# Terraform Azure provisioner

# 

## Tutorial

Create main.tf file and add below to it:

# Configure the provider.

provider "azurerm" {

version = "2.0.0"

features {}

}

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

name = "${var.prefix}-resources"

location = "East US 2"

}

resource "azurerm\_virtual\_network" "main" {

name = "${var.prefix}-network"

address\_space = ["10.0.0.0/16"]

location = azurerm\_resource\_group.main.location

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

}

resource "azurerm\_subnet" "internal" {

name = "internal"

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

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

address\_prefix = "10.0.2.0/24"

}

resource "azurerm\_public\_ip" "main" {

name = "${var.prefix}-PublicIp"

location = azurerm\_resource\_group.main.location

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

allocation\_method = "Static"

}

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

name = "${var.prefix}-nic"

location = azurerm\_resource\_group.main.location

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

ip\_configuration {

name = "testconfiguration1"

subnet\_id = azurerm\_subnet.internal.id

private\_ip\_address\_allocation = "Dynamic"

public\_ip\_address\_id = azurerm\_public\_ip.main.id

}

}

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

name = "${var.prefix}-vm"

location = azurerm\_resource\_group.main.location

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

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

vm\_size = "Standard\_DS1\_v2"

storage\_image\_reference {

publisher = "Canonical"

offer = "UbuntuServer"

sku = "16.04-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 = var.admin\_username

admin\_password = var.admin\_password

}

os\_profile\_linux\_config {

disable\_password\_authentication = true

ssh\_keys {

key\_data = file("~/.ssh/id\_rsa.pub")

path = "/home/${var.admin\_username}/.ssh/authorized\_keys"

}

}

provisioner "file" {

connection {

host = azurerm\_public\_ip.main.ip\_address

type = "ssh"

user = var.admin\_username

private\_key = file("~/.ssh/id\_rsa")

}

source = "~/.ssh/id\_rsa.pub"

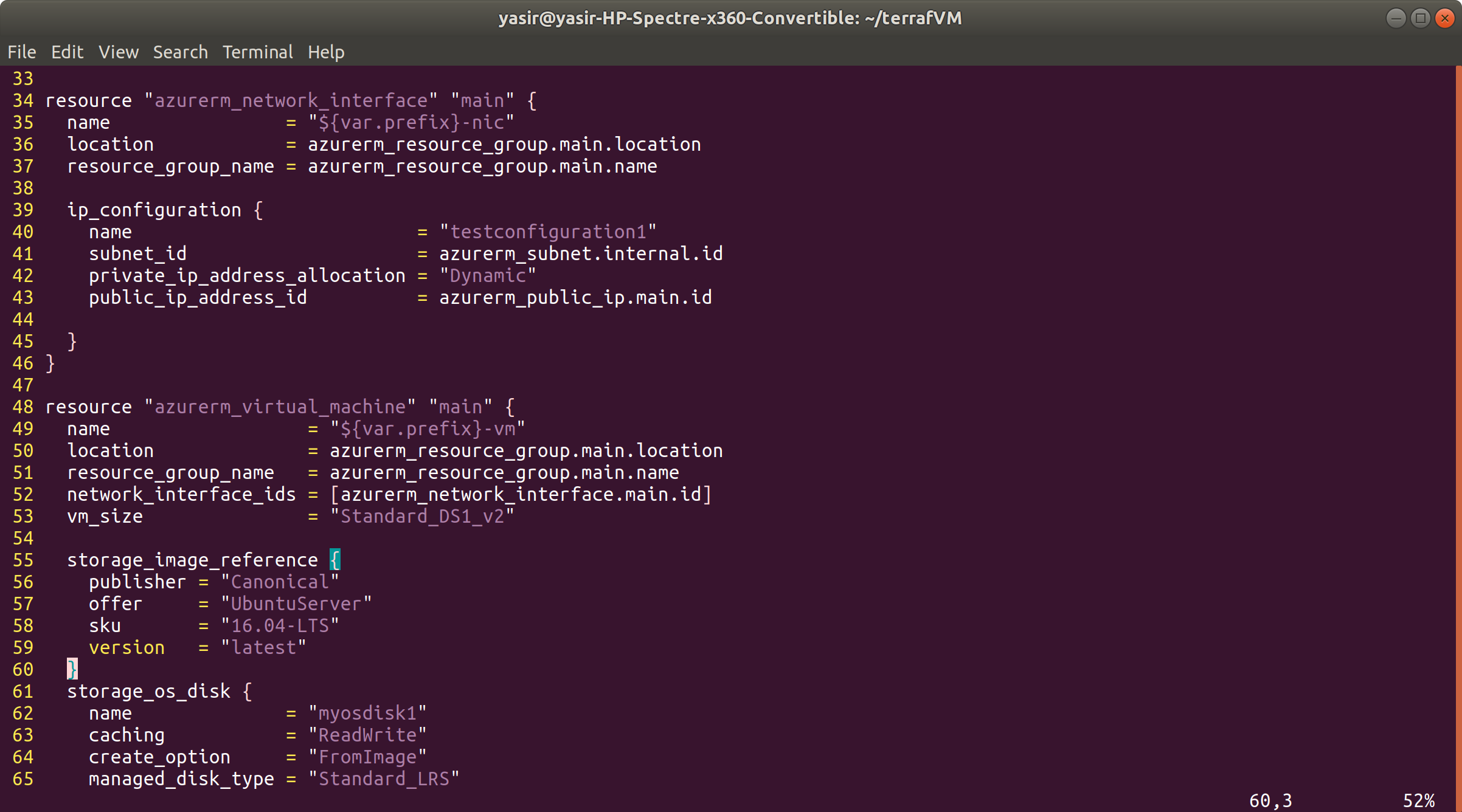
destination = "public-key"

