Manage Azure PowerShell and Azure CLI

Manage Azure PowerShell

1. Install powershell module using visual Studio code

Below command for installing powershell module

Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser

Install-Module -Name Az -AllowClobber -Force -Scope CurrentUser

2. PowerShell code to connect to Azure Subsription

```
Connect-AzAccount -DeviceCode
```

3. Powershell command to Create/delete/list resource group

```
# Define Variable

$resourceGroupName="staging-grp"
$location="North Europe"

# To create new resource Group

New-AzResourceGroup -Name $resourceGroupName -Location $location

# To Remove Existing resource Group

Remove-AzResourceGroup -Name $resourceGroupName -Force

# List resource group
Get-AzResourceGroup
```


```
# Define Variable
$resourceGroupName="staging-grp"
$location="North Europe"

# To create new resource Group
New-AzResourceGroup -Name $resourceGroupName -Location $location

# To Remove Existing resource Group
Remove-AzResourceGroup -Name $resourceGroupName -Force

# List resource group
Get-AzResourceGroup
```


4. Powershell command to Create/delete/list Virtual Network

```powershell
#Define variable
$resourceGroupName="staging-grp"
$location="North Europe"
$networkName="app-network"
$addressPrefix="10.0.0.0/16"

#Create a New Resource Group
New-AzResourceGroup -Name $resourceGroupName -Location $location

#Create a New Virtual Network, tild (`) for Next line
New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix

#To list Virtual Network

$VirtualNetwork=Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName
write-Host $VirtualNetwork.Location
write-Host $VirtualNetwork.AddressSpace.AddressPrefixes

#To delete Virtual Network
Remove-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName -Force
```


#Define variable
$resourceGroupName="staging-grp"
$location="North Europe"
$networkName="app-network"
$addressPrefix="10.0.0.0/16"

#Create a New Resource Group
New-AzResourceGroup -Name $resourceGroupName -Location $location

#Create a New Virtual Network, tild (`) for Next line
New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix

#To list Virtual Network

$VirtualNetwork=Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName
write-Host $VirtualNetwork.Location
write-Host $VirtualNetwork.AddressSpace.AddressPrefixes

#To delete Virtual Network
Remove-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName -Force

5. Powershell command to Create subnet in existing virtual network

```powershell
#Define variable
$resourceGroupName="staging-grp"
$location="North Europe"
$networkName="app-network"
$addressPrefix="10.0.0.0/16"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"

#Create a New Resource Group
New-AzResourceGroup -Name $resourceGroupName -Location $location

#Create a New Virtual Network, tild (`) for Next line
New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix

#to list Virtual Network and store in variable name virtualNetwork
$VirtualNetwork=Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName

# add a subnet configuration to an existing virtual network (VNet)
Add-AzVirtualNetworkSubnetConfig -Name $subnetName -VirtualNetwork $VirtualNetwork `
-AddressPrefix $subnetAddressPrefix

# apply changes made to a virtual network object ($VirtualNetwork) in Azure
$VirtualNetwork | Set-AzVirtualNetwork
```

```
#Define variable
$resourceGroupName="staging-grp"
$location="North Europe"
$networkName="app-network"
$addressPrefix="10.0.0.0/16"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"

#Create a New Resource Group
New-AzResourceGroup -Name $resourceGroupName -Location $location

#Create a New Virtual Network, tild (`) for Next line
New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix

#to list Virtual Network and store in variable name virtualNetwork
$VirtualNetwork=Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName

# add a subnet configuration to an existing virtual network (VNet)
Add-AzVirtualNetworkSubnetConfig -Name $subnetName -VirtualNetwork $VirtualNetwork `
-AddressPrefix $subnetAddressPrefix

# apply changes made to a virtual network object ($VirtualNetwork) in Azure
$VirtualNetwork | Set-AzVirtualNetwork
```

6. Powershell command to delete subnet in existing virtual network

```
#Define variable
$resourceGroupName="staging-grp"
$location="North Europe"
$networkName="app-network"
$addressPrefix="10.0.0.0/16"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"

# Step 1: Get the virtual network
$VirtualNetwork = Get-AzVirtualNetwork -ResourceGroupName $resourceGroupName -Name $networkName

# Step 2: Remove the subnet
Remove-AzVirtualNetworkSubnetConfig -Name $subnetName -VirtualNetwork $VirtualNetwork

# Step 3: Apply the changes to the virtual network
$VirtualNetwork | Set-AzVirtualNetwork
```


```
#Define variable
$resourceGroupName="staging-grp"
$location="North Europe"
$networkName="app-network"
$addressPrefix="10.0.0.0/16"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"

# Step 1: Get the virtual network
$VirtualNetwork = Get-AzVirtualNetwork -ResourceGroupName $resourceGroupName -Name $networkName

# Step 2: Remove the subnet
Remove-AzVirtualNetworkSubnetConfig -Name $subnetName -VirtualNetwork $VirtualNetwork

# Step 3: Apply the changes to the virtual network
$VirtualNetwork | Set-AzVirtualNetwork
```


