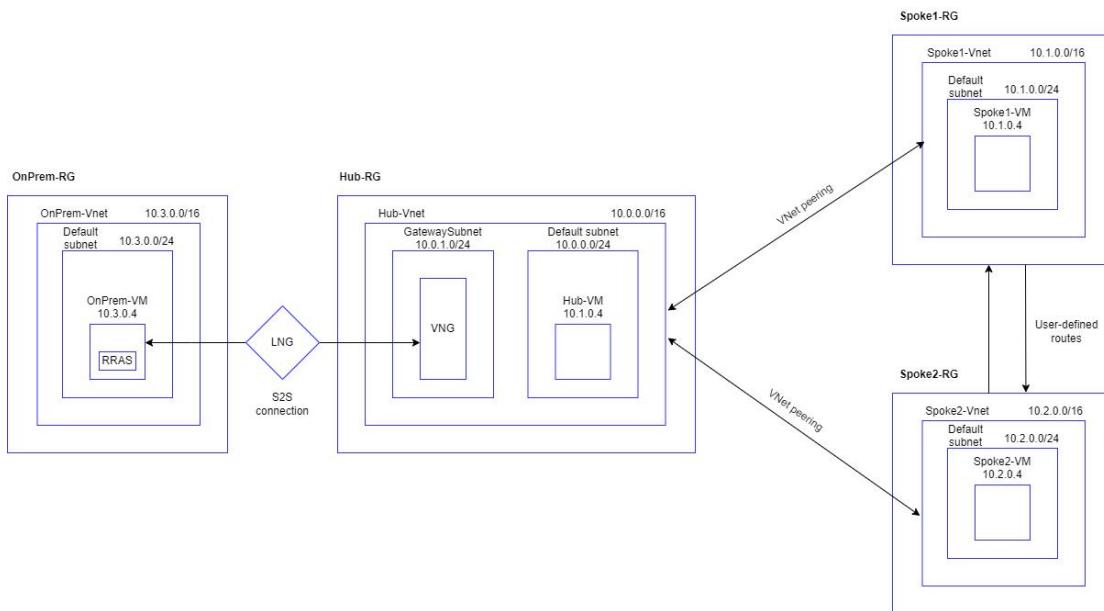


HYBRID CLOUD NETWORK IN AZURE

- by Ritwika De

PROJECT DESCRIPTION

Configuration of On-premises to Hub and Spoke connectivity using S2S tunneling from On-premises and hub and Transit Vnet peering from hub to spoke. Configure RRAS on on-premises VM and establish S2S connectivity to the Hub. The On-premises VM should be able to ping both Hub VM and Spoke VM successfully. The connectivity should be bi-directional. There is no direct connectivity established between spoke and On-premises Vnet.



In this project we will do the following -

- ✓ Create a hub and spoke connection
- ✓ Establish Site-2-Site connectivity between the hub and on-prem
- ✓ Configure on-prem and spoke connection

Create a hub and spoke connection

Step 1: Create and deploy 3 vms - hub-vm, spoke1-vm and spoke2-vm

Hub-vm

Ritwika-hub-vm

Virtual machine

Overview

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

Settings

Networking, Connect, Windows Admin Center, Disks, Size, Microsoft Defender for Cloud

Essentials

- Resource group ([move](#)) **HUB**
- Status: Stopped (deallocated)
- Location: Central India
- Subscription ([move](#)) **Azure for Students**
- Subscription ID: b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0
- Tags ([edit](#)) [Click here to add tags](#)

Operating system: Windows
Size: Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address:
Virtual network/subnet: **hub-vnet/default**
DNS name:
Health state:

Spoke1-vm

Ritwika-spoke1-vm

Virtual machine

Overview

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

Settings

Networking, Connect, Windows Admin Center, Disks, Size

Essentials

- Resource group ([move](#)) **Spoke1**
- Status: Stopped (deallocated)
- Location: Central India
- Subscription ([move](#)) **Azure for Students**
- Subscription ID: b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0
- Tags ([edit](#)) [Click here to add tags](#)

Operating system: Windows
Size: Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address:
Virtual network/subnet: **spoke1-vnet/default**
DNS name: **Not configured**
Health state:

Spoke2-vm

Ritwika-spoke2-vm

Virtual machine

Overview

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

Settings

Networking, Connect, Windows Admin Center, Disks, Size, Microsoft Defender for Cloud

Essentials

- Resource group ([move](#)) **Spoke2**
- Status: Stopped (deallocated)
- Location: Central India
- Subscription ([move](#)) **Azure for Students**
- Subscription ID: b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0
- Tags ([edit](#)) [Click here to add tags](#)

Operating system: Windows
Size: Standard DS1 v2 (1 vcpu, 3.5 GiB memory)
Public IP address: **20.204.43.171**
Virtual network/subnet: **spoke2-vnet/default**
DNS name: **Not configured**
Health state:

Step 2: After that we will establish VNet peering by clicking in the hub-vnet then click select Peerings from the side bar, then click on Add.

Step 3: Create a hub-spoke1 peering and fill the details-

Step 4: Create a hub-spoke2 peering and fill the details-

The screenshot shows the 'Add peering' dialog in the Microsoft Azure portal. The 'Peering link name' field is set to 'hub-spoke2'. Under 'Traffic to remote virtual network', 'Allow (default)' is selected. Under 'Traffic forwarded from remote virtual network', 'Allow (default)' is selected. Under 'Virtual network gateway or Route Server', 'None (default)' is selected. Under 'Remote virtual network', the 'Peering link name' is set to 'spoke2-hub'. Under 'Virtual network deployment model', 'Resource manager' is selected. At the bottom is a blue 'Add' button.

Step 5: Create a route table with the following details-

The screenshot shows the 'Create Route table' dialog in the Microsoft Azure portal. The 'Basics' tab is selected. In the 'Project details' section, the 'Subscription' dropdown is set to 'Azure for Students' and the 'Resource group' dropdown is set to 'Ritwika-spoke1-rg'. In the 'Instance details' section, the 'Region' dropdown is set to 'Central India' and the 'Name' field is set to 'spoke-2-spoke'. The 'Propagate gateway routes' option has 'Yes' selected. At the bottom are 'Previous', 'Next', and 'Review + create' buttons.

RITWIKA DE

Step 6: Click on routes then add a route for spoke1-spoke2 with the given details

Add route
spoke-2-spoke

A user-defined route (UDR) is a static route that overrides Azure's default system routes, or adds a route to a subnet's route table. Learn more [? id](#)

Route name *
spoke1-spoke2

Destination type *
IP Addresses

Destination IP addresses/CIDR ranges *
10.2.0.0/24

Next hop type *
Virtual appliance

Next hop address *
10.0.0.4

Ensure you have IP forwarding enabled on your virtual appliance. You can enable this by navigating to the respective network interface's IP address settings.

Add

Step 7: Click on Subnets then associate the spoke1 vnet

Associate subnet
spoke-2-spoke

Virtual network *
Ritwika-spoke1-vm-vnet (Ritwika-spoke1-rg)

Subnet *
default

OK

Step 8: Click on Add again to create a route for spoke2-spoke1

Add route
spoke-2-spoke

A user-defined route (UDR) is a static route that overrides Azure's default system routes, or adds a route to a subnet's route table. Learn more [? id](#)

Route name *
spoke2-spoke1

Destination type *
IP Addresses

Destination IP addresses/CIDR ranges *
10.1.0.0/24

Next hop type *
Virtual appliance

Next hop address *
10.0.0.4

Ensure you have IP forwarding enabled on your virtual appliance. You can enable this by navigating to the respective network interface's IP address settings.

Add

RITWIKA DE

Step 9: Click on Subnets then associate the spoke2 vnet

The screenshot shows the Microsoft Azure portal interface. The left sidebar has 'spoke-2-spoke' selected under 'Route table'. The main area shows a table of subnets with one row for 'default' (Address range: 10.1.0.0/24, Virtual network: Ritwika-spoke1). A modal dialog titled 'Associate subnet' is open, prompting to select a 'Virtual network' (Ritwika-spoke2-vm-vnet) and a 'Subnet' (default). The 'OK' button is visible at the bottom right of the dialog.

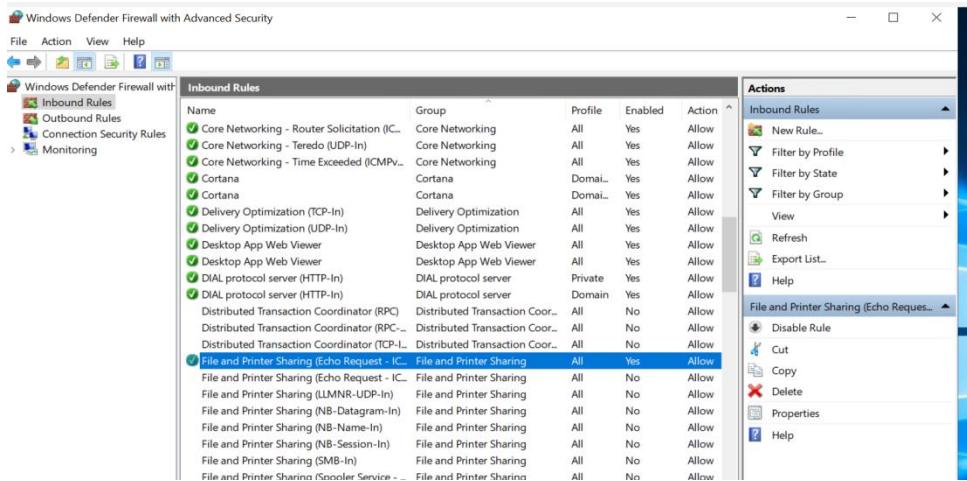
Step 10: Go back to the hub-vm then click on Networking. Now click on ritwika-hub-vm205 beside the Network interface.

