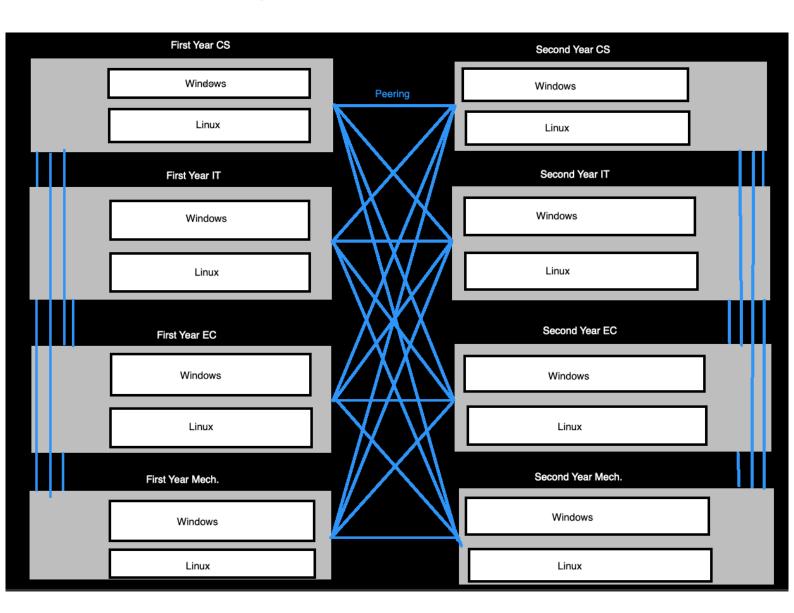# Project Assignment

College Lab Management System in Cloud

Creation

Engineering college computer lab in Azure Cloud using Infrastructure as code (IaaC) in PowerShell scripting. The code have below components:

- The computer Lab for first year, second year, third year and fourth year and in each year a separate lab for EC, CS, IT and Mechanical. Each Lab should have 2 computers (One Linux and one Windows).

- The connectivity between all the virtual networks so that each computers can access the computer from others networks.

- 4 network security group which is applied on each subnets of that year. Allows inbound and outbound traffic only on port 3389 and 22.

- A standard storage account and boot diagnostics enabled in all the computers using same storage account.

