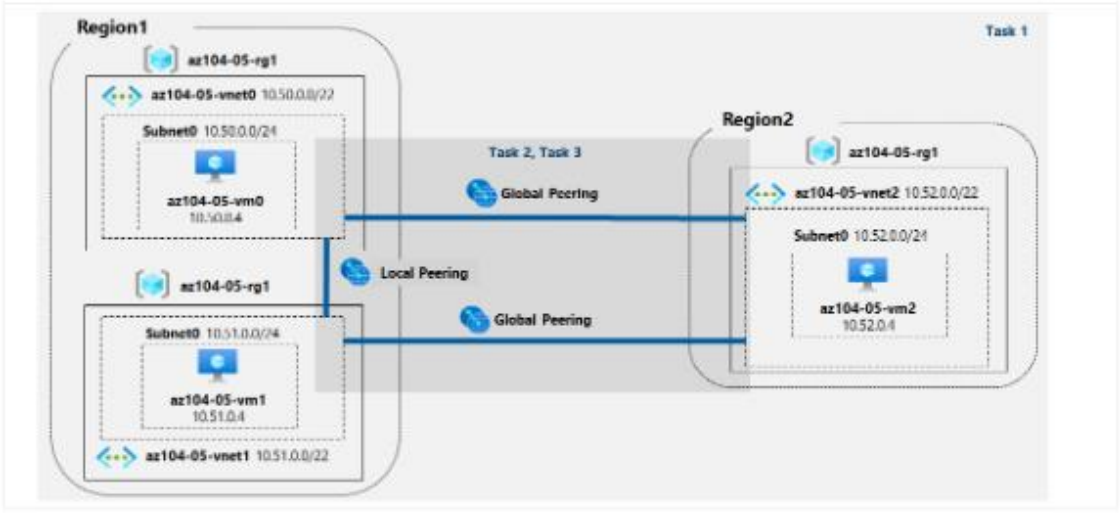
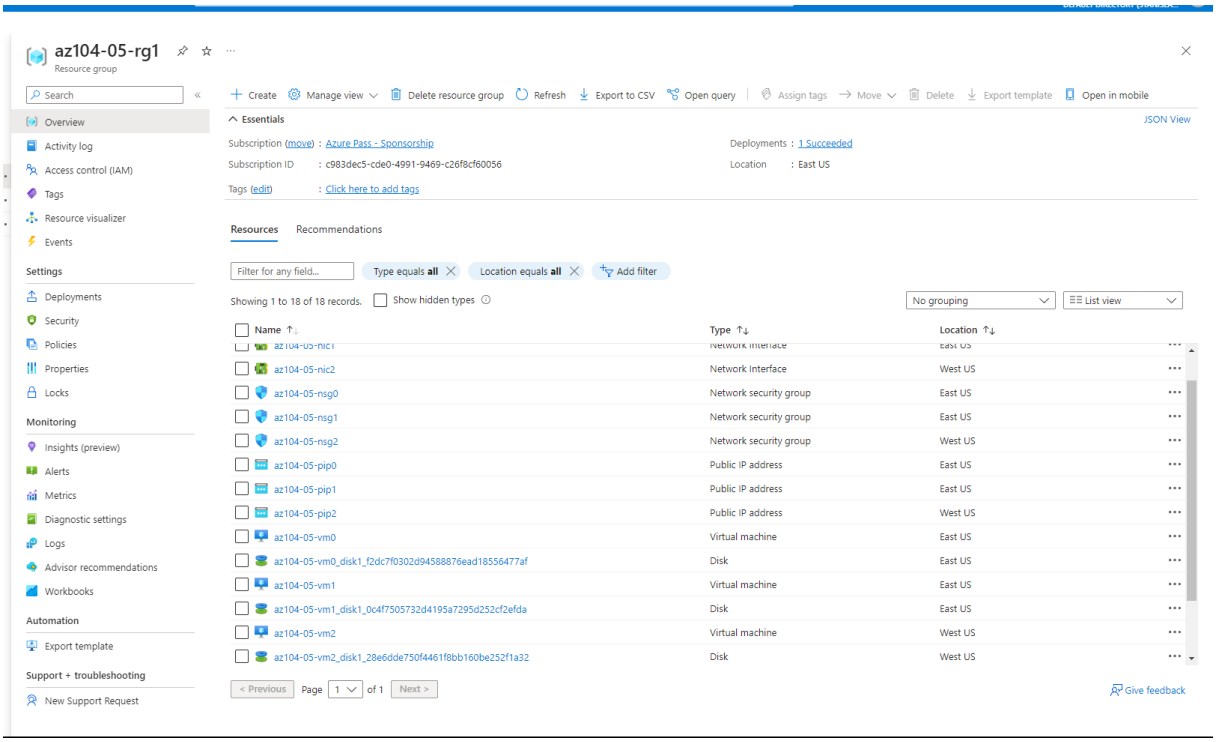
Lab 05 - Implement Intersite Connectivity

