


AZ-104

Administer Intersite Connectivity

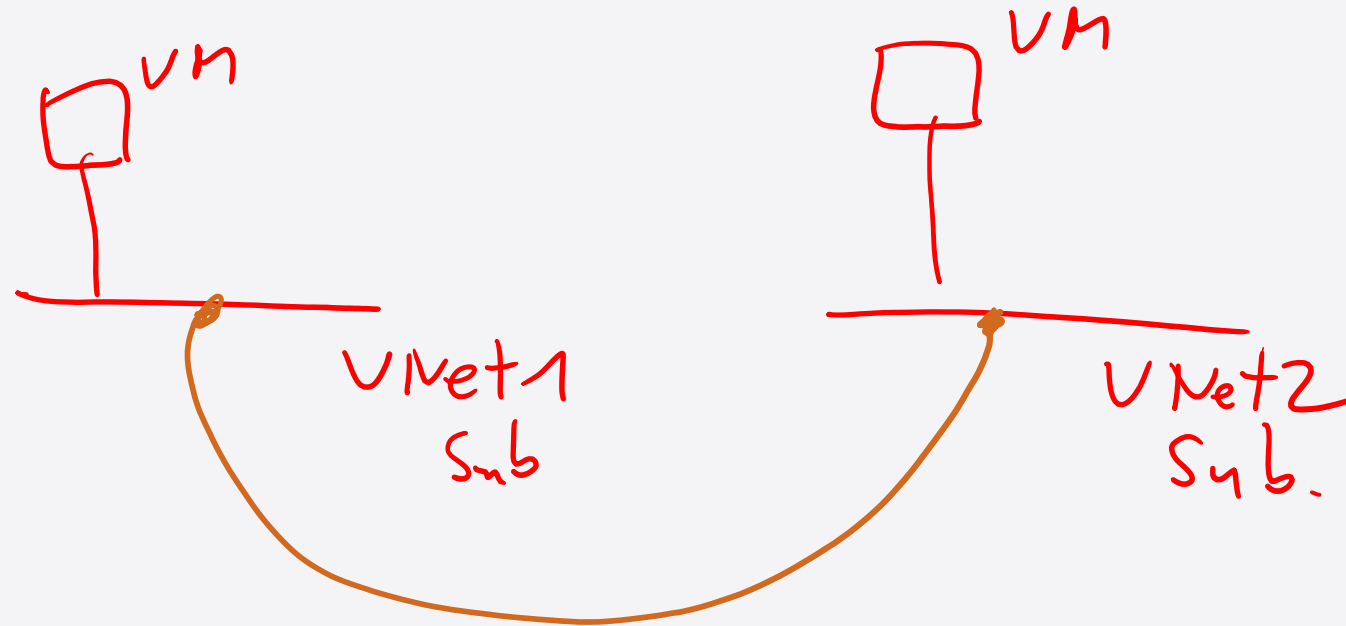


AZ-104 Agenda

- 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
- Manage and control traffic flow with routes
- Lab 05 – Implement Intersite Connectivity



Configure VNet Peering



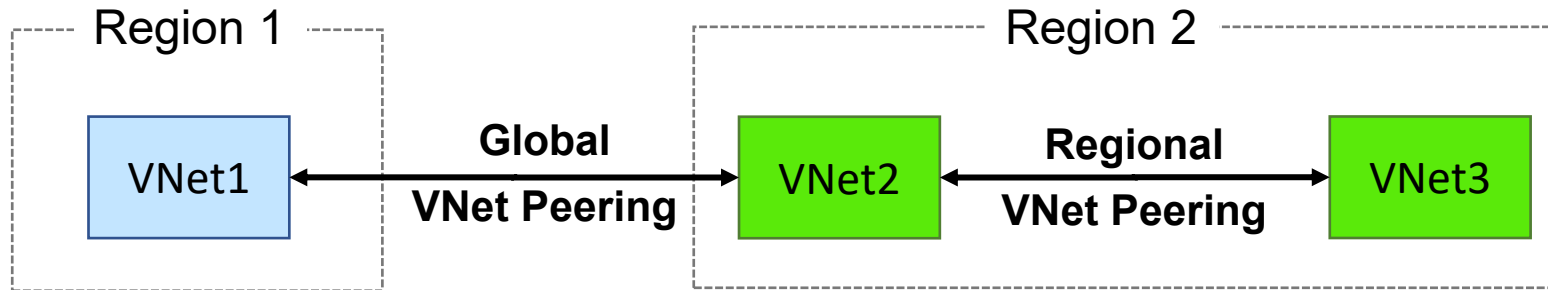
Learning Objectives – Configure VNet Peering

