

Home >

### All resources

Centennial College (CentennialCollegeDU.onmicrosoft.com)


+ Create Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Type equals all Location equals all Add filter

Unsecure resources Recommendations

No grouping List view

Name	Type	Resource group	Location	Subscription
------	------	----------------	----------	--------------



No resources match your filters

Try changing or clearing your filters.

[Clear filters](#)

[Learn more](#)

```
PowerShell
PS /home/ayse> $location = 'eastus'
PS /home/ayse> $rgName = 'az104-06-rg1'
PS /home/ayse> New-AzResourceGroup -Name $rgName -Location $location

ResourceGroupName : az104-06-rg1
Location           : eastus
ProvisioningState  : Succeeded
Tags               :
ResourceId         : /subscriptions/ae594e61-d56d-4c68-8a68-49a6291e74c2/resourceGroups/az104-06-rg1

PS /home/ayse> New-AzResourceGroupDeployment `
>> -ResourceGroupName $rgName `
>> -TemplateFile $HOME/az104-06-vms-loop-template.json `
>> -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json
New-AzResourceGroupDeployment: Cannot retrieve the dynamic parameters for the cmdlet. Cannot find path '/home/ayse/az104-06-vms-loop-template.json' because it does not exist.
PS /home/ayse> New-AzResourceGroupDeployment `
>> -ResourceGroupName $rgName `
>> -TemplateFile $HOME/az104-06-vms-loop-template.json `
>> -TemplateParameterFile $HOME/az104-06-vms-loop-parameters.json
]
```

```

PS /home/ayse> New-AzResourceGroupDeployment
>> -ResourceGroupName $rgName
>> -TemplateFile $HOME/az104-06-vm-loop-template.json
>> -TemplateParameterFile $HOME/az104-06-vm-loop-parameters.json

DeploymentName      : az104-06-vm-loop-template
ResourceGroupName   : az104-06-rg1
ProvisioningState    : Succeeded
Timestamp           : 11/4/2022 7:00:49 PM
Mode                : Incremental
TemplateLink         :
Parameters           :
                    Name      Type      Value
                    =====
vmSize              String    "Standard_DS1_v2"
vmName              String    "az104-06-vm"
vmCount             Int       4
adminUsername        String    "Student"
adminPassword        SecureString null

Outputs             :
DeploymentDebugLogLevel :

```

PS /home/ayse>

Home > All resources

Central Intelligence Agency (Central Intelligence Agency)

+ Create Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals Resource group equals Type equals Location equals Add filter

0 Unsecure resources 0 Recommendations

Name	Type	Resource group	Location	Subscription
az104-06-nic0	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nic1	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nic2	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nic3	Network Interface	az104-06-rg1	East US	Azure for Students
az104-06-nsg01	Network security group	az104-06-rg1	East US	Azure for Students
az104-06-nsg2	Network security group	az104-06-rg1	East US	Azure for Students
az104-06-nsg3	Network security group	az104-06-rg1	East US	Azure for Students
az104-06-vm0	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm0_OsDisk_1_0e3a1e1f1994c1b0a55d08d37e2a	Disk	AZ104-06-rg1	East US	Azure for Students
az104-06-vm1	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm1_Disk1_7a687a0c705471a504cd1170f22a	Disk	AZ104-06-rg1	East US	Azure for Students
az104-06-vm2	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm2_Disk1_5b47f90e115947e86db0b001130e60c	Disk	AZ104-06-rg1	East US	Azure for Students
az104-06-vm3	Virtual machine	az104-06-rg1	East US	Azure for Students
az104-06-vm3_Disk1_e91f9b3fe79347d05e3002234e0209	Disk	AZ104-06-rg1	East US	Azure for Students
az104-06-vnet01	Virtual network	az104-06-rg1	East US	Azure for Students
az104-06-vnet02	Virtual network	az104-06-rg1	East US	Azure for Students
az104-06-vnet03	Virtual network	az104-06-rg1	East US	Azure for Students
NetworkWatcher_public	Network Watcher	NetworkWatcherRG	East US	Azure for Students

## Task 2 hub and spoke network topology

Home > az104-06-vnet01

## az104-06-vnet01 | Peerings

Virtual network

Search

+ Add Refresh Sync

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Address space

Connected devices

Subnets

Bastion

DDoS protection

Firewall

Microsoft Defender for Cloud

Network manager

DNS servers

Peerings

Service endpoints

Private endpoints

Properties

Locks

Filter by name...