Reference Diagram

Code

```
#Connectiing
Connect-AzAccount

#Resouce group creation
New-AzResourceGroup -Name firstyear-cs-rg-01 -Location 'East US'
New-AzResourceGroup -Name firstyear-it-rg-01 -Location 'East US 2'
New-AzResourceGroup -Name firstyear-ec-rg-01 -Location 'Australia Central'
New-AzResourceGroup -Name firstyear-mech-rg-01 -Location 'Australia East'

New-AzResourceGroup -Name secondyear-cs-rg-01 -Location 'Australia Southeast'
New-AzResourceGroup -Name secondyear-it-rg-01 -Location 'Brazil South'
New-AzResourceGroup -Name secondyear-ec-rg-01 -Location 'Canada Central'
New-AzResourceGroup -Name secondyear-mech-rg-01 -Location 'Canada East'

New-AzResourceGroup -Name thirdyear-cs-rg-01 -Location 'Korea South'
New-AzResourceGroup -Name thirdyear-it-rg-01 -Location 'Central US'
New-AzResourceGroup -Name thirdyear-ec-rg-01 -Location 'East Asia'
New-AzResourceGroup -Name thirdyear-mech-rg-01 -Location 'France Central'

New-AzResourceGroup -Name fourthyear-cs-rg-01 -Location 'Germany West Central'
New-AzResourceGroup -Name fourthyear-it-rg-01 -Location 'Japan East'
New-AzResourceGroup -Name fourthyear-ec-rg-01 -Location 'Japan West'
New-AzResourceGroup -Name fourthyear-mech-rg-01 -Location 'Korea Central'

#Network Security group
$nsg1 = New-AzNetworkSecurityGroup -Name "firstyear-cs-nsg-01"
-ResourceGroupName firstyear-cs-rg-01 -Location 'East US'
$nsg2 = New-AzNetworkSecurityGroup -Name "firstyear-it-nsg-01" -ResourceGroupName
firstyear-it-rg-01 -Location 'East US 2'
$nsg3 = New-AzNetworkSecurityGroup -Name "firstyear-ec-nsg-01"
-ResourceGroupName firstyear-ec-rg-01 -Location 'Australia Central'
$nsg4 = New-AzNetworkSecurityGroup -Name "firstyear-mech-nsg-01"
-ResourceGroupName firstyear-mech-rg-01 -Location 'Australia East'

$nsg5 = New-AzNetworkSecurityGroup -Name "secondtyear-cs-nsg-01"
-ResourceGroupName secondyear-cs-rg-01 -Location 'Australia Southeast'
$nsg6 = New-AzNetworkSecurityGroup -Name "secondtyear-it-nsg-01"
-ResourceGroupName secondyear-it-rg-01 -Location 'Brazil South'
$nsg7 = New-AzNetworkSecurityGroup -Name "secondtyear-ec-nsg-01"
-ResourceGroupName secondyear-ec-rg-01 -Location 'Canada Central'
$nsg8 = New-AzNetworkSecurityGroup -Name "secondtyear-mech-nsg-01"
-ResourceGroupName secondyear-mech-rg-01 -Location 'Canada East'

$nsg9 = New-AzNetworkSecurityGroup -Name "thirdyear-cs-nsg-01"
-ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South'
$nsg10 = New-AzNetworkSecurityGroup -Name "thirdyear-it-nsg-01"
-ResourceGroupName thirdyear-it-rg-01 -Location 'Central US'
$nsg11 = New-AzNetworkSecurityGroup -Name "thirdyear-ec-nsg-01"
-ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia'
```

```
$nsg12 = New-AzNetworkSecurityGroup -Name "thirdyear-mech-nsg-01"
-ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central'

$nsg13 = New-AzNetworkSecurityGroup -Name "fourthyear-cs-nsg-01"
-ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central'
$nsg14 = New-AzNetworkSecurityGroup -Name "fourthyear-it-nsg-01"
-ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East'
$nsg15 = New-AzNetworkSecurityGroup -Name "fourthyear-ec-nsg-01"
-ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West'
$nsg16 = New-AzNetworkSecurityGroup -Name "fourthyear-mech-nsg-01"
-ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central'

#Resource Subnet
$subnet1config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-01 -AddressPrefix
"10.0.0.0/26" -NetworkSecurityGroup $nsg1
$subnet2config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-01 -AddressPrefix
"20.0.0.0/26" -NetworkSecurityGroup $nsg2
$subnet3config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-01 -AddressPrefix
"30.0.0.0/26" -NetworkSecurityGroup $nsg3
$subnet4config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-01
-AddressPrefix "40.0.0.0/26" -NetworkSecurityGroup $nsg4
$subnet5config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-02 -AddressPrefix
"10.0.0.64/26" -NetworkSecurityGroup $nsg1
$subnet6config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-02 -AddressPrefix
"20.0.0.64/26" -NetworkSecurityGroup $nsg2
$subnet7config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-02 -AddressPrefix
"30.0.0.64/26" -NetworkSecurityGroup $nsg3
$subnet8config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-02
-AddressPrefix "40.0.0.64/26" -NetworkSecurityGroup $nsg4


$subnet9config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-03 -AddressPrefix
"50.0.0.0/26" -NetworkSecurityGroup $nsg5
$subnet10config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-03 -AddressPrefix
"60.0.0.0/26" -NetworkSecurityGroup $nsg6
$subnet11config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-03
-AddressPrefix "70.0.0.0/26" -NetworkSecurityGroup $nsg7
$subnet12config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-03
-AddressPrefix "80.0.0.0/26" -NetworkSecurityGroup $nsg8
$subnet13config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-04
-AddressPrefix "50.0.0.64/26" -NetworkSecurityGroup $nsg5
$subnet14config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-04 -AddressPrefix
"60.0.0.64/26" -NetworkSecurityGroup $nsg6
$subnet15config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-04
-AddressPrefix "70.0.0.64/26" -NetworkSecurityGroup $nsg7
$subnet16config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-04
-AddressPrefix "80.0.0.64/26" -NetworkSecurityGroup $nsg8

$subnet17config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-05
-AddressPrefix "90.0.0.0/26" -NetworkSecurityGroup $nsg9
$subnet18config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-05 -AddressPrefix
"100.0.0.0/26" -NetworkSecurityGroup $nsg10
```

```
$subnet19config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-05
-AddressPrefix "110.0.0.0/26" -NetworkSecurityGroup $nsg11
$subnet20config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-05
-AddressPrefix "120.0.0.0/26" -NetworkSecurityGroup $nsg12
$subnet21config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-06
-AddressPrefix "90.0.0.64/26" -NetworkSecurityGroup $nsg9
$subnet22config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-06 -AddressPrefix
"100.0.0.64/26" -NetworkSecurityGroup $nsg10
$subnet23config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-06
-AddressPrefix "110.0.0.64/26" -NetworkSecurityGroup $nsg11
$subnet24config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-06
-AddressPrefix "120.0.0.64/26" -NetworkSecurityGroup $nsg12

$subnet25config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-07
-AddressPrefix "130.0.0.0/26" -NetworkSecurityGroup $nsg13
$subnet26config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-07 -AddressPrefix
"140.0.0.0/26" -NetworkSecurityGroup $nsg14
$subnet27config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-07
-AddressPrefix "150.0.0.0/26" -NetworkSecurityGroup $nsg15
$subnet28config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-07
-AddressPrefix "160.0.0.0/26" -NetworkSecurityGroup $nsg16
$subnet29config = New-AzVirtualNetworkSubnetConfig -Name cs-lab-sn-08
-AddressPrefix "130.0.0.64/26" -NetworkSecurityGroup $nsg13
$subnet30config = New-AzVirtualNetworkSubnetConfig -Name it-lab-sn-08 -AddressPrefix
"140.0.0.64/26" -NetworkSecurityGroup $nsg14
$subnet31config = New-AzVirtualNetworkSubnetConfig -Name ec-lab-sn-08
-AddressPrefix "150.0.0.64/26" -NetworkSecurityGroup $nsg15
$subnet32config = New-AzVirtualNetworkSubnetConfig -Name mech-lab-sn-08
-AddressPrefix "160.0.0.64/26" -NetworkSecurityGroup $nsg16

#Virtual Network
$vnet1 = New-AzVirtualNetwork -Name "firstyear-cs-vn-01" -ResourceGroupName
firstyear-cs-rg-01 -Location 'East US' -AddressPrefix "10.0.0.0/25" -Subnet
$subnet1config,$subnet5config
$vnet2 = New-AzVirtualNetwork -Name "firstyear-it-vn-01" -ResourceGroupName firstyear-
it-rg-01 -Location 'East US 2' -AddressPrefix "20.0.0.0/25" -Subnet $subnet2config,
$subnet6config
$vnet3 = New-AzVirtualNetwork -Name "firstyear-ec-vn-01" -ResourceGroupName
firstyear-ec-rg-01 -Location 'Australia Central' -AddressPrefix "30.0.0.0/25" -Subnet
$subnet3config,$subnet7config
$vnet4 = New-AzVirtualNetwork -Name "firstyear-mech-vn-01" -ResourceGroupName
firstyear-mech-rg-01 -Location 'Australia East' -AddressPrefix "40.0.0.0/25" -Subnet
$subnet4config,$subnet8config

$vnet5 = New-AzVirtualNetwork -Name "secondyear-cs-vn-01" -ResourceGroupName
secondyear-cs-rg-01 -Location 'Australia Southeast' -AddressPrefix "50.0.0.0/25" -Subnet
$subnet9config,$subnet13config
$vnet6 = New-AzVirtualNetwork -Name "secondyear-it-vn-01" -ResourceGroupName
secondyear-it-rg-01 -Location 'Brazil South' -AddressPrefix "60.0.0.0/25" -Subnet
$subnet10config,$subnet14config
```

```
$vnet7 = New-AzVirtualNetwork -Name "secondyear-ec-vn-01" -ResourceGroupName
secondyear-ec-rg-01 -Location 'Canada Central' -AddressPrefix "70.0.0.0/25" -Subnet
$subnet11config,$subnet15config
$vnet8 = New-AzVirtualNetwork -Name "secondyear-mech-vn-01" -ResourceGroupName
secondyear-mech-rg-01 -Location 'Canada East' -AddressPrefix "80.0.0.0/25" -Subnet
$subnet12config,$subnet16config

$vnet9 = New-AzVirtualNetwork -Name "thirdyear-cs-vn-01" -ResourceGroupName
thirdyear-cs-rg-01 -Location 'Korea South' -AddressPrefix "90.0.0.0/25" -Subnet
$subnet17config,$subnet21config
$vnet10 = New-AzVirtualNetwork -Name "thirdyear-it-vn-01" -ResourceGroupName
thirdyear-it-rg-01 -Location 'Central US' -AddressPrefix "100.0.0.0/25" -Subnet
$subnet18config,$subnet22config
$vnet11 = New-AzVirtualNetwork -Name "thirdyear-ec-vn-01" -ResourceGroupName
thirdyear-ec-rg-01 -Location 'East Asia' -AddressPrefix "110.0.0.0/25" -Subnet
$subnet19config,$subnet23config
$vnet12 = New-AzVirtualNetwork -Name "thirdyear-mech-vn-01" -ResourceGroupName
thirdyear-mech-rg-01 -Location 'France Central' -AddressPrefix "120.0.0.0/25" -Subnet
$subnet20config,$subnet24config

$vnet13 = New-AzVirtualNetwork -Name "fourthyear-cs-vn-01" -ResourceGroupName
fourthyear-cs-rg-01 -Location 'Germany West Central' -AddressPrefix "130.0.0.0/25"
-Subnet $subnet25config,$subnet29config
$vnet14 = New-AzVirtualNetwork -Name "fourthyear-it-vn-01" -ResourceGroupName
fourthyear-it-rg-01 -Location 'Japan East' -AddressPrefix "140.0.0.0/25" -Subnet
$subnet26config,$subnet30config
$vnet15 = New-AzVirtualNetwork -Name "fourthyear-ec-vn-01" -ResourceGroupName
fourthyear-ec-rg-01 -Location 'Japan West' -AddressPrefix "150.0.0.0/25" -Subnet
$subnet27config,$subnet31config
$vnet16 = New-AzVirtualNetwork -Name "fourthyear-mech-vn-01" -ResourceGroupName
fourthyear-mech-rg-01 -Location 'Korea Central' -AddressPrefix "160.0.0.0/25" -Subnet
$subnet28config,$subnet32config

#Public IP Address
$Address1 = New-AzPublicIpAddress -Name "W-fy-cs-vm-01-pip-01"
-ResourceGroupName firstyear-cs-rg-01 -Location 'East US' -AllocationMethod Dynamic
$Address2 = New-AzPublicIpAddress -Name "W-fy-it-vm-01-pip-01"
-ResourceGroupName firstyear-it-rg-01 -Location 'East US 2' -AllocationMethod Dynamic
$Address3 = New-AzPublicIpAddress -Name "W-fy-ec-vm-01-pip-01"
-ResourceGroupName firstyear-ec-rg-01 -Location 'Australia Central' -AllocationMethod
Dynamic
$Address4 = New-AzPublicIpAddress -Name "W-fy-mech-vm-01-pip-01"
-ResourceGroupName firstyear-mech-rg-01 -Location 'Australia East' -AllocationMethod
Dynamic
$Address5 = New-AzPublicIpAddress -Name "L-fy-cs-vm-02-pip-02"
-ResourceGroupName firstyear-cs-rg-01 -Location 'East US' -AllocationMethod Dynamic
$Address6 = New-AzPublicIpAddress -Name "L-fy-it-vm-02-pip-02" -ResourceGroupName
firstyear-it-rg-01 -Location 'East US 2' -AllocationMethod Dynamic
$Address7 = New-AzPublicIpAddress -Name "L-fy-ec-vm-02-pip-02"
-ResourceGroupName firstyear-ec-rg-01 -Location 'Australia Central' -AllocationMethod
Dynamic
```

```
$Address8 = New-AzPublicIpAddress -Name "L-fy-mech-vm-02-pip-02"
-ResourceGroupName firstyear-mech-rg-01 -Location 'Australia East' -AllocationMethod
Dynamic

$Address9 = New-AzPublicIpAddress -Name "W-sy-cs-vm-01-pip-01"
-ResourceGroupName secondyear-cs-rg-01 -Location 'Australia Southeast'
-AllocationMethod Dynamic
$Address10 = New-AzPublicIpAddress -Name "W-sy-it-vm-01-pip-01"
-ResourceGroupName secondyear-it-rg-01 -Location 'Brazil South' -AllocationMethod
Dynamic
$Address11 = New-AzPublicIpAddress -Name "W-sy-ec-vm-01-pip-01"
-ResourceGroupName secondyear-ec-rg-01 -Location 'Canada Central' -AllocationMethod
Dynamic
$Address12 = New-AzPublicIpAddress -Name "W-sy-mech-vm-01-pip-01"
-ResourceGroupName secondyear-mech-rg-01 -Location 'Canada East' -AllocationMethod
Dynamic
$Address13 = New-AzPublicIpAddress -Name "L-sy-cs-vm-02-pip-02"
-ResourceGroupName secondyear-cs-rg-01 -Location 'Australia Southeast'
-AllocationMethod Dynamic
$Address14 = New-AzPublicIpAddress -Name "L-sy-it-vm-02-pip-02"
-ResourceGroupName secondyear-it-rg-01 -Location 'Brazil South' -AllocationMethod
Dynamic
$Address15 = New-AzPublicIpAddress -Name "L-sy-ec-vm-02-pip-02"
-ResourceGroupName secondyear-ec-rg-01 -Location 'Canada Central' -AllocationMethod
Dynamic
$Address16 = New-AzPublicIpAddress -Name "L-sy-mech-vm-02-pip-02"
-ResourceGroupName secondyear-mech-rg-01 -Location 'Canada East' -AllocationMethod
Dynamic

$Address17 = New-AzPublicIpAddress -Name "W-ty-cs-vm-01-pip-01"
-ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South' -AllocationMethod
Dynamic
$Address18 = New-AzPublicIpAddress -Name "W-ty-it-vm-01-pip-01"
-ResourceGroupName thirdyear-it-rg-01 -Location 'Central US' -AllocationMethod Dynamic
$Address19 = New-AzPublicIpAddress -Name "W-ty-ec-vm-01-pip-01"
-ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia' -AllocationMethod Dynamic
$Address20 = New-AzPublicIpAddress -Name "W-ty-mech-vm-01-pip-01"
-ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central' -AllocationMethod
Dynamic
$Address21 = New-AzPublicIpAddress -Name "L-ty-cs-vm-02-pip-02"
-ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South' -AllocationMethod
Dynamic
$Address22 = New-AzPublicIpAddress -Name "L-ty-it-vm-02-pip-02"
-ResourceGroupName thirdyear-it-rg-01 -Location 'Central US' -AllocationMethod Dynamic
$Address23 = New-AzPublicIpAddress -Name "L-ty-ec-vm-02-pip-02"
-ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia' -AllocationMethod Dynamic
$Address24 = New-AzPublicIpAddress -Name "L-ty-mech-vm-02-pip-02"
-ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central' -AllocationMethod
Dynamic
```

```
$Address25 = New-AzPublicIpAddress -Name "W-foy-cs-vm-01-pip-01"
-ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central'
-AllocationMethod Dynamic
$Address26 = New-AzPublicIpAddress -Name "W-foy-it-vm-01-pip-01"
-ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East' -AllocationMethod
Dynamic
$Address27 = New-AzPublicIpAddress -Name "W-foy-ec-vm-01-pip-01"
-ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West' -AllocationMethod
Dynamic
$Address28 = New-AzPublicIpAddress -Name "W-foy-mech-vm-01-pip-01"
-ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central' -AllocationMethod
Dynamic
$Address29 = New-AzPublicIpAddress -Name "L-foy-cs-vm-02-pip-02"
-ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central'
-AllocationMethod Dynamic
$Address30 = New-AzPublicIpAddress -Name "L-foy-it-vm-02-pip-02"
-ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East' -AllocationMethod
Dynamic
$Address31 = New-AzPublicIpAddress -Name "L-foy-ec-vm-02-pip-02"
-ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West' -AllocationMethod
Dynamic
$Address32= New-AzPublicIpAddress -Name "L-foy-mech-vm-02-pip-02"
-ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central' -AllocationMethod
Dynamic


#Network Interface Card

$servernic01 = New-AzNetworkInterface -Name "W-fy-cs-vm-01-nic-01"
-ResourceGroupName firstyear-cs-rg-01 -Location 'East US' -Subnet $vnet1.Subnets[0]
-PublicIpAddress $Address1 -NetworkSecurityGroup $nsg1 -PrivateIpAddress "10.0.0.5"
$servernic02 = New-AzNetworkInterface -Name "W-fy-it-vm-01-nic-01"
-ResourceGroupName firstyear-it-rg-01 -Location 'East US 2' -Subnet $vnet2.Subnets[0]
-PublicIpAddress $Address2 -NetworkSecurityGroup $nsg2 -PrivateIpAddress "20.0.0.5"
$servernic03 = New-AzNetworkInterface -Name "W-fy-ec-vm-01-nic-01"
-ResourceGroupName firstyear-ec-rg-01 -Location 'Australia Central' -Subnet
$vnet3.Subnets[0] -PublicIpAddress $Address3 -NetworkSecurityGroup $nsg3
-PrivateIpAddress "30.0.0.5"
$servernic04 = New-AzNetworkInterface -Name "W-fy-mech-vm-01-nic-01"
-ResourceGroupName firstyear-mech-rg-01 -Location 'Australia East' -Subnet
$vnet4.Subnets[0] -PublicIpAddress $Address4 -NetworkSecurityGroup $nsg4
-PrivateIpAddress "40.0.0.5"
$servernic05 = New-AzNetworkInterface -Name "L-fy-cs-vm-02-nic-01"
-ResourceGroupName firstyear-cs-rg-01 -Location 'East US' -Subnet $vnet1.Subnets[1]
-PublicIpAddress $Address5 -NetworkSecurityGroup $nsg1 -PrivateIpAddress "10.0.0.71"
$servernic06 = New-AzNetworkInterface -Name "L-fy-it-vm-02-nic-01"
-ResourceGroupName firstyear-it-rg-01 -Location 'East US 2' -Subnet $vnet2.Subnets[1]
-PublicIpAddress $Address6 -NetworkSecurityGroup $nsg2 -PrivateIpAddress "20.0.0.71"
$servernic07 = New-AzNetworkInterface -Name "L-fy-ec-vm-02-nic-01"
-ResourceGroupName firstyear-ec-rg-01 -Location 'Australia Central' -Subnet
$vnet3.Subnets[1] -PublicIpAddress $Address7 -NetworkSecurityGroup $nsg3
-PrivateIpAddress "30.0.0.71"
```

```powershell
$servernic08 = New-AzNetworkInterface -Name "L-fy-mech-vm-02-nic-01"
-ResourceGroupName firstyear-mech-rg-01 -Location 'Australia East' -Subnet
$vnet4.Subnets[1] -PublicIpAddress $Address8 -NetworkSecurityGroup $nsg4
-PrivateIpAddress "40.0.0.71"


$servernic09 = New-AzNetworkInterface -Name "W-sy-cs-vm-01-nic-01"
-ResourceGroupName secondyear-cs-rg-01 -Location 'Australia Southeast' -Subnet
$vnet5.Subnets[0] -PublicIpAddress $Address9 -NetworkSecurityGroup $nsg5
-PrivateIpAddress "50.0.0.5"
$servernic10 = New-AzNetworkInterface -Name "W-sy-it-vm-01-nic-01"
-ResourceGroupName secondyear-it-rg-01 -Location 'Brazil South' -Subnet
$vnet6.Subnets[0] -PublicIpAddress $Address10 -NetworkSecurityGroup $nsg6
-PrivateIpAddress "60.0.0.5"
$servernic11 = New-AzNetworkInterface -Name "W-sy-ec-vm-01-nic-01"
-ResourceGroupName secondyear-ec-rg-01 -Location 'Canada Central' -Subnet
$vnet7.Subnets[0] -PublicIpAddress $Address11 -NetworkSecurityGroup $nsg7
-PrivateIpAddress "70.0.0.5"
$servernic12 = New-AzNetworkInterface -Name "W-sy-mech-vm-01-nic-01"
-ResourceGroupName secondyear-mech-rg-01 -Location 'Canada East' -Subnet
$vnet8.Subnets[0] -PublicIpAddress $Address12 -NetworkSecurityGroup $nsg8
-PrivateIpAddress "80.0.0.5"
$servernic13 = New-AzNetworkInterface -Name "L-sy-cs-vm-02-nic-01"
-ResourceGroupName secondyear-cs-rg-01 -Location 'Australia Southeast' -Subnet
$vnet5.Subnets[1] -PublicIpAddress $Address13 -NetworkSecurityGroup $nsg5
-PrivateIpAddress "50.0.0.71"
$servernic14 = New-AzNetworkInterface -Name "L-sy-it-vm-02-nic-01"
-ResourceGroupName secondyear-it-rg-01 -Location 'Brazil South' -Subnet
$vnet6.Subnets[1] -PublicIpAddress $Address14 -NetworkSecurityGroup $nsg6
-PrivateIpAddress "60.0.0.71"
$servernic15 = New-AzNetworkInterface -Name "L-sy-ec-vm-02-nic-01"
-ResourceGroupName secondyear-ec-rg-01 -Location 'Canada Central' -Subnet
$vnet7.Subnets[1] -PublicIpAddress $Address15 -NetworkSecurityGroup $nsg7
-PrivateIpAddress "70.0.0.71"
$servernic16 = New-AzNetworkInterface -Name "L-sy-mech-vm-02-nic-01"
-ResourceGroupName secondyear-mech-rg-01 -Location 'Canada East' -Subnet
$vnet8.Subnets[1] -PublicIpAddress $Address16 -NetworkSecurityGroup $nsg8
-PrivateIpAddress "80.0.0.71"


$servernic17 = New-AzNetworkInterface -Name "W-ty-cs-vm-01-nic-01"
-ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South' -Subnet
$vnet9.Subnets[0] -PublicIpAddress $Address17 -NetworkSecurityGroup $nsg9
-PrivateIpAddress "90.0.0.5"
$servernic18 = New-AzNetworkInterface -Name "W-ty-it-vm-01-nic-01"
-ResourceGroupName thirdyear-it-rg-01 -Location 'Central US' -Subnet
$vnet10.Subnets[0] -PublicIpAddress $Address18 -NetworkSecurityGroup $nsg10
-PrivateIpAddress "100.0.0.5"
$servernic19 = New-AzNetworkInterface -Name "W-ty-ec-vm-01-nic-01"
-ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia' -Subnet $vnet11.Subnets[0]
-PublicIpAddress $Address19 -NetworkSecurityGroup $nsg11 -PrivateIpAddress
"110.0.0.5"
$servernic20 = New-AzNetworkInterface -Name "W-ty-mech-vm-01-nic-01"
-ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central' -Subnet
```

```
$vnet12.Subnets[0] -PublicIpAddress $Address20 -NetworkSecurityGroup $nsg12
-PrivateIpAddress "120.0.0.5"
$servernic21 = New-AzNetworkInterface -Name "L-ty-cs-vm-02-nic-01"
-ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South' -Subnet
$vnet9.Subnets[1] -PublicIpAddress $Address21 -NetworkSecurityGroup $nsg9
-PrivateIpAddress "90.0.0.71"
$servernic22 = New-AzNetworkInterface -Name "L-ty-it-vm-02-nic-01"
-ResourceGroupName thirdyear-it-rg-01 -Location 'Central US' -Subnet
$vnet10.Subnets[1] -PublicIpAddress $Address22 -NetworkSecurityGroup $nsg10
-PrivateIpAddress "100.0.0.71"
$servernic23 = New-AzNetworkInterface -Name "L-ty-ec-vm-02-nic-01"
-ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia' -Subnet $vnet11.Subnets[1]
-PublicIpAddress $Address23 -NetworkSecurityGroup $nsg11 -PrivateIpAddress
"110.0.0.71"
$servernic24 = New-AzNetworkInterface -Name "L-ty-mech-vm-02-nic-01"
-ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central' -Subnet
$vnet12.Subnets[1] -PublicIpAddress $Address24 -NetworkSecurityGroup $nsg12
-PrivateIpAddress "120.0.0.71"


$servernic25 = New-AzNetworkInterface -Name "W-foy-cs-vm-01-nic-01"
-ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central' -Subnet
$vnet13.Subnets[0] -PublicIpAddress $Address25 -NetworkSecurityGroup $nsg13
-PrivateIpAddress "130.0.0.5"