- Determine VNet Peering Uses
- Determine Gateway Transit and Connectivity Needs
- Create VNet Peering
- Determine Service Chaining Uses
- Demonstration – VNet Peering
- Learning Recap

Implement and manage virtual networking (15–20%): Configure and manage virtual networks in Azure

- Create and configure virtual network peering

Determine VNet Peering Uses



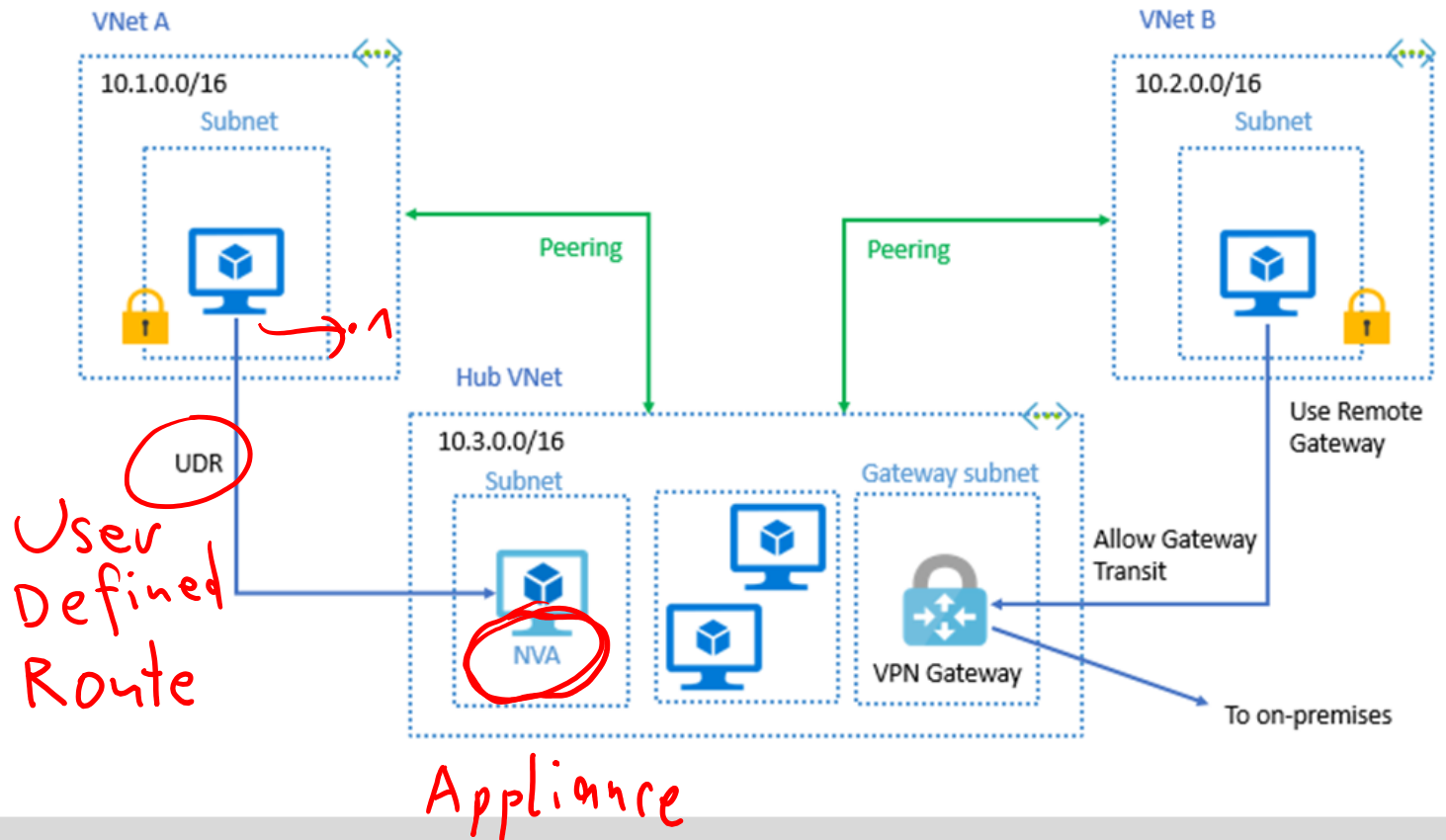
- Two types of peering: Global and Regional
- Connects two Azure virtual networks – you can peer across subscriptions and tenants
- Peered networks use the Azure backbone for privacy and isolation
- Easy to setup, seamless data transfer, and great performance

