**Main.tf :-**

# Configure the Azure Provider

# Configure the Microsoft Azure Provider

provider "azurerm" {

tenant\_id = "415a8c7e-8647-4b46-b291-000000000000"

subscription\_id = "c355ece9-9b1a-46ce-9c84-000000000000"

client\_id = "09a66f62-4a78-4dd8-b60d-0000000000"

client\_secret = "xlG7Q~9BM-yu1xPtrQAd\_0000000000000"

features {}

}

# Create a resource group

resource "azurerm\_resource\_group" "example\_rg" {

name = "${var.resource\_prefix}-RG"

location = var.node\_location

}

# Create a virtual network within the resource group

resource "azurerm\_virtual\_network" "example\_vnet" {

name = "${var.resource\_prefix}-vnet"

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

location = var.node\_location

address\_space = ["10.2.0.0/16"]

}

# Create a subnets within the virtual network

resource "azurerm\_subnet" "example\_subnet" {

name = "${var.resource\_prefix}-subnet"

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

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

address\_prefixes = ["10.2.1.0/24"]

}

# Create Linux Public IP

resource "azurerm\_public\_ip" "example\_public\_ip" {

count = var.node\_count

name = "${var.resource\_prefix}-${format("%02d", count.index)}-PublicIP"

#name = "${var.resource\_prefix}-PublicIP"

location = azurerm\_resource\_group.example\_rg.location

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

allocation\_method = var.Environment == "Test" ? "Static" : "Dynamic"

tags = {

environment = "Test"

}

}

# Create Network Interface

resource "azurerm\_network\_interface" "example\_nic" {

count = var.node\_count

#name = "${var.resource\_prefix}-NIC"

name = "${var.resource\_prefix}-${format("%02d", count.index)}-NIC"

location = azurerm\_resource\_group.example\_rg.location

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

ip\_configuration {

name = "internal"

subnet\_id = azurerm\_subnet.example\_subnet.id

private\_ip\_address\_allocation = "Dynamic"

public\_ip\_address\_id = element(azurerm\_public\_ip.example\_public\_ip.\*.id, count.index)

}

}

# Virtual Machine Creation — Linux

resource "azurerm\_virtual\_machine" "example\_linux\_vm" {

count = var.node\_count

name = "${var.resource\_prefix}-${format("%02d", count.index)}"

location = azurerm\_resource\_group.example\_rg.location

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

network\_interface\_ids = [element(azurerm\_network\_interface.example\_nic.\*.id, count.index)]

vm\_size = "Standard\_A1\_v2"

delete\_os\_disk\_on\_termination = true

storage\_image\_reference {

publisher = "OpenLogic"

offer = "CentOS"

sku = "7.5"

version = "latest"

}

storage\_os\_disk {

name = "myosdisk-${count.index}"

caching = "ReadWrite"

create\_option = "FromImage"

managed\_disk\_type = "Standard\_LRS"

}

os\_profile {

computer\_name = "linuxhost"

admin\_username = "rahul"

admin\_password = "Password@1234"

}

os\_profile\_linux\_config {

disable\_password\_authentication = false

}

tags = {

environment = "Prod"

}

}

**Variable.tf :-**

variable "node\_location" {

type = string

default = "EastUS2"

}

variable "resource\_prefix" {

type = string

default = "linuxnode"

}

variable "Environment" {

type = string

default = "Prod"