$servernic26 = New-AzNetworkInterface -Name "W-foy-it-vm-01-nic-01"
-ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East' -Subnet
$vnet14.Subnets[0] -PublicIpAddress $Address26 -NetworkSecurityGroup $nsg14
-PrivateIpAddress "140.0.0.5"
$servernic27 = New-AzNetworkInterface -Name "W-foy-ec-vm-01-nic-01"
-ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West' -Subnet
$vnet15.Subnets[0] -PublicIpAddress $Address27 -NetworkSecurityGroup $nsg15
-PrivateIpAddress "150.0.0.5"
$servernic28 = New-AzNetworkInterface -Name "W-foy-mech-vm-01-nic-01"
-ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central' -Subnet
$vnet16.Subnets[0] -PublicIpAddress $Address28 -NetworkSecurityGroup $nsg16
-PrivateIpAddress "160.0.0.5"
$servernic29 = New-AzNetworkInterface -Name "L-foy-cs-vm-02-nic-01"
-ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central' -Subnet
$vnet13.Subnets[1] -PublicIpAddress $Address29 -NetworkSecurityGroup $nsg13
-PrivateIpAddress "130.0.0.71"
$servernic30 = New-AzNetworkInterface -Name "L-foy-it-vm-02-nic-01"
-ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East' -Subnet
$vnet14.Subnets[1] -PublicIpAddress $Address30 -NetworkSecurityGroup $nsg14
-PrivateIpAddress "140.0.0.71"
$servernic31 = New-AzNetworkInterface -Name "L-foy-ec-vm-02-nic-01"
-ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West' -Subnet
$vnet15.Subnets[1] -PublicIpAddress $Address31 -NetworkSecurityGroup $nsg15
-PrivateIpAddress "150.0.0.71"
$servernic32 = New-AzNetworkInterface -Name "L-foy-mech-vm-02-nic-01"
-ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central' -Subnet
$vnet16.Subnets[1] -PublicIpAddress $Address32 -NetworkSecurityGroup $nsg16
-PrivateIpAddress "160.0.0.71"
```

```
#Network Peering
$NPv1v2 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet2" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet2.Id
$NPv1v3 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet3" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet3.Id
$NPv1v4 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet4" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet4.Id
$NPv1v5 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet5" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet5.Id
$NPv1v6 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet6" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet6.Id
$NPv1v7 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet7" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet7.Id
$NPv1v8 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet8" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet8.Id
$NPv1v9 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet9" -VirtualNetwork $vnet1
-RemoteVirtualNetworkId $vnet9.Id
$NPv1v10 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet10" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet10.Id
$NPv1v11 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet11" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet11.Id
$NPv1v12 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet12" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet12.Id
$NPv1v13 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet13" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet13.Id
$NPv1v14 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet14" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet14.Id
$NPv1v15 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet15" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet15.Id
$NPv1v16 =Add-AzVirtualNetworkPeering -Name "Vnet1-to-Vnet16" -VirtualNetwork
$vnet1 -RemoteVirtualNetworkId $vnet16.Id

$NPv2v1 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet1" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet1.Id
$NPv2v3 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet3" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet3.Id
$NPv2v4 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet4" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet4.Id
$NPv2v5 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet5" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet5.Id
$NPv2v6 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet6" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet6.Id
$NPv2v7 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet7" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet7.Id
$NPv2v8 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet8" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet8.Id
$NPv2v9 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet9" -VirtualNetwork $vnet2
-RemoteVirtualNetworkId $vnet9.Id
$NPv2v10 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet10" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet10.Id
$NPv2v11 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet11" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet11.Id
```

```
$NPv2v12 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet12" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet12.Id
$NPv2v13 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet13" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet13.Id
$NPv2v14 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet14" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet14.Id
$NPv2v15 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet15" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet15.Id
$NPv2v16 =Add-AzVirtualNetworkPeering -Name "Vnet2-to-Vnet16" -VirtualNetwork
$vnet2 -RemoteVirtualNetworkId $vnet16.Id


$NPv3v1 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet1" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet1.Id
$NPv3v2 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet2" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet2.Id
$NPv3v4 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet4" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet4.Id
$NPv3v5 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet5" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet5.Id
$NPv3v6 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet6" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet6.Id
$NPv3v7 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet7" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet7.Id
$NPv3v8 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet8" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet8.Id
$NPv3v9 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet9" -VirtualNetwork $vnet3
-RemoteVirtualNetworkId $vnet9.Id
$NPv3v10 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet10" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet10.Id
$NPv3v11 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet11" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet11.Id
$NPv3v12 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet12" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet12.Id
$NPv3v13 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet13" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet13.Id
$NPv3v14 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet14" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet14.Id
$NPv3v15 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet15" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet15.Id
$NPv3v16 =Add-AzVirtualNetworkPeering -Name "Vnet3-to-Vnet16" -VirtualNetwork
$vnet3 -RemoteVirtualNetworkId $vnet16.Id


$NPv4v1 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet1" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet1.Id
$NPv4v2 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet2" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet2.Id
$NPv4v3 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet3" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet3.Id
$NPv4v5 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet5" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet5.Id
$NPv4v6 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet6" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet6.Id
```

```
$NPv4v7 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet7" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet7.Id
$NPv4v8 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet8" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet8.Id
$NPv4v9 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet9" -VirtualNetwork $vnet4
-RemoteVirtualNetworkId $vnet9.Id
$NPv4v10 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet10" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet10.Id
$NPv4v11 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet11" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet11.Id
$NPv4v12 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet12" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet12.Id
$NPv4v13 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet13" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet13.Id
$NPv4v14 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet14" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet14.Id
$NPv4v15 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet15" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet15.Id
$NPv4v16 =Add-AzVirtualNetworkPeering -Name "Vnet4-to-Vnet16" -VirtualNetwork
$vnet4 -RemoteVirtualNetworkId $vnet16.Id


$NPv5v1 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet1" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet1.Id
$NPv5v2 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet2" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet2.Id
$NPv5v3 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet3" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet3.Id
$NPv5v4 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet4" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet4.Id
$NPv5v6 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet6" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet6.Id
$NPv5v7 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet7" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet7.Id
$NPv5v8 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet8" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet8.Id
$NPv5v9 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet9" -VirtualNetwork $vnet5
-RemoteVirtualNetworkId $vnet9.Id
$NPv5v10 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet10" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet10.Id
$NPv5v11 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet11" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet11.Id
$NPv5v12 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet12" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet12.Id
$NPv5v13 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet13" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet13.Id
$NPv5v14 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet14" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet14.Id
$NPv5v15 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet15" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet15.Id
$NPv5v16 =Add-AzVirtualNetworkPeering -Name "Vnet5-to-Vnet16" -VirtualNetwork
$vnet5 -RemoteVirtualNetworkId $vnet16.Id
```

```
$NPv6v1 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet1" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet1.Id
$NPv6v2 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet2" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet2.Id
$NPv6v3 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet3" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet3.Id
$NPv6v4 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet4" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet4.Id
$NPv6v5 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet5" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet5.Id
$NPv6v7 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet7" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet7.Id
$NPv6v8 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet8" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet8.Id
$NPv6v9 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet9" -VirtualNetwork $vnet6
-RemoteVirtualNetworkId $vnet9.Id
$NPv6v10 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet10" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet10.Id
$NPv6v11 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet11" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet11.Id
$NPv6v12 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet12" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet12.Id
$NPv6v13 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet13" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet13.Id
$NPv6v14 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet14" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet14.Id
$NPv6v15 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet15" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet15.Id
$NPv6v16 =Add-AzVirtualNetworkPeering -Name "Vnet6-to-Vnet16" -VirtualNetwork
$vnet6 -RemoteVirtualNetworkId $vnet16.Id

$NPv7v1 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet1" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet1.Id
$NPv7v2 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet2" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet2.Id
$NPv7v3 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet3" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet3.Id
$NPv7v4 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet4" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet4.Id
$NPv7v5 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet5" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet5.Id
$NPv7v6 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet6" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet6.Id
$NPv7v8 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet8" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet8.Id
$NPv7v9 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet9" -VirtualNetwork $vnet7
-RemoteVirtualNetworkId $vnet9.Id
$NPv7v10 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet10" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet10.Id
$NPv7v11 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet11" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet11.Id
```

```
$NPv7v12 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet12" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet12.Id
$NPv7v13 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet13" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet13.Id
$NPv7v14 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet14" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet14.Id
$NPv7v15 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet15" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet15.Id
$NPv7v16 =Add-AzVirtualNetworkPeering -Name "Vnet7-to-Vnet16" -VirtualNetwork
$vnet7 -RemoteVirtualNetworkId $vnet16.Id


$NPv8v1 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet1" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet1.Id
$NPv8v2 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet2" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet2.Id
$NPv8v3 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet3" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet3.Id
$NPv8v4 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet4" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet4.Id
$NPv8v5 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet5" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet5.Id
$NPv8v6 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet6" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet6.Id
$NPv8v7 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet7" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet7.Id
$NPv8v9 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet9" -VirtualNetwork $vnet8
-RemoteVirtualNetworkId $vnet9.Id
$NPv8v10 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet10" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet10.Id
$NPv8v11 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet11" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet11.Id
$NPv8v12 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet12" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet12.Id
$NPv8v13 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet13" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet13.Id
$NPv8v14 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet14" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet14.Id
$NPv8v15 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet15" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet15.Id
$NPv8v16 =Add-AzVirtualNetworkPeering -Name "Vnet8-to-Vnet16" -VirtualNetwork
$vnet8 -RemoteVirtualNetworkId $vnet16.Id


$NPv9v1 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet1" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet1.Id
$NPv9v2 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet2" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet2.Id
$NPv9v3 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet3" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet3.Id
$NPv9v4 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet4" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet4.Id
$NPv9v5 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet5" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet5.Id
```

```
$NPv9v6 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet6" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet6.Id
$NPv9v7 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet7" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet7.Id
$NPv9v8 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet8" -VirtualNetwork $vnet9
-RemoteVirtualNetworkId $vnet8.Id
$NPv9v10 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet10" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet10.Id
$NPv9v11 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet11" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet11.Id
$NPv9v12 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet12" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet12.Id
$NPv9v13 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet13" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet13.Id
$NPv9v14 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet14" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet14.Id
$NPv9v15 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet15" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet15.Id
$NPv9v16 =Add-AzVirtualNetworkPeering -Name "Vnet9-to-Vnet16" -VirtualNetwork
$vnet9 -RemoteVirtualNetworkId $vnet16.Id


$NPv10v1 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet1" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet1.Id
$NPv10v2 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet2" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet2.Id
$NPv10v3 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet3" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet3.Id
$NPv10v4 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet4" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet4.Id
$NPv10v5 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet5" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet5.Id
$NPv10v6 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet6" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet6.Id
$NPv10v7 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet7" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet7.Id
$NPv10v8 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet8" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet8.Id
$NPv10v9 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet9" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet9.Id
$NPv10v11 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet11" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet11.Id
$NPv10v12 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet12" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet12.Id
$NPv10v13 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet13" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet13.Id
$NPv10v14 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet14" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet14.Id
$NPv10v15 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet15" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet15.Id
$NPv10v16 =Add-AzVirtualNetworkPeering -Name "Vnet10-to-Vnet16" -VirtualNetwork
$vnet10 -RemoteVirtualNetworkId $vnet16.Id
```

```
$NPv11v1 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet1" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet1.Id
$NPv11v2 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet2" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet2.Id
$NPv11v3 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet3" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet3.Id
$NPv11v4 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet4" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet4.Id
$NPv11v5 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet5" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet5.Id
$NPv11v6 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet6" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet6.Id
$NPv11v7 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet7" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet7.Id
$NPv11v8 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet8" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet8.Id