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

Status should show “connected”

Add peering ...

VNet1

This virtual network

Peering link name *

☒ Allow 'VNet1' to access the peered virtual network ⓘ

☐ Allow 'VNet1' to receive forwarded traffic from the peered virtual network ⓘ

☐ Allow gateway in 'VNet1' to forward traffic to the peered virtual network ⓘ

☐ Enable 'VNet1' to use the peered virtual networks' remote gateway ⓘ

Remote virtual network

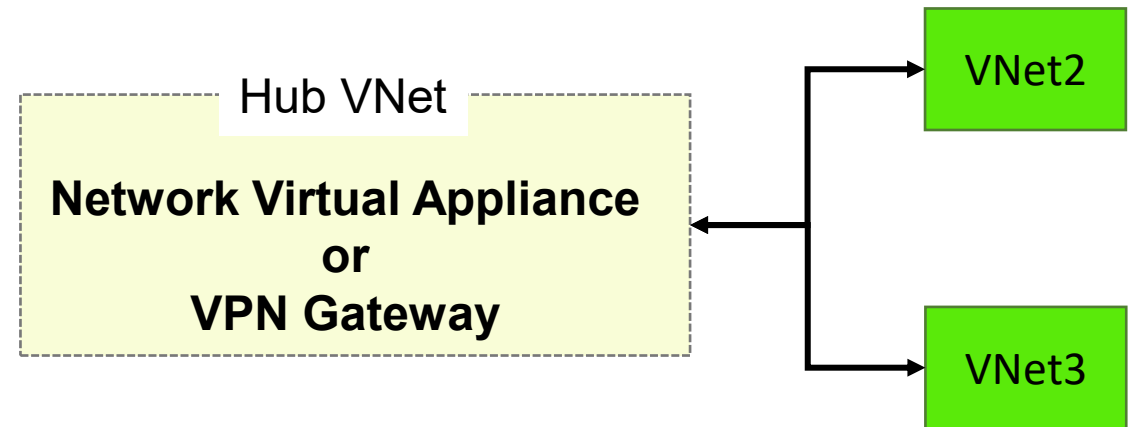
Peering link name *

Determine Service Chaining Uses

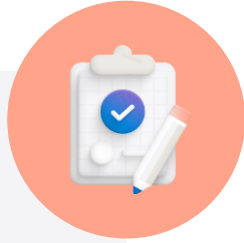
Leverage user-defined routes and service chaining to implement custom routing

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



Learning Recap – Configure VNet Peering



Check your
knowledge
questions and
additional
study

Reference modules

- [Configure Azure Virtual Network peering](#)

Manage and control traffic flow with routes



Configure Network Routing and Endpoints Introduction

- Review System Routes
- Identify User-Defined Routes
- Demonstration – Custom Routing tables
- Determine Service Endpoint Uses
- Identify Private Link Uses
- Learning Recap

Implement and manage virtual networking (15–20%): Configure and manage virtual networks in Azure

