

Design and Implement Cross-VNet Connectivity



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Overview



Design for inter-VNet connectivity

VPN

Peering

Design for service chaining

Gateway transit



Relevant Exam AZ-700 Skills

Exam AZ-700: Designing and Implementing Microsoft Azure Networking Solutions – Skills Measured

Design and Implement Core Networking Infrastructure (20–25%)

Design and implement cross-VNet connectivity

- design service chaining, including gateway transit
- design VPN connectivity between VNets
- implement VNet peering

Inter-VNet Connectivity



VNet Connectivity Options

VNet-to-VNet VPN

More expensive option

Secure IPSec/IKEv2 tunnel

More administration

Key business scenario: security & compliance

Global VNet Peering

Less expensive option

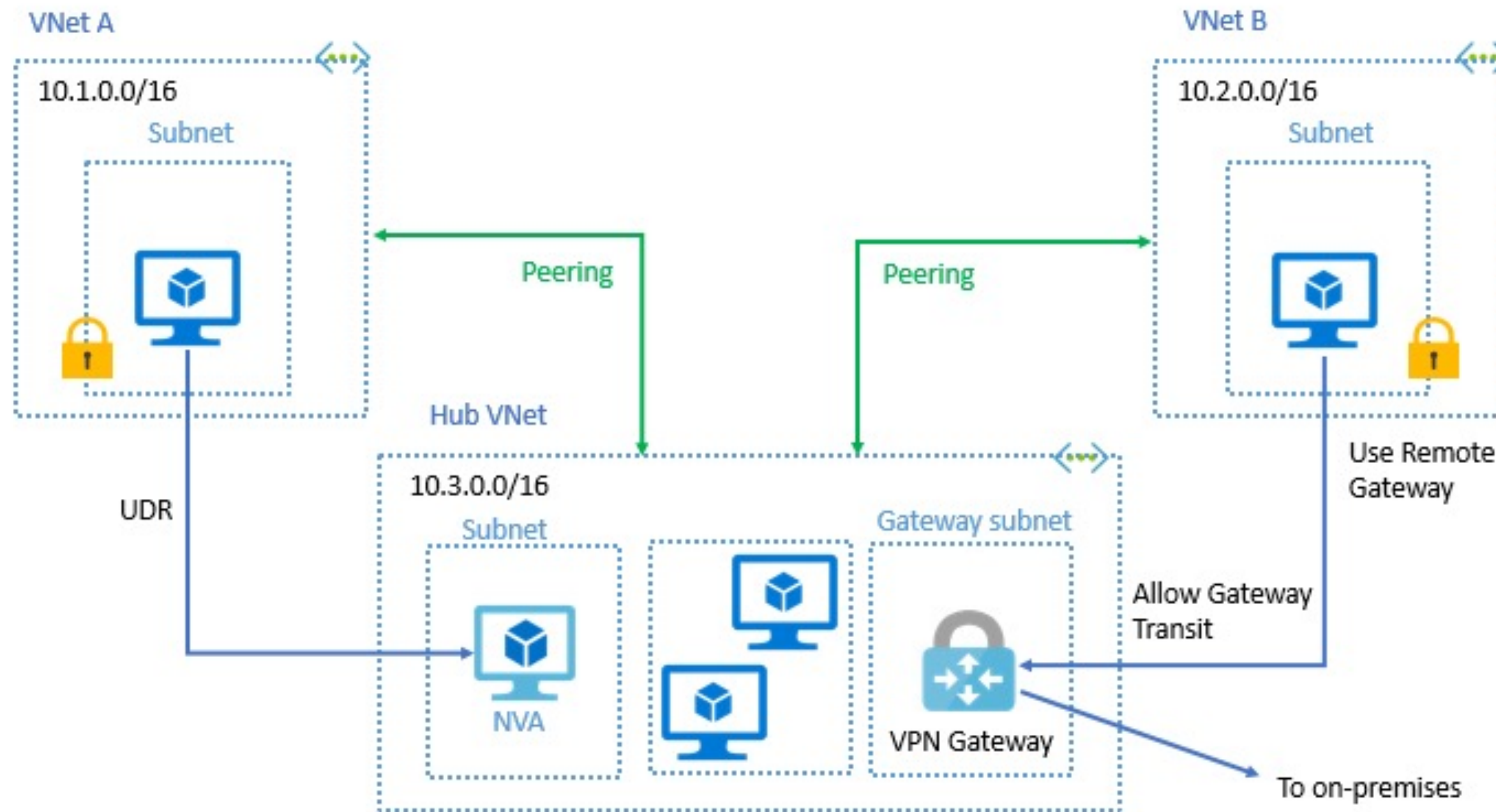
Unencrypted routing path

Less administration

Key business scenario: cost savings and administrative flexibility



Global VNet Peering Default Behavior

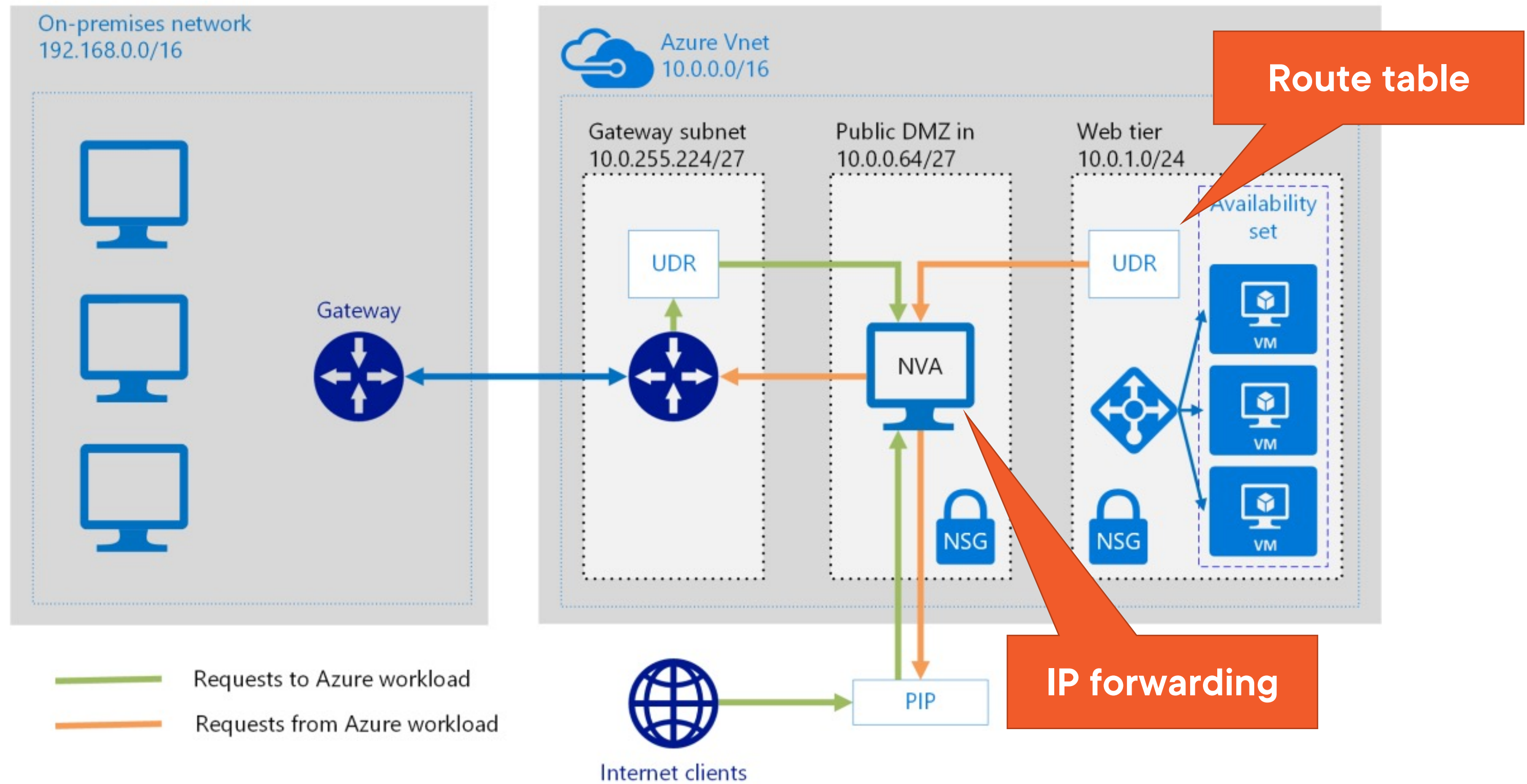


Name resolution

Transitivity

Global peering

User-Defined Routing



Network Virtual Appliance (NVA)