}

variable "node\_count" {

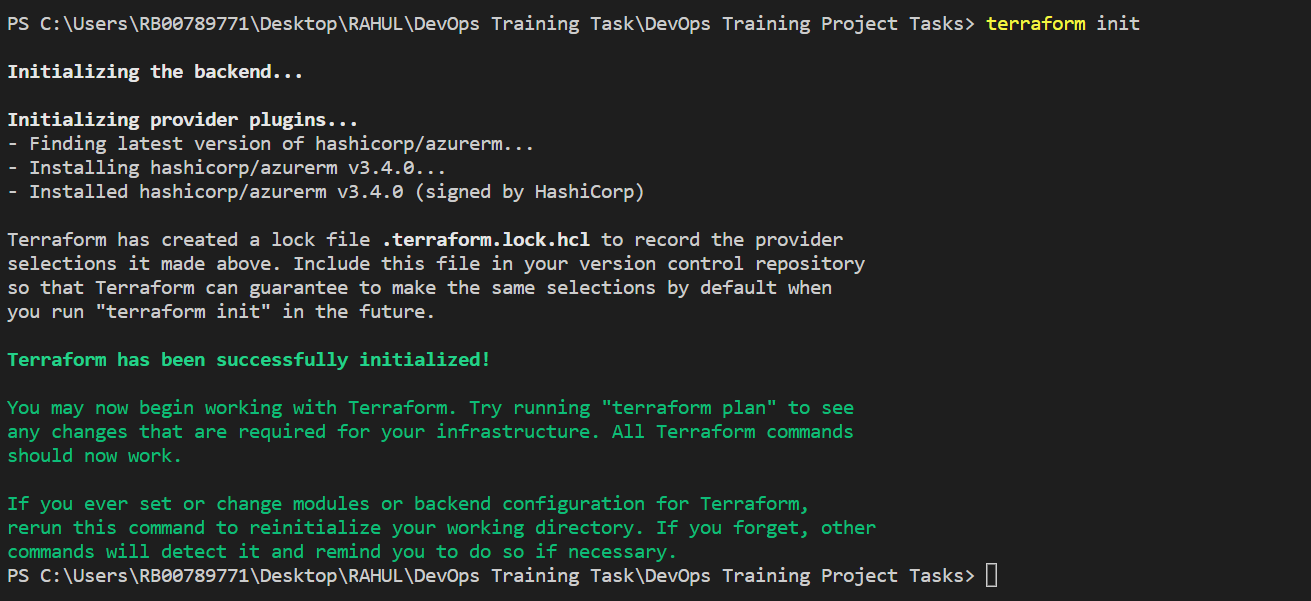
type = number

default = "2"