$NPv11v9 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet9" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet9.Id
$NPv11v10 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet10" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet10.Id
$NPv11v12 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet12" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet12.Id
$NPv11v13 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet13" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet13.Id
$NPv11v14 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet14" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet14.Id
$NPv11v15 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet15" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet15.Id
$NPv11v16 =Add-AzVirtualNetworkPeering -Name "Vnet11-to-Vnet16" -VirtualNetwork
$vnet11 -RemoteVirtualNetworkId $vnet16.Id


$NPv12v1 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet1" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet1.Id
$NPv12v2 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet2" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet2.Id
$NPv12v3 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet3" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet3.Id
$NPv12v4 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet4" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet4.Id
$NPv12v5 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet5" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet5.Id
$NPv12v6 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet6" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet6.Id
$NPv12v7 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet7" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet7.Id
$NPv12v8 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet8" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet8.Id
$NPv12v9 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet9" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet9.Id
$NPv12v10 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet10" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet10.Id
```

```
$NPv12v11 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet11" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet11.Id
$NPv12v13 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet13" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet13.Id
$NPv12v14 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet14" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet14.Id
$NPv12v15 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet15" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet15.Id
$NPv12v16 =Add-AzVirtualNetworkPeering -Name "Vnet12-to-Vnet16" -VirtualNetwork
$vnet12 -RemoteVirtualNetworkId $vnet16.Id


$NPv13v1 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet1" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet1.Id
$NPv13v2 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet2" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet2.Id
$NPv13v3 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet3" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet3.Id
$NPv13v4 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet4" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet4.Id
$NPv13v5 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet5" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet5.Id
$NPv13v6 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet6" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet6.Id
$NPv13v7 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet7" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet7.Id
$NPv13v8 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet8" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet8.Id
$NPv13v9 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet9" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet9.Id
$NPv13v10 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet10" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet10.Id
$NPv13v11 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet11" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet11.Id
$NPv13v12 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet12" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet12.Id
$NPv13v14 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet14" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet14.Id
$NPv13v15 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet15" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet15.Id
$NPv13v16 =Add-AzVirtualNetworkPeering -Name "Vnet13-to-Vnet16" -VirtualNetwork
$vnet13 -RemoteVirtualNetworkId $vnet16.Id


$NPv14v1 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet1" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet1.Id
$NPv14v2 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet2" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet2.Id
$NPv14v3 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet3" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet3.Id
$NPv14v4 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet4" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet4.Id
$NPv14v5 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet5" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet5.Id
```

```
$NPv14v6 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet6" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet6.Id
$NPv14v7 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet7" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet7.Id
$NPv14v8 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet8" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet8.Id
$NPv14v9 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet9" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet9.Id
$NPv14v10 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet10" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet10.Id
$NPv14v11 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet11" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet11.Id
$NPv14v12 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet12" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet12.Id
$NPv14v13 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet13" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet13.Id
$NPv14v15 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet15" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet15.Id
$NPv14v16 =Add-AzVirtualNetworkPeering -Name "Vnet14-to-Vnet16" -VirtualNetwork
$vnet14 -RemoteVirtualNetworkId $vnet16.Id


$NPv15v1 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet1" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet1.Id
$NPv15v2 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet2" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet2.Id
$NPv15v3 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet3" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet3.Id
$NPv15v4 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet4" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet4.Id
$NPv15v5 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet5" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet5.Id
$NPv15v6 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet6" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet6.Id
$NPv15v7 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet7" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet7.Id
$NPv15v8 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet8" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet8.Id
$NPv15v9 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet9" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet9.Id
$NPv15v10 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet10" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet10.Id
$NPv15v11 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet11" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet11.Id
$NPv15v12 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet12" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet12.Id
$NPv15v13 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet13" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet13.Id
$NPv15v14 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet14" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet14.Id
$NPv15v16 =Add-AzVirtualNetworkPeering -Name "Vnet15-to-Vnet16" -VirtualNetwork
$vnet15 -RemoteVirtualNetworkId $vnet16.Id
```

```
$NPv16v1 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet1" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet1.Id
$NPv16v2 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet2" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet2.Id
$NPv16v3 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet3" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet3.Id
$NPv16v4 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet4" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet4.Id
$NPv16v5 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet5" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet5.Id
$NPv16v6 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet6" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet6.Id
$NPv16v7 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet7" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet7.Id
$NPv16v8 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet8" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet8.Id
$NPv16v9 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet9" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet9.Id
$NPv16v10 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet10" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet10.Id
$NPv16v11 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet11" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet11.Id
$NPv16v12 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet12" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet12.Id
$NPv16v13 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet13" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet13.Id
$NPv16v14 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet14" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet14.Id
$NPv16v15 =Add-AzVirtualNetworkPeering -Name "Vnet16-to-Vnet15" -VirtualNetwork
$vnet16 -RemoteVirtualNetworkId $vnet15.Id


#Storage Account
$Stacc01 = New-AzStorageAccount -ResourceGroupName firstyear-cs-rg-01
-AccountName "iiitpsa01" -Location 'East US' -SkuName Standard_GRS
$Stacc02 = New-AzStorageAccount -ResourceGroupName firstyear-it-rg-01
-AccountName "iiitpsa02" -Location 'East US 2' -SkuName Standard_GRS
$Stacc03 = New-AzStorageAccount -ResourceGroupName firstyear-ec-rg-01
-AccountName "iiitpsa03" -Location 'Australia Central' -SkuName Standard_GRS
$Stacc04 = New-AzStorageAccount -ResourceGroupName firstyear-mech-rg-01
-AccountName "iiitpsa04" -Location 'Australia East' -SkuName Standard_GRS

$Stacc05 = New-AzStorageAccount -ResourceGroupName secondyear-cs-rg-01
-AccountName "iiitpsa05" -Location 'Australia Southeast' -SkuName Standard_GRS
$Stacc06 = New-AzStorageAccount -ResourceGroupName secondyear-it-rg-01
-AccountName "iiitpsa06" -Location 'Brazil South' -SkuName Standard_GRS
$Stacc07 = New-AzStorageAccount -ResourceGroupName secondyear-ec-rg-01
-AccountName "iiitpsa07" -Location 'Canada Central' -SkuName Standard_GRS
$Stacc08 = New-AzStorageAccount -ResourceGroupName secondyear-mech-rg-01
-AccountName "iiitpsa08" -Location 'Canada East' -SkuName Standard_GRS
```

```
$Stacc09 = New-AzStorageAccount -ResourceGroupName thirdyear-cs-rg-01
-AccountName "iiitpsa09" -Location 'Korea South' -SkuName Standard_GRS
$Stacc10 = New-AzStorageAccount -ResourceGroupName thirdyear-it-rg-01
-AccountName "iiitpsa10" -Location 'Central US' -SkuName Standard_GRS
$Stacc11 = New-AzStorageAccount -ResourceGroupName thirdyear-ec-rg-01
-AccountName "iiitpsa11" -Location 'East Asia' -SkuName Standard_GRS
$Stacc12 = New-AzStorageAccount -ResourceGroupName thirdyear-mech-rg-01
-AccountName "iiitpsa12" -Location 'France Central' -SkuName Standard_GRS

$Stacc13 = New-AzStorageAccount -ResourceGroupName fourthyear-cs-rg-01
-AccountName "iiitpsa13" -Location 'Germany West Central' -SkuName Standard_GRS
$Stacc14 = New-AzStorageAccount -ResourceGroupName fourthyear-it-rg-01
-AccountName "iiitpsa14" -Location 'Japan East' -SkuName Standard_GRS
$Stacc15 = New-AzStorageAccount -ResourceGroupName fourthyear-ec-rg-01
-AccountName "iiitpsa15" -Location 'Japan West' -SkuName Standard_GRS
$Stacc16 = New-AzStorageAccount -ResourceGroupName fourthyear-mech-rg-01
-AccountName "iiitpsa16" -Location 'Korea Central' -SkuName Standard_GRS

#Acquire Server Credentials
$Servercred1 = Get-Credential -Message "Please enter a username and password"
$Servercred2 = Get-Credential -Message "Please enter a username and password"
$Servercred3 = Get-Credential -Message "Please enter a username and password"
$Servercred4 = Get-Credential -Message "Please enter a username and password"
$Servercred5 = Get-Credential -Message "Please enter a username and password"
$Servercred6 = Get-Credential -Message "Please enter a username and password"
$Servercred7 = Get-Credential -Message "Please enter a username and password"
$Servercred8 = Get-Credential -Message "Please enter a username and password"
$Servercred9 = Get-Credential -Message "Please enter a username and password"
$Servercred10 = Get-Credential -Message "Please enter a username and password"
$Servercred11 = Get-Credential -Message "Please enter a username and password"
$Servercred12 = Get-Credential -Message "Please enter a username and password"
$Servercred13 = Get-Credential -Message "Please enter a username and password"
$Servercred14 = Get-Credential -Message "Please enter a username and password"
$Servercred15 = Get-Credential -Message "Please enter a username and password"
$Servercred16 = Get-Credential -Message "Please enter a username and password"

#create Server
$serverconfig1 = New-AzVMConfig -vmname "W-fy-cs-vm-01" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Windows -ComputerName "W-fy-cs-vm-01" -Credential
$Servercred1 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer
"WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName firstyear-cs-rg-01 -StorageAccountName "iiitpsa01" | Add-
AzVMNetworkInterface -Id $servernic01.Id | Add-AzVMDataDisk -Name Disk01
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 0 -CreateOption Empty
$serverconfig2 = New-AzVMConfig -vmname "W-fy-it-vm-01" -VMSize "Standard_B2ms" |
Set-AzVMOperatingSystem -Windows -ComputerName "W-fy-it-vm-01" -Credential
$Servercred2 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer
"WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName firstyear-it-rg-01 -StorageAccountName "iiitpsa02" | Add-
AzVMNetworkInterface -Id $servernic02.Id | Add-AzVMDataDisk -Name Disk02
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 1 -CreateOption Empty
```

```
$serverconfig3 = New-AzVMConfig -vmname "W-fy-ec-vm-01" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Windows -ComputerName "W-fy-ec-vm-01" -Credential
$Servercred3 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer
"WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName firstyear-ec-rg-01 -StorageAccountName "iiitpsa03"| Add-
AzVMNetworkInterface -Id $servernic03.Id | Add-AzVMDataDisk -Name Disk03
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 2 -CreateOption Empty
$serverconfig4 = New-AzVMConfig -vmname "W-fy-mech-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-fy-mech-
vm-01" -Credential $Servercred4 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName firstyear-mech-rg-01
-StorageAccountName "iiitpsa04" | Add-AzVMNetworkInterface -Id $servernic04.Id | Add-
AzVMDataDisk -Name Disk04 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 3 -CreateOption Empty
$serverconfig5 = New-AzVMConfig -vmname "L-fy-cs-vm-02" -VMSize "Standard_B2ms" |
Set-AzVMOperatingSystem -Linux -ComputerName "L-fy-cs-vm-02" -Credential
$Servercred1 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer"
-Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName firstyear-cs-rg-01 -StorageAccountName "iiitpsa01" | Add-
AzVMNetworkInterface -Id $servernic05.Id | Add-AzVMDataDisk -Name Disk05
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 4 -CreateOption Empty
$serverconfig6 = New-AzVMConfig -vmname "L-fy-it-vm-02" -VMSize "Standard_B2ms" |
Set-AzVMOperatingSystem -Linux -ComputerName "L-fy-it-vm-02" -Credential
$Servercred2 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer"
-Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName firstyear-it-rg-01 -StorageAccountName "iiitpsa02" | Add-
AzVMNetworkInterface -Id $servernic06.Id | Add-AzVMDataDisk -Name Disk06
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 5 -CreateOption Empty
$serverconfig7 = New-AzVMConfig -vmname "L-fy-ec-vm-02" -VMSize "Standard_B2ms" |
Set-AzVMOperatingSystem -Linux -ComputerName "L-fy-ec-vm-02" -Credential
$Servercred3 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer"
-Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName firstyear-ec-rg-01 -StorageAccountName "iiitpsa03" | Add-
AzVMNetworkInterface -Id $servernic07.Id | Add-AzVMDataDisk -Name Disk07
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 6 -CreateOption Empty
$serverconfig8 = New-AzVMConfig -vmname "L-fy-mech-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-fy-mech-vm-02"
-Credential $Servercred4 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer
"UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName firstyear-mech-rg-01 -StorageAccountName "iiitpsa04" | Add-
AzVMNetworkInterface -Id $servernic08.Id | Add-AzVMDataDisk -Name Disk08
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 7 -CreateOption Empty

$serverconfig9 = New-AzVMConfig -vmname "W-sy-cs-vm-01" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Windows -ComputerName "W-sy-cs-vm-01" -Credential
$Servercred5 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer
"WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName secondyear-cs-rg-01 -StorageAccountName "iiitpsa05" |
Add-AzVMNetworkInterface -Id $servernic09.Id | Add-AzVMDataDisk -Name Disk09
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 8 -CreateOption Empty
```

```powershell
$serverconfig10 = New-AzVMConfig -vmname "W-sy-it-vm-01" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Windows -ComputerName "W-sy-it-vm-01" -Credential
$Servercred6 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer
"WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName secondyear-it-rg-01 -StorageAccountName "iiitpsa06" |
Add-AzVMNetworkInterface -Id $servernic10.Id | Add-AzVMDataDisk -Name Disk10
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 9 -CreateOption Empty
$serverconfig11 = New-AzVMConfig -vmname "W-sy-ec-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-sy-ec-
vm-01" -Credential $Servercred7 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName secondyear-ec-rg-01
-StorageAccountName "iiitpsa07"| Add-AzVMNetworkInterface -Id $servernic11.Id | Add-
AzVMDataDisk -Name Disk11 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 10 -CreateOption Empty
$serverconfig12 = New-AzVMConfig -vmname "W-sy-mech-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-sy-mech-
vm-01" -Credential $Servercred8 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName secondyear-mech-rg-01
-StorageAccountName "iiitpsa08" | Add-AzVMNetworkInterface -Id $servernic12.Id | Add-
AzVMDataDisk -Name Disk12 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 11 -CreateOption Empty
$serverconfig13 = New-AzVMConfig -vmname "L-sy-cs-vm-02" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Linux -ComputerName "L-sy-cs-vm-02" -Credential
$Servercred5 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer"
-Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName secondyear-cs-rg-01 -StorageAccountName "iiitpsa05" | Add-
AzVMNetworkInterface -Id $servernic13.Id | Add-AzVMDataDisk -Name Disk13
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 12 -CreateOption Empty
$serverconfig14 = New-AzVMConfig -vmname "L-sy-it-vm-02" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Linux -ComputerName "L-sy-it-vm-02" -Credential
$Servercred6 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer"
-Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName secondyear-it-rg-01 -StorageAccountName "iiitpsa06" | Add-
AzVMNetworkInterface -Id $servernic14.Id | Add-AzVMDataDisk -Name Disk14
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 13 -CreateOption Empty
$serverconfig15 = New-AzVMConfig -vmname "L-sy-ec-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-sy-ec-vm-02"
-Credential $Servercred7 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer
"UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName secondyear-ec-rg-01 -StorageAccountName "iiitpsa07" | Add-
AzVMNetworkInterface -Id $servernic15.Id | Add-AzVMDataDisk -Name Disk15
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 14 -CreateOption Empty
$serverconfig16 = New-AzVMConfig -vmname "L-sy-mech-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-sy-mech-
vm-02" -Credential $Servercred8 | Set-AzVMSourceImage -PublisherName "Canonical"
-Offer "UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName secondyear-mech-rg-01 -StorageAccountName "iiitpsa08"
| Add-AzVMNetworkInterface -Id $servernic16.Id | Add-AzVMDataDisk -Name Disk16
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 15 -CreateOption Empty
```

