

Task 1: Provision the lab environment

az104-06-rg1

Resource group

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CreateManage viewDelete resource groupRefreshExport to CSVOpen queryAssign tagsMoveDeleteExport template

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Subscription (move) : Azure subscription 1

Subscription ID : 453194c6-9b5a-46f8-bf6e-6b5a4133ee3a

Tags (edit) : Click here to add tags

Deployments : 1 Succeeded

Location : East US

ResourcesRecommendations

Filter for any field...Type equals allLocation equals allAdd filter

Showing 1 to 18 of 18 records. Show hidden typesNo groupingList view

Name	Type	Location
az104-06-nic0	Network Interface	East US
az104-06-nic1	Network Interface	East US
az104-06-nic2	Network Interface	East US
az104-06-nic3	Network Interface	East US
az104-06-nsg01	Network security group	East US
az104-06-nsg2	Network security group	East US
az104-06-nsg3	Network security group	East US
az104-06-vm0	Virtual machine	East US
az104-06-vm0_OsDisk_1_1f3c37e0fe054a7f8164192422ad0d84	Disk	East US
az104-06-vm1	Virtual machine	East US

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Name	Type	Location
az104-06-vm0_OsDisk_1_1f3c37e0fe054a7f8164192422ad0d84	Disk	East US
az104-06-vm1	Virtual machine	East US
az104-06-vm1_OsDisk_1_fdcca546d85149d5beec27ff3a953723	Disk	East US
az104-06-vm2	Virtual machine	East US
az104-06-vm2_OsDisk_1_faa67946ac3946a69e7183ca1e576a98	Disk	East US
az104-06-vm3	Virtual machine	East US
az104-06-vm3_OsDisk_1_3db152a06d8b46c7a098faf191c00bb0	Disk	East US
az104-06-vnet01	Virtual network	East US
az104-06-vnet2	Virtual network	East US
az104-06-vnet3	Virtual network	East US

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Task 2: Configure the hub and spoke network topology

az104-06-vnet01 | Peerings

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↺ Refresh

↻ Sync

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Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peerings

Filter by name...

Peering status == all

<input type="checkbox"/> Name ↑↓	Peering status ↑↓	Peer ↑↓	Gateway transit ↑↓	
<input type="checkbox"/> az104-06-vnet01_to_az104-06-vnet2	Connected	az104-06-vnet2	Disabled	...
<input type="checkbox"/> az104-06-vnet01_to_az104-06-vnet3	Connected	az104-06-vnet3	Disabled	...

Task 3: Test transitivity of virtual network peering

From VM0 to VM2:

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Network Watcher | Connection troubleshoot ...

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Packet capture

Connection troubleshoot

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Usage + quotas

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Dagnostic logs

Traffic Analytics

<<

Azure subscription 1

Resource group *
az104-06-rg1

Source type *
Virtual machine

*Virtual machine
az104-06-vm0

Destination
☒ Select a virtual machine ☐ Specify manually

Resource group *
az104-06-rg1

Virtual machine * ⓘ
az104-06-vm2

Probe Settings

Preferred IP Version ⓘ

Protocol ⓘ
☒ TCP ☐ ICMP

Destination port * ⓘ
3389

Advanced settings

Check

Status
☒ Reachable

From VM0 to VM3

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NSG flow logs

Diagnostic logs

Traffic Analytics

Resource group *

az104-06-rg1

▼

Source type *

Virtual machine

▼

*Virtual machine

az104-06-vm0

▼

Destination

☒ Select a virtual machine ☐ Specify manually

Resource group *

az104-06-rg1

▼

Virtual machine * ⓘ

az104-06-vm3

▼

Probe Settings

Preferred IP Version ⓘ

▼

Protocol ⓘ

TCP ICMP

Destination port * ⓘ

3389

✓

▼ Advanced settings

Check

Status

✓ Reachable

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Usage + quotas

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NSG flow logs

Dagnostic logs

Traffic Analytics

Resource group *

az104-06-rg1

Source type *

Virtual machine

*Virtual machine

az104-06-vm2

Destination

Select a virtual machine

Specify manually

Resource group *

az104-06-rg1

Virtual machine * ⓘ

az104-06-vm3

Probe Settings

Preferred IP Version ⓘ

Protocol ⓘ

TCP

ICMP

Destination port * ⓘ

3389

Advanced settings

Check

Status

Unreachable

Task 4: Configure routing in the hub and spoke topology

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Dagnostic logs

Traffic Analytics

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Azure subscription 1

Resource group *
az104-06-rg1

Source type *
Virtual machine

*Virtual machine
az104-06-vm2

Destination
☒ Select a virtual machine ☐ Specify manually

Resource group *
az104-06-rg1

Virtual machine * ⓘ
az104-06-vm3

Probe Settings
Preferred IP Version ⓘ

Protocol ⓘ
TCP ICMP

Destination port * ⓘ
3389

Advanced settings

Check

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Reachable

Task 5: Implement Azure Load Balancer

Home > Microsoft.LoadBalancer-20221103163202 | Overview > az104-06-lb4

az104-06-lb4 | Frontend IP configuration

Load balancer

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Frontend IP configuration

Filter by name...

Name ↑↓	IP address ↑↓	Rules count ↑↓
az104-06-lb4-fe1	4.227.255.234 (az104-06-pip4)	1

← → ↺

⚠ Not Secure

4.227.255.234

Hello World from az104-06-vm0

← → ↺

⚠ Not Secure

4.227.255.234

Hello World from az104-06-vm1

Task 6: Implement Azure Application Gateway

az104-06-appgw5 | Frontend IP configurations

Application gateway

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Search frontend IP configurations

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Frontend IP configurations

Type	Status	Name	IP address	Associated listeners
Public	Configured	appGwPublicFrontendIp	20.172.234.16 (az104-06-pip5)	az104-06-appgw5-r1111
Private	Not configured	-	-	-

← → ↺

⚠ Not Secure | 20.172.234.16

Hello World from az104-06-vm2

← → ↺

⚠ Not Secure | 20.172.234.16

Hello World from az104-06-vm3