

AZ-104

# Administer Intersite Connectivity



#### **AZ-104** 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**

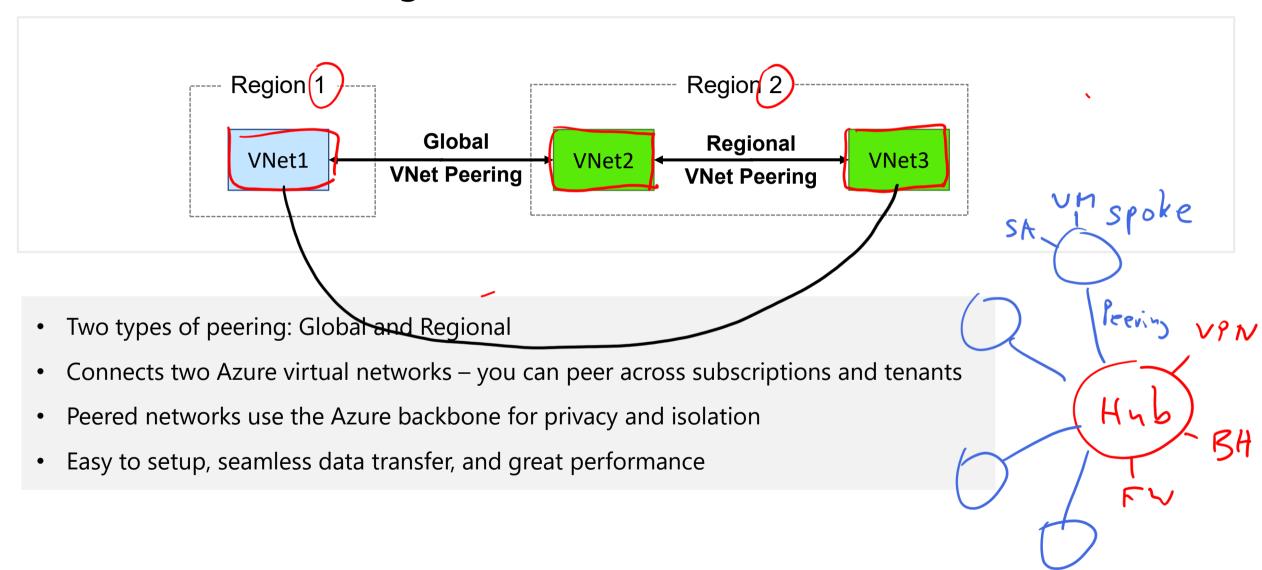
- Configure VNet Peering
- Configure Network Routing and Endpoints
- Lab 05 Implement Intersite Connectivity