$serverconfig17 = New-AzVMConfig -vmname "W-ty-cs-vm-01" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-ty-cs-vm-01" -Credential $Servercred9 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-cs-rg-01 -StorageAccountName "iiitpsa09" | Add-AzVMNetworkInterface -Id $servernic17.Id | Add-AzVMDataDisk -Name Disk17 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 16 -CreateOption Empty

$serverconfig18 = New-AzVMConfig -vmname "W-ty-it-vm-01" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-ty-it-vm-01" -Credential $Servercred10 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-it-rg-01 -StorageAccountName "iiitpsa10" | Add-AzVMNetworkInterface -Id $servernic18.Id | Add-AzVMDataDisk -Name Disk18 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 17 -CreateOption Empty

$serverconfig19 = New-AzVMConfig -vmname "W-ty-ec-vm-01" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-ty-ec-vm-01" -Credential $Servercred11 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-ec-rg-01 -StorageAccountName "iiitpsa11" | Add-AzVMNetworkInterface -Id $servernic19.Id | Add-AzVMDataDisk -Name Disk19 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 18 -CreateOption Empty

$serverconfig20 = New-AzVMConfig -vmname "W-ty-mech-vm-01" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-ty-mech-vm-01" -Credential $Servercred12 | Set-AzVMSourceImage -PublisherName "MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-mech-rg-01 -StorageAccountName "iiitpsa12" | Add-AzVMNetworkInterface -Id $servernic20.Id | Add-AzVMDataDisk -Name Disk20 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 19 -CreateOption Empty

$serverconfig21 = New-AzVMConfig -vmname "L-ty-cs-vm-02" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-ty-cs-vm-02" -Credential $Servercred9 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-cs-rg-01 -StorageAccountName "iiitpsa09" | Add-AzVMNetworkInterface -Id $servernic21.Id | Add-AzVMDataDisk -Name Disk21 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 20 -CreateOption Empty

$serverconfig22 = New-AzVMConfig -vmname "L-ty-it-vm-02" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-ty-it-vm-02" -Credential $Servercred10 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-it-rg-01 -StorageAccountName "iiitpsa10" | Add-AzVMNetworkInterface -Id $servernic22.Id | Add-AzVMDataDisk -Name Disk22 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 21 -CreateOption Empty

$serverconfig23 = New-AzVMConfig -vmname "L-ty-ec-vm-02" -VMSize "Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-ty-ec-vm-02" -Credential $Servercred11 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer "UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName thirdyear-ec-rg-01 -StorageAccountName "iiitpsa11" | Add-AzVMNetworkInterface -Id $servernic23.Id | Add-AzVMDataDisk -Name Disk23 -DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 22 -CreateOption Empty

```powershell
$serverconfig24 = New-AzVMConfig -vmname "L-ty-mech-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-ty-mech-vm-02"
-Credential $Servercred12 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer
"UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName thirdyear-mech-rg-01 -StorageAccountName "iiitpsa12" | Add-
AzVMNetworkInterface -Id $servernic24.Id | Add-AzVMDataDisk -Name Disk24
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 23 -CreateOption Empty


$serverconfig25 = New-AzVMConfig -vmname "W-foy-cs-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-foy-cs-
vm-01" -Credential $Servercred13 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName fourthyear-cs-rg-01
-StorageAccountName "iiitpsa13" | Add-AzVMNetworkInterface -Id $servernic25.Id | Add-
AzVMDataDisk -Name Disk25 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 24 -CreateOption Empty
$serverconfig26 = New-AzVMConfig -vmname "W-foy-it-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-foy-it-
vm-01" -Credential $Servercred14 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName fourthyear-it-rg-01
-StorageAccountName "iiitpsa14" | Add-AzVMNetworkInterface -Id $servernic26.Id | Add-
AzVMDataDisk -Name Disk26 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 25 -CreateOption Empty
$serverconfig27 = New-AzVMConfig -vmname "W-foy-ec-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-foy-ec-
vm-01" -Credential $Servercred15 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName fourthyear-ec-rg-01
-StorageAccountName "iiitpsa15" | Add-AzVMNetworkInterface -Id $servernic27.Id | Add-
AzVMDataDisk -Name Disk27 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 26 -CreateOption Empty
$serverconfig28 = New-AzVMConfig -vmname "W-foy-mec-vm-01" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Windows -ComputerName "W-foy-mec-
vm-01" -Credential $Servercred16 | Set-AzVMSourceImage -PublisherName
"MicrosoftWindowsServer" -Offer "WindowsServer" -Skus "2019-Datacenter" -Version
latest | Set-AzVMBootDiagnostic -Enable -ResourceGroupName fourthyear-mech-rg-01
-StorageAccountName "iiitpsa16" | Add-AzVMNetworkInterface -Id $servernic28.Id | Add-
AzVMDataDisk -Name Disk28 -DiskSizeInGB 80 -StorageAccountType Standard_LRS
-Lun 27 -CreateOption Empty
$serverconfig29 = New-AzVMConfig -vmname "L-foy-cs-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-foy-cs-vm-02"
-Credential $Servercred13 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer
"UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName fourthyear-cs-rg-01 -StorageAccountName "iiitpsa13" | Add-
AzVMNetworkInterface -Id $servernic29.Id | Add-AzVMDataDisk -Name Disk29
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 28 -CreateOption Empty
$serverconfig30 = New-AzVMConfig -vmname "L-foy-it-vm-02" -VMSize "Standard_B2ms"
| Set-AzVMOperatingSystem -Linux -ComputerName "L-foy-it-vm-02" -Credential
$Servercred14 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer
"UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
```

```powershell
-ResourceGroupName fourthyear-it-rg-01 -StorageAccountName "iiitpsa14" | Add-
AzVMNetworkInterface -Id $servernic30.Id | Add-AzVMDataDisk -Name Disk30
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 29 -CreateOption Empty
$serverconfig31 = New-AzVMConfig -vmname "L-foy-ec-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-foy-ec-vm-02"
-Credential $Servercred15 | Set-AzVMSourceImage -PublisherName "Canonical" -Offer
"UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic -Enable
-ResourceGroupName fourthyear-ec-rg-01 -StorageAccountName "iiitpsa15" | Add-
AzVMNetworkInterface -Id $servernic31.Id | Add-AzVMDataDisk -Name Disk31
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 30 -CreateOption Empty
$serverconfig32 = New-AzVMConfig -vmname "L-foy-mech-vm-02" -VMSize
"Standard_B2ms" | Set-AzVMOperatingSystem -Linux -ComputerName "L-foy-mech-
vm-02" -Credential $Servercred16 | Set-AzVMSourceImage -PublisherName "Canonical"
-Offer "UbuntuServer" -Skus "18.04-LTS" -Version latest | Set-AzVMBootDiagnostic
-Enable -ResourceGroupName fourthyear-mech-rg-01 -StorageAccountName "iiitpsa16" |
Add-AzVMNetworkInterface -Id $servernic32.Id | Add-AzVMDataDisk -Name Disk32
-DiskSizeInGB 80 -StorageAccountType Standard_LRS -Lun 31 -CreateOption Empty

#creating virtual machine
$machine1 = New-AzVM -ResourceGroupName firstyear-cs-rg-01 -Location 'East US' -VM
$serverconfig1
$machine2 = New-AzVM -ResourceGroupName firstyear-it-rg-01 -Location 'East US 2'
-VM $serverconfig2
$machine3 = New-AzVM -ResourceGroupName firstyear-ec-rg-01 -Location 'Australia
Central' -VM $serverconfig3
$machine4 = New-AzVM -ResourceGroupName firstyear-mech-rg-01 -Location 'Australia
East' -VM $serverconfig4
$machine5 = New-AzVM -ResourceGroupName firstyear-cs-rg-01 -Location 'East US' -VM
$serverconfig5
$machine6 = New-AzVM -ResourceGroupName firstyear-it-rg-01 -Location 'East US 2'
-VM $serverconfig6
$machine7 = New-AzVM -ResourceGroupName firstyear-ec-rg-01 -Location 'Australia
Central' -VM $serverconfig7
$machine8 = New-AzVM -ResourceGroupName firstyear-mech-rg-01 -Location 'Australia
East' -VM $serverconfig8

$machine9 = New-AzVM -ResourceGroupName secondyear-cs-rg-01 -Location 'Australia
Southeast' -VM $serverconfig9
$machine10 = New-AzVM -ResourceGroupName secondyear-it-rg-01 -Location 'Brazil
South' -VM $serverconfig10
$machine11 = New-AzVM -ResourceGroupName secondyear-ec-rg-01 -Location 'Canada
Central' -VM $serverconfig11
$machine12 = New-AzVM -ResourceGroupName secondyear-mech-rg-01 -Location
'Canada East' -VM $serverconfig12
$machine13 = New-AzVM -ResourceGroupName secondyear-cs-rg-01 -Location 'Australia
Southeast' -VM $serverconfig13
$machine14 = New-AzVM -ResourceGroupName secondyear-it-rg-01 -Location 'Brazil
South' -VM $serverconfig14
$machine15 = New-AzVM -ResourceGroupName secondyear-ec-rg-01 -Location 'Canada
Central' -VM $serverconfig15
$machine16 = New-AzVM -ResourceGroupName secondyear-mech-rg-01 -Location
'Canada East' -VM $serverconfig16
```

```
$machine17 = New-AzVM -ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South' -VM $serverconfig17
$machine18 = New-AzVM -ResourceGroupName thirdyear-it-rg-01 -Location 'Central US' -VM $serverconfig18
$machine19 = New-AzVM -ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia' -VM $serverconfig19
$machine20 = New-AzVM -ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central' -VM $serverconfig20
$machine21 = New-AzVM -ResourceGroupName thirdyear-cs-rg-01 -Location 'Korea South' -VM $serverconfig21
$machine22 = New-AzVM -ResourceGroupName thirdyear-it-rg-01 -Location 'Central US' -VM $serverconfig22
$machine23 = New-AzVM -ResourceGroupName thirdyear-ec-rg-01 -Location 'East Asia' -VM $serverconfig23
$machine24 = New-AzVM -ResourceGroupName thirdyear-mech-rg-01 -Location 'France Central' -VM $serverconfig24

$machine25 = New-AzVM -ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central' -VM $serverconfig25
$machine26 = New-AzVM -ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East' -VM $serverconfig26
$machine27 = New-AzVM -ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West' -VM $serverconfig27
$machine28 = New-AzVM -ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central' -VM $serverconfig28
$machine29 = New-AzVM -ResourceGroupName fourthyear-cs-rg-01 -Location 'Germany West Central' -VM $serverconfig29
$machine30 = New-AzVM -ResourceGroupName fourthyear-it-rg-01 -Location 'Japan East' -VM $serverconfig30
$machine31 = New-AzVM -ResourceGroupName fourthyear-ec-rg-01 -Location 'Japan West' -VM $serverconfig31
$machine32 = New-AzVM -ResourceGroupName fourthyear-mech-rg-01 -Location 'Korea Central' -VM $serverconfig32
```
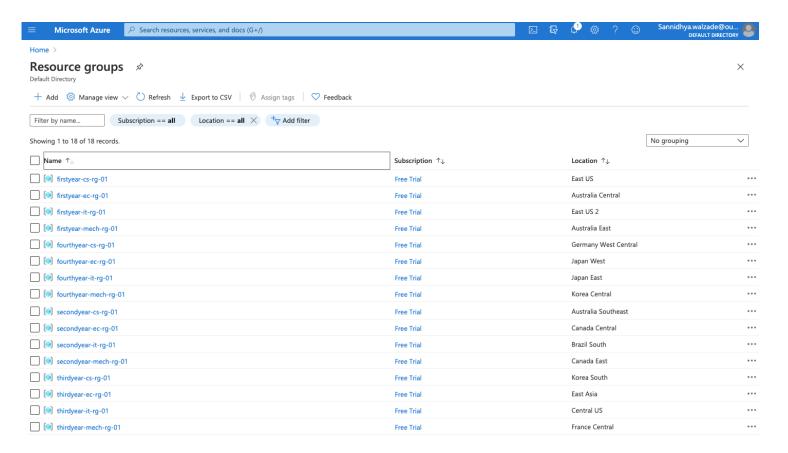
Images

