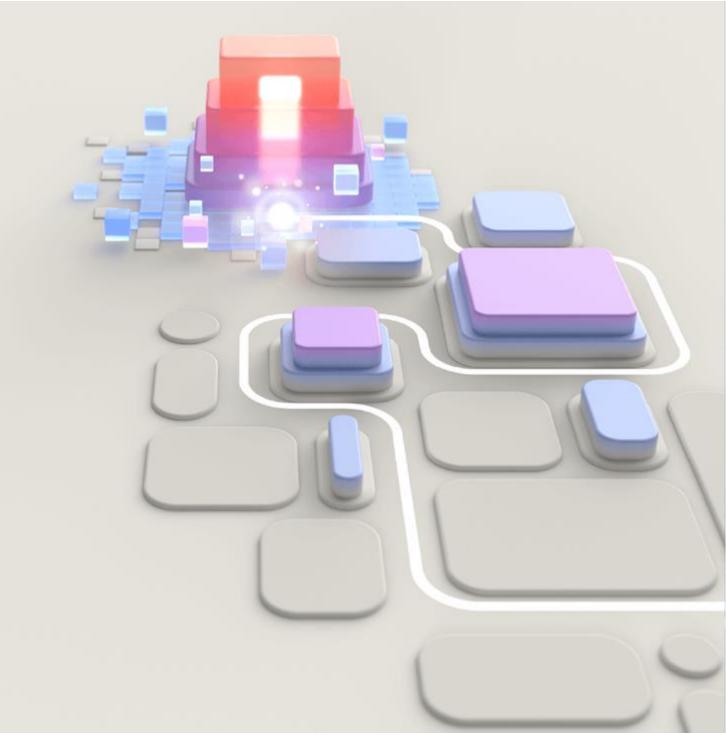


AZ-104

Administer Intersite Connectivity



Course Outline



01: Administer Identity



02: Administer Governance and Compliance



03: Administer Azure Resources



04: Administer Virtual Networking



05: Administer Intersite Connectivity



06: Administer Network Traffic Management



07: Administer Azure Storage



08: Administer Azure Virtual Machines



09: Administer PaaS Compute Options



10: Administer Data Protection



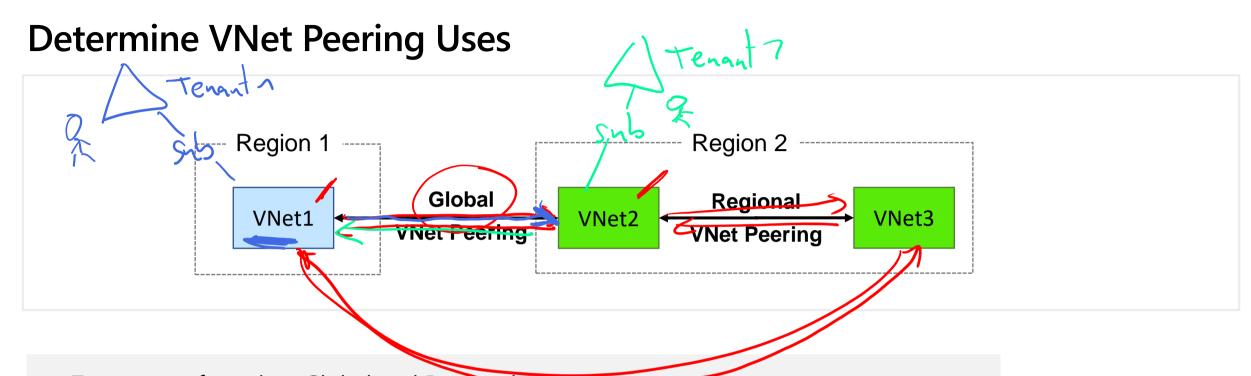
11: Administer Monitoring

Learning Objectives – Administer Intersite Connectivity

- Configure VNet Peering
- Configure Network Routing and Endpoints
- <u>Lab 05 Implement Intersite Connectivity</u>