7. Powershell command to Create New subnet in New virtual network

```
$resourceGroupName="staging-grp"
$networkName="app-network"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"
$addressPrefix="10.0.0.0/16"
$location="North Europe"

$subnet=New-AzVirtualNetworkSubnetConfig -Name $subnetName -AddressPrefix $subnetAddressPrefix

New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix -Subnet $subnet
```

```
$resourceGroupName="staging-grp"
$networkName="app-network"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"
$addressPrefix="10.0.0.0/16"
$location="North Europe"
$subnet=New-AzVirtualNetworkSubnetConfig -Name $subnetName -AddressPrefix $subnetAddressPrefix

New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix -Subnet $subnet
```

8. Powershell command to Create New NIC in existing subnet and existing virtual network

```
$resourceGroupName="staging-grp"
$networkName="app-network"
$subnetName="SubnetA"
$networkInterfaceName="app-interface"

$VirtualNetwork = Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName

$subnet=Get-AzVirtualNetworkSubnetConfig -VirtualNetwork $VirtualNetwork -Name $subnetName

New-AzNetworkInterface -Name $networkInterfaceName -ResourceGroupName $resourceGroupName `
-Location $location -SubnetId $subnet.Id -IpConfigurationName "IpConfig"
```

```
$resourceGroupName="staging-grp"
$networkName="app-network"
$subnetName="SubnetA"
$networkInterfaceName="app-interface"
$VirtualNetwork = Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName
$subnet=Get-AzVirtualNetworkSubnetConfig -VirtualNetwork $VirtualNetwork -Name $subnetName

New-AzNetworkInterface -Name $networkInterfaceName -ResourceGroupName $resourceGroupName `
-Location $location -SubnetId $subnet.Id -IpConfigurationName "IpConfig"
```

9. Powershell command to Create New NIC in New subnet and New virtual network

```powershell
$nicLocation = "North Europe"
$networkInterfaceName = "app-interface"
$resourceGroupName = "staging-grp"
$location = "North Europe"
$networkName = "app-network"
$addressPrefix = "10.0.0.0/16"
$subnetName = "app-subnet"
$subnetAddressPrefix = "10.0.1.0/24"

# Step 1: Create the Resource Group (if it doesn't already exist)
New-AzResourceGroup -Name $resourceGroupName -Location $location

# Step 2: Create the Virtual Network with the Address Prefix
$virtualNetwork = New-AzVirtualNetwork -ResourceGroupName $resourceGroupName `
    -Location $location -Name $networkName -AddressPrefix $addressPrefix

# Step 3: Create the Subnet and Add it to the Virtual Network
$virtualNetwork | Add-AzVirtualNetworkSubnetConfig -Name $subnetName `
    -AddressPrefix $subnetAddressPrefix | Set-AzVirtualNetwork

# Step 4: Get the Subnet reference (to use in the NIC configuration)
$virtualNetwork = Get-AzVirtualNetwork -ResourceGroupName $resourceGroupName -Name $networkName
$subnet = Get-AzVirtualNetworkSubnetConfig -VirtualNetwork $virtualNetwork -Name $subnetName

# Step 5: Create the NIC configuration with correct Subnet reference
$nicConfig = New-AzNetworkInterfaceIpConfig -Name "IpConfig" -SubnetId $subnet.Id

# Step 6: Create the Network Interface with the Subnet reference
$nic = New-AzNetworkInterface -Name $networkInterfaceName `
    -ResourceGroupName $resourceGroupName -Location $nicLocation -IpConfiguration $nicConfig

# Output the created Network Interface details
$nic
```


```
$nicLocation = "North Europe"
$networkInterfaceName = "app-interface"
$resourceGroupName = "staging-grp"
$location = "North Europe"
$networkName = "app-network"
$addressPrefix = "10.0.0.0/16"
$subnetName = "app-subnet"
$subnetAddressPrefix = "10.0.1.0/24"

# Step 1: Create the Resource Group (if it doesn't already exist)
New-AzResourceGroup -Name $resourceGroupName -Location $location

# Step 2: Create the Virtual Network with the Address Prefix
$virtualNetwork = New-AzVirtualNetwork -ResourceGroupName $resourceGroupName `
  -Location $location -Name $networkName -AddressPrefix $addressPrefix

# Step 3: Create the Subnet and Add it to the Virtual Network
$virtualNetwork | Add-AzVirtualNetworkSubnetConfig -Name $subnetName `
  -AddressPrefix $subnetAddressPrefix | Set-AzVirtualNetwork

# Step 4: Get the Subnet reference (to use in the NIC configuration)
$virtualNetwork = Get-AzVirtualNetwork -ResourceGroupName $resourceGroupName -Name $networkName
$subnet = Get-AzVirtualNetworkSubnetConfig -VirtualNetwork $virtualNetwork -Name $subnetName

# Step 5: Create the NIC configuration with correct Subnet reference
$nicConfig = New-AzNetworkInterfaceIpConfig -Name "IpConfig" -SubnetId $subnet.Id

# Step 6: Create the Network Interface with the Subnet reference
$nic = New-AzNetworkInterface -Name $networkInterfaceName `
  -ResourceGroupName $resourceGroupName -Location $nicLocation -IpConfiguration $nicConfig

# Output the created Network Interface details
$nic
```


