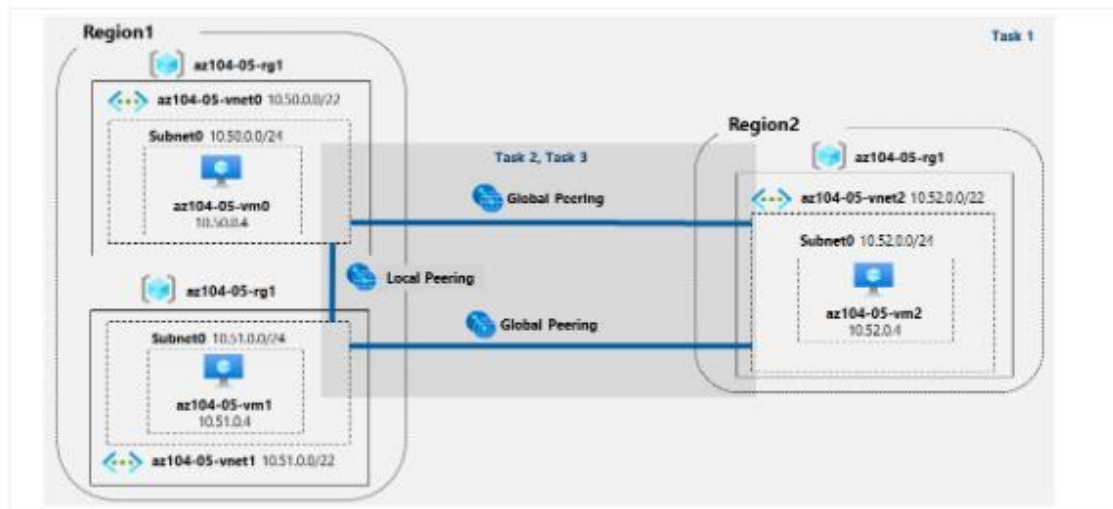


# Lab 05 - Implement Intersite Connectivity

## 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 `
>> -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 :
```

**az104-05-rg1**  
Resource group

Search resources, services, and docs (G+Y)

+ Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Delete Export template Open in mobile

**Overview**

Activity log  
Access control (IAM)  
Tags  
Resource visualizer  
Events

**Settings**

Deployments  
Security  
Policies  
Properties  
Locks

**Monitoring**

Insights (preview)  
Alerts  
Metrics  
Diagnostic settings  
Logs  
Advisor recommendations  
Workbooks

**Automation**

Export template  
Support + troubleshooting  
New Support Request

**Essentials**

Subscription (move) : [Azure Pass - Sponsorship](#)  
Subscription ID : c983dec5-cde0-4991-9469-c26f8cf60056  
Deployments : 1 Succeeded  
Location : East US  
Tags (edit) : [Click here to add tags](#)

**Resources** Recommendations

Filter for any field... Type equals all Location equals all Add filter

Showing 1 to 18 of 18 records. Show hidden types

Name	Type	Location
az104-05-nic1	Network interface	East US
az104-05-nic2	Network interface	West US
az104-05-nsg0	Network security group	East US
az104-05-nsg1	Network security group	East US
az104-05-nsg2	Network security group	West US
az104-05-pip0	Public IP address	East US
az104-05-pip1	Public IP address	East US