Configure VNet Peering





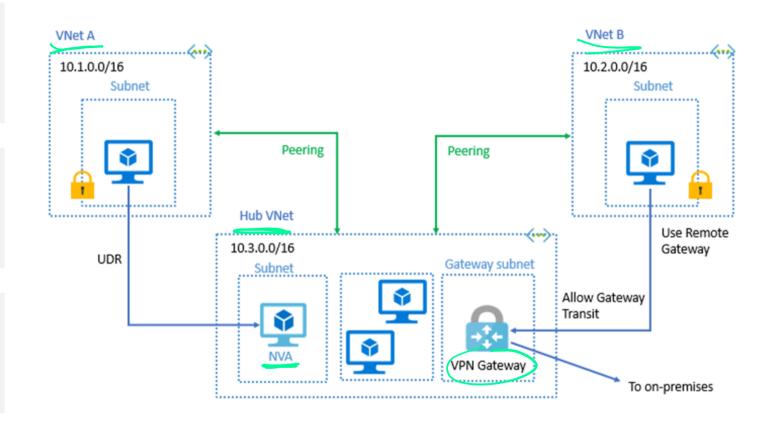
- Two types of peering: Global and Regional
- Connects two Azure virtual networks you can peer across subscriptions and tenants
- Peered networks use the Azure backbone for privacy and isolation
- Easy to setup, seamless data transfer, and great performance

Determine Gateway Transit and Connectivity Needs

Gateway transit allows peered virtual networks to share the gateway and get access to resources

No VPN gateway is required in the peered spoke virtual network

Default VNet peering provides full connectivity





IP address spaces of connected networks can't overlap

Create VNet Peering

Allow virtual network access settings

Configure forwarded traffic settings

To peering links must be created and shown in "connected" status

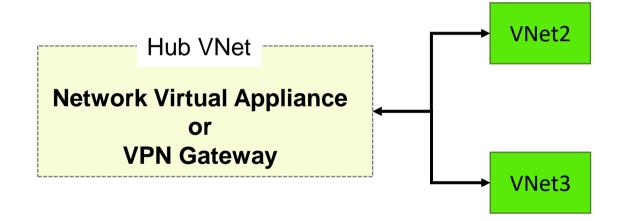
	This virtual network
	Peering link name *
	Traffic to remote virtual network (i)
\rightarrow	Allow (default)
	Block all traffic to the remote virtual network
	Traffic forwarded from remote virtual network ①
\rightarrow	Allow (default)
	Block traffic that originates from outside this virtual network
	Virtual network gateway ①
	Use this virtual network's gateway
	Use the remote virtual network's gateway
-	None (default)
	Remote virtual network
	Peering link name *

Determine Service Chaining Uses

Leverage user-defined routes and service chaining to implement custom routing

Implement a VNet hub with a network virtual appliance or a VPN gateway

Service chaining enables you to direct traffic from one virtual network to a virtual appliance, or virtual network gateway, in a peered virtual network, through user-defined routes



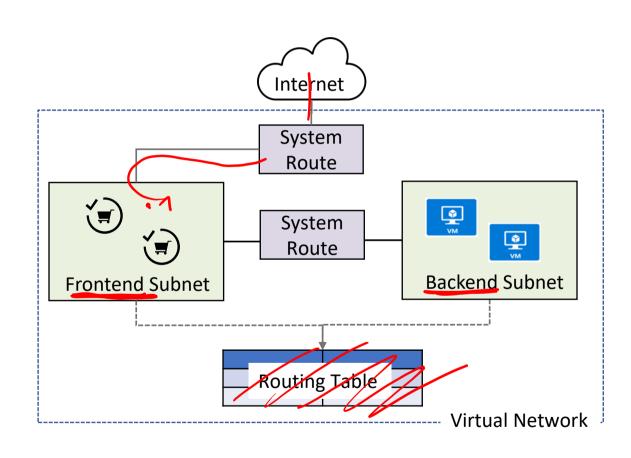
Configure Network Routing and Endpoints



Review System Routes

Directs network traffic between virtual machines, on-premises networks, and the internet

