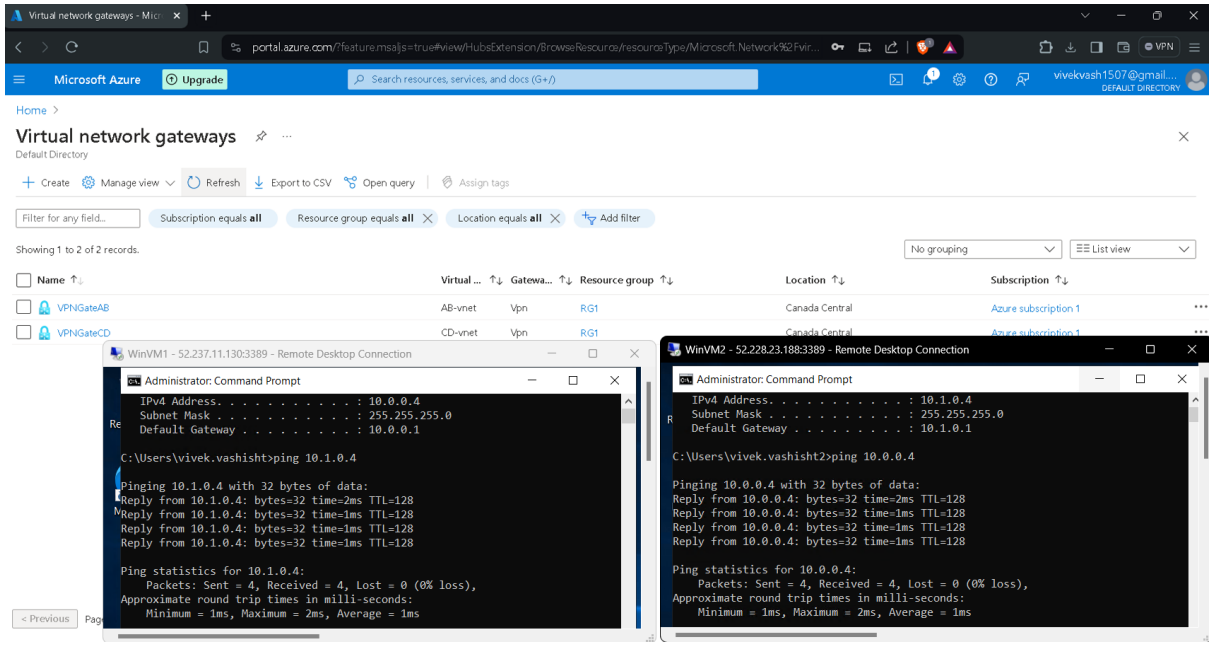
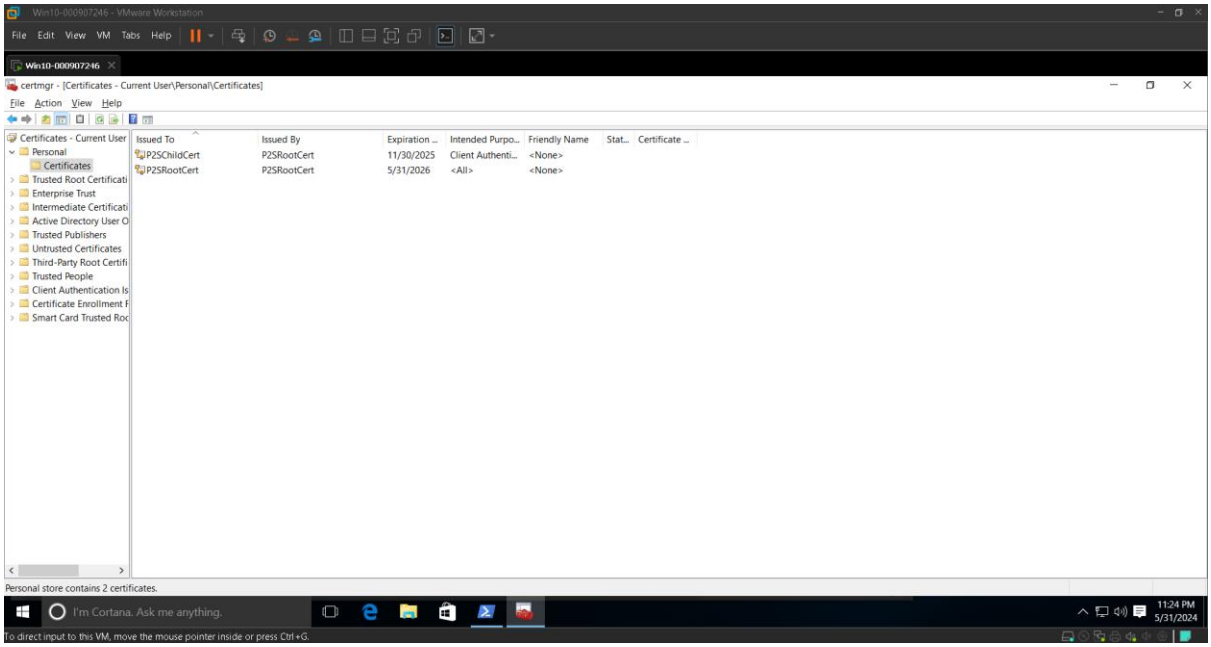
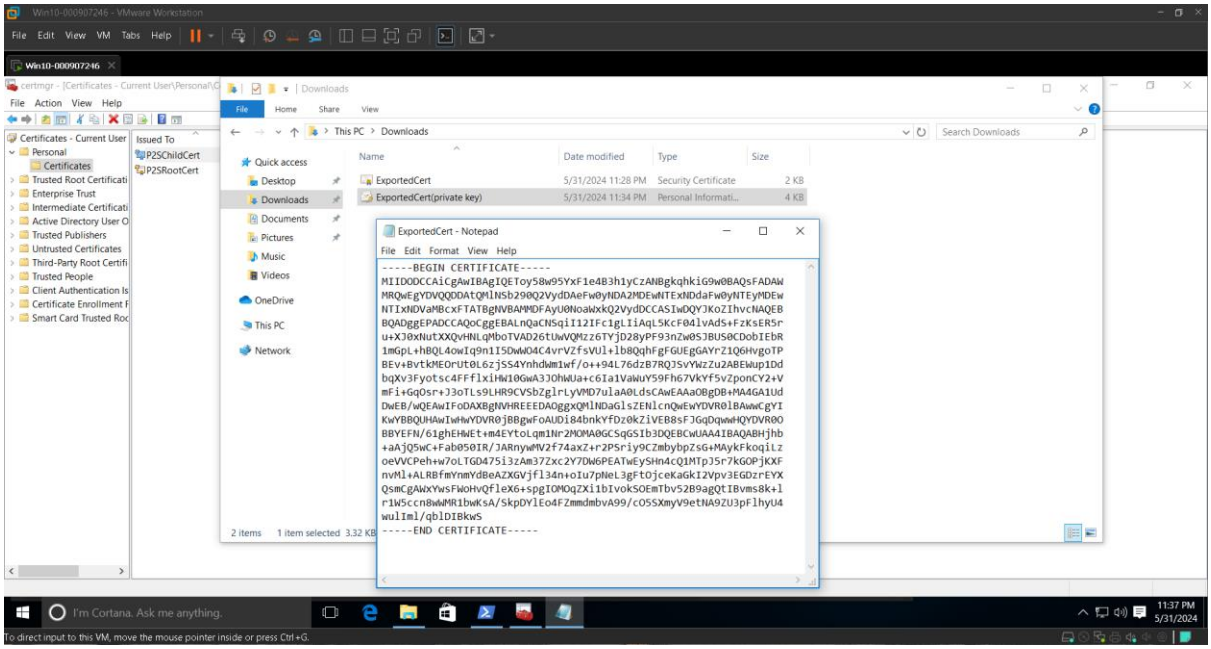
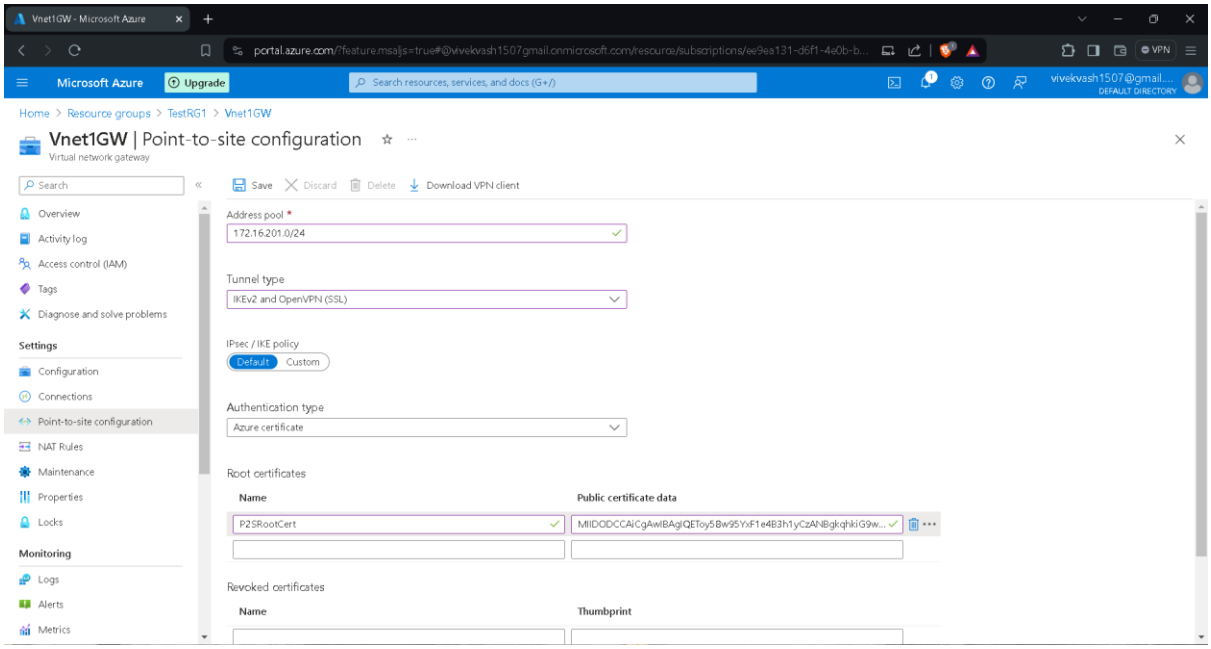
Status
Connection type
Peer
ABtoCD
Connected
VNet-to-VNet
VPNGateCD
CDtoAB
Connected
VNet-to-VNet
VPNGateAB

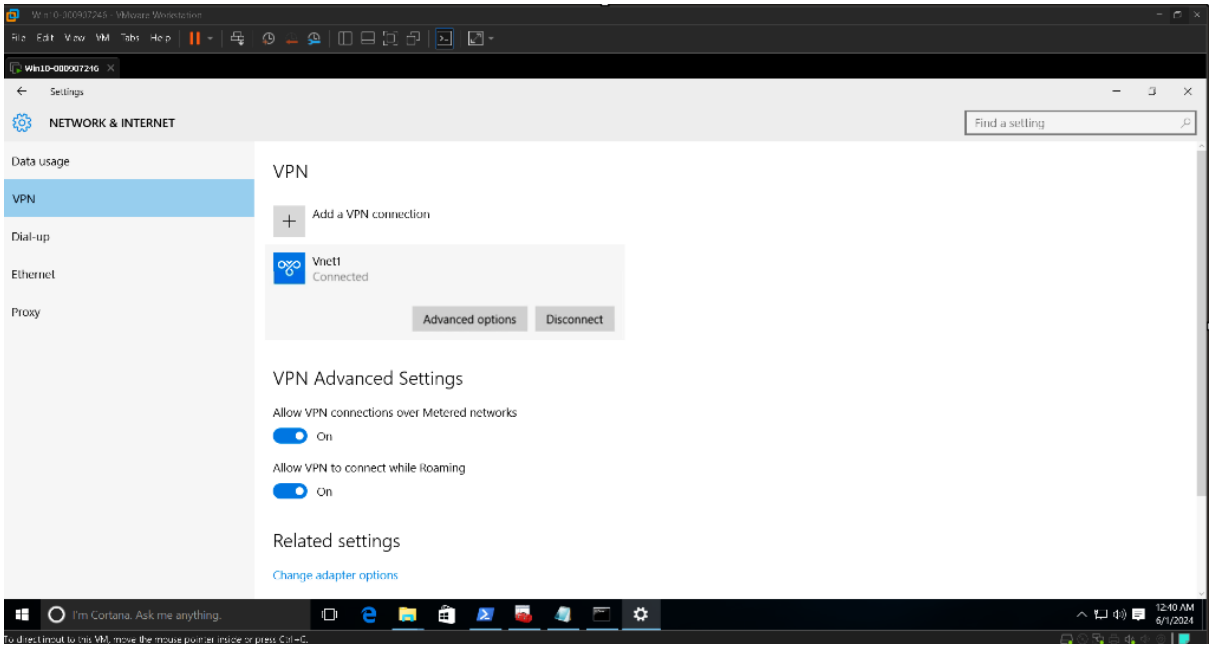

Microsoft Azure
Upgrade
Home
Virtual network gateways
Default Directory
Create
Manage view
Refresh
Export to CSV
Open query
Assign tags
Subscription equals all
Resource group equals all
Location equals all
Add filter
Showing 1 to 2 of 2 records.
Name
Virtual ...
Gatewa...
Resource group
Location
Subscription
VPNGateAB
AB-vnet
Vpn
RG1
Canada Central
Azure subscription 1
VPNGateCD
CD-vnet
Vpn
RG1