az104-05-pip2	Public IP address	West US
az104-05-vm0	Virtual machine	East US
az104-05-vm0_disk1_f2dc70302d94588876ead18556477af	Disk	East US
az104-05-vm1	Virtual machine	East US
az104-05-vm1_disk1_0c4f7505732d4195a7295d252cf2efda	Disk	East US
az104-05-vm2	Virtual machine	West US
az104-05-vm2_disk1_28e6dde750f4461f8bb160be252f1a32	Disk	West US

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Give feedback

- 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.

**Microsoft Azure**

Search resources, services, and docs (G+Y)

Home > Virtual networks > az104-05-vnet0

**Virtual networks**

Default Directory (StanislavNikolovNew1@outlook.com)

+ Create Manage view

Filter for any field...

Name

- az104-05-vnet0
- az104-05-vnet1
- az104-05-vnet2

**az104-05-vnet0 | Peering**

Virtual network

+ Add Refresh Sync

Filter by name... Peering status == all

Name	Peering status	Peer	Gateway transit
az104-05-vnet0_to_az104-05-vnet1	Connected	az104-05-vnet1	Disabled
az104-05-vnet0_to_az104-05-vnet2	Updating	az104-05-vnet2	Disabled

Settings

- Address space
- Connected devices
- Subnets
- Bastion
- DDoS protection
- Firewall
- Microsoft Defender for Cloud
- Network manager
- DNS servers
- Peering**
- Service endpoints
- Private endpoints
- Properties
- Locks

Monitoring

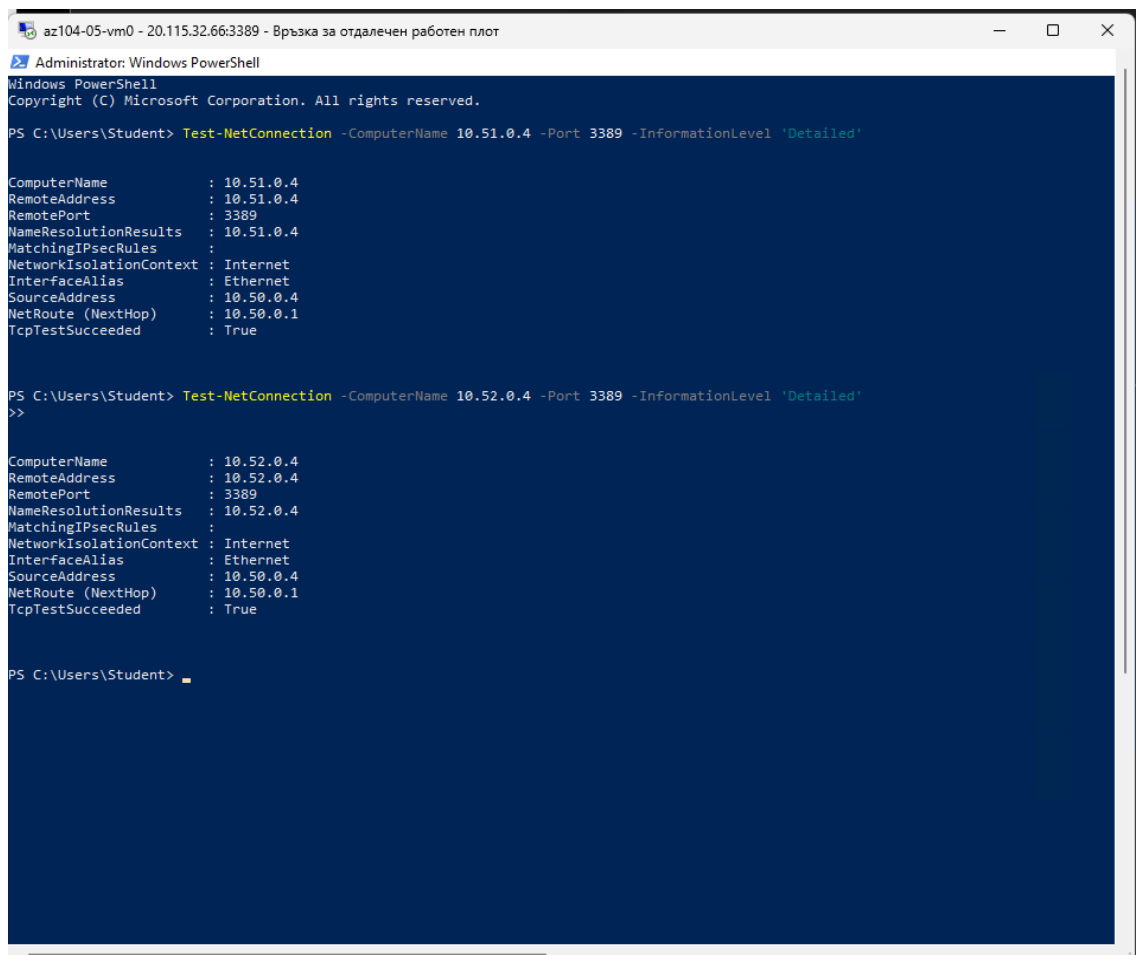
- Alerts
- Metrics
- Diagnostic settings
- Logs

Page 1 of 1

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.



