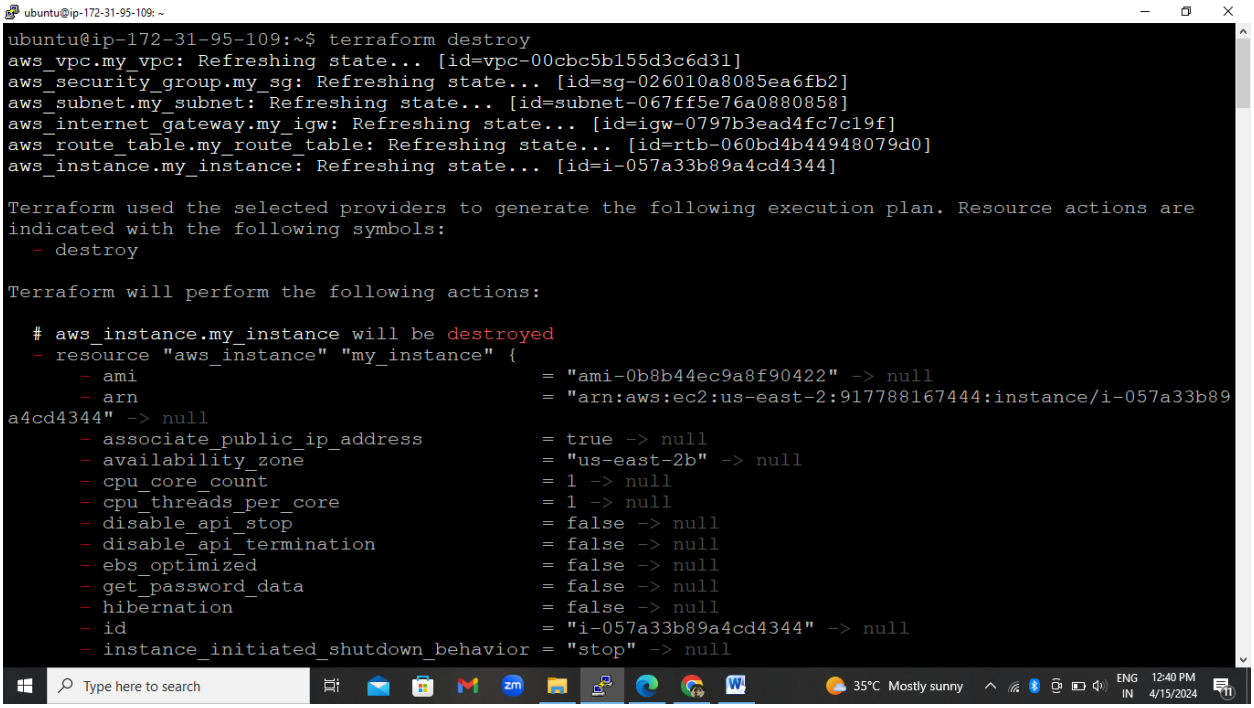
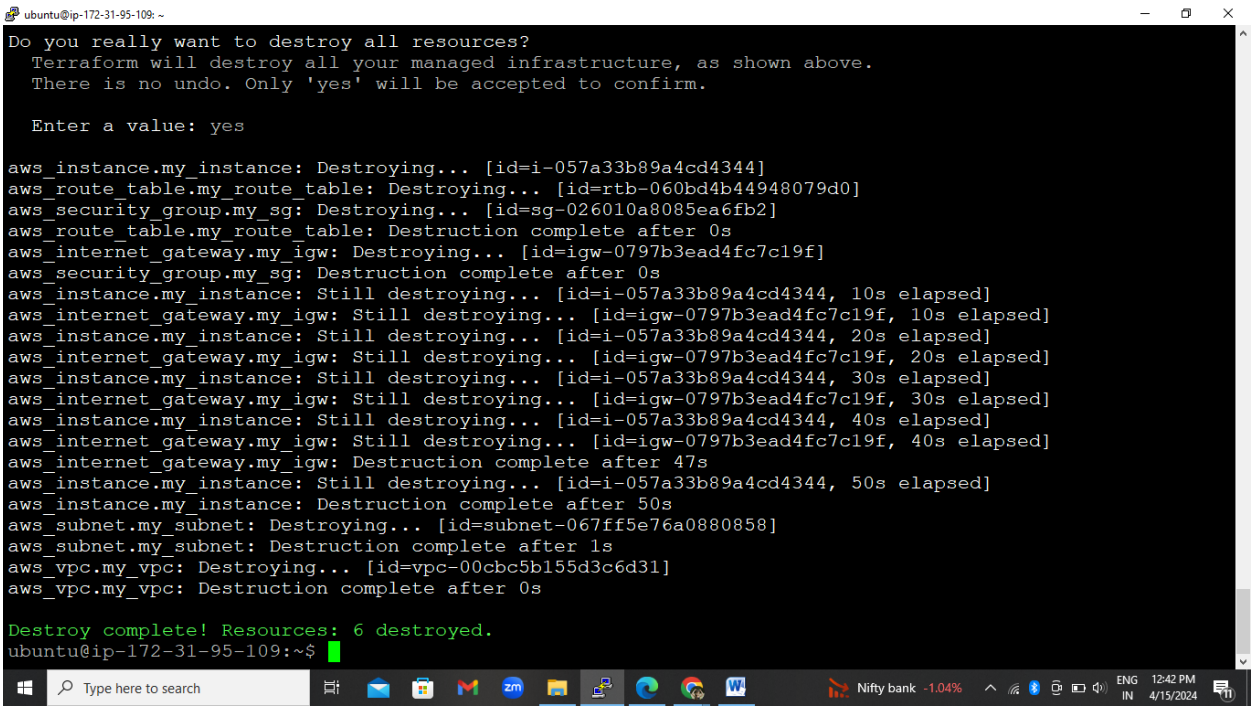
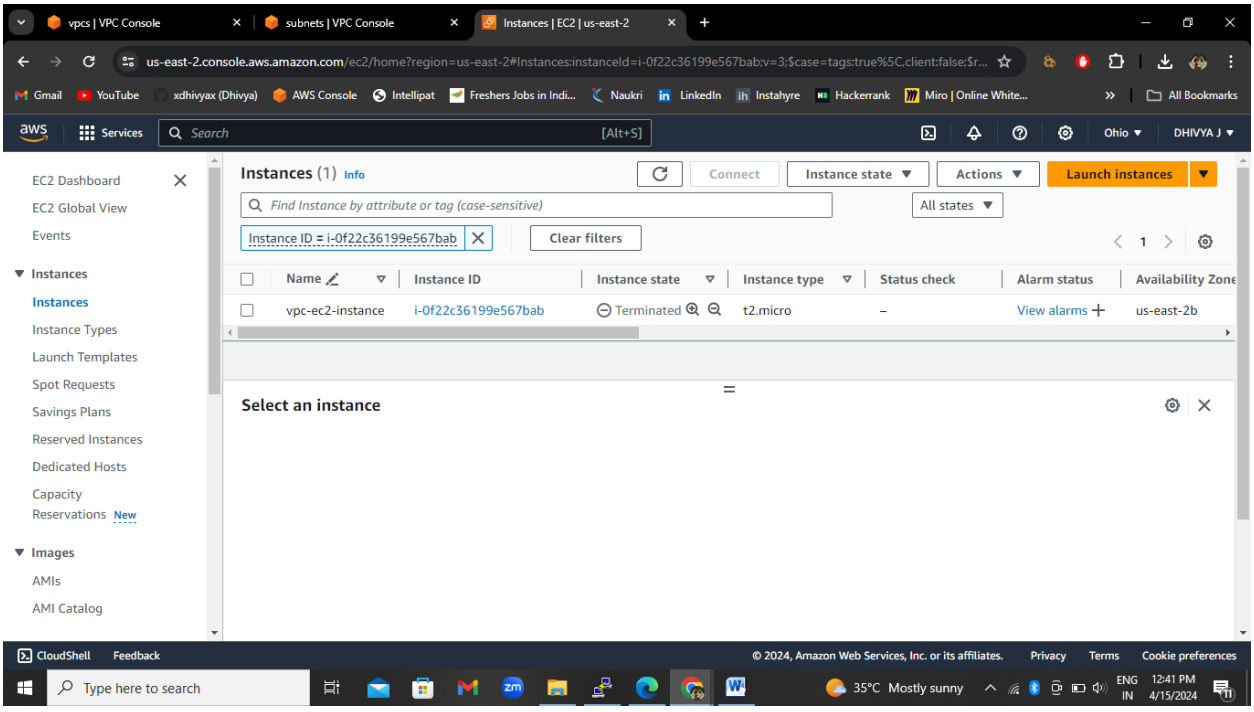
Terraform Assignment - 5

You have been asked to:

- Destroy the previous deployments
- Create a script to install apache2
- Run this script on a newly created EC2 instance
- Print the IP address of the instance in a file on the local, once deployed




ubuntu@ip-172-31-95-109: ~
Do you really want to destroy all resources?
Terraform will destroy all your managed infrastructure, as shown above.