Peering status == all

<input type="checkbox"/>	Name ↑↓	Peering status ↑↓	Peer ↑↓	Gateway transit ↑↓	
<input type="checkbox"/>	az104-06-vnet01_to_az104-0...	Connected	az104-06-vnet2	Disabled	...
<input type="checkbox"/>	az104-06-vnet1_to_az104-06...	Connected	az104-06-vnet3	Disabled	...

Task3 test transitivity of virtual network peering

## Network Watcher | Connection troubleshoot

Microsoft

Search

Overview

Get started

Monitoring

Topology

Connection monitor (classic)

Connection monitor

Network Performance Monitor

Network diagnostic tools

IP flow verify

NSG diagnostics

Next hop

Effective security rules

VPN troubleshoot

Packet capture

Connection troubleshoot

Metrics

Usage + quotas

Logs

Destination port \* ⓘ

3389

Advanced settings

Check

Status

Unreachable

Agent extension version

1.4

Source virtual machine

az104-06-vm2

Grid view Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
az104-06-vm2	10.62.0.4	Unreachable	10.63.0.4	-
Destination (10...	10.63.0.4	Success	-	-

Probes Sent

30

Probes Failed

30

Task 4 configure routing in the hub and spoke topology

## Run Command Script



RunPowerShellScript

 Script execution complete

PowerShell Script

```
1 Install-WindowsFeature RemoteAccess -IncludeManagementTools
```

Run

Output

Success	Restart Needed	Exit Code	Feature Result
True	No	Success	{Remote Access}

# Run Command Script

RunPowerShellScript

 Script execution complete

## PowerShell Script

```
1 Install-WindowsFeature -Name Routing -IncludeManagementTools -IncludeAllSubFeatu
2
3 Install-WindowsFeature -Name "RSAT-RemoteAccess-Powershell"
4
5 Install-RemoteAccess -VpnType RoutingOnly
6
7 Get-NetAdapter | Set-NetIPInterface -Forwarding Enabled
```

Run

## Output

```
Success Restart Needed Exit Code      Feature Result
-----
True      No                Success      {RAS Connection Manager Administration Kit...
True      No                NoChangeNeeded {}
```

Home > MicrosoftRouteTable-20221104162340 | Overview > az104-06-rt23

 **az104-06-rt23** | Routes ☆ ...  
Route table

< + Add Refresh Give feedback

Overview  
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems

### Settings

Configuration  
Routes  
Subnets

Name ↑↓	Address prefix ↑↓	Next hop type ↑↓
az104-06-route-vnet2-to-vnet3	10.63.0.0/20	VirtualAppliance

Home >



## Microsoft.RouteTable-20221104163152 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete



Deployment name: Microsoft.RouteTable-20221104163152  
Subscription: [Azure for Students](#)  
Resource group: [az104-06-rg1](#)

Start time: 11/4/2022, 4:33:05 PM

Correlation ID: [8812776d-bb0a-417c-aec3-0f1a48681028](#)

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Home > Network Watcher

## Network Watcher | Connection troubleshoot

Microsoft

Search

3389

Advanced settings

Check

Status

✓ Reachable

Agent extension version

1.4

Source virtual machine

[az104-06-vm3](#)

Grid view

Topology view

Hops

Name	IP address	Status	Next hop IP address	RTT
<a href="#">az104-06-vm3</a>	10.63.0.4	✓	10.60.0.4	-
<a href="#">az104-06-nic0</a>	10.60.0.4	✓	10.62.0.4	-
<a href="#">az104-06-nic2</a>	10.62.0.4	✓	-	-

Average Latency in milliseconds

3

Minimum Latency in milliseconds

3

## Task 5 implement Azure Load Balancer