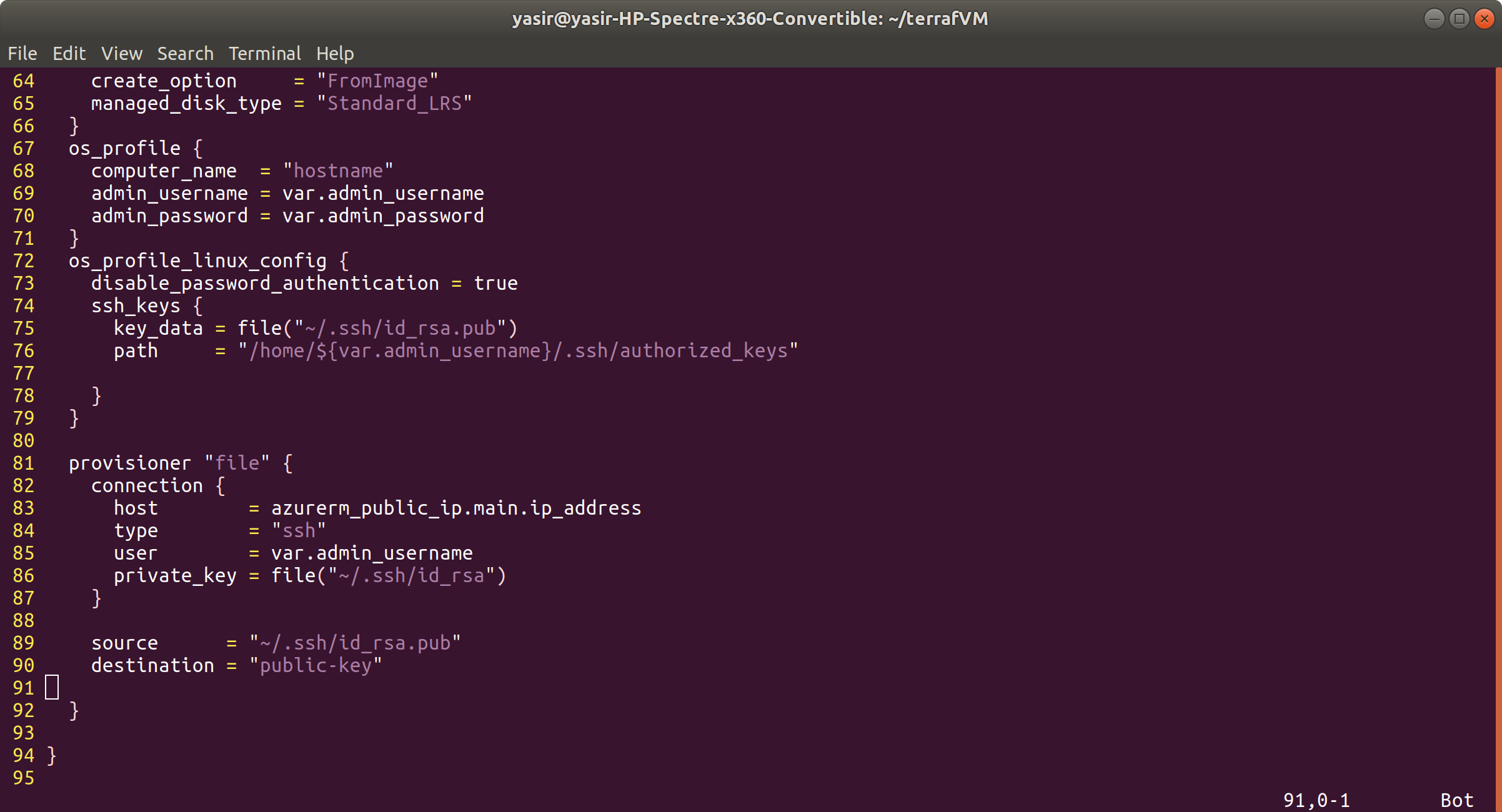
}

}

$ vim main.tf







Create variables.tf and type in the follow:

variable "prefix" {

default = "yasProd"

}

variable "admin\_username" {

default = "yasirsatti"