Architecture diagram

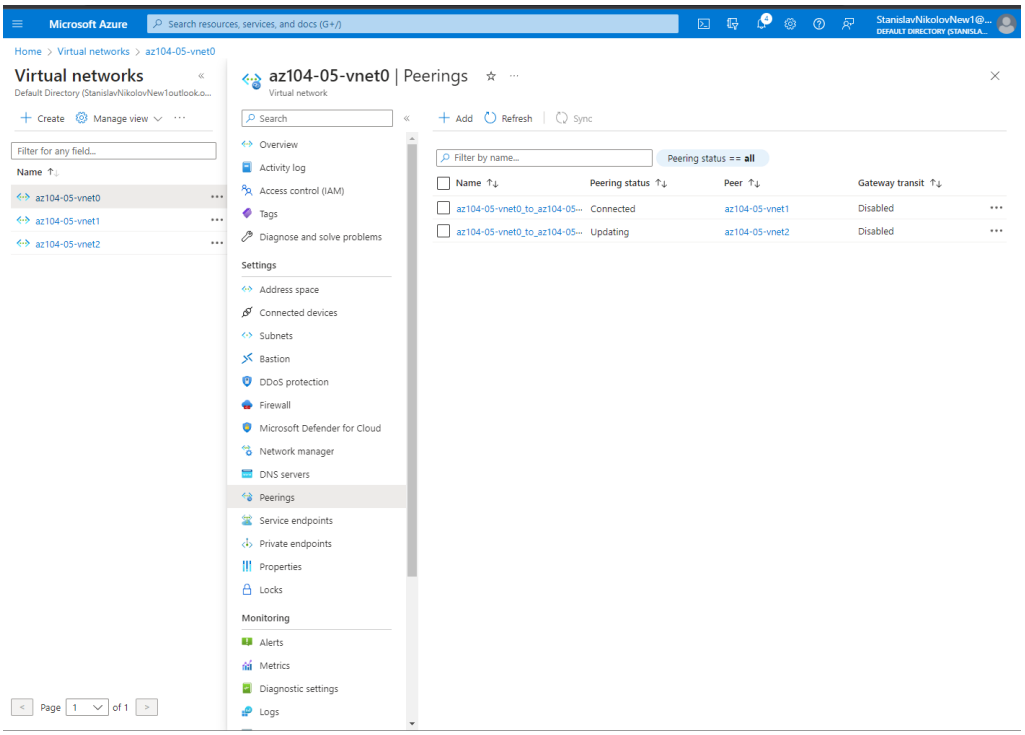


- Task 1: Provision the lab environment.
    - In this task, you will deploy three virtual machines, each into a separate virtual network, with two of them in the same Azure region and the third one in another Azure region.

```
PS /home/stanislav> $location1 = 'eastus'
PS /home/stanislav> $location2 = 'westus'
PS /home/stanislav> $rgName = 'az104-05-rg1'
PS /home/stanislav> New-AzResourceGroup -Name $rgName -Location $location1

ResourceGroupName : az104-05-rg1
Location          : eastus
ProvisioningState : Succeeded
Tags              :
ResourceId        : /subscriptions/c983dec5-cde0-4991-9469-c26f8cf60056/resourceGroups/az104-05-rg1


PS /home/stanislav> New-AzResourceGroupDeployment `                                                    >>    -ResourceGroupName $rgName `
>>    -TemplateFile $HOME/az104-05-vnetvm-loop-template.json `
>>    -TemplateParameterFile $HOME/az104-05-vnetvm-loop-parameters.json `
>>    -location1 $location1 `
>>    -location2 $location2

DeploymentName          : az104-05-vnetvm-loop-template
ResourceGroupName       : az104-05-rg1
ProvisioningState       : Succeeded
Timestamp               : 3/23/2023 6:13:31 PM
Mode                    : Incremental
TemplateLink            :
Parameters              :
                          Name             Type                       Value
                          ===============  =========================  ==========
                          vmSize           String                     "Standard_D2s_v3"
                          location1        String                     "eastus"
                          location2        String                     "westus"
                          adminUsername    String                     "Student"
                          adminPassword    SecureString               null

Outputs                 :
DeploymentDebugLogLevel :
```

