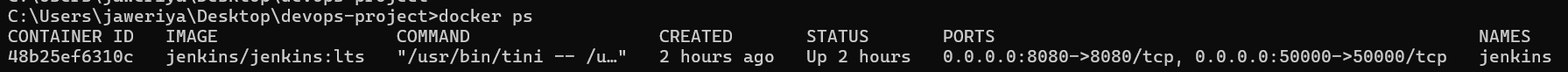
**Jaweriya Younus  
2112182  
BSCS 8c  
Devops Project**

Task 1

docker run -d --name jenkins -p 8080:8080 -p 50000:50000 -v jenkins\_home:/var/jenkins\_home -v //var/run/docker.sock:/var/run/docker.sock -v "%cd%":/workspace jenkins/jenkins:lts



Task 2

terraform apply

azurerm\_resource\_group.main: Refreshing state... [id=/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group]

azurerm\_virtual\_network.main: Refreshing state... [id=/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group/providers/Microsoft.Network/virtualNetworks/vnet]

azurerm\_subnet.main: Refreshing state... [id=/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group/providers/Microsoft.Network/virtualNetworks/vnet/subnets/subnet]

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

+ create

Terraform will perform the following actions:

# azurerm\_linux\_virtual\_machine.main will be created

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

+ admin\_username = "azureuser"

+ allow\_extension\_operations = true

+ bypass\_platform\_safety\_checks\_on\_user\_schedule\_enabled = false

+ computer\_name = (known after apply)

+ disable\_password\_authentication = true

+ disk\_controller\_type = (known after apply)

+ extensions\_time\_budget = "PT1H30M"

+ id = (known after apply)

+ location = "eastus"

+ max\_bid\_price = -1

+ name = "devops-vm"

+ network\_interface\_ids = (known after apply)

+ patch\_assessment\_mode = "ImageDefault"

+ patch\_mode = "ImageDefault"

+ platform\_fault\_domain = -1

+ priority = "Regular"

+ private\_ip\_address = (known after apply)

+ private\_ip\_addresses = (known after apply)

+ provision\_vm\_agent = true

+ public\_ip\_address = (known after apply)

+ public\_ip\_addresses = (known after apply)

+ resource\_group\_name = "devops-group"

+ size = "Standard\_B1s"

+ virtual\_machine\_id = (known after apply)

+ vm\_agent\_platform\_updates\_enabled = (known after apply)

+ admin\_ssh\_key {

+ public\_key = <<-EOT

ssh-rsa  jaweriya@DESKTOP-DU4PCT2

EOT

+ username = "azureuser"

}

+ os\_disk {

+ caching = "ReadWrite"

+ disk\_size\_gb = (known after apply)

+ id = (known after apply)

+ name = "myosdisk"

+ storage\_account\_type = "Standard\_LRS"

+ write\_accelerator\_enabled = false

}

+ source\_image\_reference {

+ offer = "UbuntuServer"

+ publisher = "Canonical"

+ sku = "18.04-LTS"

+ version = "latest"

}

+ termination\_notification (known after apply)

}

# azurerm\_network\_interface.main will be created

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

+ accelerated\_networking\_enabled = false

+ applied\_dns\_servers = (known after apply)

+ id = (known after apply)

+ internal\_domain\_name\_suffix = (known after apply)

+ ip\_forwarding\_enabled = false

+ location = "eastus"

+ mac\_address = (known after apply)

+ name = "nic"

+ private\_ip\_address = (known after apply)

+ private\_ip\_addresses = (known after apply)

+ resource\_group\_name = "devops-group"

+ virtual\_machine\_id = (known after apply)

+ ip\_configuration {

+ gateway\_load\_balancer\_frontend\_ip\_configuration\_id = (known after apply)

+ name = "ipconfig"

+ primary = (known after apply)

+ private\_ip\_address = (known after apply)

+ private\_ip\_address\_allocation = "Dynamic"

+ private\_ip\_address\_version = "IPv4"

+ public\_ip\_address\_id = (known after apply)

+ subnet\_id = "/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group/providers/Microsoft.Network/virtualNetworks/vnet/subnets/subnet"

}

}

# azurerm\_public\_ip.main will be created

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

+ allocation\_method = "Static"

+ ddos\_protection\_mode = "VirtualNetworkInherited"

+ fqdn = (known after apply)

+ id = (known after apply)

+ idle\_timeout\_in\_minutes = 4

+ ip\_address = (known after apply)

+ ip\_version = "IPv4"

+ location = "eastus"

+ name = "publicIP"

+ resource\_group\_name = "devops-group"

+ sku = "Standard"

+ sku\_tier = "Regional"

}

Plan: 3 to add, 0 to change, 0 to destroy.

Changes to Outputs:

+ public\_ip = (known after apply)

Do you want to perform these actions?

Terraform will perform the actions described above.

