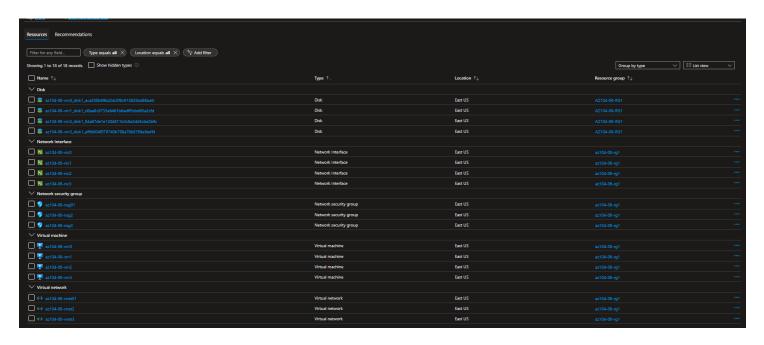
Lab 06 - Implement Traffic Management

You were tasked with testing managing network traffic targeting Azure virtual machines in the hub and spoke network topology, which Contoso considers implementing in its Azure environment (instead of creating the mesh topology, which you tested in the previous lab). This testing needs to include implementing connectivity between spokes by relying on user defined routes that force traffic to flow via the hub, as well as traffic distribution across virtual machines by using layer 4 and layer 7 load balancers. For this purpose, you intend to use Azure Load Balancer (layer 4) and Azure Application Gateway (layer 7).

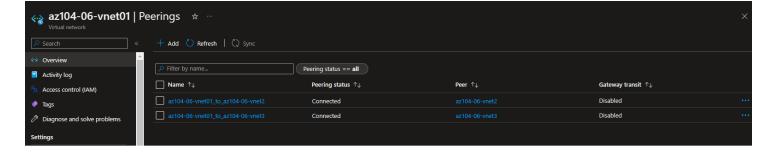
1. Lab provisioning with ARM templates



ToDo:

- Read on cli provisions
- Check ARM templates

2. Configured network

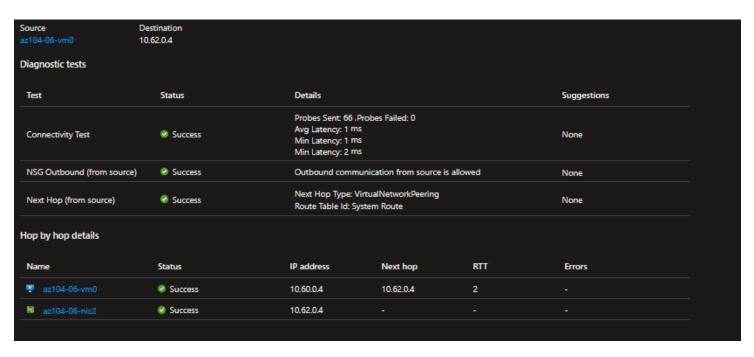


ToDo:

- What a is hub/spoke topolgy
- Peerings

3. Transivity test

Testing connection between vm0 and vm2



Testing connection between vm0 and vm3

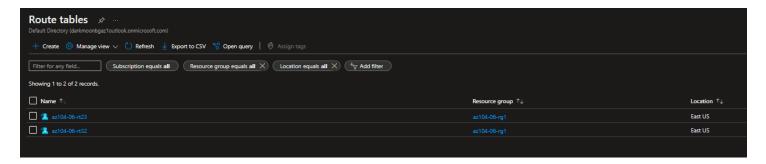
Test	Status	Details			Suggestions
Connectivity Test	✓ Success	Probes Sent: 66 .Probes Failed: 0 Avg Latency: 1 ms Min Latency: 1 ms Min Latency: 4 ms			None
NSG Outbound (from source)	Success	Outbound communication from source is allowed			None
Next Hop (from source)	Success	Next Hop Type: VirtualNetworkPeering Route Table Id: System Route			None
Hop by hop details					
Name	Status	IP address	Next hop	RTT	Errors
型 az104-06-vm0		10.60.0.4	10.63.0.4	1	
■ az104-06-nic3	Success	10.63.0.4			