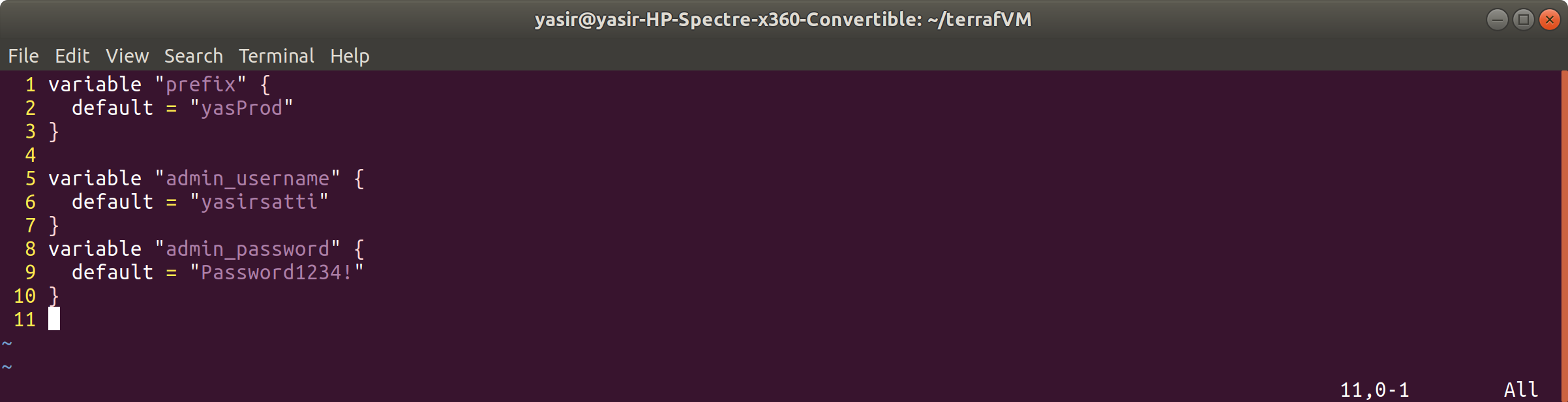
}

variable "admin\_password" {

default = "Password1234!"

}

$ vim variable.tf



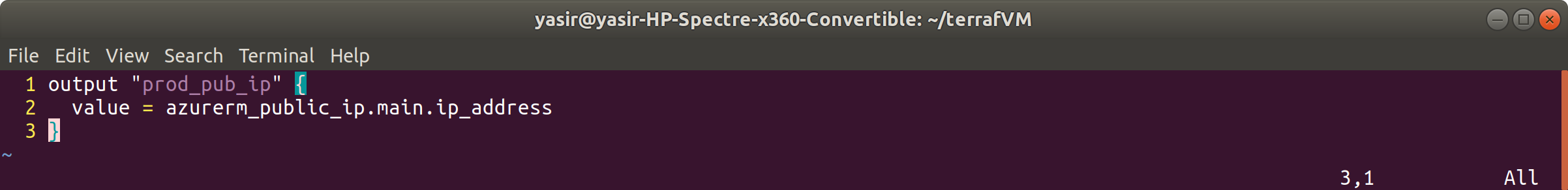
create outputs.tf file and type in:

output "prod\_pub\_ip" {

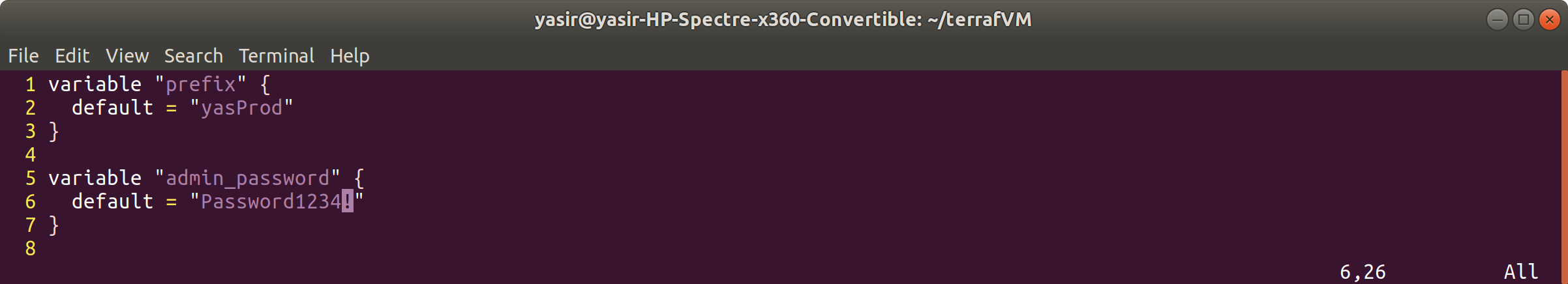
value = azurerm\_public\_ip.main.ip\_address