- Configure user-defined network routes

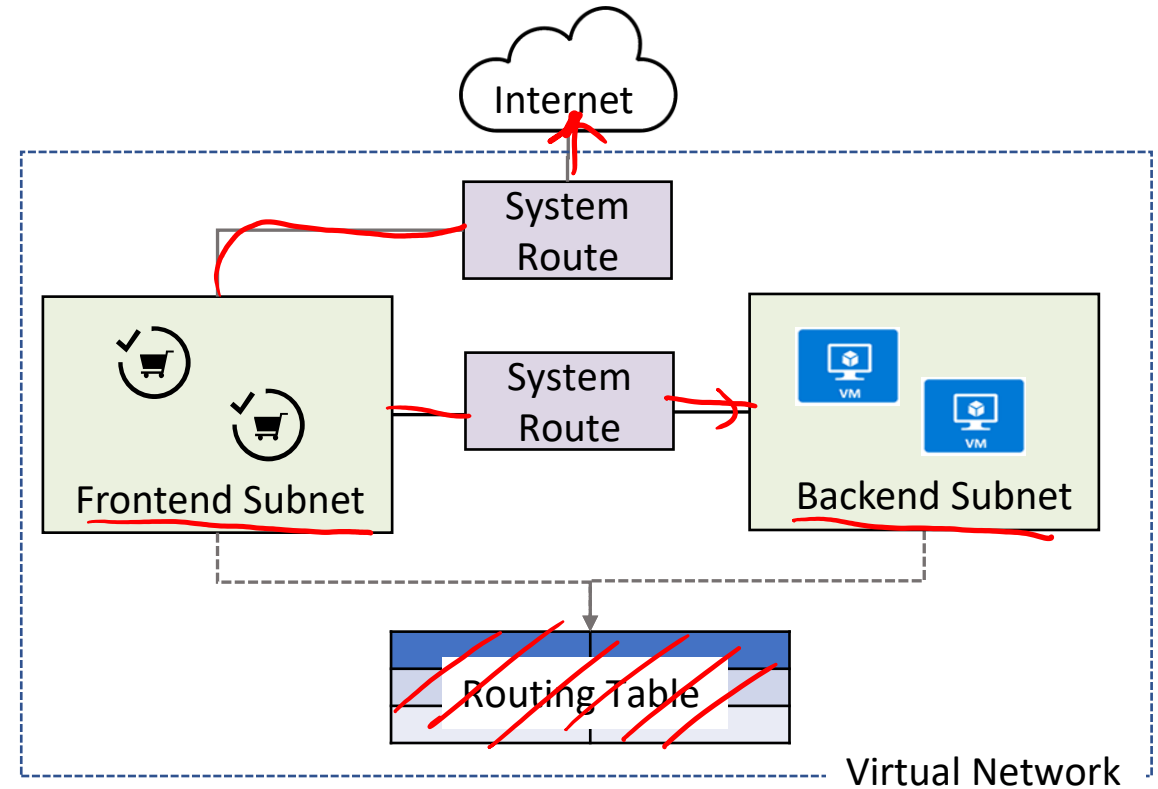
Implement and manage virtual networking (15–20%): Configure secure access to virtual networks

- Configure service endpoints for Azure platform as a service (PaaS)
- Configure private endpoints for Azure PaaS