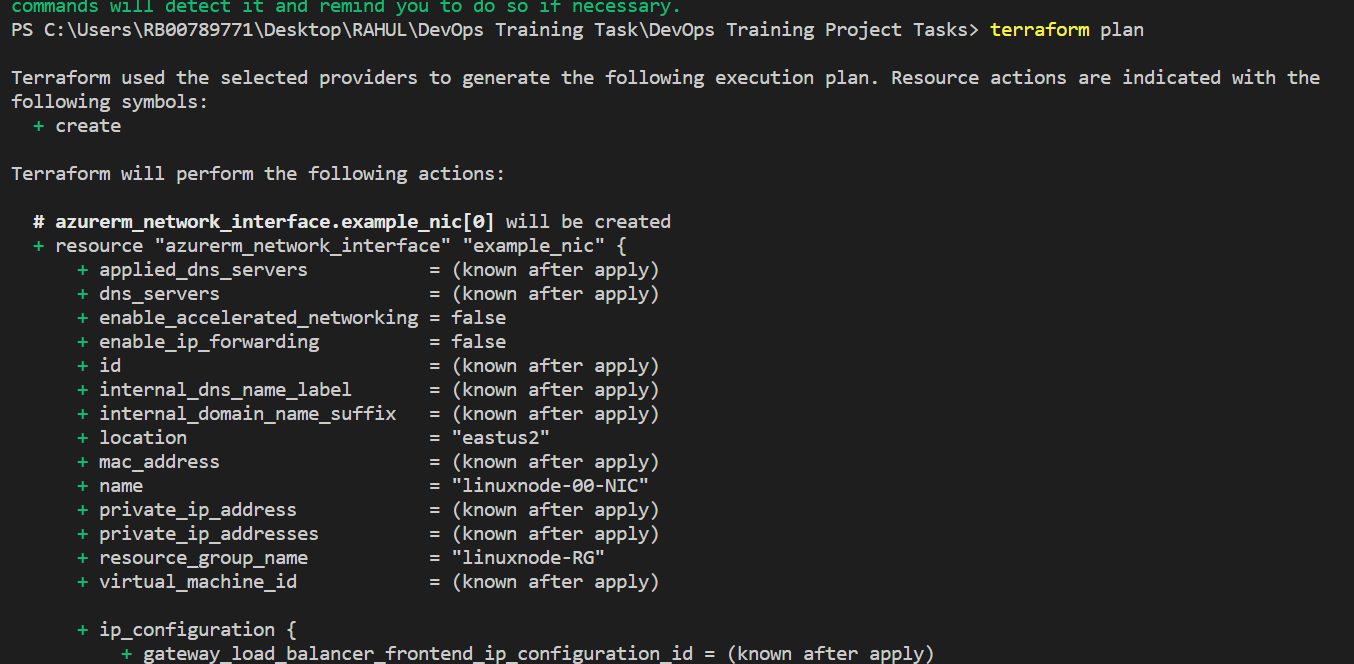
}

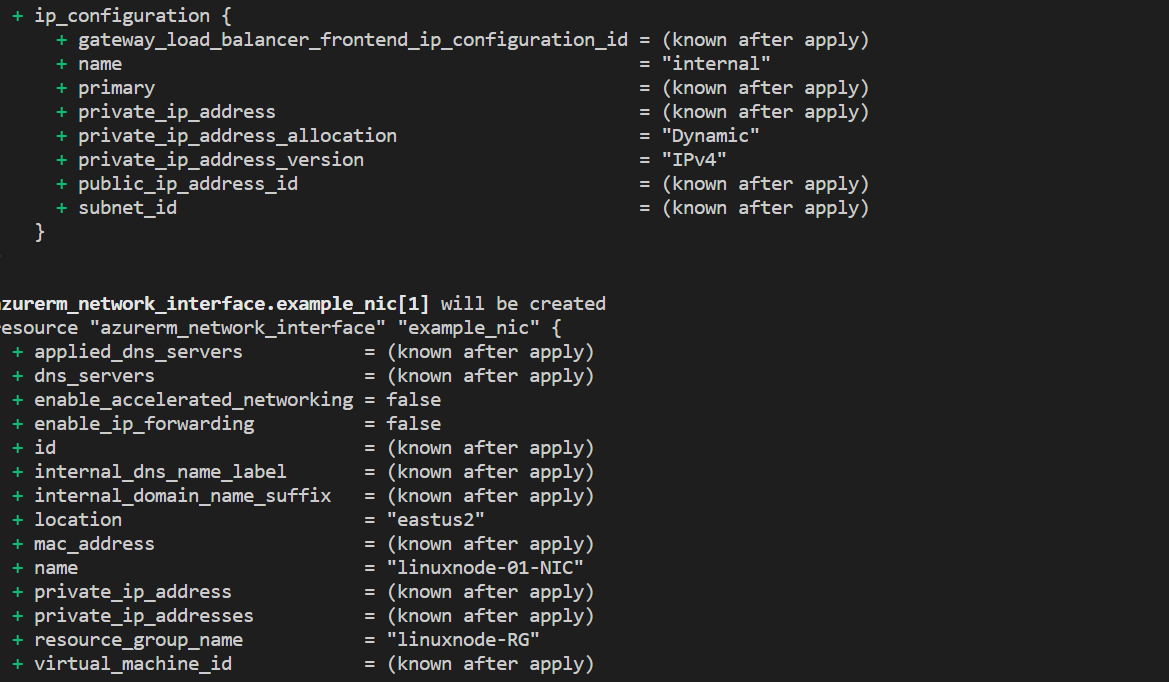
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**Terraform init :-**

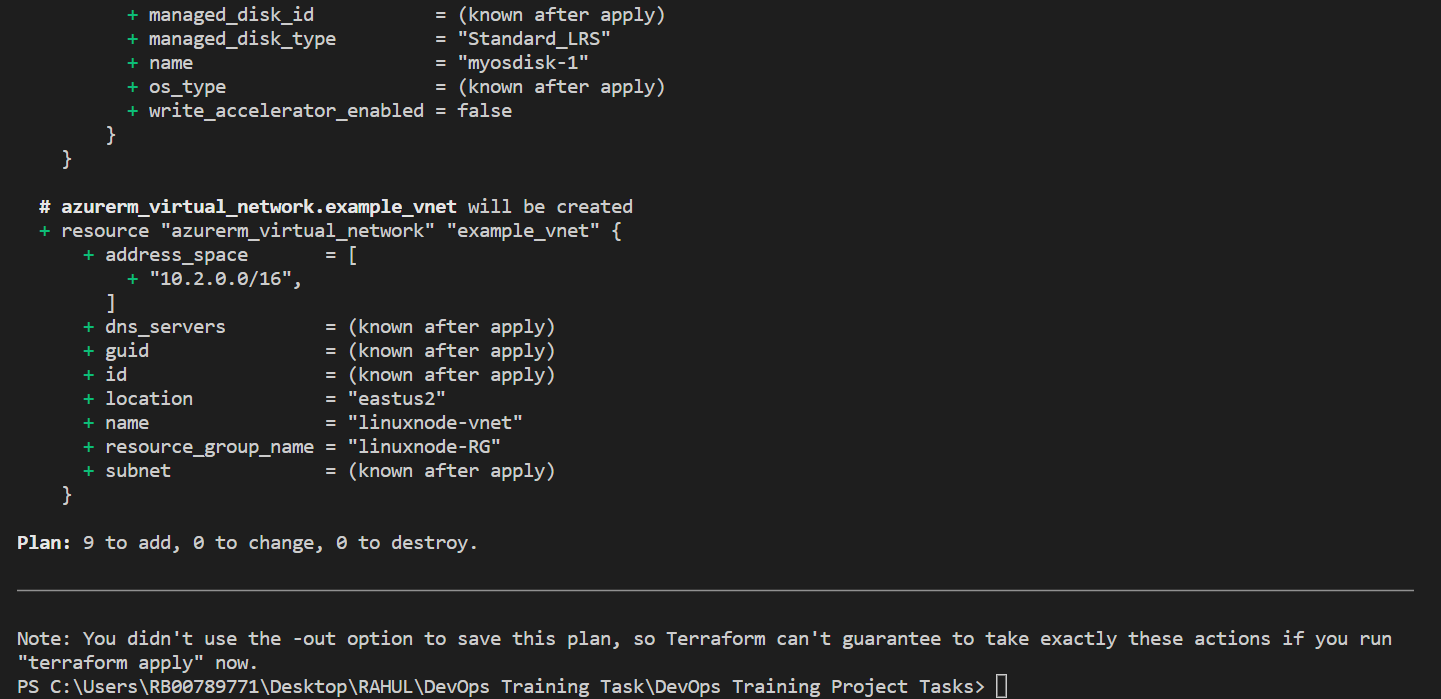


**Terraform Plan :-**









**Terraform Apply :-**