}

$ vim outputs.tf

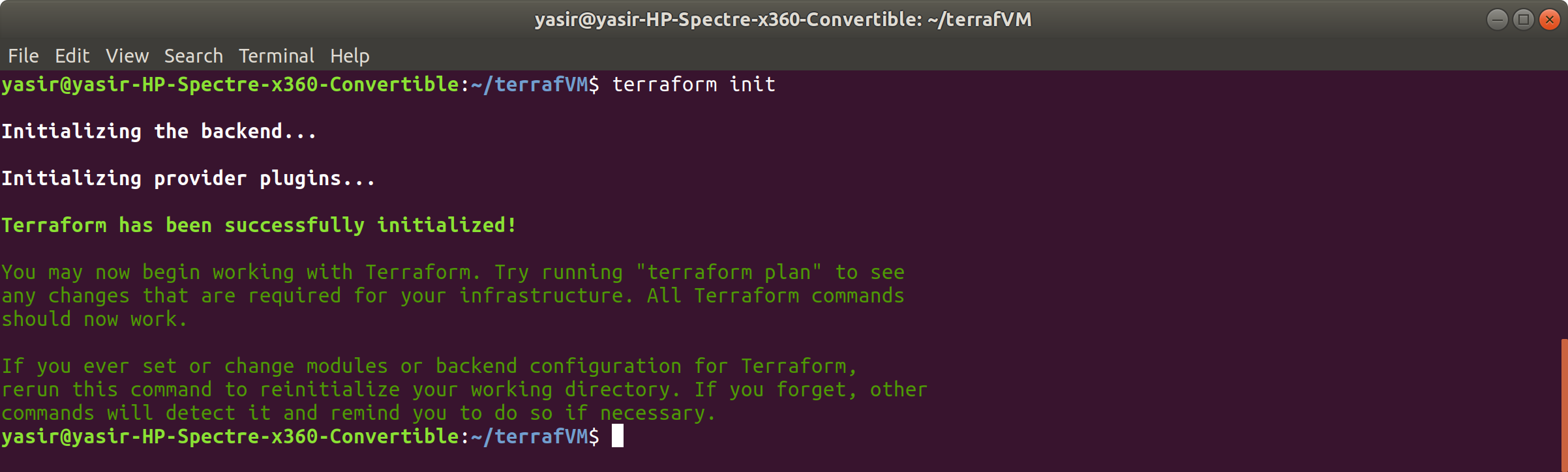


$ vim variables.tf



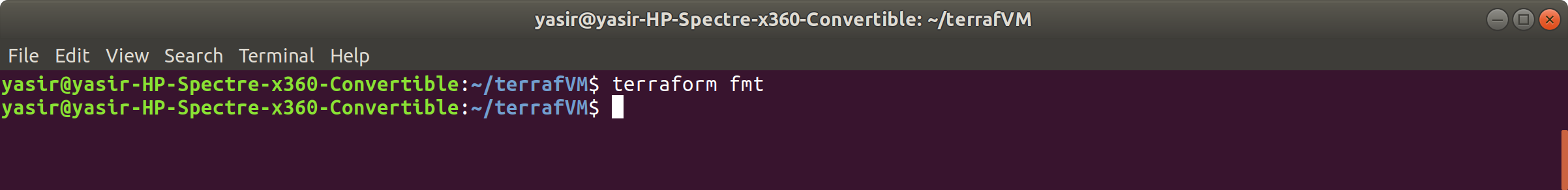
Initialize terraform

$ terrafrom init