Only 'yes' will be accepted to approve.

Enter a value: yes

azurerm\_public\_ip.main: Creating...

azurerm\_public\_ip.main: Creation complete after 6s [id=/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group/providers/Microsoft.Network/publicIPAddresses/publicIP]

azurerm\_network\_interface.main: Creating...

azurerm\_network\_interface.main: Creation complete after 9s [id=/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group/providers/Microsoft.Network/networkInterfaces/nic]

azurerm\_linux\_virtual\_machine.main: Creating...

azurerm\_linux\_virtual\_machine.main: Still creating... [00m10s elapsed]

azurerm\_linux\_virtual\_machine.main: Still creating... [00m20s elapsed]

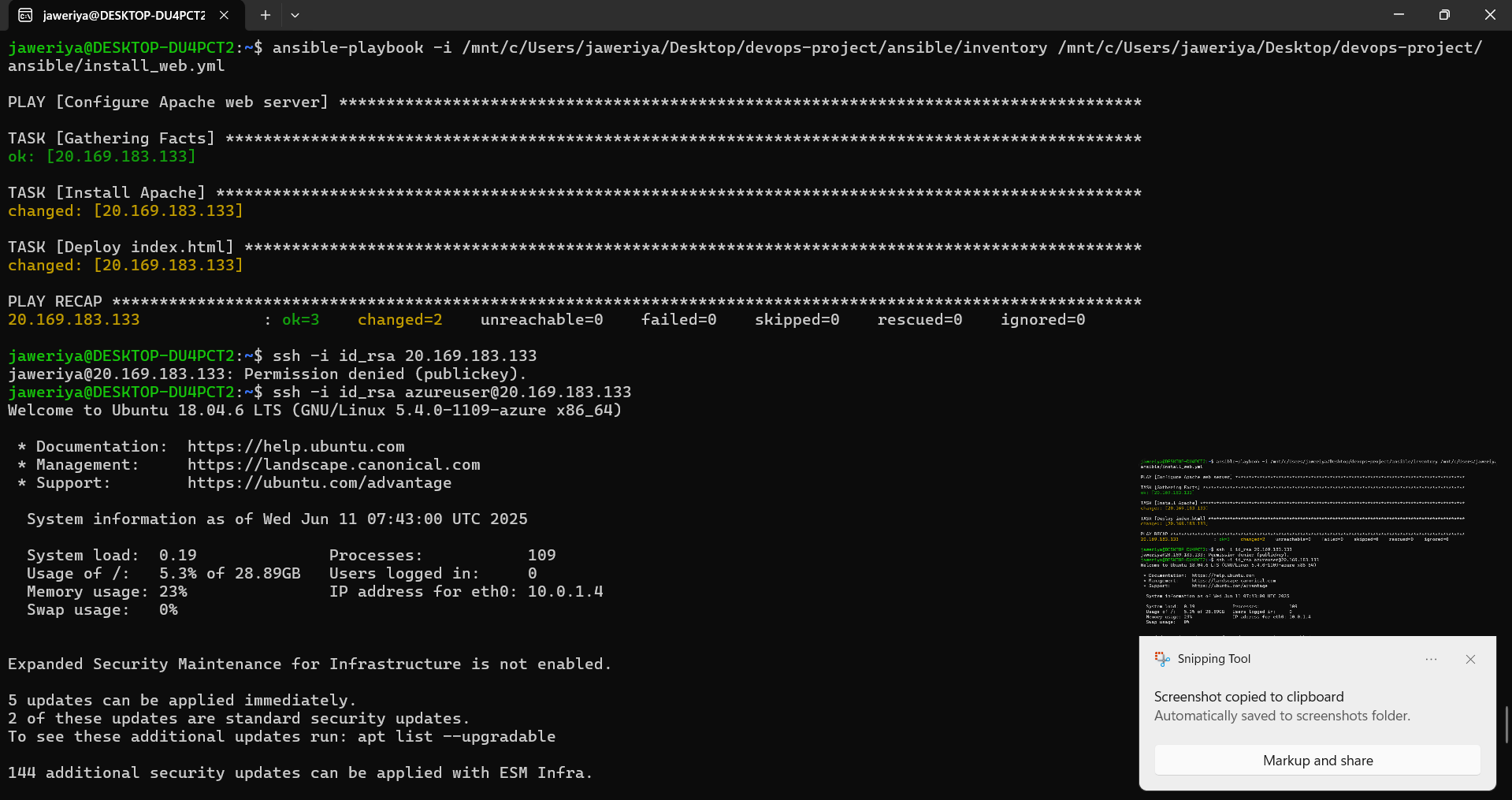
azurerm\_linux\_virtual\_machine.main: Creation complete after 21s [id=/subscriptions/da5ab692-2309-4390-88f1-30a262c522db/resourceGroups/devops-group/providers/Microsoft.Compute/virtualMachines/devops-vm]

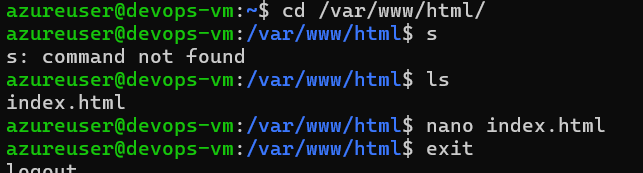
Apply complete! Resources: 3 added, 0 changed, 0 destroyed.