10. Powershell command to Create New PublicIP in Existing Resource Group

```
$resourceGroupName="staging-grp"
$location="North Europe"
$publicIPAddressName="app-ip"

New-AzPublicIpAddress -Name $publicIPAddressName -ResourceGroupName $resourceGroupName `
-Location $location -AllocationMethod Static
```

```
$resourceGroupName="staging-grp"
$location="North Europe"
$publicIPAddressName="app-ip"

New-AzPublicIpAddress -Name $publicIPAddressName -ResourceGroupName $resourceGroupName `
-Location $location -AllocationMethod Static
```

11. Powershell command to Create New PublicIP in New Resource Group

```
# Define the necessary variables
$resourceGroupName = "YourResourceGroupName"
$location = "YourLocation"
$publicIpName = "YourPublicIpName"

# Step 1: Create the Resource Group (if it doesn't already exist)
New-AzResourceGroup -Name $resourceGroupName -Location $location

# Step 2: Create the Public IP Address
$publicIp = New-AzPublicIpAddress -ResourceGroupName $resourceGroupName `
    -Location $location -Name $publicIpName -AllocationMethod Static -Sku Standard

# Output the created Public IP Address details
$publicIp
```

```
# Define the necessary variables
$resourceGroupName = "YourResourceGroupName"
$location = "YourLocation"
$publicIpName = "YourPublicIpName"
# Step 1: Create the Resource Group (if it doesn't already exist)
New-AzResourceGroup -Name $resourceGroupName -Location $location

# Step 2: Create the Public IP Address
$publicIp = New-AzPublicIpAddress -ResourceGroupName $resourceGroupName `
  -Location $location -Name $publicIpName -AllocationMethod Static -Sku Standard
# Output the created Public IP Address details
$publicIp
```

12. Powershell command to Create a NSG

```
$resourceGroupName="staging-grp"
$location="North Europe"
$networkSecurityGroupName="app-nsg"

$nsgRule1=New-AzNetworkSecurityRuleConfig -Name "Allow-RDP" -Access Allow -Protocol Tcp `
-Direction Inbound -Priority 120 -SourceAddressPrefix Internet -SourcePortRange * `
-DestinationAddressPrefix 10.0.0.0/24 -DestinationPortRange 3389

$nsgRule2=New-AzNetworkSecurityRuleConfig -Name "Allow-HTTP" -Access Allow -Protocol Tcp `
-Direction Inbound -Priority 130 -SourceAddressPrefix Internet -SourcePortRange * `
-DestinationAddressPrefix 10.0.0.0/24 -DestinationPortRange 80

New-AzNetworkSecurityGroup -Name $networkSecurityGroupName -ResourceGroupName $resourceGroupName `
-Location $location -SecurityRules $nsgRule1,$nsgRule2
```