## Configure VNet Peering





#### **Determine VNet Peering Uses**

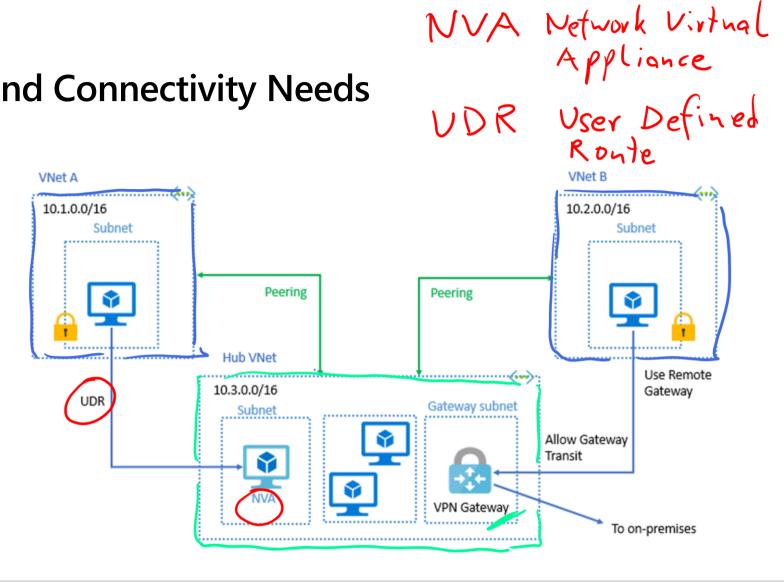


### **Determine Gateway Transit and Connectivity Needs**

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

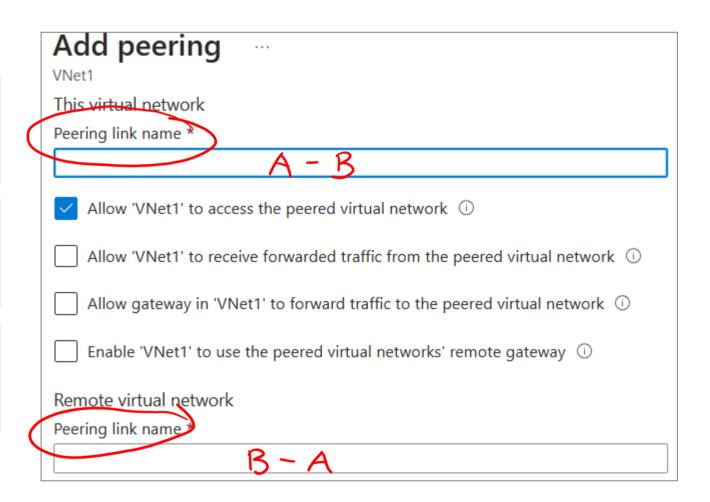




IP address spaces of connected networks can't overlap

#### **Create VNet Peering**

Allow virtual network access settings Configure forwarded traffic settings Status should show "connected"

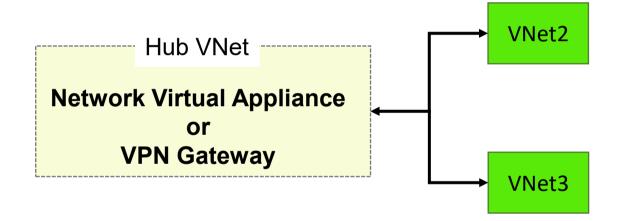


#### **Determine Service Chaining Uses**

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



#### **Learning Recap – Configure VNet Peering**



Distribute your services across Azure virtual networks and integrate them by using virtual network peering

Check your knowledge questions and additional study

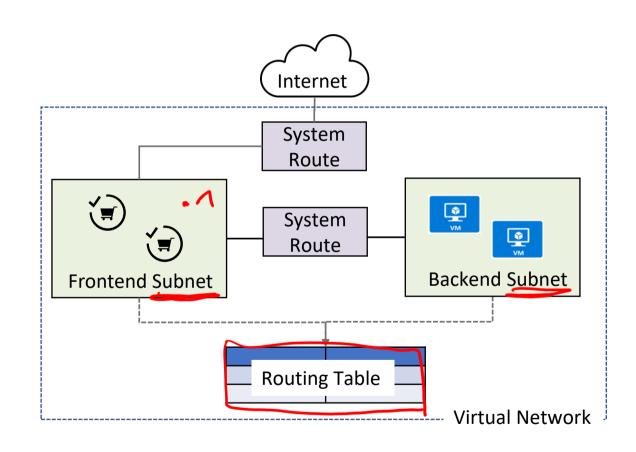
# Configure Network Routing and Endpoints



#### **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

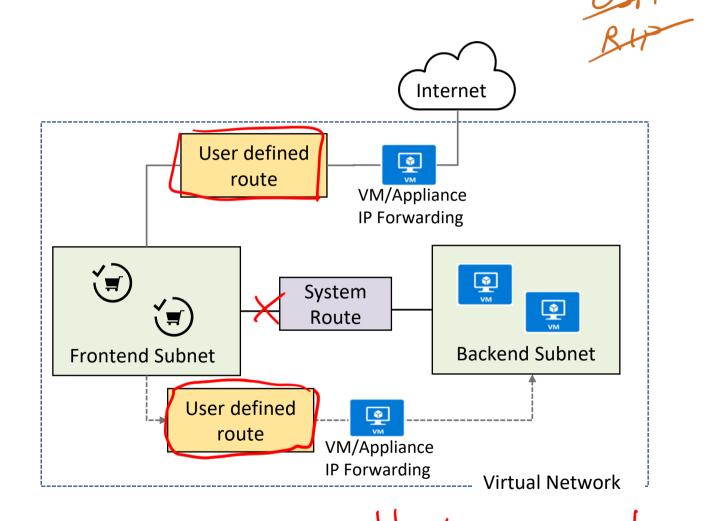


#### **Identify User-Defined Routes**

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

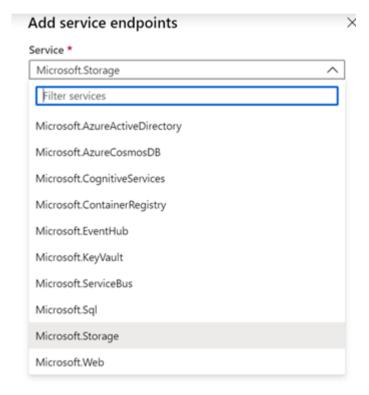
The next hop can be a virtual network gateway, virtual network, internet, or virtual appliance