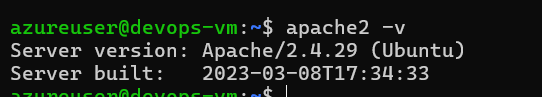
Outputs:

**public\_ip = "20.169.183.133"**

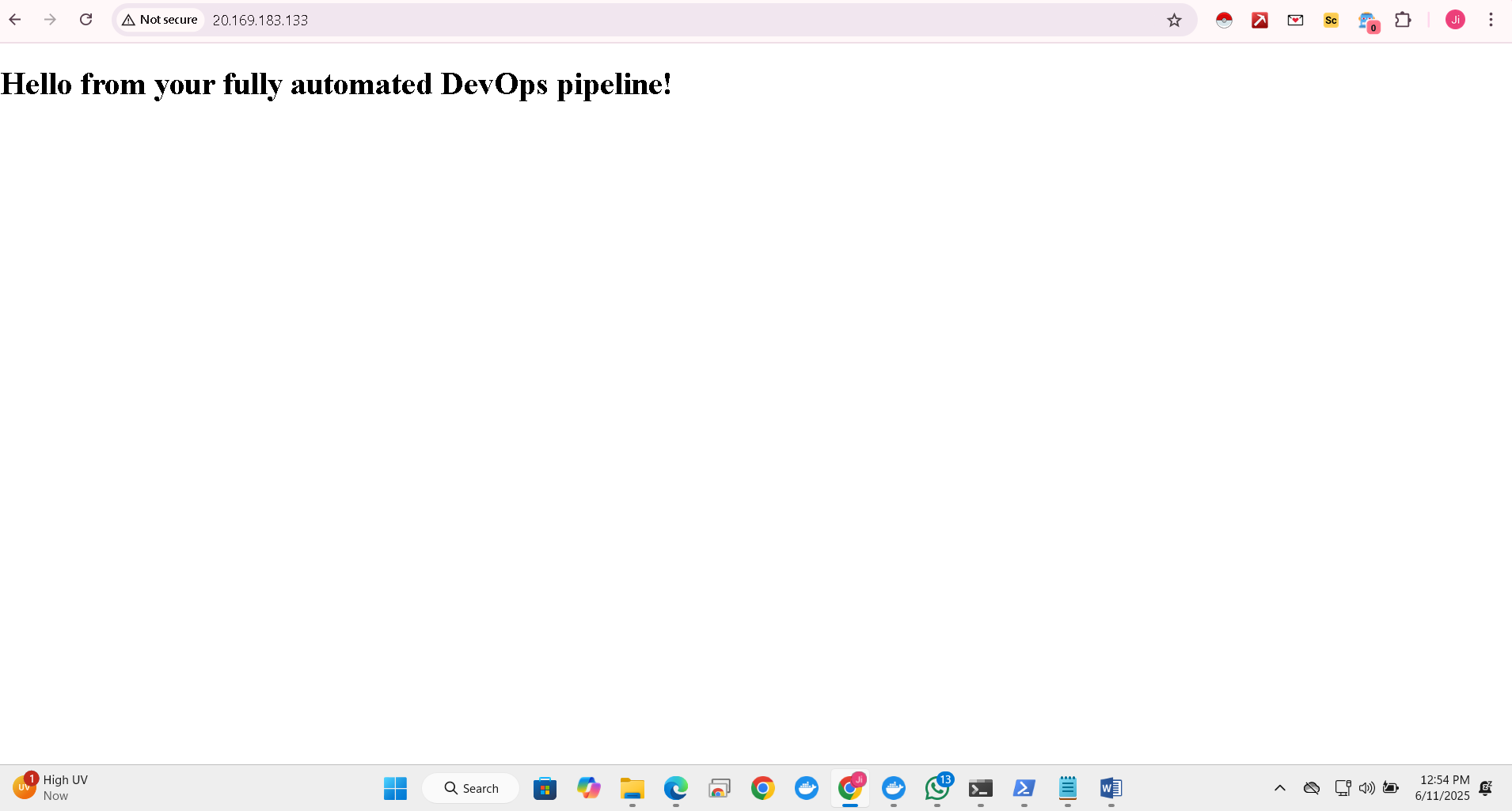
Task 3  
  
Ansible installs and configures apache

****

****

****

**Task 4**

****