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

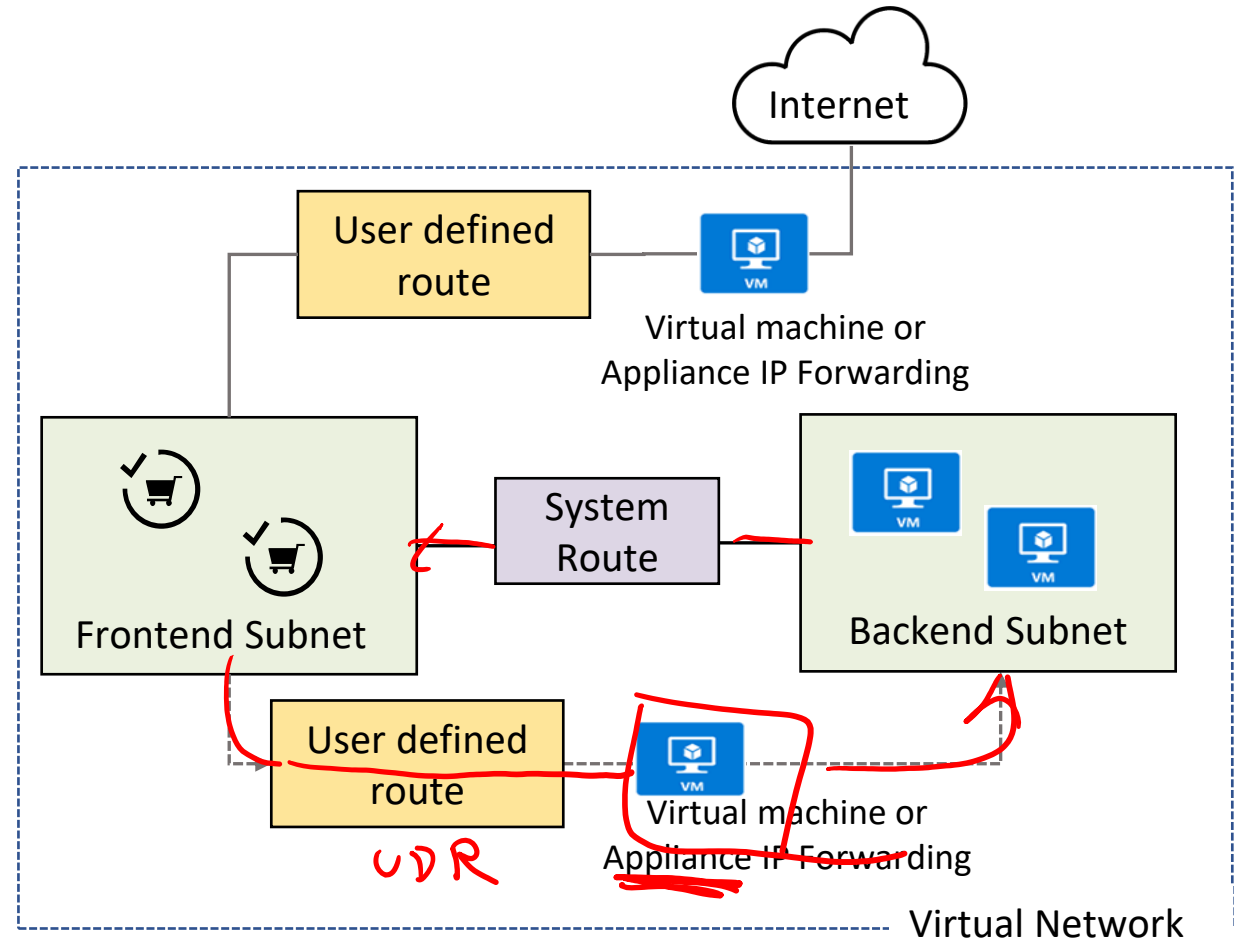


Identify User-Defined Routes

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