There is no undo. Only 'yes' will be accepted to confirm.
Enter a value: yes
aws_instance.my_instance: Destroying... [id=i-057a33b89a4cd4344]
aws_route_table.my_route_table: Destroying... [id=rtb-060bd4b44948079d0]
aws_security_group.my_sg: Destroying... [id=sg-026010a8085ea6fb2]
aws_route_table.my_route_table: Destruction complete after 0s
aws_internet_gateway.my_igw: Destroying... [id=igw-0797b3ead4fc7c19f]
aws_security_group.my_sg: Destruction complete after 0s
aws_instance.my_instance: Still destroying... [id=i-057a33b89a4cd4344, 10s elapsed]
aws_internet_gateway.my_igw: Still destroying... [id=igw-0797b3ead4fc7c19f, 10s elapsed]
aws_instance.my_instance: Still destroying... [id=i-057a33b89a4cd4344, 20s elapsed]
aws_internet_gateway.my_igw: Still destroying... [id=igw-0797b3ead4fc7c19f, 20s elapsed]
aws_instance.my_instance: Still destroying... [id=i-057a33b89a4cd4344, 30s elapsed]
aws_internet_gateway.my_igw: Still destroying... [id=igw-0797b3ead4fc7c19f, 30s elapsed]
aws_instance.my_instance: Still destroying... [id=i-057a33b89a4cd4344, 40s elapsed]
aws_internet_gateway.my_igw: Still destroying... [id=igw-0797b3ead4fc7c19f, 40s elapsed]
aws_internet_gateway.my_igw: Destruction complete after 47s
aws_instance.my_instance: Still destroying... [id=i-057a33b89a4cd4344, 50s elapsed]
aws_instance.my_instance: Destruction complete after 50s
aws_subnet.my_subnet: Destroying... [id=subnet-067ff5e76a0880858]