```
az104-05-vm0 - 20.115.32.66:3389 - Връзка за отдалечен работен плот
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Student> Test-NetConnection -ComputerName 10.51.0.4 -Port 3389 -InformationLevel 'Detailed'

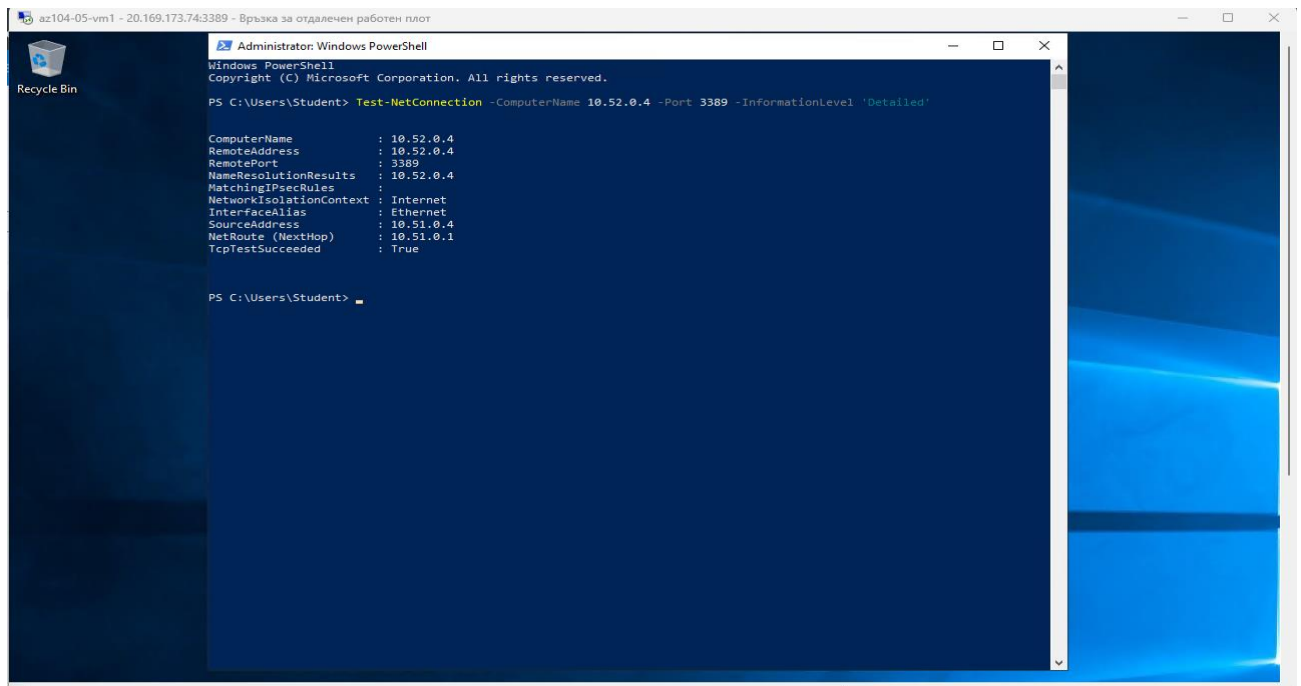
ComputerName           : 10.51.0.4
RemoteAddress           : 10.51.0.4
RemotePort              : 3389
NameResolutionResults   : 10.51.0.4
MatchingIPsecRules      :
NetworkIsolationContext : Internet
InterfaceAlias          : Ethernet
SourceAddress           : 10.50.0.4
NetRoute (NextHop)      : 10.50.0.1
TcpTestSucceeded        : True

PS C:\Users\Student> Test-NetConnection -ComputerName 10.52.0.4 -Port 3389 -InformationLevel 'Detailed'
>>

ComputerName           : 10.52.0.4
RemoteAddress           : 10.52.0.4
RemotePort              : 3389
NameResolutionResults   : 10.52.0.4
MatchingIPsecRules      :
NetworkIsolationContext : Internet
InterfaceAlias          : Ethernet
SourceAddress           : 10.50.0.4
NetRoute (NextHop)      : 10.50.0.1
TcpTestSucceeded        : True

PS C:\Users\Student>
```

- 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.