**Complete steps in deploying a VM using terraform - Nelson**

#Deploying: (1)Resource group (2)Storage group (3)Vnet (4) Subnet (5)Pulic IP (6)NIC (7) IP configuration (8) VM

# Provider

provider "azurerm" {

  subscription\_id = "69c34967-1d4e-461f-89d4-a4c9b4a8df93"

  tenant\_id = "c10ed642-434c-4242-92ca-bc5035697832"

    features {

    resource\_group {

      prevent\_deletion\_if\_contains\_resources = false

    }

    }

}

#create a resource group (1)

resource "azurerm\_resource\_group" "resource\_group" {

    name = "rg\_terraform\_demo"

    location = "eastus"

}

#create a storage account (2)

#resource "azurerm\_storage\_account" "storage\_account" {

 # name     = "terraformazuretoronto10"

  #resource\_group\_name = azurerm\_resource\_group.resource\_group.name

  #location = azurerm\_resource\_group.resource\_group.location

  #account\_tier = "Standard"

  #account\_replication\_type = "LRS"

  #account\_kind = "StorageV2"

#}

  # Create a virtual network within the resource group

resource "azurerm\_virtual\_network" "virtual\_network" {

  name                = "example-network"

  resource\_group\_name = azurerm\_resource\_group.resource\_group.name

  location            = azurerm\_resource\_group.resource\_group.location

  address\_space       = ["10.0.0.0/16"]

}

# creating subnet

resource "azurerm\_subnet" "internal" {

  name                 = "internal"

  resource\_group\_name  = azurerm\_resource\_group.resource\_group.name

  virtual\_network\_name = azurerm\_virtual\_network.virtual\_network.name

  address\_prefixes     = ["10.0.2.0/24"]

}

#Net work interface (NIC)

resource "azurerm\_network\_interface" "main" {

  name                = "aznel-nic"

  location            = azurerm\_resource\_group.resource\_group.location

  resource\_group\_name = azurerm\_resource\_group.resource\_group.name

  #IP configuration

ip\_configuration {

    name                          = "my\_nic\_configuration"

    subnet\_id                     = azurerm\_subnet.internal.id

    private\_ip\_address\_allocation = "Dynamic"

    #public\_ip\_address\_id          = azurerm\_public\_ip.internal.id

  }

}

resource "azurerm\_virtual\_machine" "main" {

  name                  = "azmc1-vm"

  location              = azurerm\_resource\_group.resource\_group.location

  resource\_group\_name   = azurerm\_resource\_group.resource\_group.name

  network\_interface\_ids = [azurerm\_network\_interface.main.id]

  vm\_size               = "Standard\_DS1\_v2"

  # Uncomment this line to delete the OS disk automatically when deleting the VM

   delete\_os\_disk\_on\_termination = true

  #Uncomment this line to delete the data disks automatically when deleting the VM

   delete\_data\_disks\_on\_termination = true

     storage\_image\_reference {

    publisher = "Canonical"

    offer     = "0001-com-ubuntu-server-jammy"

    sku       = "22\_04-lts"

    version   = "latest"

  }

  storage\_os\_disk {

    name              = "myosdisk1"

    caching           = "ReadWrite"

    create\_option     = "FromImage"

    managed\_disk\_type = "Standard\_LRS"

  }

  os\_profile {

    computer\_name  = "hostname"

    admin\_username = "Neladmin"

    admin\_password = "Password1234!"

  }

   os\_profile\_linux\_config {

    disable\_password\_authentication = false

  }

  #network\_interface\_ids = [azurerm\_network\_interface.network\_interface.id]

}