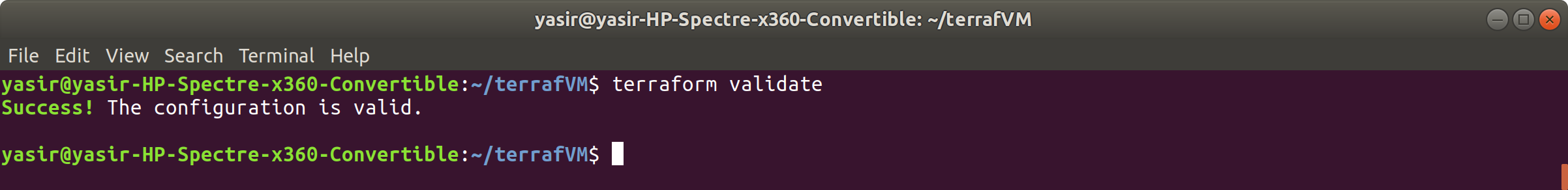
format

$ terraform fmt

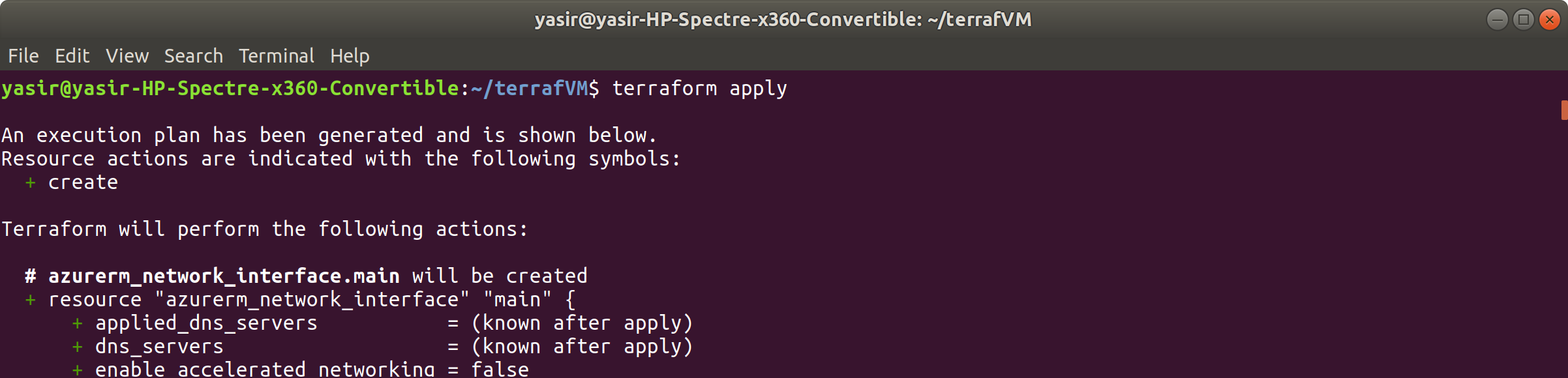


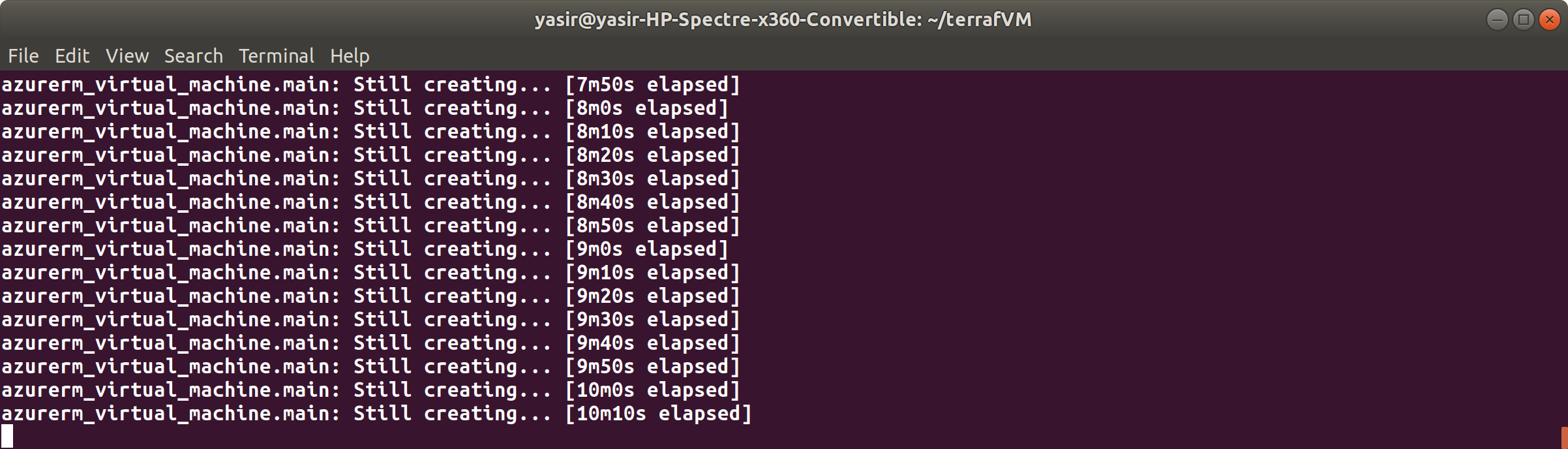
Validate

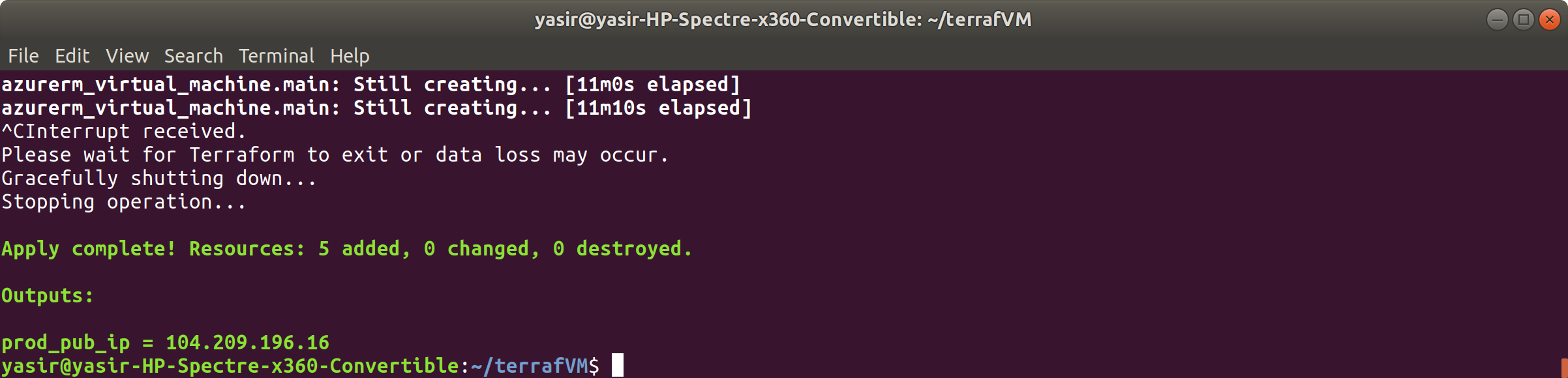