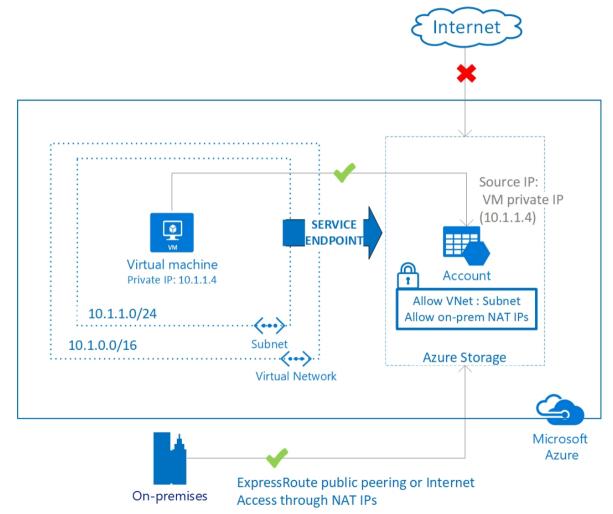


#### **Determine Service Endpoint Uses**

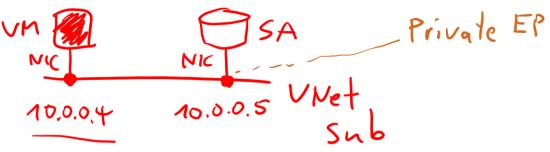
#### **Endpoints limit network access to specific services**

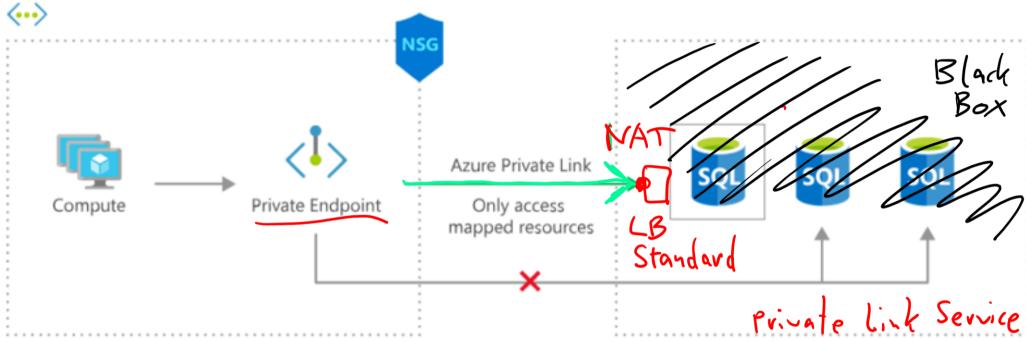
Adding service endpoints can take up to 15 minutes to complete





### **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

#### **Learning Recap – Configure Network Routing and Endpoints**



Manage and control traffic flow in your Azure deployment with routes

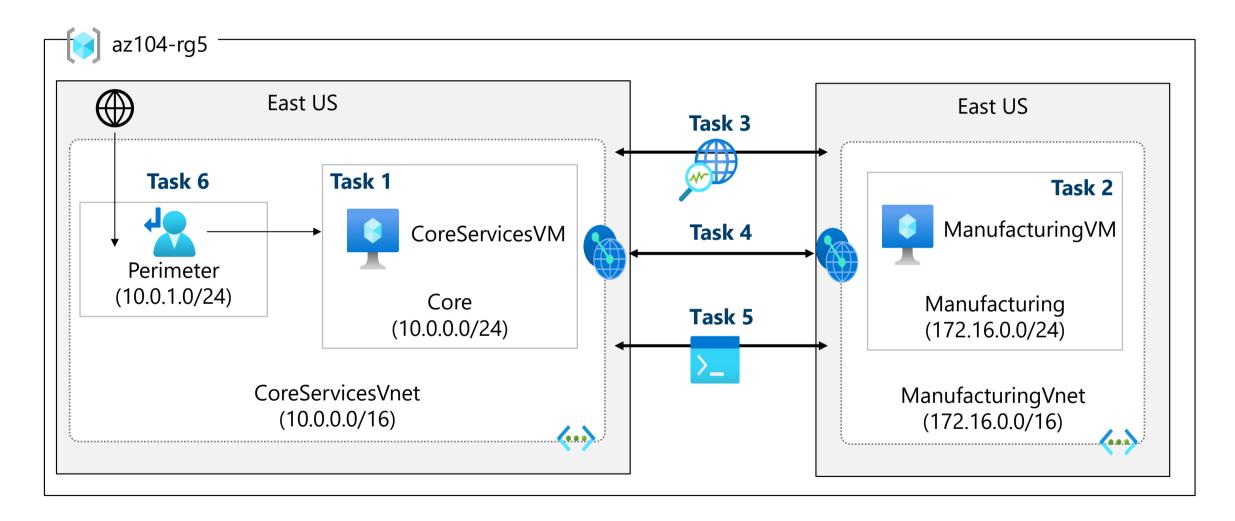
Introduction to Azure Private Link

Check your knowledge questions and additional study

# Lab - Implement Intersite Connectivity



### Lab 05 – Architecture diagram



## End of presentation