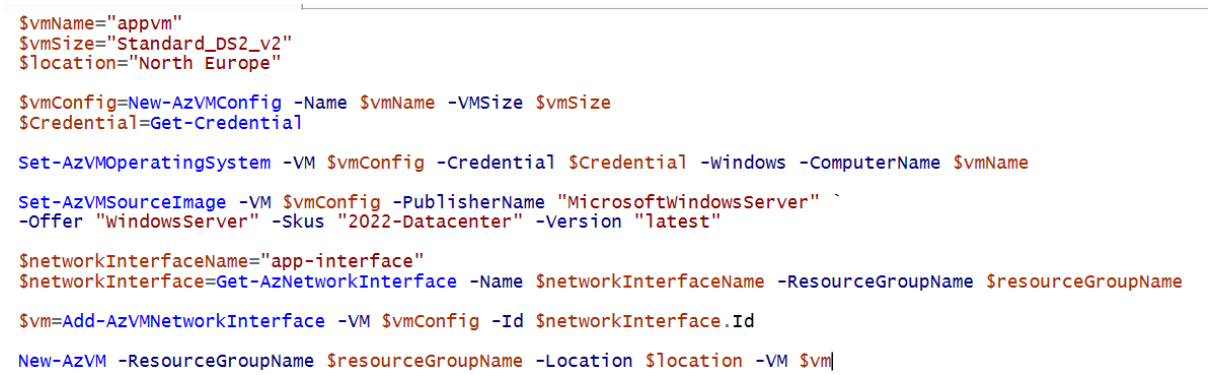
```
$resourceGroupName="staging-grp"
$location="North Europe"
$networkSecurityGroupName="app-nsg"

$nsgRule1=New-AzNetworkSecurityRuleConfig -Name "Allow-RDP" -Access Allow -Protocol Tcp `
-Direction Inbound -Priority 120 -SourceAddressPrefix Internet -SourcePortRange * `
-DestinationAddressPrefix 10.0.0.0/24 -DestinationPortRange 3389
```

```
$nsgRule2=New-AzNetworkSecurityRuleConfig -Name "Allow-HTTP" -Access Allow -Protocol Tcp `
-Direction Inbound -Priority 130 -SourceAddressPrefix Internet -SourcePortRange * `
-DestinationAddressPrefix 10.0.0.0/24 -DestinationPortRange 80

New-AzNetworkSecurityGroup -Name $networkSecurityGroupName -ResourceGroupName $resourceGroupName `
-Location $location -SecurityRules $nsgRule1,$nsgRule2
```

13. Powershell command to Adding a New VM



```
$vmName="appvm"
$vmSize="Standard_DS2_v2"
$location="North Europe"

$vmConfig=New-AzVMConfig -Name $vmName -VMSize $vmSize
$Credential=Get-Credential

Set-AzVMOperatingSystem -VM $vmConfig -Credential $Credential -Windows -ComputerName $vmName

Set-AzVMSourceImage -VM $vmConfig -PublisherName "MicrosoftWindowsServer" `
-Offer "WindowsServer" -Skus "2022-Datacenter" -Version "latest"

$networkInterfaceName="app-interface"
$networkInterface=Get-AzNetworkInterface -Name $networkInterfaceName -ResourceGroupName $resourceGroupName

$vm=Add-AzVMNetworkInterface -VM $vmConfig -Id $networkInterface.Id

New-AzVM -ResourceGroupName $resourceGroupName -Location $location -VM $vm
```

```
$vmName="appvm"
$vmSize="Standard_DS2_v2"
$location="North Europe"

$vmConfig=New-AzVMConfig -Name $vmName -VMSize $vmSize
$Credential=Get-Credential

Set-AzVMOperatingSystem -VM $vmConfig -Credential $Credential -Windows -ComputerName $vmName

Set-AzVMSourceImage -VM $vmConfig -PublisherName "MicrosoftWindowsServer" `
-Offer "WindowsServer" -Skus "2022-Datacenter" -Version "latest"

$networkInterfaceName="app-interface"
$networkInterface=Get-AzNetworkInterface -Name $networkInterfaceName -ResourceGroupName $resourceGroupName

$vm=Add-AzVMNetworkInterface -VM $vmConfig -Id $networkInterface.Id

New-AzVM -ResourceGroupName $resourceGroupName -Location $location -VM $vm
```

14. Powershell command to Adding a New disk in existing VM

```
$vmName="appvm"
$resourceGroupName="staging-grp"
$diskName="datadisk01"

$vm=Get-AzVM -ResourceGroupName $resourceGroupName -Name $vmName

$vm | Add-AzVMDataDisk -Name $diskName -DiskSizeInGB 16 -CreateOption Empty -Lun 0

$vm | Update-AzVM
```

```
$vmName="appvm"
$resourceGroupName="staging-grp"
$diskName="datadisk01"

$vm=Get-AzVM -ResourceGroupName $resourceGroupName -Name $vmName

$vm | Add-AzVMDataDisk -Name $diskName -DiskSizeInGB 16 -CreateOption Empty -Lun 0

$vm | Update-AzVM
```