The screenshot shows the Microsoft Azure portal interface for a virtual machine named 'Ritwika-hub-vm'. The left sidebar has 'Networking' selected. The main area shows the 'Network Interface: ritwika-hub-vm205' settings. It lists an IP configuration (ipconfig1) and several inbound port rules. An 'Add inbound port rule' button is visible. The 'Priority' column in the port rules table includes values 300, 65000, 65001, and 65500.

Step 11: Go to IP configurations and enable IP forwarding

The screenshot shows the Microsoft Azure portal interface for the IP configurations of 'ritwika-hub-vm205'. The left sidebar has 'IP configurations' selected. The main area shows the 'IP Settings' section where 'Enable IP forwarding' is checked. It also shows the 'Virtual network' (Ritwika-hub-vm-vnet), 'Gateway load balancer' (None), and 'Subnet' (default (10.0.0.0/24) 250 free IP addresses). Below this, a note about private and public IP address limits is shown. At the bottom, there's a table of IP configurations with one entry for 'ipconfig1' (IPv4, Primary, Private IP Address: 10.0.0.4 (Dynamic), Public IP Address: 20.197.62.51 (Ritwika-hub-vm-ip)).

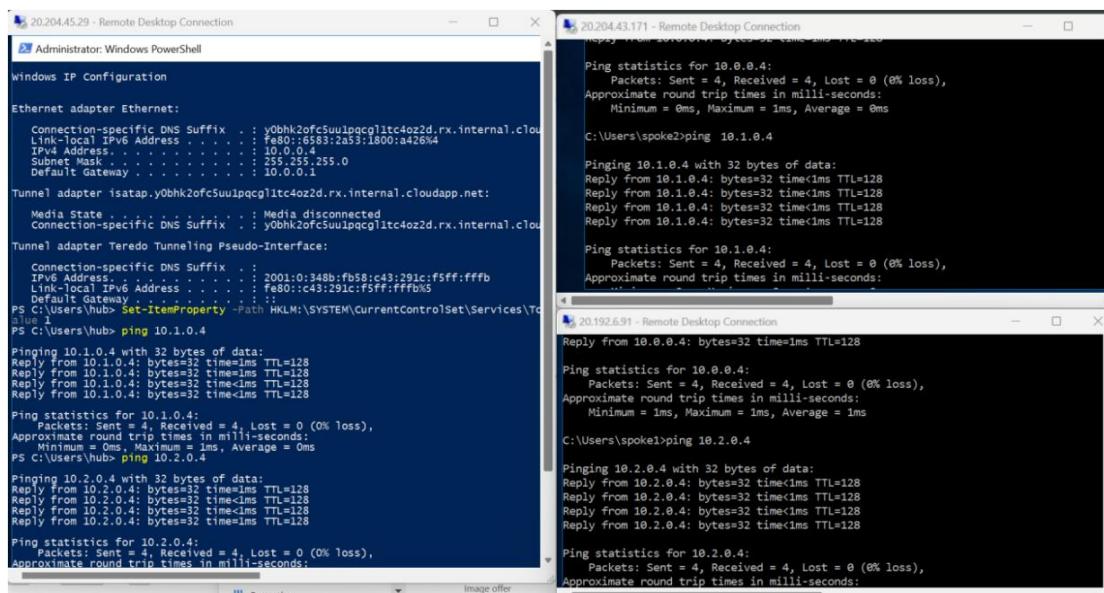
Step 12: Open all the VMs and enable ICMP4



Step 13: Run the following command in the PowerShell of the hub :

```
Set-ItemProperty -Path HKLM:\SYSTEM\CurrentControlSet\Services\Tcpip
\Parameters -Name IpEnableRouter -Value 1
```

Now check ping connection in all the vms for hub-spoke1, hub-spoke2, spoke1-spoke2 and vice versa.



Establish Site-2-Site connectivity between the hub and on-prem

Step 14: First create an on-prem vm with a different region

Ritwika-onprem-vm

Virtual machine

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Connect

Windows Admin Center

Disk

Size

Microsoft Defender for Cloud

Resource group (move) ONPREM

Status: Stopped (deallocated)

Location: South India

Subscription (move) Azure for Students

Subscription ID: b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0

Operating system: Windows

Size: Standard DS1 v2 (1 vcpu, 3.5 GiB memory)

Public IP address: 20.219.118.163

Virtual network/subnet: Ritwika-onprem-vm-vnet/default

DNS name: Not configured

Health state:

Tags (edit) Click here to add tags

Step 14: Add a gateway subnet in the hub-vnet

hub-vnet | Subnets

Virtual network

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Address space

Connected devices

Subnets

Bastion

+ Subnet + Gateway subnet Refresh Manage users Delete

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
default	10.0.0.0/24	-	250	-	-	-
GatewaySubnet	10.0.1.0/24	-	availability dependent ...	-	-	-

Step 15: Create a Virtual Network Gateway (VNG) inside hub by dissociating IP address of spoke2 and attaching it to the VNG

hub-vng

Virtual network gateway

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Configuration

Connections

Point-to-site configuration

Properties

Refresh Move Delete

Resource group (move) Hub

Location: Central India

Subscription (move) Azure for Students

Subscription ID: b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0

SKU: VpnGw1

Gateway type: VPN

VPN type: Route-based

Virtual network: hub-vnet/GatewaySubnet

Public IP address: 20.204.43.171 (Ritwika-spoke2-vm-ip)