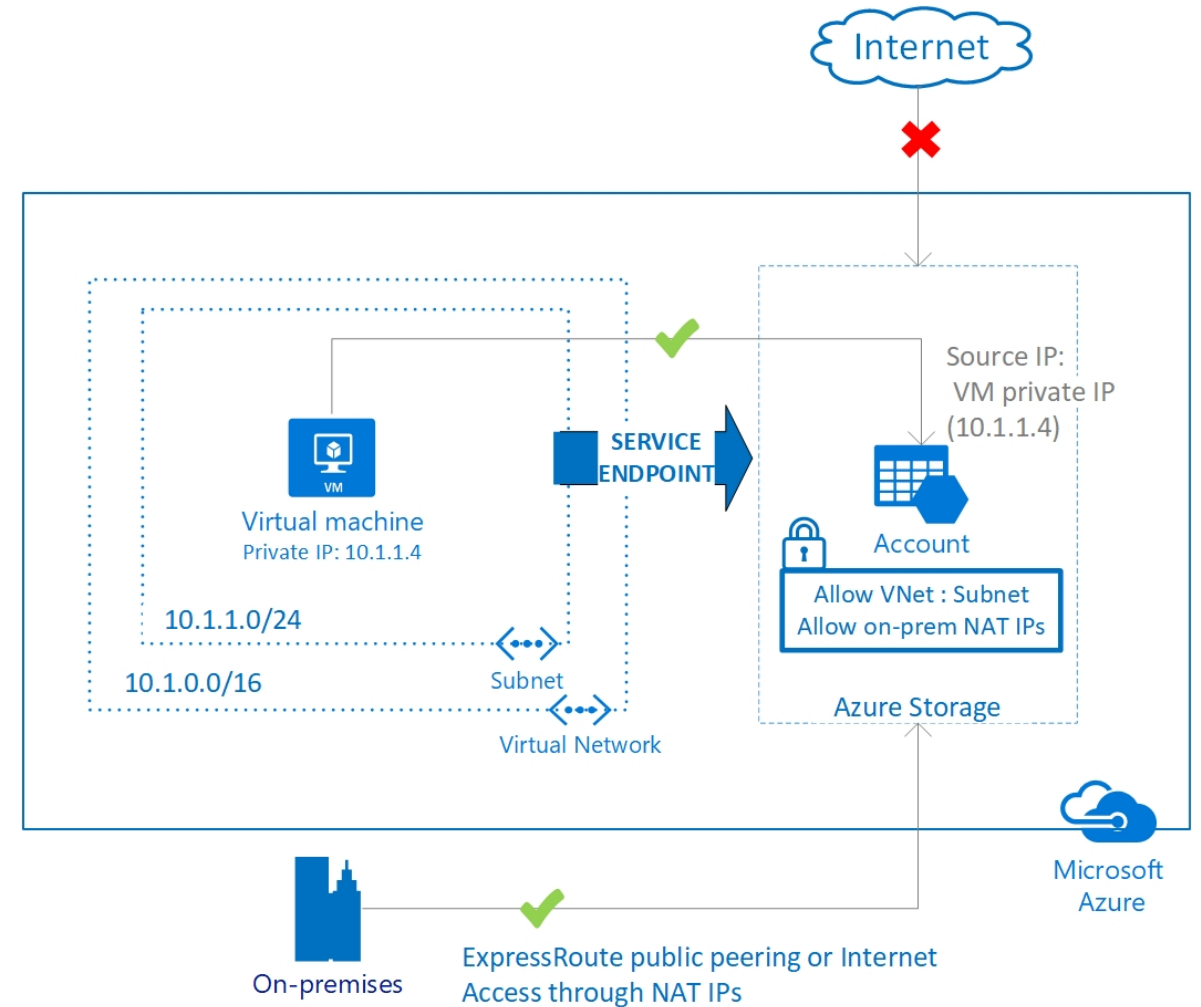
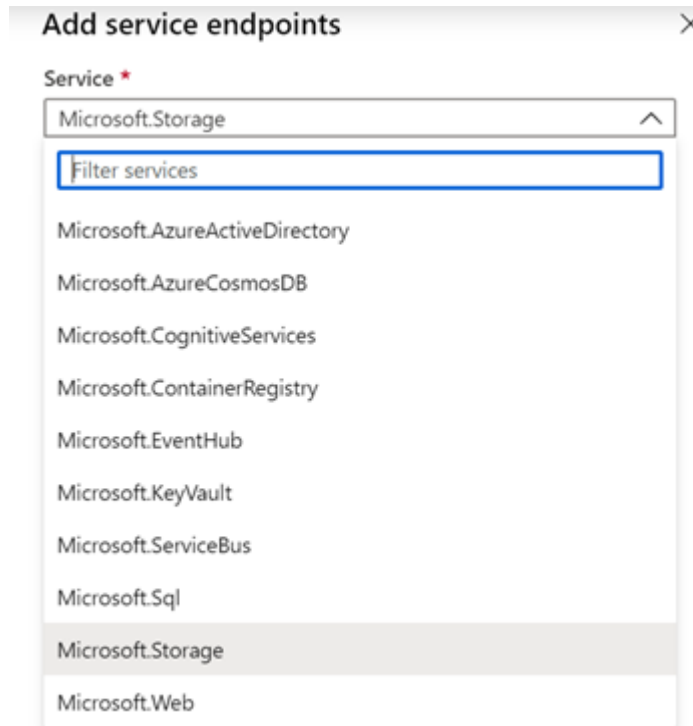
The next hop can be a virtual network gateway, virtual network, internet, or virtual appliance