- Traffic between VMs in the same subnet
- Between VMs in different subnets in the same virtual network
- Data flow from VMs to the internet
- Communication between VMs using a VNet-to-VNet VPN
- Site-to-Site and ExpressRoute communication through the VPN gateway

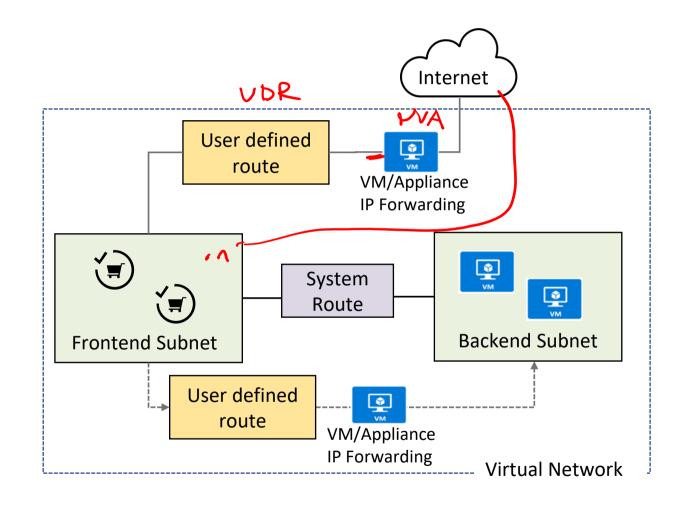


Identify User-Defined Routes

A route table contains a set of rules, called routes, that specifies how packets should be routed in a virtual network

User-defined routes are custom routes that control network traffic by defining routes that specify the next hop of the traffic flow

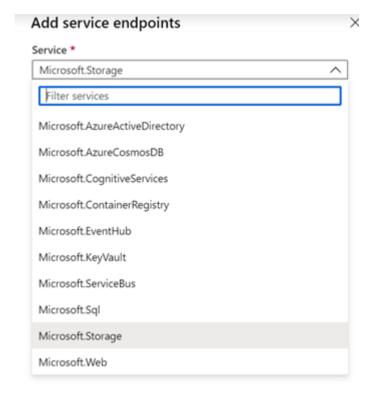
The next hop can be a virtual network gateway, virtual network, internet, or virtual appliance