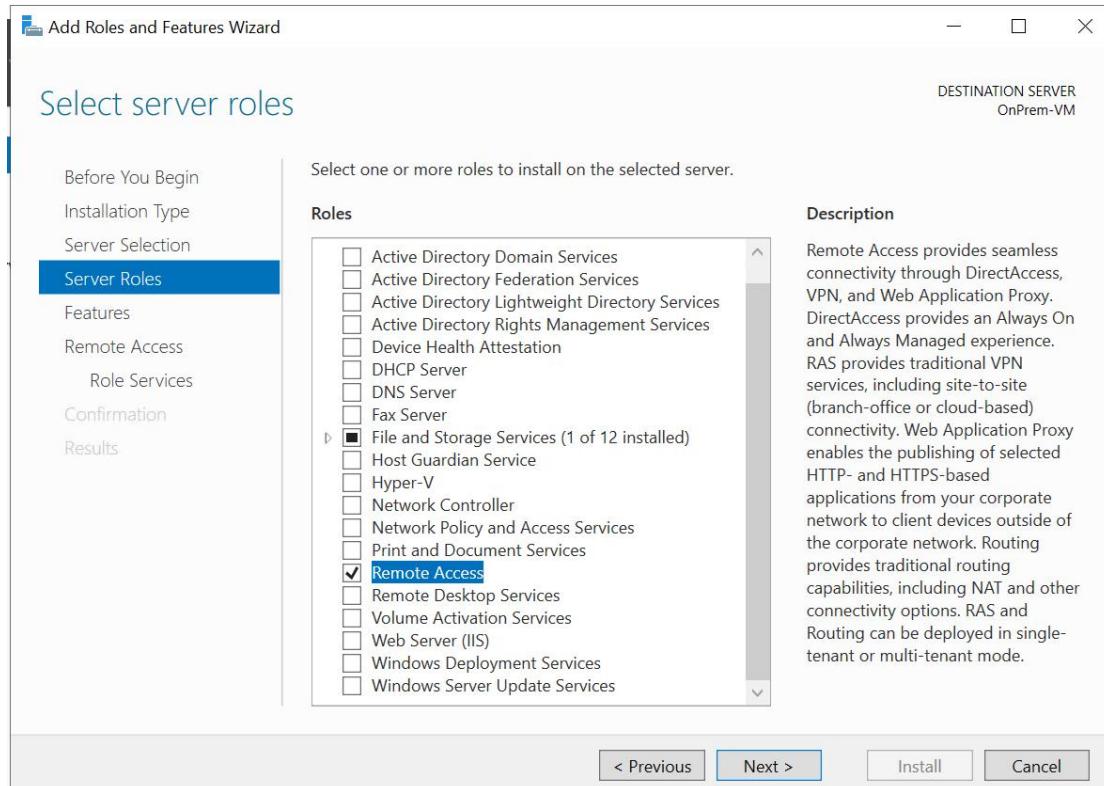
Tags (edit) Click here to add tags

Step 16: Add a connection inside the VNG

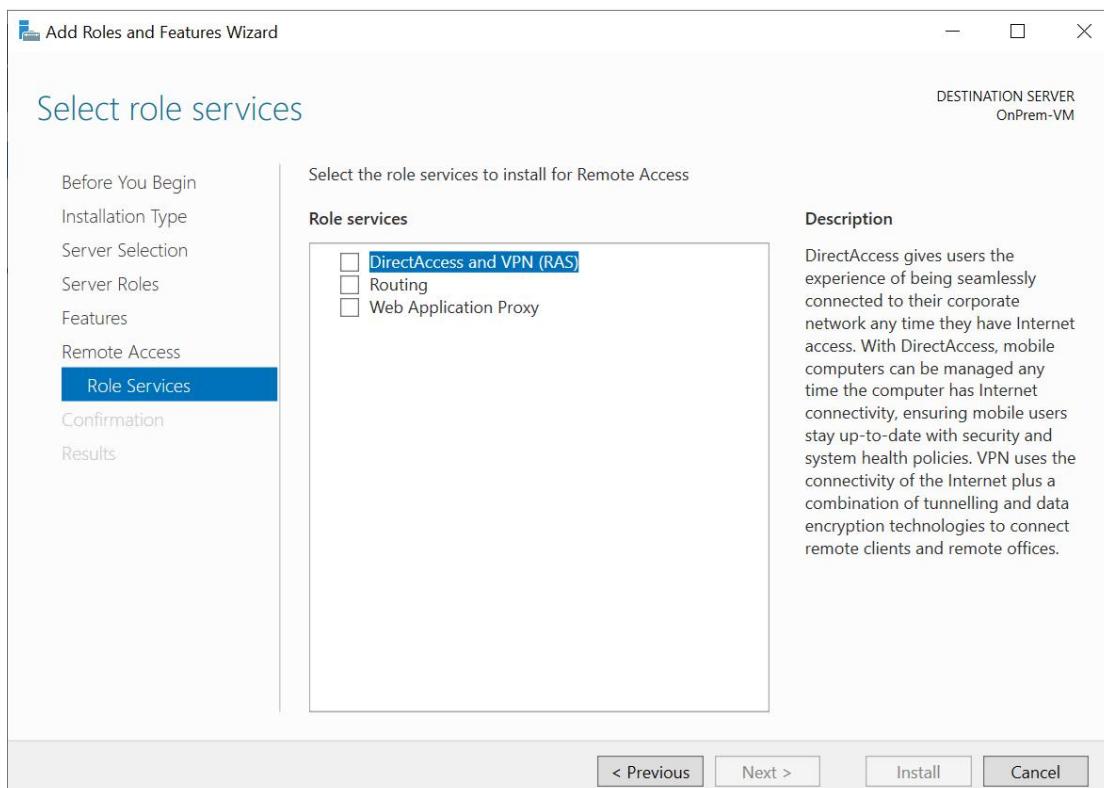
Step 17: Now create an Local Network Gateway (LNG) with the IP address (20.219.118.163) and Address space (10.3.0.0/16) of On-prem.

Step 18: Install RRAS inside the onprem-vm by clicking on Add roles and features inside the Server Manager

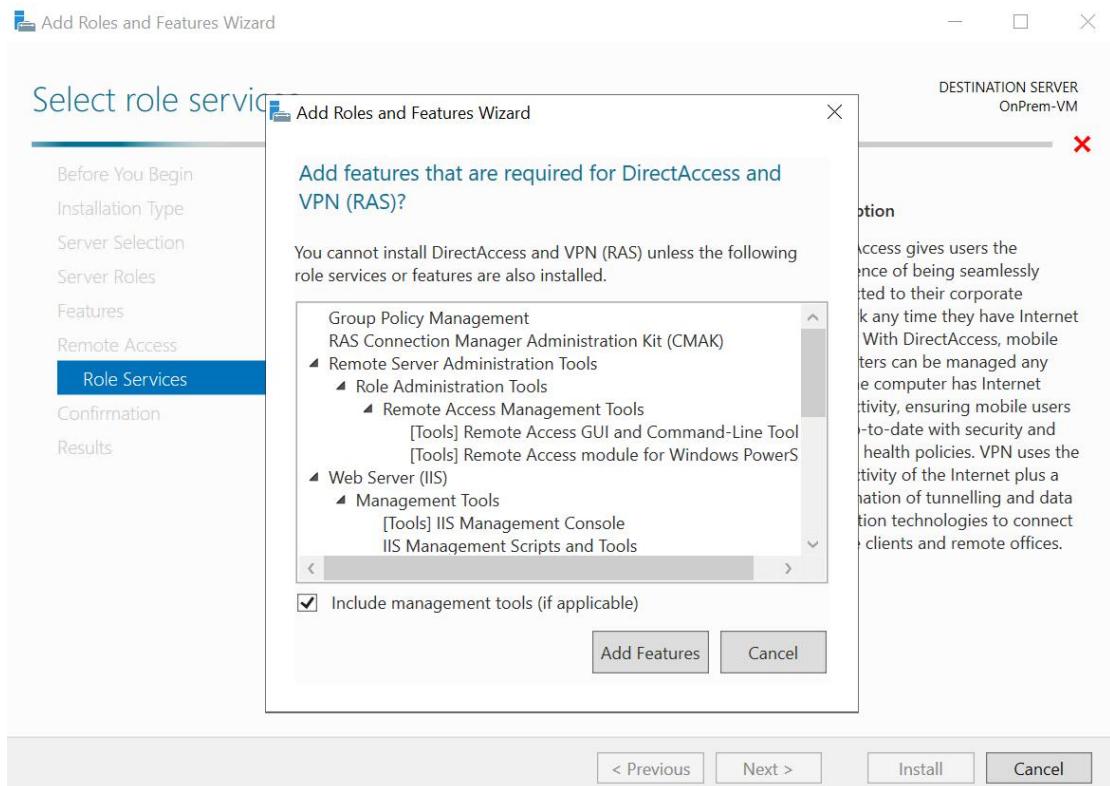
Step 19: Go to Server Roles and mark the checkbox beside Remote Access. Click on Next.



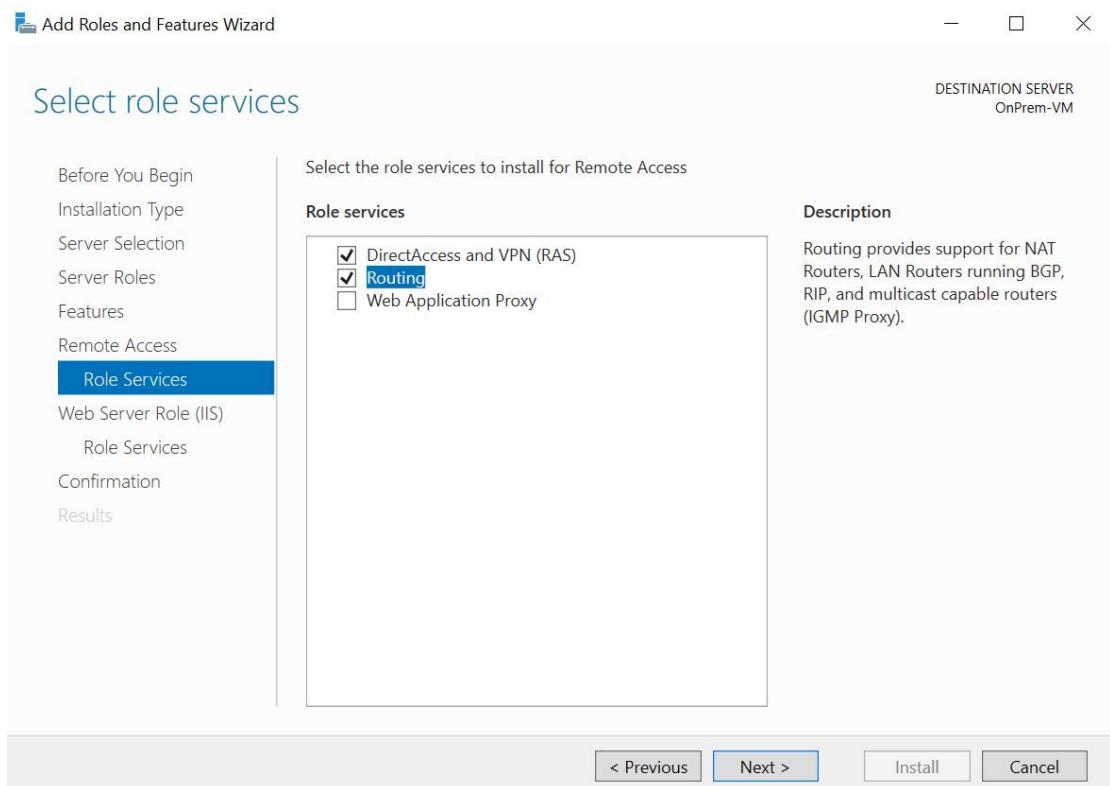
Step 20: Checkmark the DirectAccess and VPN (RAS) option under Role services