Resource Groups:

Name ↑↓	Subscription ↑↓	Location ↑↓
firstyear-cs-rg-01	Free Trial	East US
firstyear-ec-rg-01	Free Trial	Australia Central
firstyear-it-rg-01	Free Trial	East US 2
firstyear-mech-rg-01	Free Trial	Australia East
fourthyear-cs-rg-01	Free Trial	Germany West Central
fourthyear-ec-rg-01	Free Trial	Japan West
fourthyear-it-rg-01	Free Trial	Japan East
fourthyear-mech-rg-01	Free Trial	Korea Central
secondyear-cs-01	Free Trial	Australia Southeast
secondyear-ec-rg-01	Free Trial	Canada Central
secondyear-it-rg-01	Free Trial	Brazil South
secondyear-mech-rg-01	Free Trial	Canada East
thirdyear-cs-rg-01	Free Trial	Korea South
thirdyear-ec-rg-01	Free Trial	East Asia
thirdyear-it-rg-01	Free Trial	Central US
thirdyear-mech-rg-01	Free Trial	France Central

First Year CS

Name ↑↓	Type ↑↓
firstyear-cs-vn-01	Virtual network
iiitpsa01	Storage account
L-fy-cs-vm-02	Virtual machine
L-fy-cs-vm-02-nic-01	Network interface
L-fy-cs-vm-02-pip-02	Public IP address
L-fy-cs-vm-02_OsDisk_1_a5b4d1ba3d6b48a4a9ffaea7921efaa4	Disk
W-fy-cs-vm-01	Virtual machine
W-fy-cs-vm-01-nic-01	Network interface
W-fy-cs-vm-01-pip-01	Public IP address
W-fy-cs-vm-01_disk1_cf122bc33a994359b0986376a47053cb	Disk

First Year IT

firstyear-it-rg-01
Resource group

Search (Cmd+/)	
Overview	
Activity log	
Access control (IAM)	
Tags	
Events	
Settings	
Quickstart	
Deployments	
Policies	
Properties	
Locks	
Export template	
Cost Management	
Cost analysis	
Cost alerts (preview)	
Budgets	
Advisor recommendations	

+ Add ≡≡ Edit columns 🗑 Delete resource group ↻ Refresh → Move ↓ Export to CSV   Assign tags 🗑 Delete ↓

Subscription (change) : Free Trial   Deployments : No deployments
Subscription ID   : 55852d69-0051-491e-9c4c-e9b5f92f683e
Tags (change)   : Click here to add tags

Filter by name...   Type == all ✕   Location == all ✕   Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
firstyear-it-nsg-01	Network security group
firstyear-it-vn-01	Virtual network
iiitpsa02	Storage account
L-fy-it-vm-02	Virtual machine
L-fy-it-vm-02-nic-01	Network interface
L-fy-it-vm-02-pip-02	Public IP address
L-fy-it-vm-02_OsDisk_1_1277a3d5523c4fcca9f288ce34fbd124	Disk
W-fy-it-vm-01	Virtual machine
W-fy-it-vm-01-nic-01	Network interface
W-fy-it-vm-01-pip-01	Public IP address

First Year EC

firstyear-ec-rg-01
Resource group

Search (Cmd+/)	
Overview	
Activity log	
Access control (IAM)	
Tags	
Events	
Settings	
Quickstart	
Deployments	
Policies	
Properties	
Locks	
Export template	
Cost Management	
Cost analysis	
Cost alerts (preview)	
Budgets	
Advisor recommendations	

+ Add ≡≡ Edit columns 🗑 Delete resource group ↻ Refresh → Move ↓ Export to CSV   Assign tags 🗑 Delete ↓

Subscription (change) : Free Trial   Deployments : No deployments
Subscription ID   : 55852d69-0051-491e-9c4c-e9b5f92f683e
Tags (change)   : Click here to add tags

Filter by name...   Type == all ✕   Location == all ✕   Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
Disk03	Disk
Disk07	Disk
firstyear-ec-nsg-01	Network security group
firstyear-ec-vn-01	Virtual network
iiitpsa03	Storage account
L-fy-ec-vm-02	Virtual machine
L-fy-ec-vm-02-nic-01	Network interface
L-fy-ec-vm-02-pip-02	Public IP address
L-fy-ec-vm-02_OsDisk_1_6662c56a0ee74756b8060a7299334b11	Disk
W-fy-ec-vm-01	Virtual machine

First Year Mech.

firstyear-mech-rg-01 📌
Resource group

	Search (Cmd+/) «
	Overview
	Activity log
	Access control (IAM)
	Tags
	Events

Settings

- Quickstart
- Deployments
- Policies
- Properties
- Locks
- Export template

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

+ Add   ≡≡ Edit columns   🗑 Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷 Assign tags   🗑 Delete   ↓

Subscription (change) : Free Trial

Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change) : Click here to add tags

Deployments : No deployments

Filter by name...   Type == **all** ✕   Location == **all** ✕   + Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
☐ 🛡 firstyear-mech-nsg-01	Network security group
☐ ⟷ firstyear-mech-vn-01	Virtual network
☐ 📇 iiitpsa04	Storage account
☐ 🖥 L-fy-mech-vm-02	Virtual machine
☐ 🖧 L-fy-mech-vm-02-nic-01	Network interface
☐ 🖼 L-fy-mech-vm-02-pip-02	Public IP address
☐ 🗄 L-fy-mech-vm-02_OsDisk_1_75ede83654044fd9ba851fbd003c2bc8	Disk
☐ 🖥 W-fy-mech-vm-01	Virtual machine
☐ 🖧 W-fy-mech-vm-01-nic-01	Network interface
☐ 🖼 W-fy-mech-vm-01-pip-01	Public IP address

Second Year CS

secondyear-cs-rg-01 📌
Resource group

	Search (Cmd+/) «
	Overview
	Activity log
	Access control (IAM)
	Tags
	Events

Settings

- Quickstart
- Deployments
- Policies
- Properties
- Locks
- Export template

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

+ Add   ≡≡ Edit columns   🗑 Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷 Assign tags   🗑 Delete   ↓

Subscription (change) : Free Trial

Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change) : Click here to add tags

Deployments : No deployments

Filter by name...   Type == **all** ✕   Location == **all** ✕   + Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
☐ 📇 iiitpsa05	Storage account
☐ 🖥 L-sy-cs-vm-02	Virtual machine
☐ 🖧 L-sy-cs-vm-02-nic-01	Network interface
☐ 🖼 L-sy-cs-vm-02-pip-02	Public IP address
☐ 🗄 L-sy-cs-vm-02_OsDisk_1_f5f66e9dd6864437827c89d48a0202c8	Disk
☐ 🛡 secondtyear-cs-nsg-01	Network security group
☐ ⟷ secondyear-cs-vn-01	Virtual network
☐ 🖥 W-sy-cs-vm-01	Virtual machine
☐ 🖧 W-sy-cs-vm-01-nic-01	Network interface
☐ 🖼 W-sy-cs-vm-01-pip-01	Public IP address

Second Year IT

secondyear-it-rg-01
Resource group

Search (Cmd+/)	«

- 💠 Overview
- 📋 Activity log
- 🔑 Access control (IAM)
- 🏷️ Tags
- ⚡ Events

Settings

- ☁️ Quickstart
- 📤 Deployments
- 📄 Policies
- ⚙️ Properties
- 🔒 Locks
- 📤 Export template

Cost Management

- 💲 Cost analysis
- 💲 Cost alerts (preview)
- 💲 Budgets
- 💡 Advisor recommendations

\+ Add   ≡≡ Edit columns   🗑️ Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷️ Assign tags   🗑️ Delete ↓

Subscription (change) : Free Trial   Deployments : No deployments

Subscription ID   : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change)   : Click here to add tags

          ⌃

| Filter by name... | Type == **all** ✕ | Location == **all** ✕ | ⁺ Add filter |

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

☐ Name ↑↓	Type ↑↓
☐ 🗄️ iiitpsa06	Storage account
☐ 🖥️ L-sy-it-vm-02	Virtual machine
☐ 🔌 L-sy-it-vm-02-nic-01	Network interface
☐ 🌐 L-sy-it-vm-02-pip-02	Public IP address
☐ 💽 L-sy-it-vm-02_OsDisk_1_dbdf5e600ff0401c9c1271cd60514ce4	Disk
☐ 🛡️ secondtyear-it-nsg-01	Network security group
☐ ↔ secondyear-it-vn-01	Virtual network
☐ 🖥️ W-sy-it-vm-01	Virtual machine
☐ 🔌 W-sy-it-vm-01-nic-01	Network interface
☐ 🌐 W-sy-it-vm-01-pip-01	Public IP address

