Lab 06 - Implement Traffic Management

- ## Task 1: Provision the lab environment

PS /home/krasi> $location = 'northeurope'

PS /home/krasi> $rgName = 'az104-06-rg1'

PS /home/krasi> New-AzResourceGroup -Name $rgName -Location $location

Confirm

Provided resource group already exists. Are you sure you want to update it?

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

ResourceGroupName : az104-06-rg1

Location   : northeurope

ProvisioningState : Succeeded

Tags   :

ResourceId   : /subscriptions/2aeafe0b-89b7-406a-9eea-89ec53737333/resourceGroups/az104-06-rg1

PS /home/krasi> New-AzResourceGroupDeployment `

>>   -ResourceGroupName $rgName `

>>   -TemplateFile $HOME/az104-06-vms-loop-template.json `

>>   -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json

New-AzResourceGroupDeployment: 2:18:21 PM - Error: Code=InvalidTemplateDeployment; Message=The template deployment 'az104-06-vms-loop-template' is not valid according to the validation procedure. The tracking id is 'e47b89f0-9741-4c06-8f48-54055b470d35'. See inner errors for details.

New-AzResourceGroupDeployment: 2:18:22 PM - Error: Code=QuotaExceeded; Message=Operation could not be completed as it results in exceeding approved Total Regional Cores quota. Additional details - Deployment Model: Resource Manager, Location: northeurope, Current Limit: 10, Current Usage: 4, Additional Required: 8, (Minimum) New Limit Required: 12. Submit a request for Quota increase at https://aka.ms/ProdportalCRP/#blade/Microsoft_Azure_Capacity/UsageAndQuota.ReactView/Parameters/%7B%22subscriptionId%22:%222aeafe0b-89b7-406a-9eea-89ec53737333%22,%22command%22:%22openQuotaApprovalBlade%22,%22quotas%22:[%7B%22location%22:%22northeurope%22,%22providerId%22:%22Microsoft.Compute%22,%22resourceName%22:%22cores%22,%22quotaRequest%22:%7B%22properties%22:%7B%22limit%22:12,%22unit%22:%22Count%22,%22name%22:%7B%22value%22:%22cores%22%7D%7D%7D%7D]%7D by specifying parameters listed in the 'Details' section for deployment to succeed. Please read more about quota limits at https://docs.microsoft.com/en-us/azure/azure-supportability/regional-quota-requests

New-AzResourceGroupDeployment: The deployment validation failed

PS /home/krasi> (Get-AzLocation).Location

eastus

eastus2

southcentralus

westus2

westus3

australiaeast

southeastasia

northeurope

swedencentral

uksouth

westeurope

centralus

southafricanorth

centralindia

eastasia

japaneast

koreacentral

canadacentral

francecentral

germanywestcentral

norwayeast

switzerlandnorth

uaenorth

brazilsouth

eastus2euap

qatarcentral

asia

asiapacific

australia

brazil

canada

europe

france

germany

global

india

japan

korea

norway

singapore

southafrica

switzerland

unitedstates

northcentralus

westus

centraluseuap

westcentralus

southafricawest

australiacentral

australiacentral2

australiasoutheast

japanwest

koreasouth

southindia

westindia

canadaeast

francesouth

germanynorth

norwaywest

switzerlandwest

ukwest

uaecentral

brazilsoutheast

PS /home/krasi> $location = 'westeurope'

PS /home/krasi> New-AzResourceGroup -Name $rgName -Location $location

Confirm

Provided resource group already exists. Are you sure you want to update it?

[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y

New-AzResourceGroup: Invalid resource group location 'westeurope'. The Resource group already exists in location 'northeurope'.