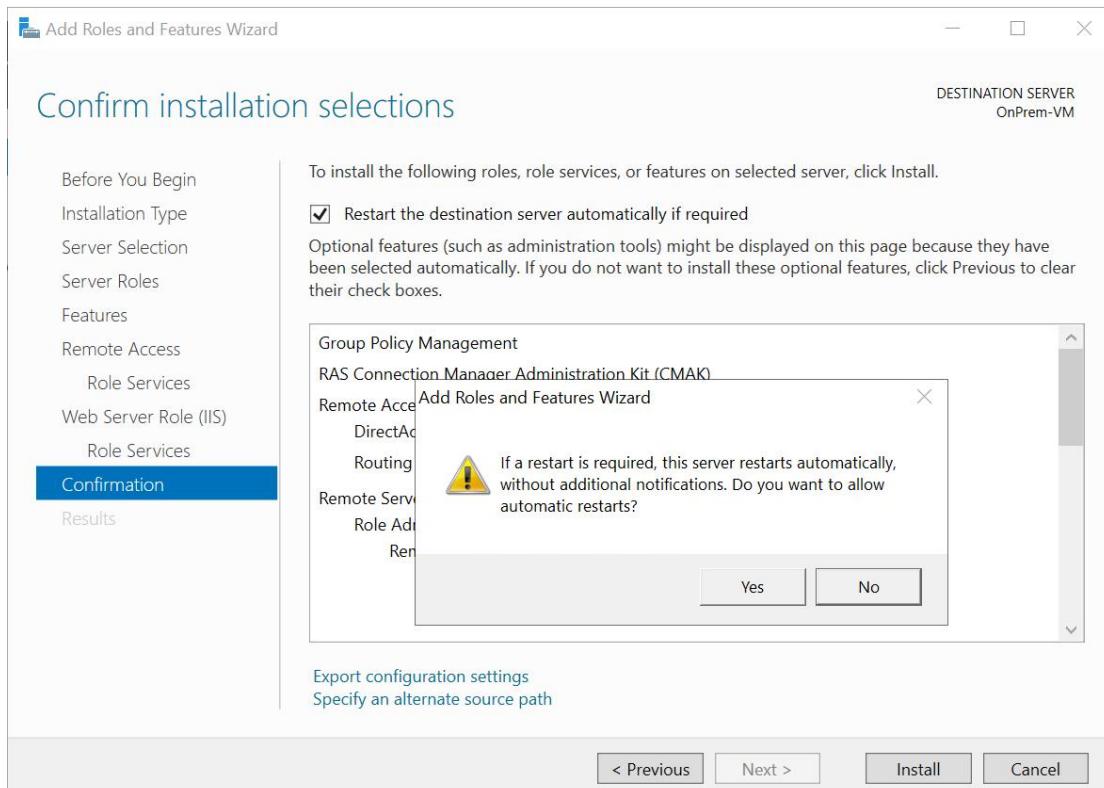
Step 21: Checkmark the Include management tools and click on Add Features.



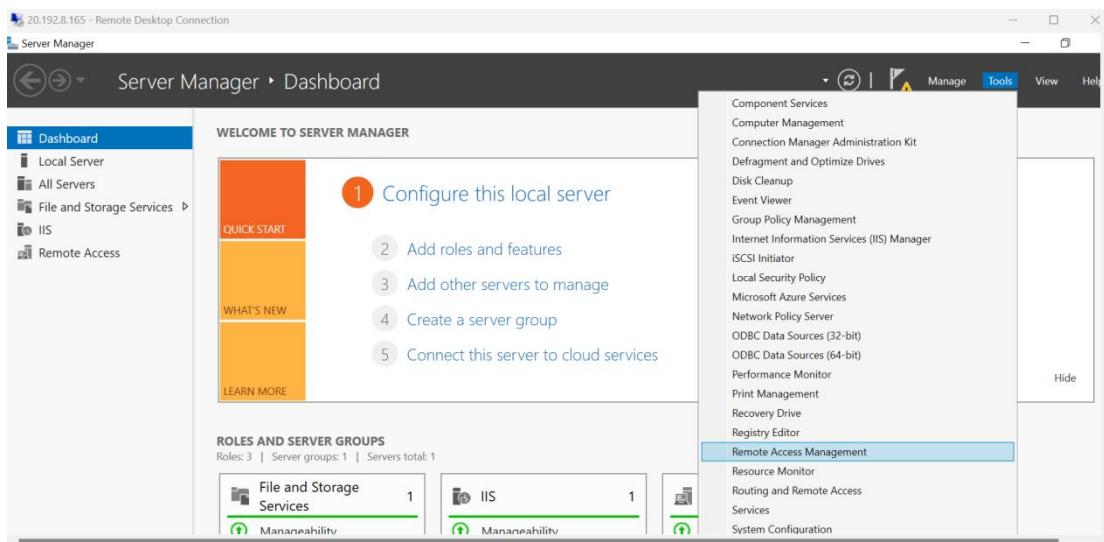
Step 22: Checkmark the Routing option as well then click on Next



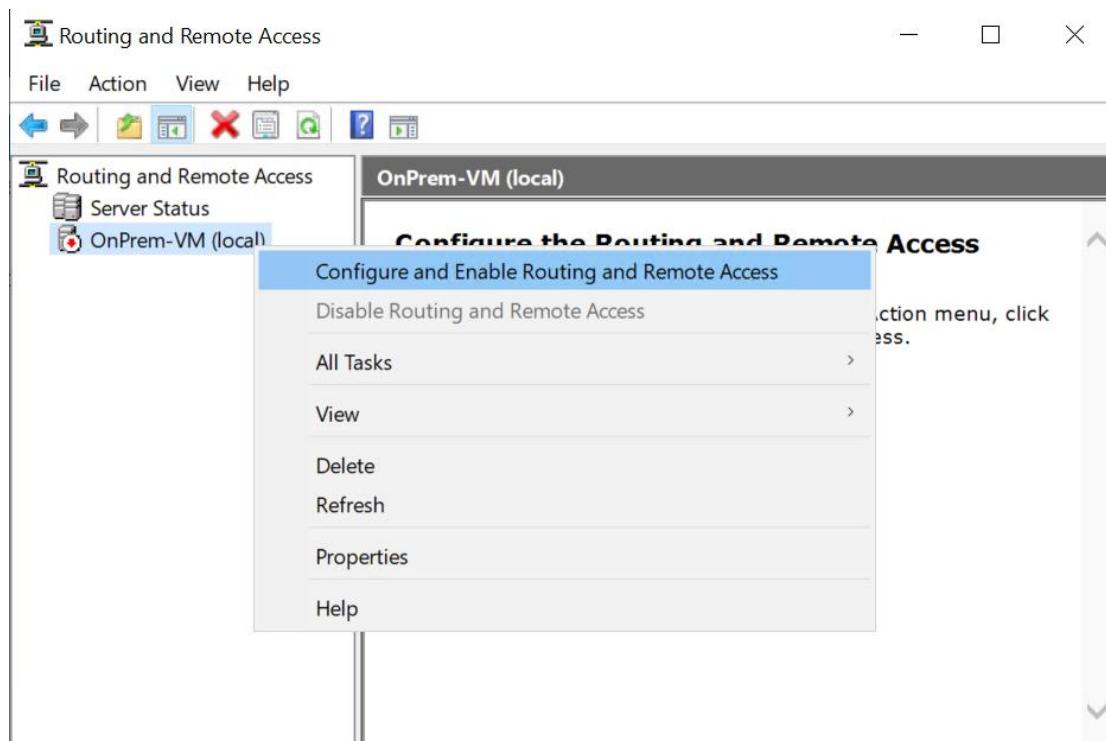
Step 23: Checkmark the ‘Restart the destination server automatically if required’ and click on Yes. Now click the Install button.



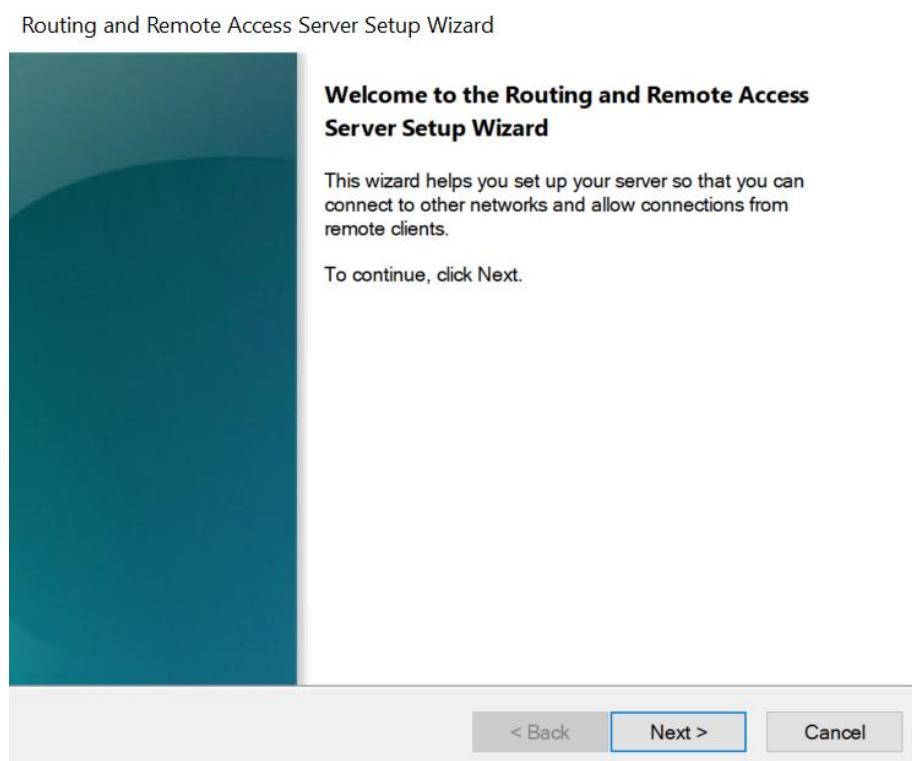
Step 24: Click on Tools at the top of the Server Manager Dashboard and select Remote Access Management