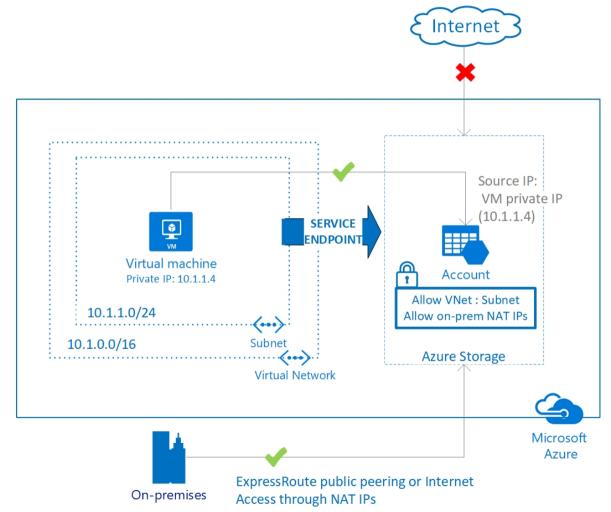


Determine Service Endpoint Uses

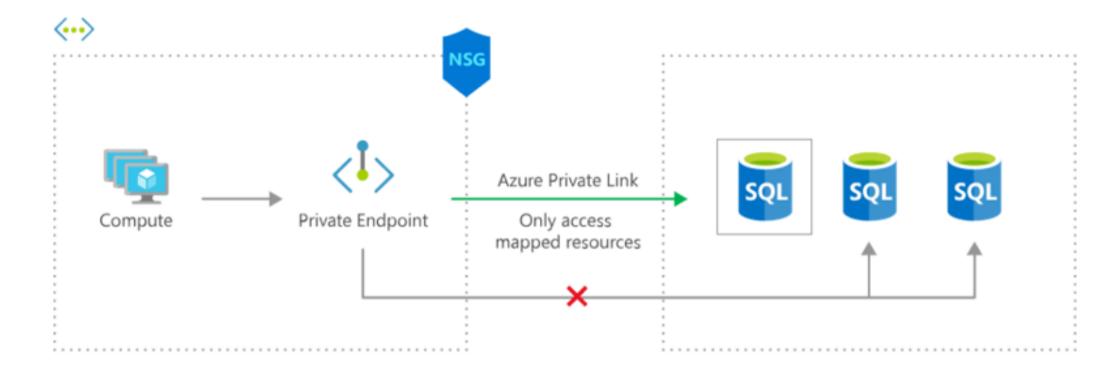
Endpoints limit network access to specific services

Adding service endpoints can take up to 15 minutes to complete





Identify Private Link Uses



Private connectivity to services on Azure. Traffic remains on the Microsoft network, with no public internet access

Integration with on-premises and peered networks

In the event of a security incident within your network, only the mapped resource would be accessible

Lab - Implement Intersite Connectivity



Lab 05 – Implement intersite connectivity



Contoso has its datacenters in Boston, New York, and Seattle offices connected via a mesh wide-area network links, with full connectivity between them. You need to implement a lab environment that will reflect the topology of the Contoso's onpremises networks and verify its functionality.

Objectives

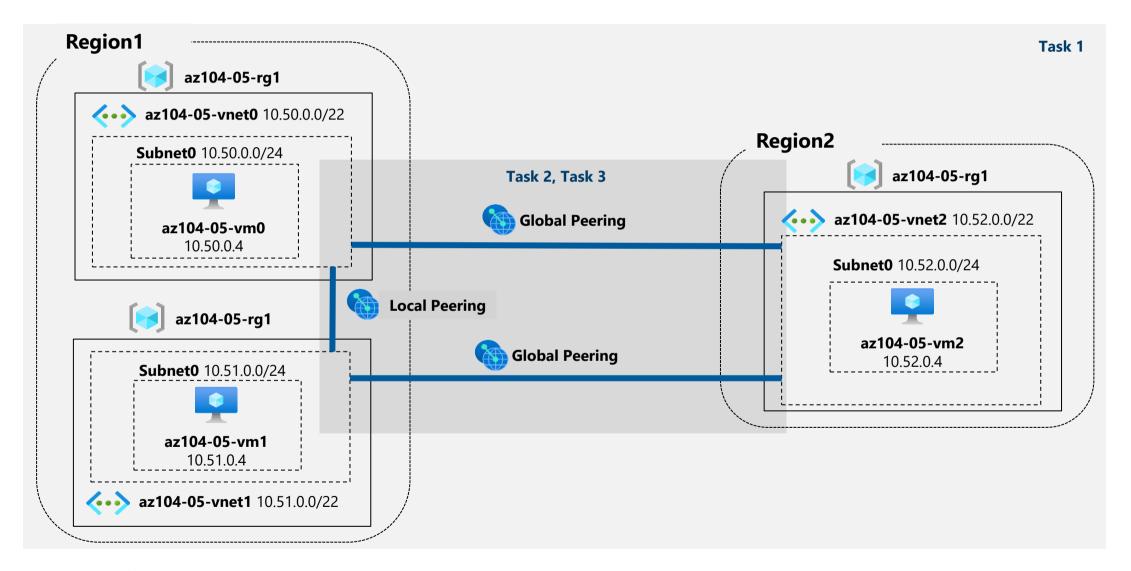
Task 1: Provision the lab environment

Task 2: Configure local and global virtual

Task 3: Test intersite connectivity network peering



Lab 05 – Architecture diagram



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End of presentation