Second Year EC

secondyear-ec-rg-01
Resource group

Search (Cmd+/)	«

- 💠 Overview
- 📋 Activity log
- 🔑 Access control (IAM)
- 🏷️ Tags
- ⚡ Events

Settings

- ☁️ Quickstart
- 📤 Deployments
- 📄 Policies
- ⚙️ Properties
- 🔒 Locks
- 📤 Export template

Cost Management

- 💲 Cost analysis
- 💲 Cost alerts (preview)
- 💲 Budgets
- 💡 Advisor recommendations

\+ Add   ≡≡ Edit columns   🗑️ Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷️ Assign tags   🗑️ Delete ↓

Subscription (change) : Free Trial   Deployments : No deployments

Subscription ID   : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change)   : Click here to add tags

          ⌃

| Filter by name... | Type == **all** ✕ | Location == **all** ✕ | ⁺ Add filter |

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

☐ Name ↑↓	Type ↑↓
☐ 🗄️ iiitpsa07	Storage account
☐ 🖥️ L-sy-ec-vm-02	Virtual machine
☐ 🔌 L-sy-ec-vm-02-nic-01	Network interface
☐ 🌐 L-sy-ec-vm-02-pip-02	Public IP address
☐ 💽 L-sy-ec-vm-02_OsDisk_1_a70e3d09951a47539a372054c8810cc9	Disk
☐ 🛡️ secondtyear-ec-nsg-01	Network security group
☐ ↔ secondyear-ec-vn-01	Virtual network
☐ 🖥️ W-sy-ec-vm-01	Virtual machine
☐ 🔌 W-sy-ec-vm-01-nic-01	Network interface
☐ 🌐 W-sy-ec-vm-01-pip-01	Public IP address

Second Year Mech.

secondyear-mech-rg-01 📌
Resource group

🔍 Search (Cmd+/) «	+ Add ≡≡ Edit columns 🗑 Delete resource group ↻ Refresh → Move ↓ Export to CSV ⊘ Assign tags 🗑 Delete ↓	

🔲 **Overview**	Subscription (change) : Free Trial
🗒 Activity log	Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e
🔑 Access control (IAM)	Tags (change) : Click here to add tags
🏷 Tags	
⚡ Events	

Deployments : No deployments

Settings

| Filter by name... | Type == all ✕ | Location == all ✕ | + Add filter |

Showing 1 to 13 of 13 records. ☐ Show hidden types ⓘ

☐ Name ↑↓	Type ↑↓
☐ 🟩 iiitpsa08	Storage account
☐ 🖥 L-sy-mech-vm-02	Virtual machine
☐ 🟩 L-sy-mech-vm-02-nic-01	Network interface
☐ 🖧 L-sy-mech-vm-02-pip-02	Public IP address
☐ 🟦 L-sy-mech-vm-02_OsDisk_1_190a22e4d6b349f88cc7973984e73702	Disk
☐ 🛡 secondtyear-mech-nsg-01	Network security group
☐ ‹·› secondyear-mech-vn-01	Virtual network
☐ 🖥 W-sy-mech-vm-01	Virtual machine
☐ 🟩 W-sy-mech-vm-01-nic-01	Network interface
☐ 🖧 W-sy-mech-vm-01-pip-01	Public IP address

Settings sidebar: Quickstart, Deployments, Policies, Properties, Locks, Export template

Cost Management sidebar: Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations

Third Year CS

thirdyear-cs-rg-01 📌
Resource group

🔍 Search (Cmd+/) «	+ Add ≡≡ Edit columns 🗑 Delete resource group ↻ Refresh → Move ↓ Export to CSV ⊘ Assign tags 🗑 Delete ↓	

🔲 **Overview**	Subscription (change) : Free Trial
🗒 Activity log	Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e
🔑 Access control (IAM)	Tags (change) : Click here to add tags
🏷 Tags	
⚡ Events	

Deployments : No deployments

Settings

| Filter by name... | Type == all ✕ | Location == all ✕ | + Add filter |

Showing 1 to 13 of 13 records. ☐ Show hidden types ⓘ

☐ Name ↑↓	Type ↑↓
☐ 🟩 iiitpsa09	Storage account
☐ 🖥 L-ty-cs-vm-02	Virtual machine
☐ 🟩 L-ty-cs-vm-02-nic-01	Network interface
☐ 🖧 L-ty-cs-vm-02-pip-02	Public IP address
☐ 🟦 L-ty-cs-vm-02_OsDisk_1_162e2b633e19451d9e08416126ce26fc	Disk
☐ 🛡 thirdyear-cs-nsg-01	Network security group
☐ ‹·› thirdyear-cs-vn-01	Virtual network
☐ 🖥 W-ty-cs-vm-01	Virtual machine
☐ 🟩 W-ty-cs-vm-01-nic-01	Network interface
☐ 🖧 W-ty-cs-vm-01-pip-01	Public IP address

Settings sidebar: Quickstart, Deployments, Policies, Properties, Locks, Export template

Cost Management sidebar: Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations

Third Year IT

thirdyear-it-rg-01
Resource group

Search (Cmd+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Events

Settings

- Quickstart
- Deployments
- Policies
- Properties
- Locks
- Export template

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

+ Add   Edit columns   Delete resource group   Refresh   → Move   ↓ Export to CSV   Assign tags   Delete

Subscription (change) : Free Trial

Subscription ID   : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change)   : Click here to add tags

Deployments : No deployments

Filter by name...   Type == all ✕   Location == all ✕   + Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name	Type
☐ iiitpsa10	Storage account
☐ L-ty-it-vm-02	Virtual machine
☐ L-ty-it-vm-02-nic-01	Network interface
☐ L-ty-it-vm-02-pip-02	Public IP address
☐ L-ty-it-vm-02_OsDisk_1_34e6b6b0431945e3864bca1ba15e4557	Disk
☐ thirdyear-it-nsg-01	Network security group
☐ thirdyear-it-vn-01	Virtual network
☐ W-ty-it-vm-01	Virtual machine
☐ W-ty-it-vm-01-nic-01	Network interface
☐ W-ty-it-vm-01-pip-01	Public IP address

Third Year EC

thirdyear-ec-rg-01
Resource group

Search (Cmd+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Events

Settings

- Quickstart
- Deployments
- Policies
- Properties
- Locks
- Export template

Cost Management

- Cost analysis
- Cost alerts (preview)
- Budgets
- Advisor recommendations

+ Add   Edit columns   Delete resource group   Refresh   → Move   ↓ Export to CSV   Assign tags   Delete

Subscription (change) : Free Trial

Subscription ID   : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change)   : Click here to add tags

Deployments : No deployments

Filter by name...   Type == all ✕   Location == all ✕   + Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name	Type
☐ iiitpsa11	Storage account
☐ L-ty-ec-vm-02	Virtual machine
☐ L-ty-ec-vm-02-nic-01	Network interface
☐ L-ty-ec-vm-02-pip-02	Public IP address
☐ L-ty-ec-vm-02_OsDisk_1_f71c6efe94424f58ae561e51a6787619	Disk
☐ thirdyear-ec-nsg-01	Network security group
☐ thirdyear-ec-vn-01	Virtual network
☐ W-ty-ec-vm-01	Virtual machine
☐ W-ty-ec-vm-01-nic-01	Network interface
☐ W-ty-ec-vm-01-pip-01	Public IP address

Third Year Mech.

thirdyear-mech-rg-01 📌
Resource group

+ Add   ≡≡ Edit columns   🗑 Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷 Assign tags   🗑 Delete   ↓

Overview	Subscription (change) : Free Trial
Activity log	Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e
Access control (IAM)	Tags (change) : Click here to add tags
Tags	
Events	

Deployments : No deployments

Settings

Quickstart

Deployments

Policies

Properties

Locks

Export template

Cost Management

Cost analysis

Cost alerts (preview)

Budgets

Advisor recommendations

Filter by name...   Type == **all** ✕   Location == **all** ✕   ⁺ Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
☐ iiitpsa12	Storage account
☐ L-ty-mech-vm-02	Virtual machine
☐ L-ty-mech-vm-02-nic-01	Network interface
☐ L-ty-mech-vm-02-pip-02	Public IP address
☐ L-ty-mech-vm-02_OsDisk_1_1f5e204e0e4d4e3aa857e3e7b4f806ec	Disk
☐ thirdyear-mech-nsg-01	Network security group
☐ thirdyear-mech-vn-01	Virtual network
☐ W-ty-mech-vm-01	Virtual machine
☐ W-ty-mech-vm-01-nic-01	Network interface
☐ W-ty-mech-vm-01-pip-01	Public IP address

Fourth Year CS

fourthyear-cs-rg-01 📌
Resource group

+ Add   ≡≡ Edit columns   🗑 Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷 Assign tags   🗑 Delete   ↓

Overview	Subscription (change) : Free Trial
Activity log	Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e
Access control (IAM)	Tags (change) : Click here to add tags
Tags	
Events	

Deployments : No deployments

Settings

Quickstart

Deployments

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Properties

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Export template

Cost Management

Cost analysis

Cost alerts (preview)

Budgets

Advisor recommendations

Filter by name...   Type == **all** ✕   Location == **all** ✕   ⁺ Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
☐ fourthyear-cs-nsg-01	Network security group
☐ fourthyear-cs-vn-01	Virtual network
☐ iiitpsa13	Storage account
☐ L-foy-cs-vm-02	Virtual machine
☐ L-foy-cs-vm-02-nic-01	Network interface
☐ L-foy-cs-vm-02-pip-02	Public IP address
☐ L-foy-cs-vm-02_OsDisk_1_3de825e1fc714f13a76ab689e1bde833	Disk
☐ W-foy-cs-vm-01	Virtual machine
☐ W-foy-cs-vm-01-nic-01	Network interface
☐ W-foy-cs-vm-01-pip-01	Public IP address

Fourth Year IT

fourthyear-it-rg-01
Resource group

Search (Cmd+/) «	+ Add ≡≡ Edit columns 🗑 Delete resource group ↻ Refresh → Move ↓ Export to CSV	⌾ Assign tags 🗑 Delete ↓
[◉] Overview	Subscription (change) : Free Trial Deployments : No deployments
▤ Activity log	Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e
ஃ Access control (IAM)	Tags (change) : Click here to add tags
◆ Tags	⌃
⚡ Events	

Settings

Filter by name...   Type == **all** ✕   Location == **all** ✕   ⁺ᵧ Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

☐ Name ↑↓	Type ↑↓
☐ 🛡 fourthyear-it-nsg-01	Network security group
☐ ⟨·⟩ fourthyear-it-vn-01	Virtual network
☐ ▭ iiitpsa14	Storage account
☐ 🖥 L-foy-it-vm-02	Virtual machine
☐ ▦ L-foy-it-vm-02-nic-01	Network interface
☐ ▦ L-foy-it-vm-02-pip-02	Public IP address
☐ 🟢 L-foy-it-vm-02_OsDisk_1_fb940f629dfc41b88f6159bffd9e4541	Disk
☐ 🖥 W-foy-it-vm-01	Virtual machine
☐ ▦ W-foy-it-vm-01-nic-01	Network interface
☐ ▦ W-foy-it-vm-01-pip-01	Public IP address

Sidebar: Overview, Activity log, Access control (IAM), Tags, Events, Settings: Quickstart, Deployments, Policies, Properties, Locks, Export template, Cost Management: Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations

Fourth Year EC

fourthyear-ec-rg-01
Resource group

Search (Cmd+/) «	+ Add ≡≡ Edit columns 🗑 Delete resource group ↻ Refresh → Move ↓ Export to CSV	⌾ Assign tags 🗑 Delete ↓
[◉] Overview	Subscription (change) : Free Trial Deployments : No deployments
▤ Activity log	Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e
ஃ Access control (IAM)	Tags (change) : Click here to add tags
◆ Tags	⌃
⚡ Events	

Settings

Filter by name...   Type == **all** ✕   Location == **all** ✕   ⁺ᵧ Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

☐ Name ↑↓	Type ↑↓
☐ 🛡 fourthyear-ec-nsg-01	Network security group
☐ ⟨·⟩ fourthyear-ec-vn-01	Virtual network
☐ ▭ iiitpsa15	Storage account
☐ 🖥 L-foy-ec-vm-02	Virtual machine
☐ ▦ L-foy-ec-vm-02-nic-01	Network interface
☐ ▦ L-foy-ec-vm-02-pip-02	Public IP address
☐ 🟢 L-foy-ec-vm-02_OsDisk_1_0f8a1eae68314e22a7a07b2af184f9b8	Disk
☐ 🖥 W-foy-ec-vm-01	Virtual machine
☐ ▦ W-foy-ec-vm-01-nic-01	Network interface
☐ ▦ W-foy-ec-vm-01-pip-01	Public IP address