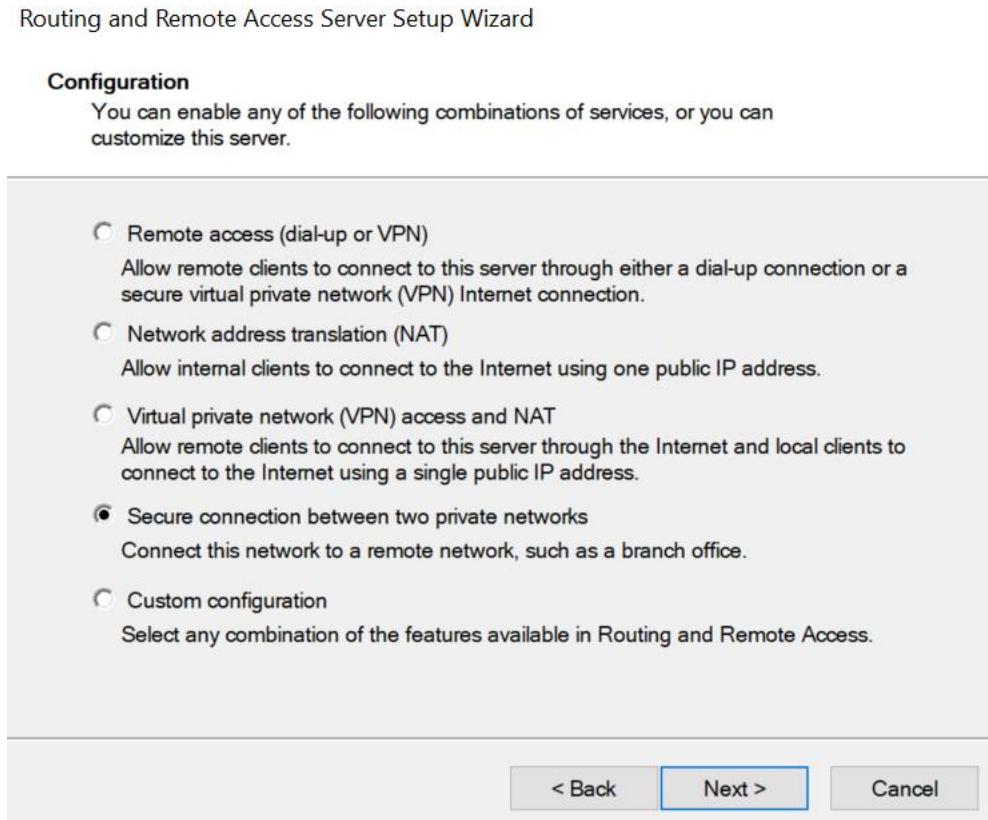
Step 25: Right click on the OnPrem-VM(local) and click on Configure and Enable Routing and Remote Access.



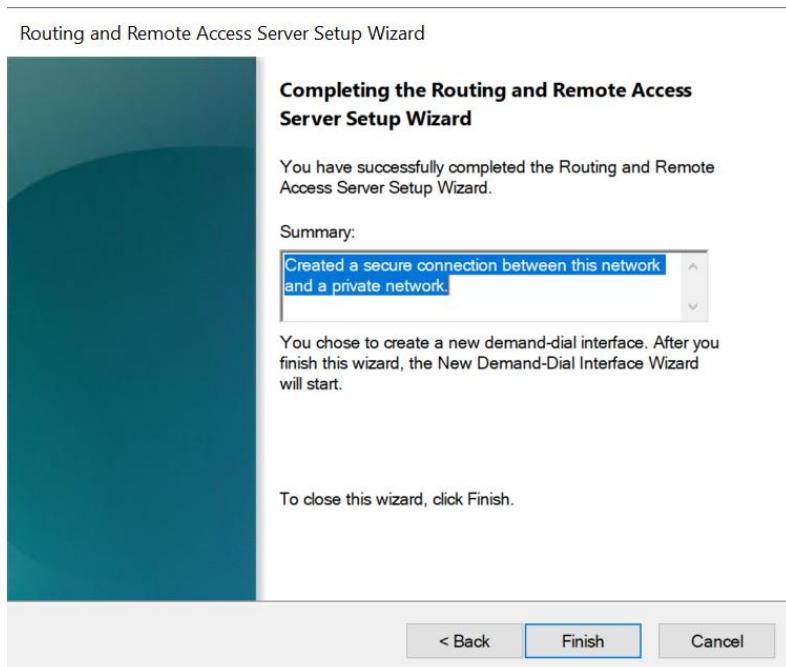
Step 26: In the RAAS setup wizard window, click on Next



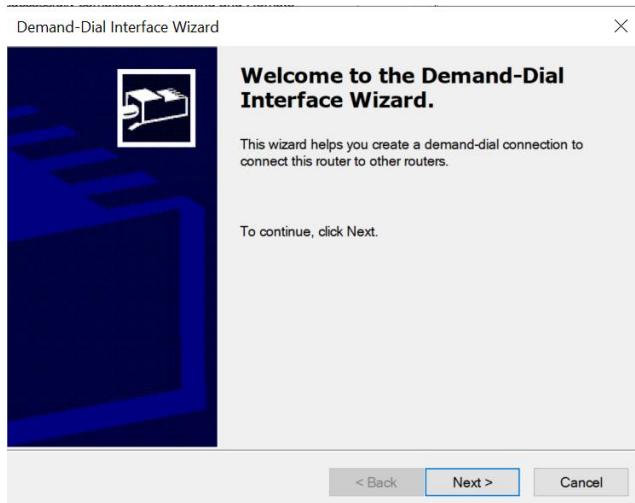
Step 27: Under Configuration select the Secure connection between two private networks option



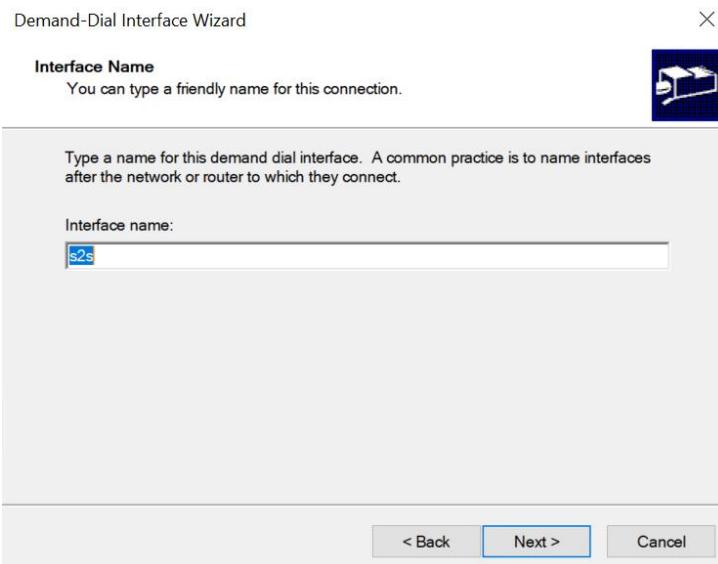
Step 28: Click on Next -> Next -> Finish



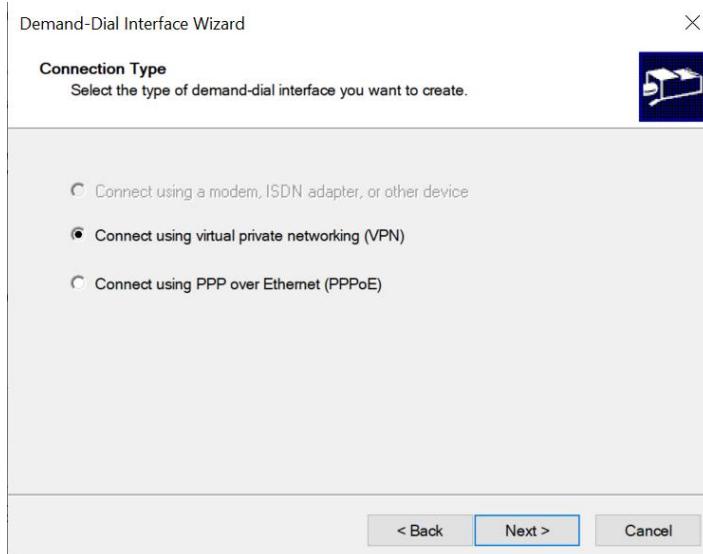
Step 29: In the Demand-Dial Interface Wizard window, click on Next



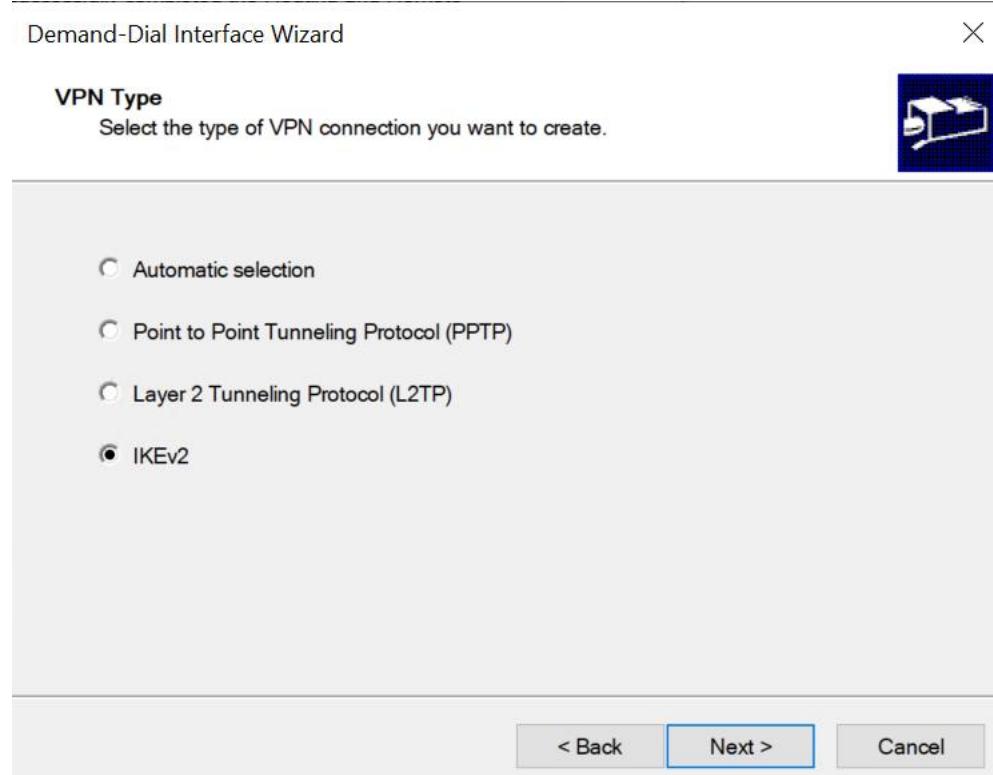
Step 30: Enter s2s as the Interface Name, then click on Next