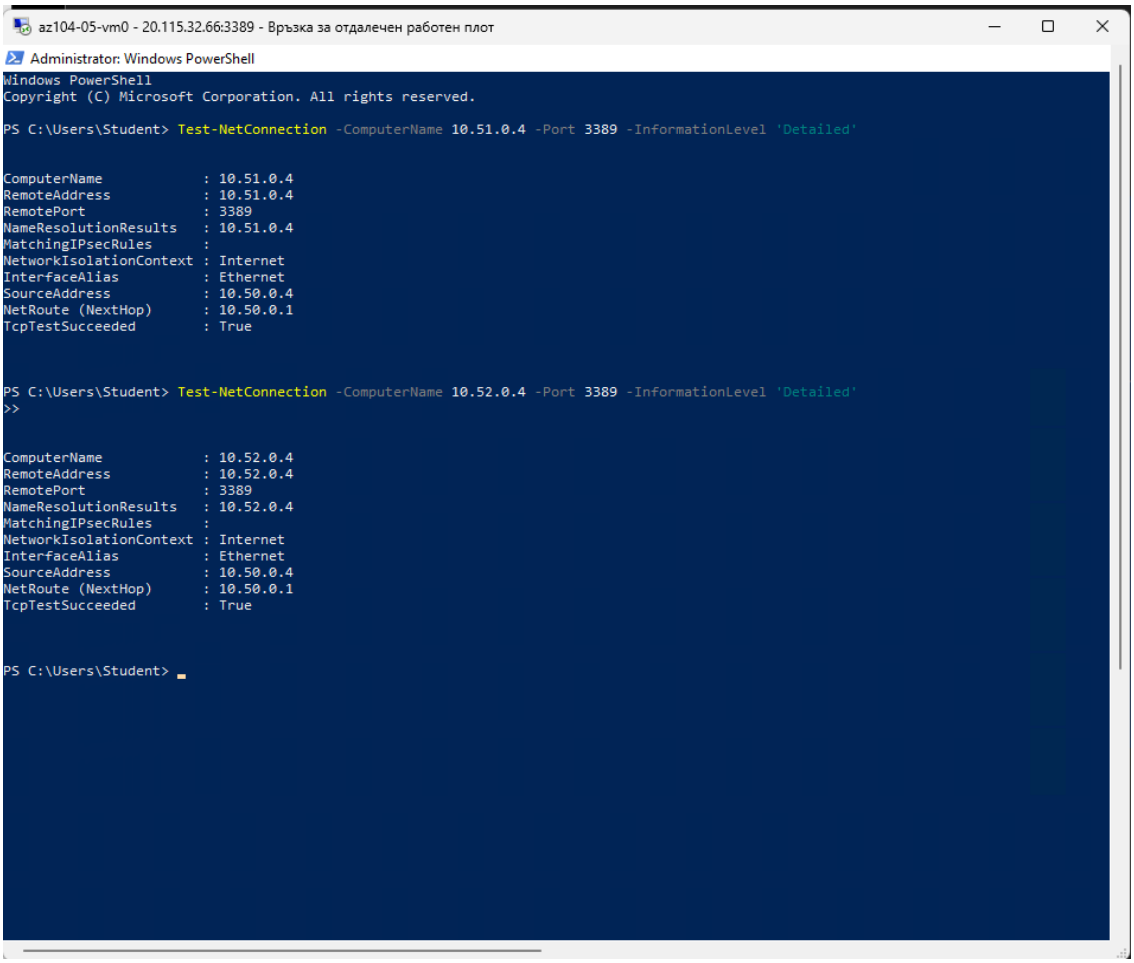


- Task 2: Configure local and global virtual network peering.
  - In this task, you will configure local and global peering between the virtual networks you deployed in the previous tasks.

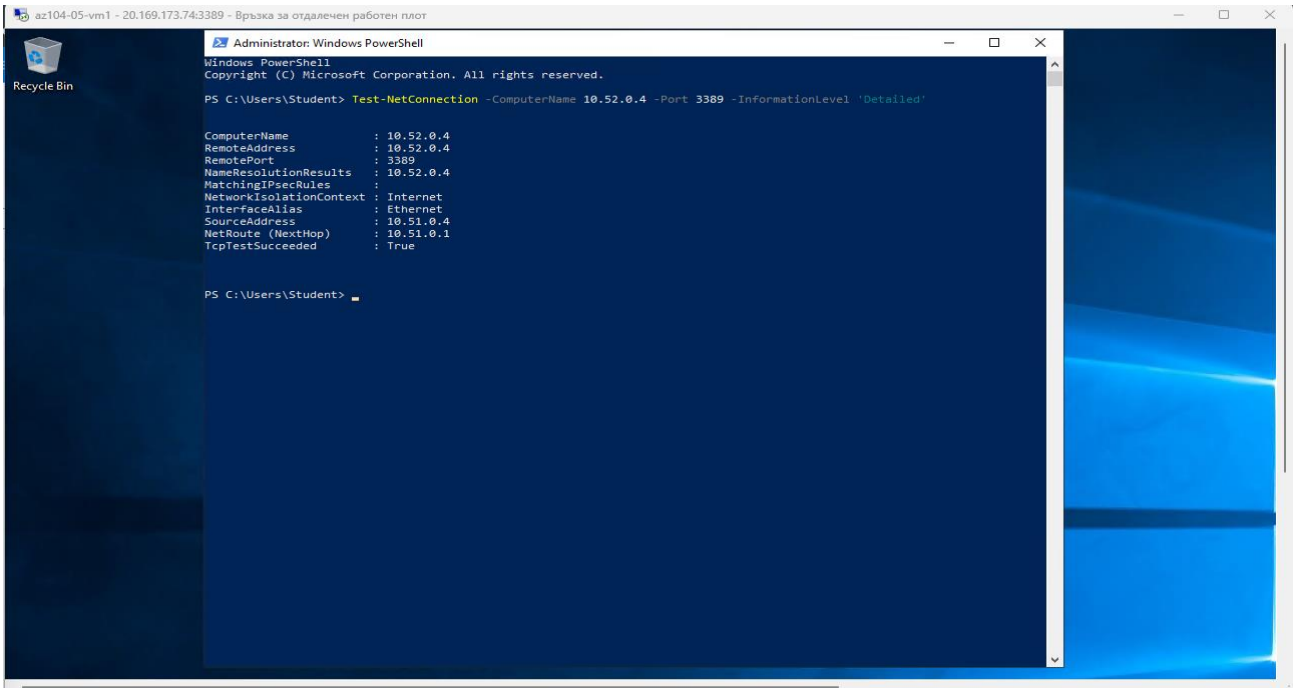


Creating a peering for from vnet0 to vnet1 and from vnet0 to vnet2.

- Task 3: Test intersite connectivity.
    - In this task, you will test connectivity between virtual machines on the three virtual networks that you connected via local and global peering in the previous task.



    - In the Windows PowerShell console window from the vm0, we are running the following to test connectivity to az104-05-vm1 and vm2.



- In the Windows PowerShell console window from the vm1, we are running the following to test connectivity to az104-05-vm2.