15. Powershell command to create from resource group till vm

```
$resourceGroupName="staging-grp"
$networkName="app-network"
$subnetName="SubnetA"
$subnetAddressPrefix="10.0.0.0/24"
$addressPrefix="10.0.0.0/16"
$location="North Europe"

$subnet=New-AzVirtualNetworkSubnetConfig -Name $subnetName -AddressPrefix $subnetAddressPrefix

New-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName `
-Location $location -AddressPrefix $addressPrefix -Subnet $subnet

$publicIPAddressName="app-ip"

$publicAddress=New-AzPublicIpAddress -Name $publicIPAddressName -ResourceGroupName $resourceGroupName `
-Location $location -AllocationMethod Static

$networkInterfaceName="app-interface"

$VirtualNetwork = Get-AzVirtualNetwork -Name $networkName -ResourceGroupName $resourceGroupName

$subnet=Get-AzVirtualNetworkSubnetConfig -VirtualNetwork $VirtualNetwork -Name $subnetName

$networkInterface=New-AzNetworkInterface -Name $networkInterfaceName -ResourceGroupName $resourceGroupName `
-Location $location -SubnetId $subnet.Id -IpConfigurationName "IpConfig"

$ipConfig=Get-AzNetworkInterfaceIpConfig -NetworkInterface $networkInterface
$networkInterface | Set-AzNetworkInterfaceIpConfig -PublicIpAddress $publicAddress -Name $ipConfig.Name

$networkInterface | Set-AzNetworkInterface

$networkSecurityGroupName="app-nsg"

$nsgRule1=New-AzNetworkSecurityRuleConfig -Name "Allow-RDP" -Access Allow -Protocol Tcp `
-Direction Inbound -Priority 120 -SourceAddressPrefix Internet -SourcePortRange * `
-DestinationAddressPrefix 10.0.0.0/24 -DestinationPortRange 3389

$nsgRule2=New-AzNetworkSecurityRuleConfig -Name "Allow-HTTP" -Access Allow -Protocol Tcp `
-Direction Inbound -Priority 130 -SourceAddressPrefix Internet -SourcePortRange * `
-DestinationAddressPrefix 10.0.0.0/24 -DestinationPortRange 80

$networkSecurityGroup=New-AzNetworkSecurityGroup -Name $networkSecurityGroupName -ResourceGroupName $resourceGroupName `
-Location $location -SecurityRules $nsgRule1,$nsgRule2

Set-AzVirtualNetworkSubnetConfig -Name $subnetName -VirtualNetwork $VirtualNetwork `
-NetworkSecurityGroup $networkSecurityGroup -AddressPrefix $subnetAddressPrefix

$VirtualNetwork | Set-AzVirtualNetwork

$availabilitySetName="app-set"
$availabilitySet=New-AzAvailabilitySet -Location $location -ResourceGroupName $resourceGroupName `
-Name $availabilitySetName -Sku aligned `
-PlatformFaultDomainCount 2 -PlatformUpdateDomainCount 5

$vmName="appvm"
$vmSize="Standard_DS2_v2"


$vmConfig=New-AzVMConfig -Name $vmName -VMSize $vmSize -AvailabilitySetId $availabilitySet.Id
$Credential=Get-Credential

Set-AzVMOperatingSystem -VM $vmConfig -Credential $Credential -Windows -ComputerName $vmName

Set-AzVMSourceImage -VM $vmConfig -PublisherName "MicrosoftWindowsServer" `
-Offer "WindowsServer" -Skus "2022-Datacenter" -Version "latest"

$networkInterfaceName="app-interface"
$networkInterface=Get-AzNetworkInterface -Name $networkInterfaceName -ResourceGroupName $resourceGroupName

$vm=Add-AzVMNetworkInterface -VM $vmConfig -Id $networkInterface.Id

New-AzVM -ResourceGroupName $resourceGroupName -Location $location -VM $vm
```

16. Powershell command to create a storage account

```
$resourceGroupName="staging-grp"
$location="North Europe"
$storageAccountName="appstore443554554"
$storageAccountKind="StorageV2"
$accountSku="Standard_LRS"

New-AzStorageAccount -ResourceGroupName $resourceGroupName -Name $storageAccountName `
-Location $location -Kind $storageAccountKind -SkuName $accountSku
```