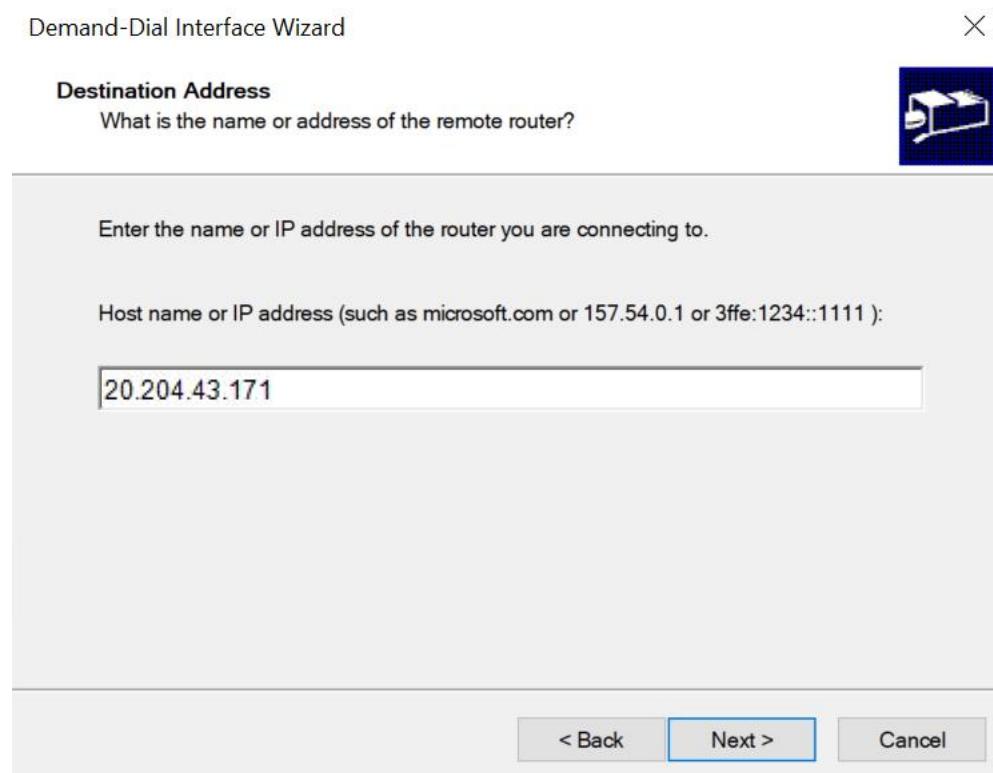
Step 31: Choose Connect using virtual private networking (VPN), then click on Next.

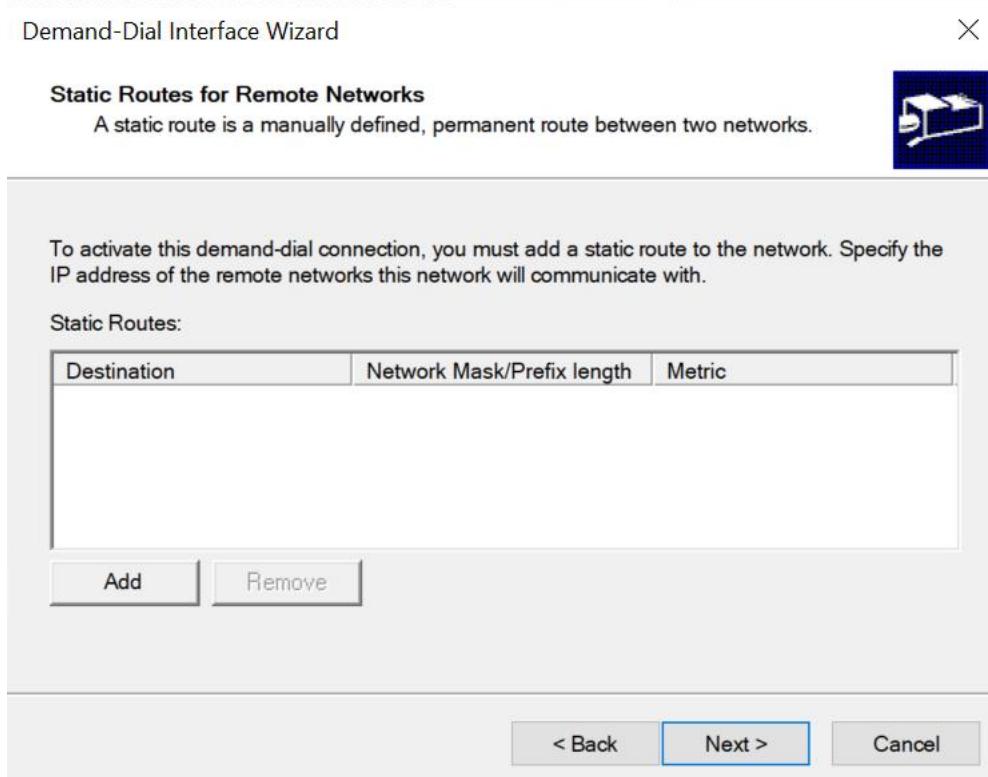


Step 32: Choose IKEv2 option under VPN Type then click on Next



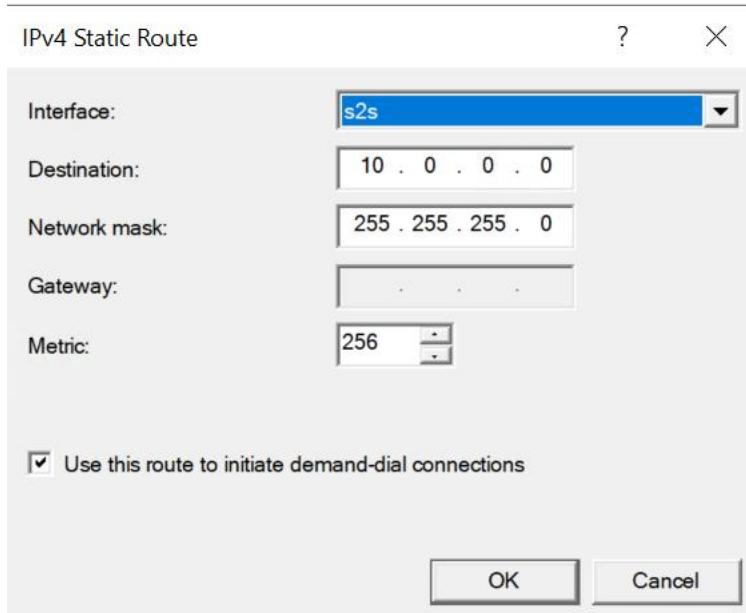
Step 33: Enter the address of the VNG that you created i.e. 20.204.43.171 (Ritwika-spoke2-vm-ip). Click on Next.



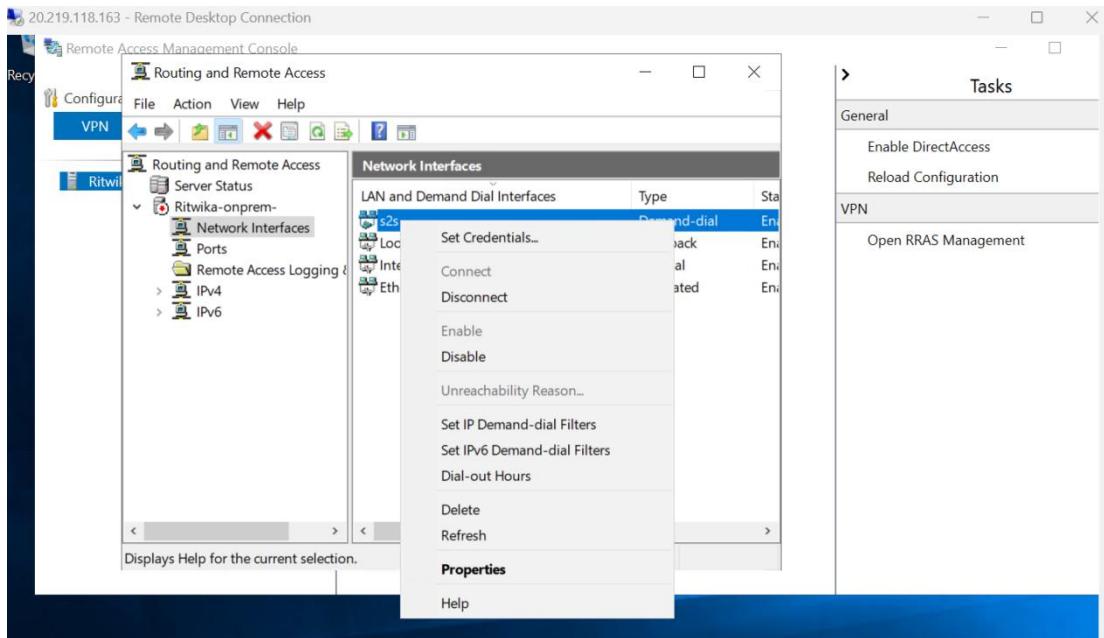
Step 34: Add a Static Route by clicking on Add**Step 35:** Enter the following details:

- ✓ Interface - s2s
- ✓ Destination - 10.0.0.0
- ✓ Network mask - 255.255.255.0
- ✓ Metric - 256

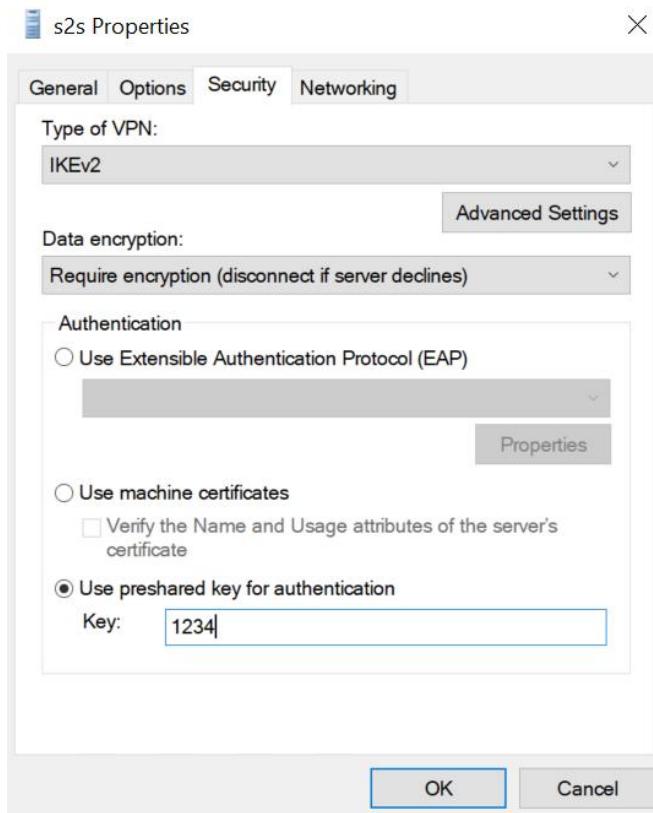
Click on OK.



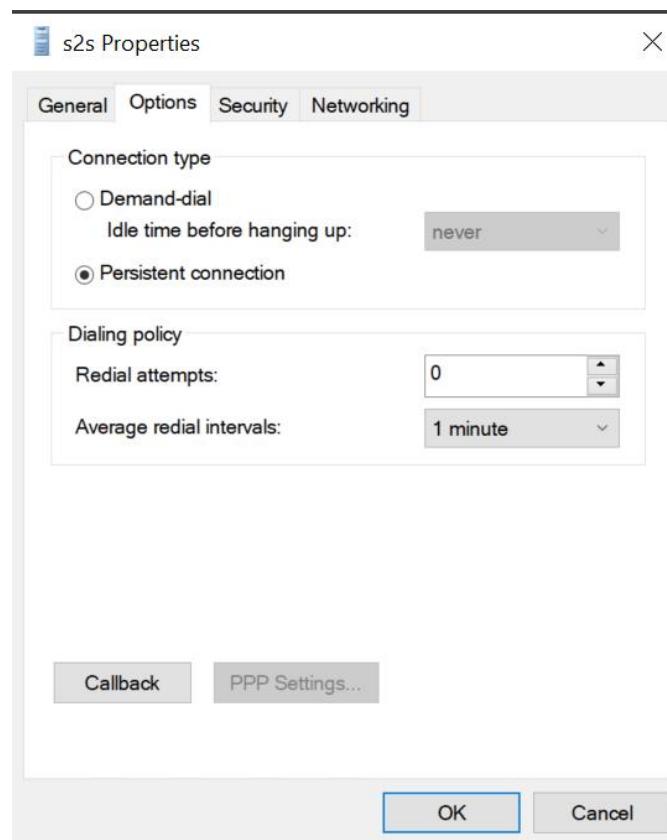
Step 36: Open RRAS and click on Network Interfaces, right click on s2s, then click on Properties



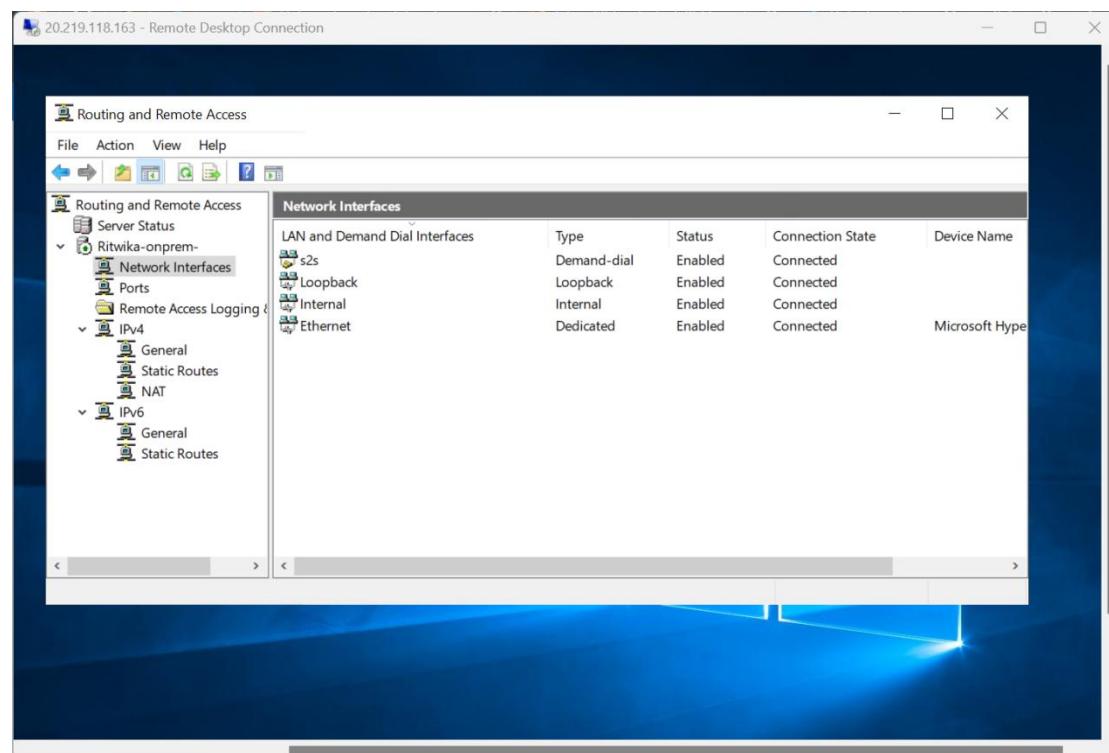
Step 37: Under Security, enter the preshared key (PSK) i.e. 1234



Step 38: Under Options, choose Persistent connection, then click on OK



Step 39: Now right click on s2s again and click on Connect. s2s is connected



Step 40: Enable ICMP4 in the on-prem vm and ping the hub vm from on-prem vm and vice-versa. Check the s2s connection.

```

20.219.118.163 - Remote Desktop Connection
Administrator: Command Prompt
Connection-specific DNS Suffix . . . . . : v2abixskjoduhdwro3hbnt34vhx.internal.cl
Link-local IPv6 Address . . . . . : fe80::9165:f0e9:6cb4:a63c%2
IPv4 Address . . . . . : 10.3.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.3.0.1

PPP adapter s2s:
Connection-specific DNS Suffix . . .
Autoconfiguration IPv4 Address . . . . . : 169.254.0.28
Subnet Mask . . . . . : 255.255.0.0
Default Gateway . . . . . :

C:\Users\onprem>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:
Reply from 10.0.0.4: bytes=32 time=42ms TTL=127

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 42ms, Maximum = 42ms, Average = 42ms
C:\Users\onprem>

20.204.45.29 - Remote Desktop Connection
Administrator: Command Prompt
IPv4 Address . . . . . : 10.0.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.0.0.1

Tunnel adapter isatap.y0bhk2ofc5uu1ppcg1ltc4ozd.rx.internal.cloudapp.net:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . . . . . : y0bhk2ofc5uu1ppcg1ltc4ozd.rx.internal.cl

Tunnel adapter Teredo Tunneling Pseudo-Interface:
Connection-specific DNS Suffix . . .
IPv6 Address . . . . . : 2001:0:348b:fb58:18af:2951:f5ff:ffffb9
Link-local IPv6 Address . . . . . : fe80::18af:2951:f5ff:ffff%9
Default Gateway . . . . . :

C:\Users\hub>ping 10.3.0.4

Pinging 10.3.0.4 with 32 bytes of data:
Reply from 10.3.0.4: bytes=32 time=43ms TTL=127
Reply from 10.3.0.4: bytes=32 time=42ms TTL=127
Reply from 10.3.0.4: bytes=32 time=42ms TTL=127
Reply from 10.3.0.4: bytes=32 time=42ms TTL=127

Ping statistics for 10.3.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 42ms, Maximum = 43ms, Average = 42ms
C:\Users\hub>

```

Configure on-prem and spoke connection

Step 41: Add static routes of spoke1 and spoke2 in the on-prem vm using RRAS.