Sidebar: Overview, Activity log, Access control (IAM), Tags, Events, Settings: Quickstart, Deployments, Policies, Properties, Locks, Export template, Cost Management: Cost analysis, Cost alerts (preview), Budgets, Advisor recommendations

Fourth Year Mech.

fourthyear-mech-rg-01 📌
Resource group

<table>
<tr><td>🔍 Search (Cmd+/)</td><td>«</td></tr>
</table>

+ Add   ≡≡ Edit columns   🗑 Delete resource group   ↻ Refresh   → Move   ↓ Export to CSV | 🏷 Assign tags   🗑 Delete   ↓

Overview

Activity log

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Budgets

Advisor recommendations

Subscription (change) : Free Trial

Subscription ID : 55852d69-0051-491e-9c4c-e9b5f92f683e

Tags (change) : Click here to add tags

Deployments : No deployments

⌃

Filter by name...   Type == **all** ✕   Location == **all** ✕   ⁺⟋ Add filter

Showing 1 to 13 of 13 records.   ☐ Show hidden types ⓘ

Name ↑↓	Type ↑↓
☐ 🛡 fourthyear-mech-nsg-01	Network security group
☐ ‹∙› fourthyear-mech-vn-01	Virtual network
☐ ▦ iiitpsa16	Storage account
☐ 🖥 L-foy-mech-vm-02	Virtual machine
☐ 🖧 L-foy-mech-vm-02-nic-01	Network interface
☐ ▦ L-foy-mech-vm-02-pip-02	Public IP address
☐ 💾 L-foy-mech-vm-02_OsDisk_1_cd72cc6edbc44af6ae0942504e0e6c8d	Disk
☐ 🖥 W-foy-mec-vm-01	Virtual machine
☐ 💾 W-foy-mec-vm-01_OsDisk_1_9248689e3c464cc495e8596ab0fd91e6	Disk
☐ 🖧 W-foy-mech-vm-01-nic-01	Network interface

Naming Convention Followed

Resource Group - Name

firstyear-cs-rg-01 , firstyear-it-rg-01 , firstyear-ec-rg-01 , firstyear-mech-rg-01
secondyear-cs-rg-01, secondyear-it-rg-01, secondyear-ec-rg-01, secondyear-mech-rg-01,
thirdyear-cs-rg-01, thirdyear-it-rg-01, thirdyear-ec-rg-01, thirdyear-mech-rg-01,
Fourthyear-cs-rg-01, Fourthyear-it-rg-01, Fourthyear-ec-rg-01, Fourthyear-mech-rg-01

Virtual Network – Name

firstyear-cs-vn-01 Vnet Range – 10.0.0.0/25
firstyear-it-vn-01 Vnet Range – 20.0.0.0/25
firstyear-ec-vn-01 Vnet Range – 30.0.0.0/25
firstyear-mech-vn-01 Vnet Range – 40.0.0.0/25

secondyear-cs-vn-01 Vnet Range – 50.0.0.0/25
secondyear-it-vn-01 Vnet Range – 60.0.0.0/25
secondyear-ec-vn-01 Vnet Range – 70.0.0.0/25
secondyear-mech-vn-01 Vnet Range – 80.0.0.0/25

thirdyear-cs-vn-01 Vnet Range – 90.0.0.0/25
thirdyear-it-vn-01 Vnet Range – 100.0.0.0/25
thirdyear-ec-vn-01 Vnet Range – 110.0.0.0/25
thirdyear-mech-vn-01 Vnet Range – 120.0.0.0/25

fourthyear-cs-vn-01 Vnet Range – 130.0.0.0/25
fourthyear-it-vn-01 Vnet Range – 140.0.0.0/25
fourthyear-ec-vn-01 Vnet Range – 150.0.0.0/25
fourthyear-mech-vn-01 Vnet Range – 160.0.0.0/25

Subnets
There are total 64 computers in each subnet.
cs-lab-sn-01 to cs-lab-sn-08
it-lab-sn-01 to it-lab-sn-08
ec-lab-sn-01 to ec-lab-sn-08
mech-lab-sn-01 to mech-lab-sn-08

Network Security Group
<Year>-<Branch>-nsg-01

Disk
Size - 80Gb
Name - Disk01 to Disk32

Public IP address
Naming format - <Computer Name>-pip-01

Network Interface Card
Naming Format - <Computer Name>-nic-01

Storage Account
Naming Format - <College Name>sa01

Operating System-
Windows – Windows server 2019 datacenter
Linux – Ubuntu server 18.04 LTS

Virtual Machines

	CS	IT	EC	Mech.
FIRST YEAR	W-fy-cs-vm-01	W-fy-it-vm-01	W-fy-ec-vm-01	W-fy-mech-vm-01
	L-fy-cs-vm-02	L-fy-it-vm-02	L-fy-ec-vm-02	L-fy-mech-vm-02
SECOND YEAR	W-sy-cs-vm-01	W-sy-it-vm-01	W-sy-cs-vm-01	W-sy-it-vm-01
	L-sy-cs-vm-02	L-sy-it-vm-02	L-sy-it-vm-1	L-sy-it-vm0
THIRD YEAR	W-ty-cs-vm-01	W-ty-it-vm-01	W-ty-ec-vm-01	W-ty-mech-vm-01
	L-ty-cs-vm-02	L-ty-it-vm-02	L-ty-ec-vm-02	L-ty-mech-vm-02
FOURTH YEAR	W-foy-cs-vm-01	W-foy-it-vm-01	W-foy-ec-vm-01	W-foy-mec-vm-01
	L-foy-cs-vm-02	L-foy-it-vm-02	L-foy-ec-vm-02	L-foy-mech-vm-02

JSON SCRIPT

```json
{
    "$schema": "https://schema.management.azure.com/schemas/2019-04-01/
deploymentTemplate.json#",
    "contentVersion": "1.0.0.0",
    "parameters": {
      "adminUsername": {
        "type": "string",
        "metadata": {
          "description": "Username for the Virtual Machine."
        }
      },
      "adminPassword": {
        "type": "securestring",
        "metadata": {
          "description": "Password for the Virtual Machine."
        }
      },
      "dnsLabelPrefix": {
        "type": "string",
        "metadata": {
          "description": "Unique DNS Name for the Public IP used to access the Virtual Machine."
        }
      },
      "windowsOSVersion": {
        "type": "string",
        "defaultValue": "2016-Datacenter",
        "allowedValues": [
          "2008-R2-SP1",
          "2012-Datacenter",
          "2012-R2-Datacenter",
          "2016-Nano-Server",
          "2016-Datacenter-with-Containers",
          "2016-Datacenter",
          "2019-Datacenter"
        ],
        "metadata": {
          "description": "The Windows version for the VM. This will pick a fully patched image of this
given Windows version."
        }
      },
      "vmSize": {
        "type": "string",
        "defaultValue": "Standard_D2_v3",
        "metadata": {
          "description": "Size of the virtual machine."
        }
      },
      "location": {
        "type": "string",
        "defaultValue": "[resourceGroup().location]",
        "metadata": {
          "description": "Location for all resources."
```

```json
        }
      }
    },
    "variables": {
      "storageAccountName": "[concat(uniquestring(resourceGroup().id), 'sawinvm')]",
      "nicName": "myVMNic",
      "addressPrefix": "10.0.0.0/16",
      "subnetName": "Subnet",
      "subnetPrefix": "10.0.0.0/24",
      "publicIPAddressName": "myPublicIP",
      "vmName": "SimpleWinVM",
      "virtualNetworkName": "MyVNET",
      "subnetRef": "[resourceId('Microsoft.Network/virtualNetworks/subnets',
variables('virtualNetworkName'), variables('subnetName'))]",
      "networkSecurityGroupName": "default-NSG"
    },
    "resources": [
      {
        "type": "Microsoft.Storage/storageAccounts",
        "apiVersion": "2018-11-01",
        "name": "[variables('storageAccountName')]",
        "location": "[parameters('location')]",
        "sku": {
          "name": "Standard_LRS"
        },
        "kind": "Storage",
        "properties": {}
      },
      {
        "type": "Microsoft.Network/publicIPAddresses",
        "apiVersion": "2018-11-01",
        "name": "[variables('publicIPAddressName')]",
        "location": "[parameters('location')]",
        "properties": {
          "publicIPAllocationMethod": "Dynamic",
          "dnsSettings": {
            "domainNameLabel": "[parameters('dnsLabelPrefix')]"
          }
        }
      },
      {
        "comments": "Default Network Security Group for template",
        "type": "Microsoft.Network/networkSecurityGroups",
        "apiVersion": "2019-08-01",
        "name": "[variables('networkSecurityGroupName')]",
        "location": "[parameters('location')]",
        "properties": {
          "securityRules": [
            {
              "name": "default-allow-3389",
              "properties": {
                "priority": 1000,
                "access": "Allow",
                "direction": "Inbound",
                "destinationPortRange": "3389",
                "protocol": "Tcp",
                "sourcePortRange": "*",
                "sourceAddressPrefix": "*",
                "destinationAddressPrefix": "*"
              }
            }
```

```json
        }
      ]
    }
  },
  {
    "type": "Microsoft.Network/virtualNetworks",
    "apiVersion": "2018-11-01",
    "name": "[variables('virtualNetworkName')]",
    "location": "[parameters('location')]",
    "dependsOn": [
      "[resourceId('Microsoft.Network/networkSecurityGroups',
variables('networkSecurityGroupName'))]"
    ],
    "properties": {
      "addressSpace": {
        "addressPrefixes": [
          "[variables('addressPrefix')]"
        ]
      },
      "subnets": [
        {
          "name": "[variables('subnetName')]",
          "properties": {
            "addressPrefix": "[variables('subnetPrefix')]",
            "networkSecurityGroup": {
              "id": "[resourceId('Microsoft.Network/networkSecurityGroups',
variables('networkSecurityGroupName'))]"
            }
          }
        }
      ]
    }
  },
  {
    "type": "Microsoft.Network/networkInterfaces",
    "apiVersion": "2018-11-01",
    "name": "[variables('nicName')]",
    "location": "[parameters('location')]",
    "dependsOn": [
      "[resourceId('Microsoft.Network/publicIPAddresses/', variables('publicIPAddressName'))]",
      "[resourceId('Microsoft.Network/virtualNetworks/', variables('virtualNetworkName'))]"
    ],
    "properties": {
      "ipConfigurations": [
        {
          "name": "ipconfig1",
          "properties": {
            "privateIPAllocationMethod": "Dynamic",
            "publicIPAddress": {
              "id": "[resourceId('Microsoft.Network/
publicIPAddresses',variables('publicIPAddressName'))]"
            },
            "subnet": {
              "id": "[variables('subnetRef')]"
            }
          }
        }
      ]
    }
  },
```

```json
      {
        "type": "Microsoft.Compute/virtualMachines",
        "apiVersion": "2018-10-01",
        "name": "[variables('vmName')]",
        "location": "[parameters('location')]",
        "dependsOn": [
          "[resourceId('Microsoft.Storage/storageAccounts/', variables('storageAccountName'))]",
          "[resourceId('Microsoft.Network/networkInterfaces/', variables('nicName'))]"
        ],
        "properties": {
          "hardwareProfile": {
            "vmSize": "[parameters('vmSize')]"
          },
          "osProfile": {
            "computerName": "[variables('vmName')]",
            "adminUsername": "[parameters('adminUsername')]",
            "adminPassword": "[parameters('adminPassword')]"
          },
          "storageProfile": {
            "imageReference": {
              "publisher": "MicrosoftWindowsServer",
              "offer": "WindowsServer",
              "sku": "[parameters('windowsOSVersion')]",
              "version": "latest"
            },
            "osDisk": {
              "createOption": "FromImage"
            },
            "dataDisks": [
              {
                "diskSizeGB": 1023,
                "lun": 0,
                "createOption": "Empty"
              }
            ]
          },
          "networkProfile": {
            "networkInterfaces": [
              {
                "id": "[resourceId('Microsoft.Network/networkInterfaces',variables('nicName'))]"
              }
            ]
          },
          "diagnosticsProfile": {
            "bootDiagnostics": {
              "enabled": true,
              "storageUri": "[reference(resourceId('Microsoft.Storage/storageAccounts/',
variables('storageAccountName'))).primaryEndpoints.blob]"
            }
          }
        }
      }
    ],
    "outputs": {
      "hostname": {
        "type": "string",
        "value": "[reference(variables('publicIPAddressName')).dnsSettings.fqdn]"
      }
    }
  }
}
```

Screenshots