$resourceGroupName="staging-grp"
$location="North Europe"

```
$storageAccountName="appstore443554554"
$storageAccountKind="StorageV2"
$accountSku="Standard_LRS"

New-AzStorageAccount -ResourceGroupName $resourceGroupName -Name $storageAccountName `
-Location $location -Kind $storageAccountKind -SkuName $accountSku
```

17. Powershell command to create an Azure WebApp

```
$resourceGroupName="staging-grp"
$location="North Europe"
$appServicePlan="webplan100203"
$appServiceName="webapp6677588383"

New-AzAppServicePlan -ResourceGroupName $resourceGroupName -Location $location `
-Name $appServicePlan -Tier "F1"

New-AzWebApp -ResourceGroupName $resourceGroupName -Location $location `
-Name $appServiceName -AppServicePlan $appServicePlan
```

```
$resourceGroupName="staging-grp"
$location="North Europe"
$appServicePlan="webplan100203"
$appServiceName="webapp6677588383"

New-AzAppServicePlan -ResourceGroupName $resourceGroupName -Location $location `
-Name $appServicePlan -Tier "F1"

New-AzWebApp -ResourceGroupName $resourceGroupName -Location $location `
-Name $appServiceName -AppServicePlan $appServicePlan
```

Manage Azure CLI

1. Azure CLI command to create an Azure Resource Group

az group create --location "North Europe" --name "new-grp"

```
PS C:\Users\satranja> az group create --location "North Europe" --name  "staging-grp"
{
  "id": "/subscriptions/48f88df7-0d53-4866-a66f-82eb0ac469e3/resourceGroups/staging-grp",
  "location": "northeurope",
  "managedBy": null,
  "name": "staging-grp",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
```

2. Azure CLI command to create an Azure vnet

az network vnet create --name "app-network" --resource-group "app-grp" --subnet-name "SubnetA" --address-prefixes 10.0.0.0/16

```
PS C:\Users\satranja> az network vnet create --name "app-network" --resource-group "staging-grp" --subnet-name "SubnetA" --addres
s-prefixes 10.0.0.0/16
{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.0.0.0/16"
      ]
    },
    "enableDdosProtection": false,
    "etag": "W/\"8b93a226-b163-4066-aad2-9b775adc9293\"",
    "id": "/subscriptions/48f88df7-0d53-4866-a66f-82eb0ac469e3/resourceGroups/staging-grp/providers/Microsoft.Network/virtualNetw
orks/app-network",
    "location": "canadacentral",
    "name": "app-network",
    "provisioningState": "Succeeded",
```

3. Azure CLI command to create a subnet in existing vnet

az network vnet subnet create -n "SubnetB" --address-prefixes 10.0.1.0/24 -g "app-grp" --vnet-name "app-network"

4. **Azure CLI command to create a vm**

Quick create VM

az vm create -g "app-grp" -n "appvm" --image Win2022Datacenter --admin-username "appusr"

VM Creation with more parameters

az vm image list --output table

az vm list-sizes --location "North Europe"

az vm create -g "app-grp" -n "appvm" --image Win2022Datacenter --admin-username "appusr" --size "Standard_DS2_v2" --vnet-name "app-network" --subnet "SubnetA"

5. **Azure CLI command to create a disk and attach**

Create Data Disk

az disk create -n "data-disk" -g "app-grp" -l "North Europe" --size-gb 16

attached above disk with VM

az vm disk attach --vm-name "appvm" --lun 0 -g "app-grp" -n "data-disk"

6. **Azure CLI command to create a storage account**

az storage account create -n "newstore44333" -g "app-grp" --kind "StorageV2" --sku "Standard_LRS"

7. **Azure CLI command to create a web app**

App Service Plan Creation

az appservice plan create -n "demoplan4434" -g "app-grp" --sku F1

Web App Creation

az webapp create -n "webapp5434" -g "app-grp" --plan "demoplan4434"

8. **Azure CLI command to create a vmss**

az vmss create -n "app-set" -g "app-grp" --admin-username "appusr" --image Win2022Datacenter --vm-sku "Standard_DS2_v2"

9. **Azure CLI command to create a linux vm**

az vm create -g "app-grp" -n "linuxvm"
--image "Canonical:0001-com-ubuntu-server-jammy:22_04-lts-gen2:latest" --admin-username "linuxusr" --admin-password "AzurePassword@123" --custom-data config.txt

Config.txt file which will run in same directory where this command run

```
#cloud-config
package_upgrade: true
packages:
  - nginx
```