Demo



1

Show Azure Marketplace NVAs

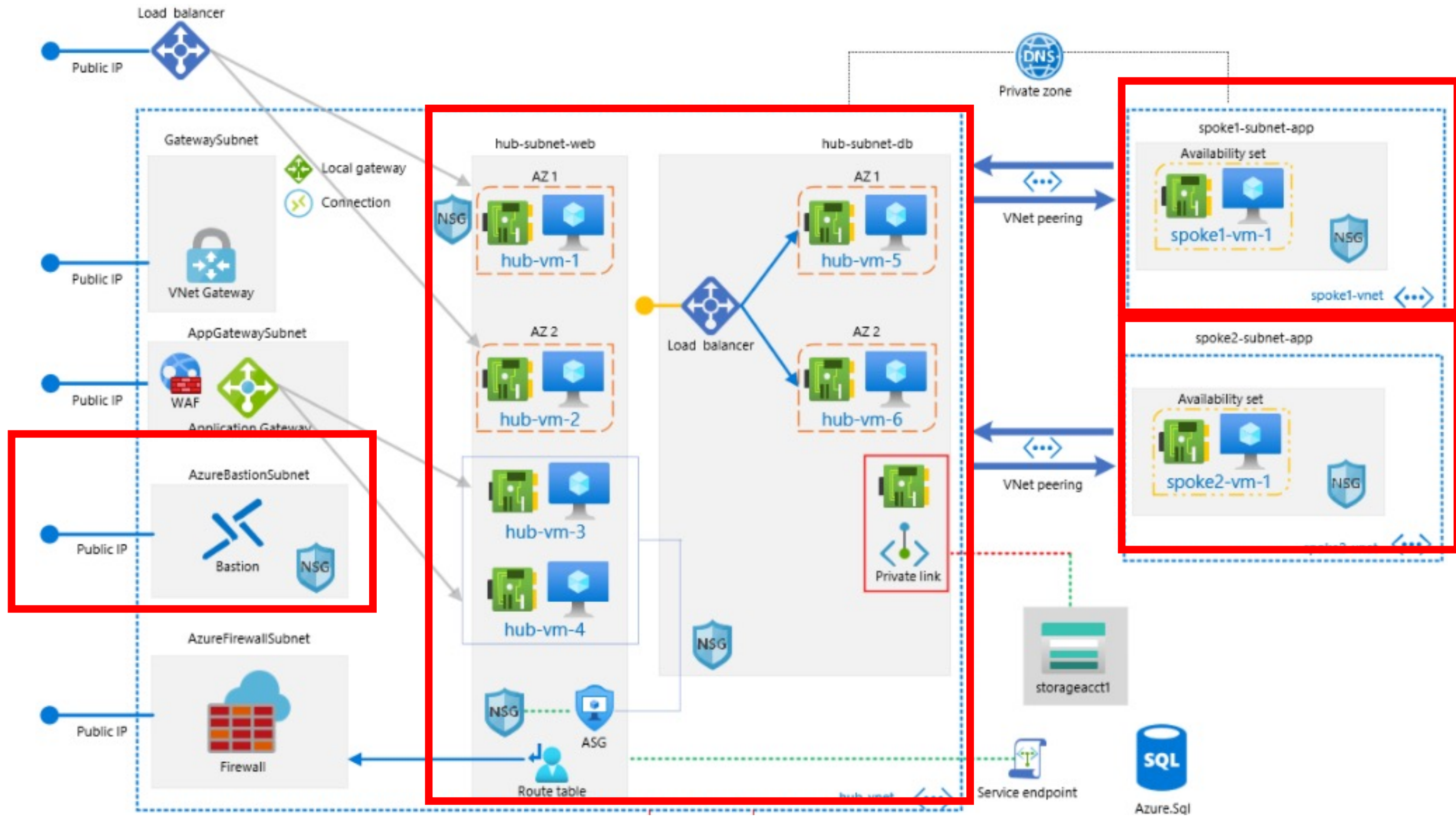
Deploy Azure Firewall



Service Chaining



Service Chaining



Demo



2

Deploy Bastion

Test chaining to from hub to spoke through Bastion host



Summary



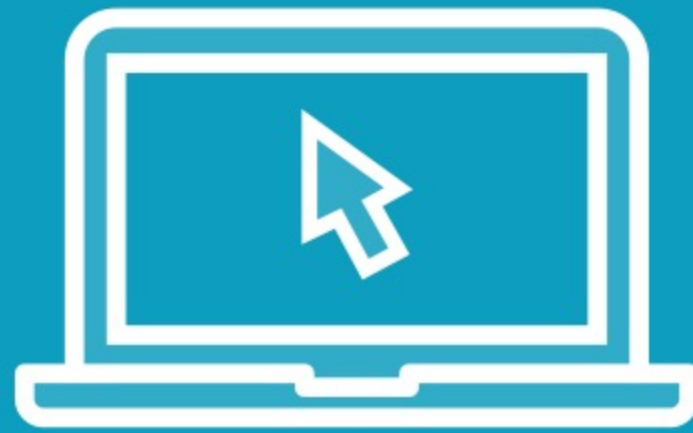
Check out Network Watcher for help with routing path testing

"But what if our staff isn't particularly strong on networking? We need a hub-spoke VNet architecture."

Next module: *Design and Implement an Azure Virtual WAN Architecture*



Demo



1

Deploy VNets with PowerShell and CLI

Demonstrate peering

Show Azure Marketplace NVAs

Deploy Azure Firewall



Demo



2

Deploy Bastion

Test chaining to from hub to spoke through Bastion host