$ terraform validate

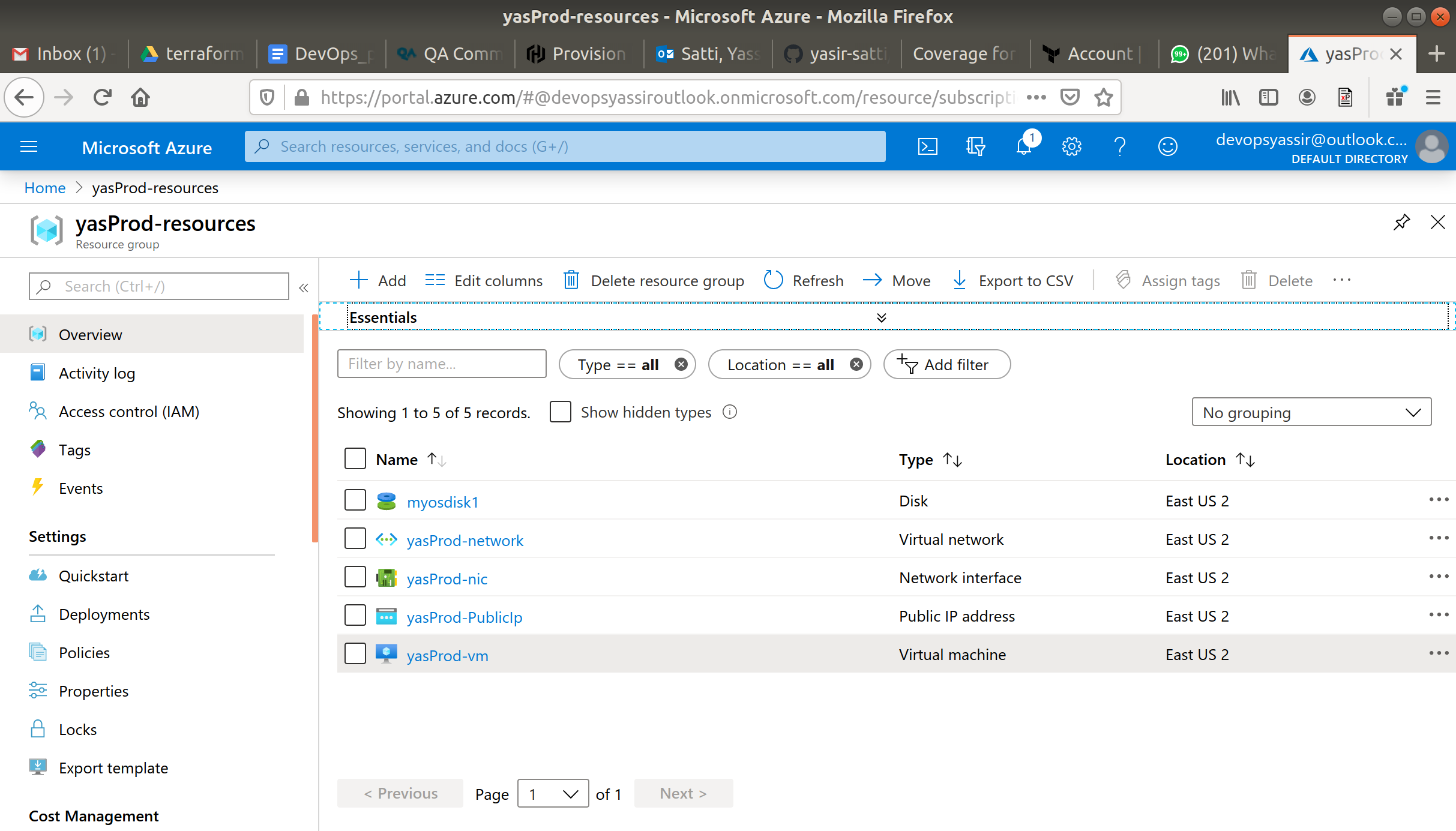


$ terrafrom apply









Now connect to new vm

$ ssh yasirsatti@$(terraform output prod\_pub\_ip)