WinVM1 - 52.237.11.130:3389 - Remote Desktop Connection
Administrator: Command Prompt
IPv4 Address. . . . . : 10.0.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.0.1
C:\Users\vivek.vashisht>ping 10.1.0.4
Pinging 10.1.0.4 with 32 bytes of data:
Reply from 10.1.0.4: bytes=32 time=2ms TTL=128
Reply from 10.1.0.4: bytes=32 time=1ms TTL=128
Reply from 10.1.0.4: bytes=32 time=1ms TTL=128
Reply from 10.1.0.4: bytes=32 time=1ms TTL=128
Ping statistics for 10.1.0.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 2ms, Average = 1ms
WinVM2 - 52.228.23.188:3389 - Remote Desktop Connection
Administrator: Command Prompt
IPv4 Address. . . . . : 10.1.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.1.0.1
C:\Users\vivek.vashisht2>ping 10.0.0.4
Pinging 10.0.0.4 with 32 bytes of data:
Reply from 10.0.0.4: bytes=32 time=2ms TTL=128
Reply from 10.0.0.4: bytes=32 time=1ms TTL=128
Reply from 10.0.0.4: bytes=32 time=1ms TTL=128
Reply from 10.0.0.4: bytes=32 time=1ms TTL=128
Ping statistics for 10.0.0.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 2ms, Average = 1ms

- Point-to-site configuration and ping and the whole Procedure






Vnet1GW - Microsoft Azure
Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Home > Resource groups > TestRG1 > Vnet1GW
Vnet1GW | Point-to-site configuration
Virtual network gateway
Search
Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Settings
Configuration
Connections
Point-to-site configuration
NAT Rules
Maintenance
Properties
Locks
Monitoring
Logs
Alerts
Metrics
Save
Discard
Delete
Download VPN client
Address pool *
172.16.201.0/24
Tunnel type
IKEv2 and OpenVPN (SSL)
IPsec / IKE policy
Default
Custom
Authentication type
Azure certificate
Root certificates
Name
Public certificate data
P2SRootCert
Revoked certificates
Name
Thumbprint


Settings
NETWORK & INTERNET
Find a setting
Data usage
VPN
Dial-up
Ethernet
Proxy
VPN
Add a VPN connection
Vnet1
Connected
Advanced options
Disconnect
VPN Advanced Settings
Allow VPN connections over Metered networks
On
Allow VPN to connect while Roaming
On
Related settings
Change adapter options
I'm Cortana. Ask me anything.
12:10 AM
6/1/2024