StatusCode: 409

ReasonPhrase: Conflict

OperationID : 9dbcb2b1-588c-4fd7-8ef9-a3e0c9f5301a

```
PS /home/krasi> Remove-AzResourceGroup -Name "az104-06-rg1" -Force

True

PS /home/krasi>  $location = 'westeurope'

PS /home/krasi>  $rgName = 'az104-06-rg1'

PS /home/krasi> New-AzResourceGroupDeployment `

>>    -ResourceGroupName $rgName `

>>    -TemplateFile $HOME/az104-06-vms-loop-template.json `

>>    -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json

New-AzResourceGroupDeployment: 2:25:50 PM - Error: Code=ResourceGroupNotFound; Message=Resource group 'az104-06-rg1' could not be found.

New-AzResourceGroupDeployment: The deployment validation failed

PS /home/krasi>  New-AzResourceGroup -Name $rgName -Location $location


ResourceGroupName : az104-06-rg1

Location        : westeurope

ProvisioningState : Succeeded

Tags            :

ResourceId      : /subscriptions/2aeafe0b-89b7-406a-9eea-89ec53737333/resourceGroups/az104-06-rg1



PS /home/krasi> New-AzResourceGroupDeployment `

>>    -ResourceGroupName $rgName `

>>    -TemplateFile $HOME/az104-06-vms-loop-template.json `

>>    -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json


DeploymentName        : az104-06-vms-loop-template

ResourceGroupName     : az104-06-rg1

ProvisioningState     : Succeeded

Timestamp        : 3/24/2023 2:30:31 PM

Mode            : Incremental

TemplateLink      :

Parameters       :

            Name       Type          Value

            ==============  ========================  ==========
```

```
           vmSize       String            "Standard_D2s_v3"

           vmName       String            "az104-06-vm"

           vmCount      Int             4

           adminUsername   String            "Student"

           adminPassword   SecureString         null


Outputs         :

DeploymentDebugLogLevel :




PS /home/krasi> $rgName = 'az104-06-rg1'

PS /home/krasi> $location = (Get-AzResourceGroup -ResourceGroupName $rgName).location

PS /home/krasi> $vmNames = (Get-AzVM -ResourceGroupName $rgName).Name

PS /home/krasi>

PS /home/krasi> foreach ($vmName in $vmNames) {

>>   Set-AzVMExtension `

>>   -ResourceGroupName $rgName `

>>   -Location $location `

>>   -VMName $vmName `

>>   -Name 'networkWatcherAgent' `

>>   -Publisher 'Microsoft.Azure.NetworkWatcher' `

>>   -Type 'NetworkWatcherAgentWindows' `

>>   -TypeHandlerVersion '1.4'

>> }



RequestId IsSuccessStatusCode StatusCode ReasonPhrase

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           True       OK OK

           True       OK OK

           True       OK OK

           True       OK OK



PS /home/krasi>
```
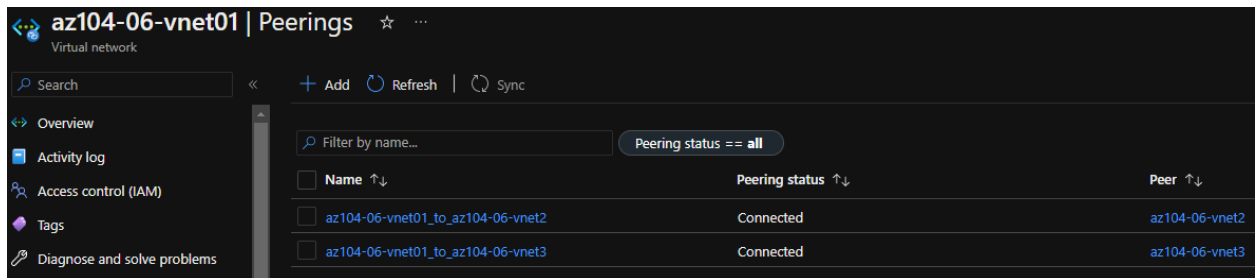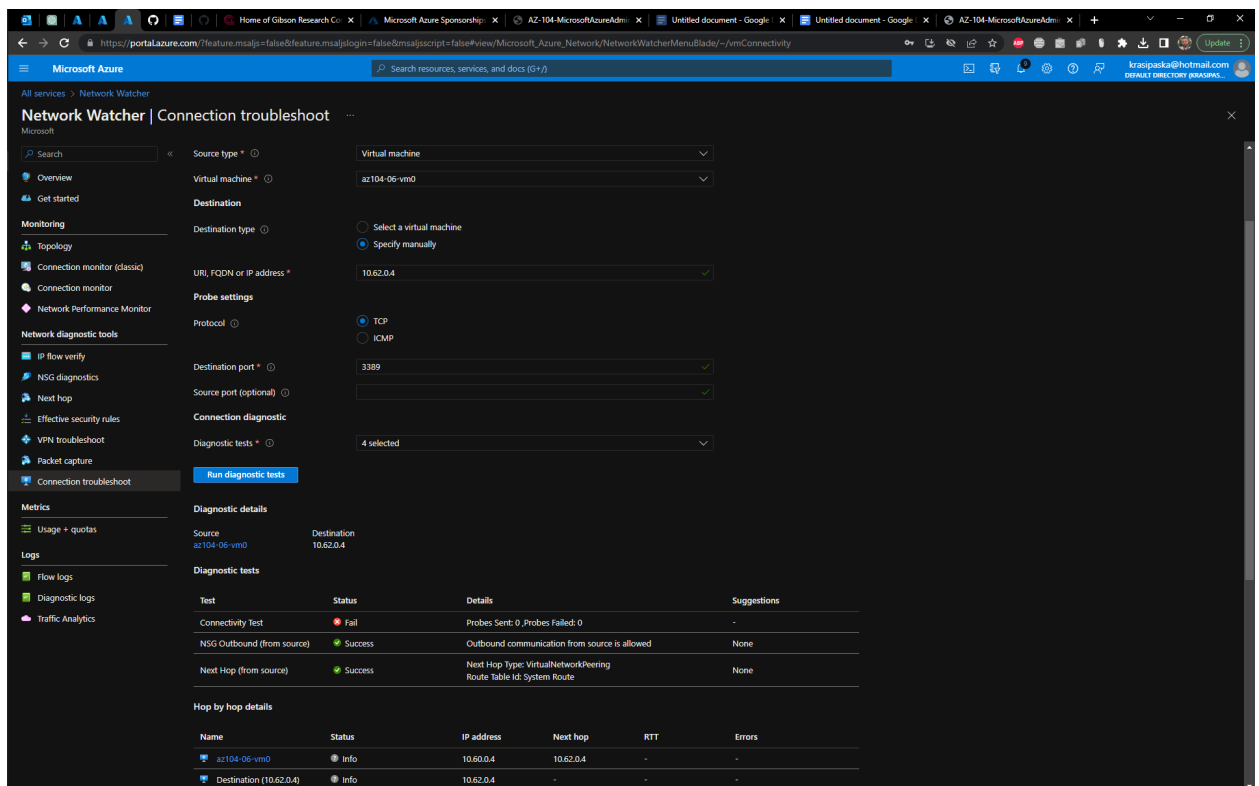
- Task 2: Configure the hub and spoke network topology

- Task 3: Test transitivity of virtual network peering

FAILED

5. Click Check and wait until results of the connectivity check are returned. Verify that the status is Reachable

- Task 4: Configure routing in the hub and spoke topology
- Task 5: Implement Azure Load Balancer
- Task 6: Implement Azure Application Gateway