Destination	Network mask	Gateway	Interface
10.2.0.0	255.255.255.0	None	s2s
10.1.0.0	255.255.255.0	None	s2s
10.0.0.0	255.255.255.0	None	s2s

Step 42: Go back to hub-vm and dissociate it's ip address and attach it to spoke2

The screenshot shows the Azure portal interface for managing a virtual machine's network interface. The left sidebar lists various monitoring and automation options. The main area displays the 'IP configurations' section for the 'ritwika-spoke2-vm979' VM. Under 'IP Settings', the 'Virtual network' is set to 'spoke2-vnet'. The 'Subnet' dropdown shows 'default (10.2.0.0/24) 250 free IP addresses'. Below this, there is a table for adding new IP configurations. A modal window titled 'Edit IP configuration' is open, showing the configuration for 'ipconfig1'. The 'Name' field is 'ipconfig1', 'IP Version' is 'IPv4', and 'Type' is 'Primary'. The 'Private IP address settings' section includes 'Allocation' (set to 'Dynamic') and 'Public IP address settings' where 'Associate public IP address' is checked and the 'Public IP address' dropdown is set to 'Ritwika-hub-vm-ip'. At the bottom of the modal are 'Save' and 'Cancel' buttons.

Step 43: Now go to hub-vnet, select hub-spoke1 peer and choose the option “Use this virtual network’s gateway or Route server”, and click Save.

Repeat the same step for hub-spoke2

The screenshot shows the Microsoft Azure portal interface for configuring a hub-spoke1 peering link. The top navigation bar includes the Microsoft Azure logo and a search bar. The breadcrumb navigation shows: Home > Virtual networks > hub-vnet | Peering. The main content area is titled "hub-spoke1" and displays the following settings:

- Peering link name: hub-spoke1
- Peering status: Fully Synchronized
- Peering state: Succeeded
- Traffic to remote virtual network:
 - Allow (default)
 - Block all traffic to the remote virtual network
- Traffic forwarded from remote virtual network:
 - Allow (default)
 - Block traffic that originates from outside the remote virtual network
- Virtual network gateway or Route Server:
 - Use this virtual network's gateway or Route Server
 - Use the remote virtual network's gateway or Route Server
 - None (default)
- Remote virtual network: /subscriptions/b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0/resourceGroups/Spoke1/providers/Microsoft.Network/virtualNet... (with a copy icon)
- Address space: _____

At the bottom are "Save" and "Cancel" buttons.

Step 44: Now go to hub-vnet, select hub-spoke1 peer and choose the option “Use the remote virtual network’s gateway or Route server”, and click Save.

Repeat this step for hub-spoke2 peer.

The screenshot shows the Microsoft Azure portal interface for configuring a spoke1-hub peering link. The top navigation bar includes the Microsoft Azure logo and a search bar. The breadcrumb navigation shows: Home > Virtual networks > spoke1-vnet | Peering. The main content area is titled "spoke1-hub" and displays the following settings:

- Peering status: Fully Synchronized
- Peering state: Succeeded
- Traffic to remote virtual network:
 - Allow (default)
 - Block all traffic to the remote virtual network
- Traffic forwarded from remote virtual network:
 - Allow (default)
 - Block traffic that originates from outside the remote virtual network
- Virtual network gateway or Route Server:
 - Use this virtual network's gateway or Route Server
 - Use the remote virtual network's gateway or Route Server
 - None (default)
- Remote virtual network: /subscriptions/b1e7fa43-b63b-4e7e-a05e-a8e0ed0a0fd0/resourceGroups/Hub/providers/Microsoft.Network/virtualNet... (with a copy icon)
- Address space: 10.0.0.0/16

At the bottom are "Save" and "Cancel" buttons.

Step 45: Check ping connection between on-prem and the spokes and perform tracrt.

On-prem to spoke1 ping connection

```
20.219.118.163 - Remote Desktop Connection
DaPPP adapter s2s

Loc Connection-specific DNS Suffix . :
All Autoconfiguration IPv4 Address . . . : 169.254.0.29
Subnet Mask . . . . . : 255.255.0.0
File Default Gateway . . . . . :

IIS C:\Users\onprem>ping 10.1.0.4

Reply from 10.1.0.4: bytes=32 time=20ms TTL=127
Reply from 10.1.0.4: bytes=32 time=20ms TTL=127
Reply from 10.1.0.4: bytes=32 time=25ms TTL=127
Reply from 10.1.0.4: bytes=32 time=20ms TTL=127

Ping statistics for 10.1.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 20ms, Maximum = 25ms, Average = 21ms

C:\Users\onprem>tracert 10.1.0.4

Tracing route to 10.1.0.4 over a maximum of 30 hops
  1  <1 ms    <1 ms    <1 ms  Ritwika-onprem-.v2abixskjoduhdwro3hbnt34wh.tx.internal.cloudapp.net [10.3.0.4]
  2  20 ms    20 ms    20 ms  10.1.0.4

Trace complete.

C:\Users\onprem>
```

On-prem to spoke2 ping connection

```
20.219.118.163 - Remote Desktop Connection
DaPPP adapter s2s

Loc Approximate round trip times in milli-seconds:
      Minimum = 20ms, Maximum = 25ms, Average = 21ms
All C:\Users\onprem>tracert 10.1.0.4

Tracing route to 10.1.0.4 over a maximum of 30 hops
  1  <1 ms    <1 ms    <1 ms  Ritwika-onprem-.v2abixskjoduhdwro3hbnt34wh.tx.internal.cloudapp.net [10.3.0.4]
  2  20 ms    20 ms    20 ms  10.1.0.4

Trace complete.

C:\Users\onprem>ping 10.2.0.4

Reply from 10.2.0.4: bytes=32 time=26ms TTL=127
Reply from 10.2.0.4: bytes=32 time=26ms TTL=127
Reply from 10.2.0.4: bytes=32 time=25ms TTL=127
Reply from 10.2.0.4: bytes=32 time=25ms TTL=127

Ping statistics for 10.2.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 26ms, Average = 25ms

C:\Users\onprem>tracert 10.2.0.4

Tracing route to 10.2.0.4 over a maximum of 30 hops
  1  <1 ms    <1 ms    <1 ms  Ritwika-onprem-.v2abixskjoduhdwro3hbnt34wh.tx.internal.cloudapp.net [10.3.0.4]
  2  26 ms    25 ms    25 ms  10.2.0.4

Trace complete.

C:\Users\onprem>
```

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Spoke1 to on-prem ping connection

```
Administrator: Command Prompt 20.192.6.91
Link-local IPv6 Address . . . . . : fe80::502:4d10:833d:7547%12
IP4 Address . . . . . : 10.1.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.1.0.1

Tunnel adapter isatap.temj0bsz0cxeniva2vdqkqeleh.rx.internal.cloudapp.net:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : temj0bsz0cxeniva2vdqkqeleh.rx.internal.cloudapp.net

Tunnel adapter Teredo Tunneling Pseudo-Interface:

Connection-specific DNS Suffix . :
IPv6 Address . . . . . : 2001:0:348b:fb58:38d5:2faa:f5fe:ffffb
Link-local IPv6 Address . . . . . : fe80::38d5:2faa:f5fe:ffffb%
Default Gateway . . . . . :

C:\Users\spoke1>hostname
Ritwika-spoke1

C:\Users\spoke1>ping 10.3.0.4

Pinging 10.3.0.4 with 32 bytes of data:
Reply from 10.3.0.4: bytes=32 time=25ms TTL=127
Reply from 10.3.0.4: bytes=32 time=23ms TTL=127
Reply from 10.3.0.4: bytes=32 time=23ms TTL=127
Reply from 10.3.0.4: bytes=32 time=23ms TTL=127

Ping statistics for 10.3.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 23ms, Maximum = 25ms, Average = 23ms
```

Spoke2 to on-prem ping connection

```
Administrator: Command Prompt 20.204.45.29
Link-local IPv6 Address . . . . . : fe80::a903:8e08:7bd8:eaz1%7
IP4 Address . . . . . : 10.2.0.4
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 10.2.0.1

Tunnel adapter isatap.2vw3fc32j3reneevlfj02ybuvg.rx.internal.cloudapp.net:

Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . : 2vw3fc32j3reneevlfj02ybuvg.rx.internal.cloudapp.net

Tunnel adapter Teredo Tunneling Pseudo-Interface:

Connection-specific DNS Suffix . :
IPv6 Address . . . . . : 2001:0:348b:fb58:cad:2d18:f5fd:ffffb
Link-local IPv6 Address . . . . . : fe80::cad:2d18:f5fd:ffffb%
Default Gateway . . . . . :

C:\Users\spoke2>hostname
Ritwika-spoke2

C:\Users\spoke2>ping 10.3.0.4

Pinging 10.3.0.4 with 32 bytes of data:
Reply from 10.3.0.4: bytes=32 time=25ms TTL=127
Reply from 10.3.0.4: bytes=32 time=23ms TTL=127
Reply from 10.3.0.4: bytes=32 time=23ms TTL=127
Reply from 10.3.0.4: bytes=32 time=23ms TTL=127

Ping statistics for 10.3.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 23ms, Maximum = 25ms, Average = 23ms
```