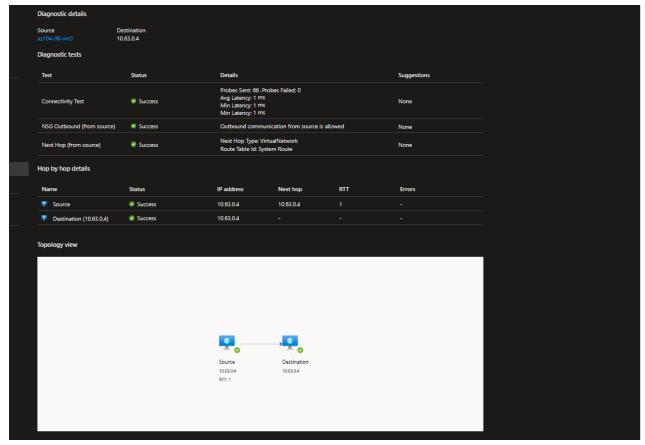
ToDo:

- What is transivity -> Node interconnectivity
- · research network watcher functionality
- 4. Configure routing in the hub and spoke topology
- Enabling IP forwarding on vm0's nic0 and runing powershell

Install-WindowsFeature RemoteAccess -IncludeManagementTools
--Install-WindowsFeature -Name Routing -IncludeManagementTools -IncludeAllSubFeature
Install-WindowsFeature -Name "RSAT-RemoteAccess-Powershell"
Install-RemoteAccess -VpnType RoutingOnly
Get-NetAdapter | Set-NetIPInterface -Forwarding Enabled

We now have the hub, time to make the spokes





ToDo: Get a new screenshot with a test, this one is wrong

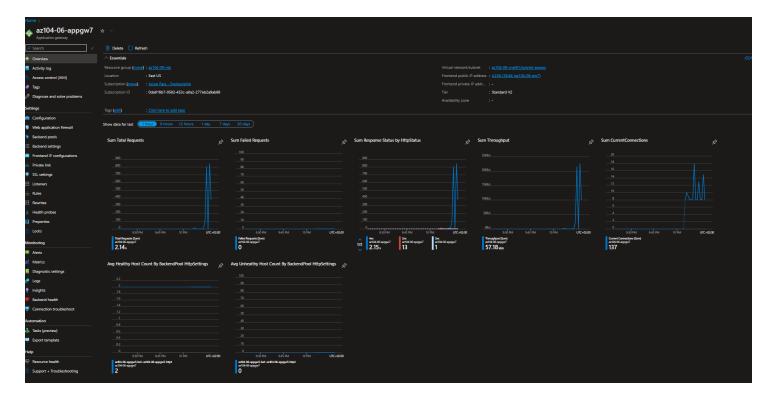
5. Load balancer

ToDo:

- missing screenshots for some reason
- research load balancer settings

6. Application gateway spoke

Load testing the gateway with LOIC (+2k requests)

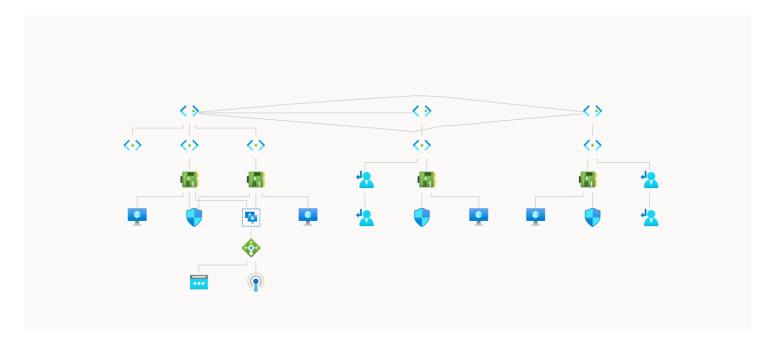


ToDo:

- Application gateway vs Load balancer
- Add more steps

7. Network topology

Using the topology tool in Network watcher. Application gateway is missing or it might be hidden.



ToDo:

- Check the new topology tool
- Add text