Determine Service Endpoint Uses

Endpoints limit network access to specific services

Adding service endpoints can take up to 15 minutes to complete



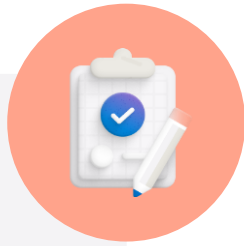
inet



Integration with on-premises and peered networks

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Learning Recap – Manage and control traffic flow with routes



Check your
knowledge
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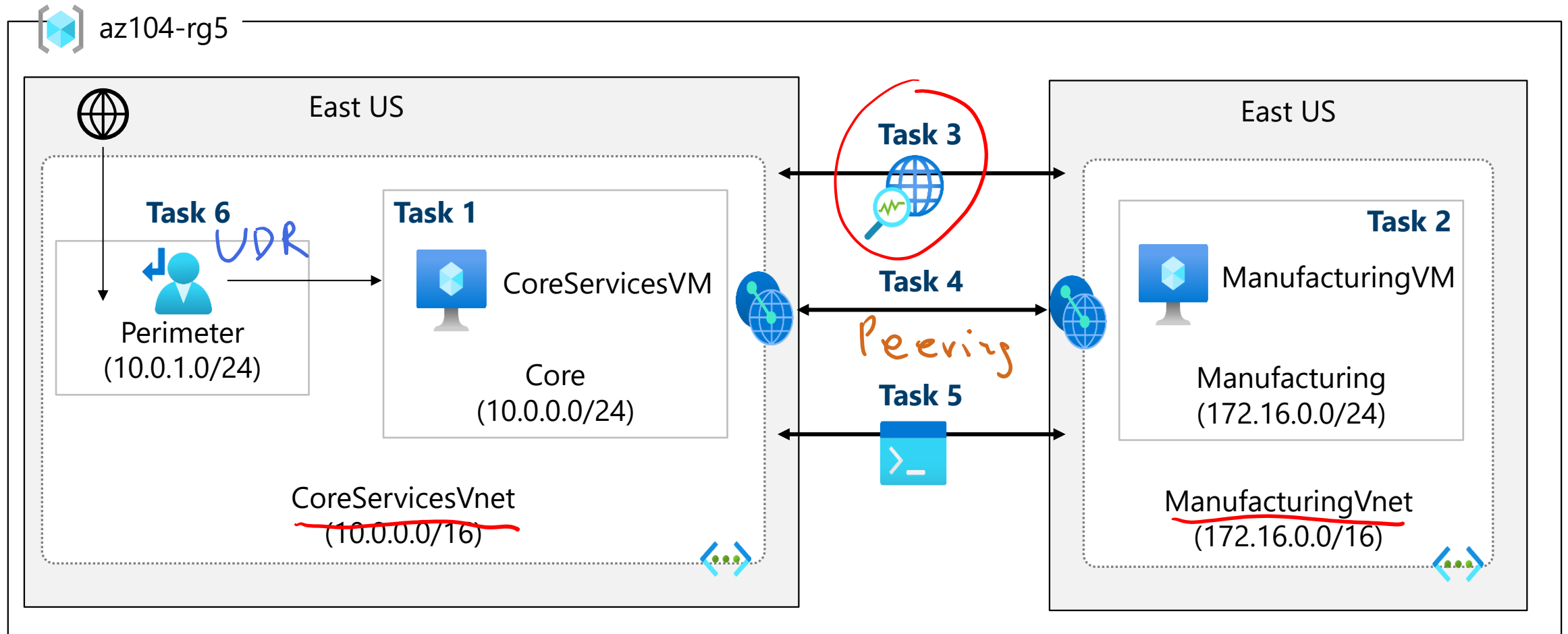
Reference modules

- [Manage and control traffic flow in your Azure deployment with routes](#)
- [Introduction to Azure Private Link](#)

Lab - Implement Intersite Connectivity



Lab 05 – Architecture diagram



End of presentation