aws_subnet.my_subnet: Destruction complete after 1s
aws_vpc.my_vpc: Destroying... [id=vpc-00cbc5b155d3c6d31]
aws_vpc.my_vpc: Destruction complete after 0s
Destroy complete! Resources: 6 destroyed.
ubuntu@ip-172-31-95-109:~$
Type here to search
Nifty bank -1.04%
ENG IN 12:42 PM 4/15/2024


vpcs | VPC Console
subnets | VPC Console
Instances | EC2 | us-east-2
us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:instanceId=i-0f22c36199e567bab;v=3;$case=tags:true%5C,client:false;$r...
Gmail YouTube xdhivyax (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White... All Bookmarks
aws Services Search [Alt+S] Ohio DHIVYA J
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance ID = i-0f22c36199e567bab
Clear filters
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
vpc-ec2-instance
i-0f22c36199e567bab
Terminated
t2.micro
–
View alarms
us-east-2b
Select an instance
CloudShell Feedback
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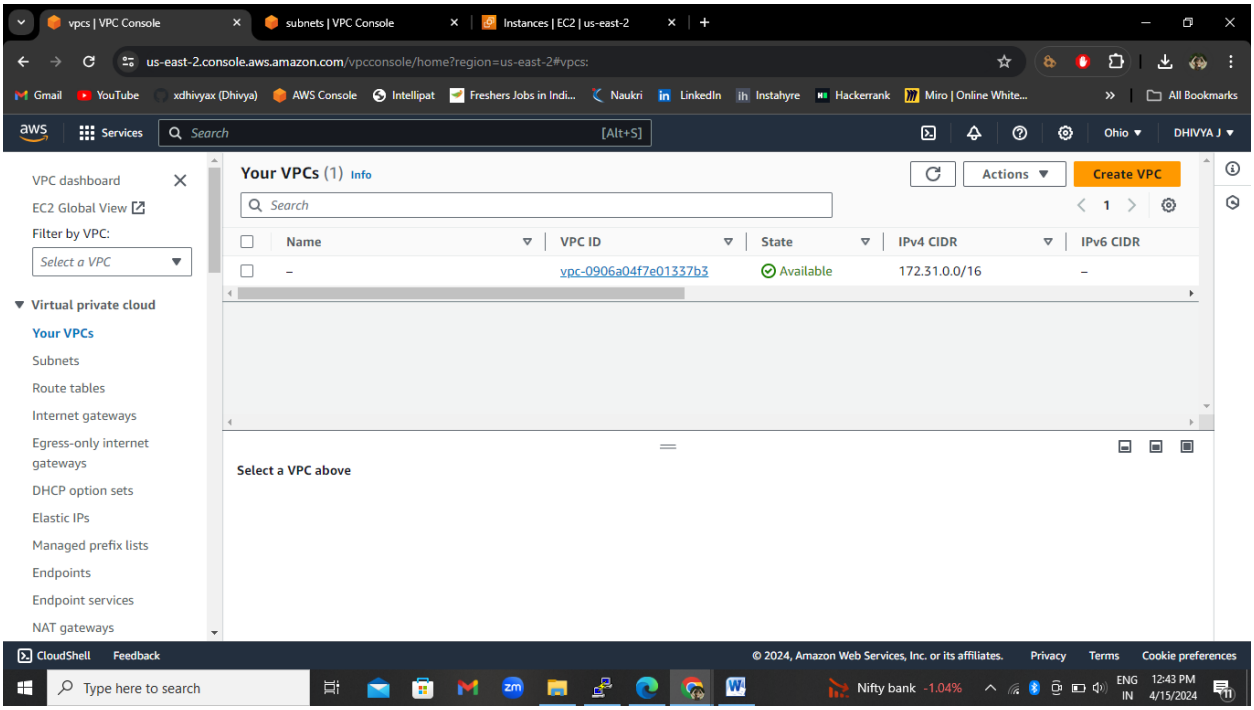
Type here to search
35°C Mostly sunny
ENG IN 12:41 PM 4/15/2024


vpcs | VPC Console
subnets | VPC Console
Instances | EC2 | us-east-2
us-east-2.console.aws.amazon.com/vpcconsole/home?region=us-east-2#vpcs:
Gmail
YouTube
xdhivyax (Dhivya)
AWS Console
Intellipat
Freshers Jobs in Indi...
Naukri
LinkedIn
Instahyre
Hackerrank
Miro | Online White...
All Bookmarks
aws
Services
Search
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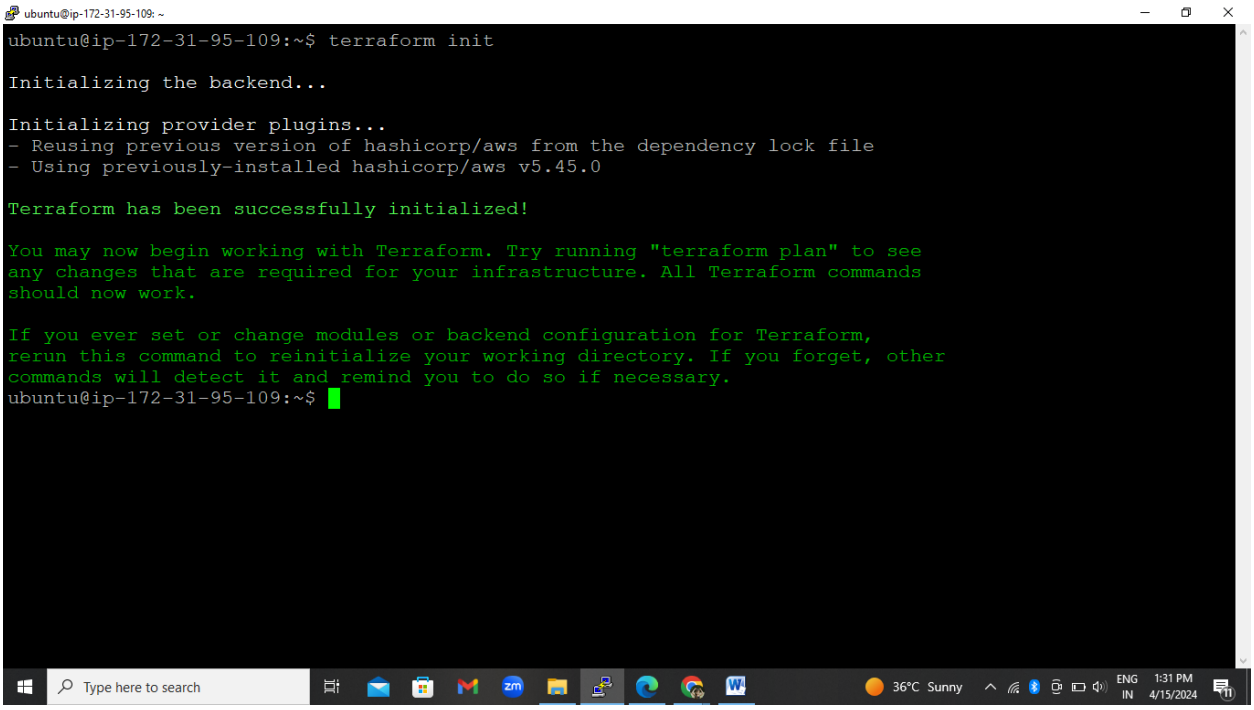
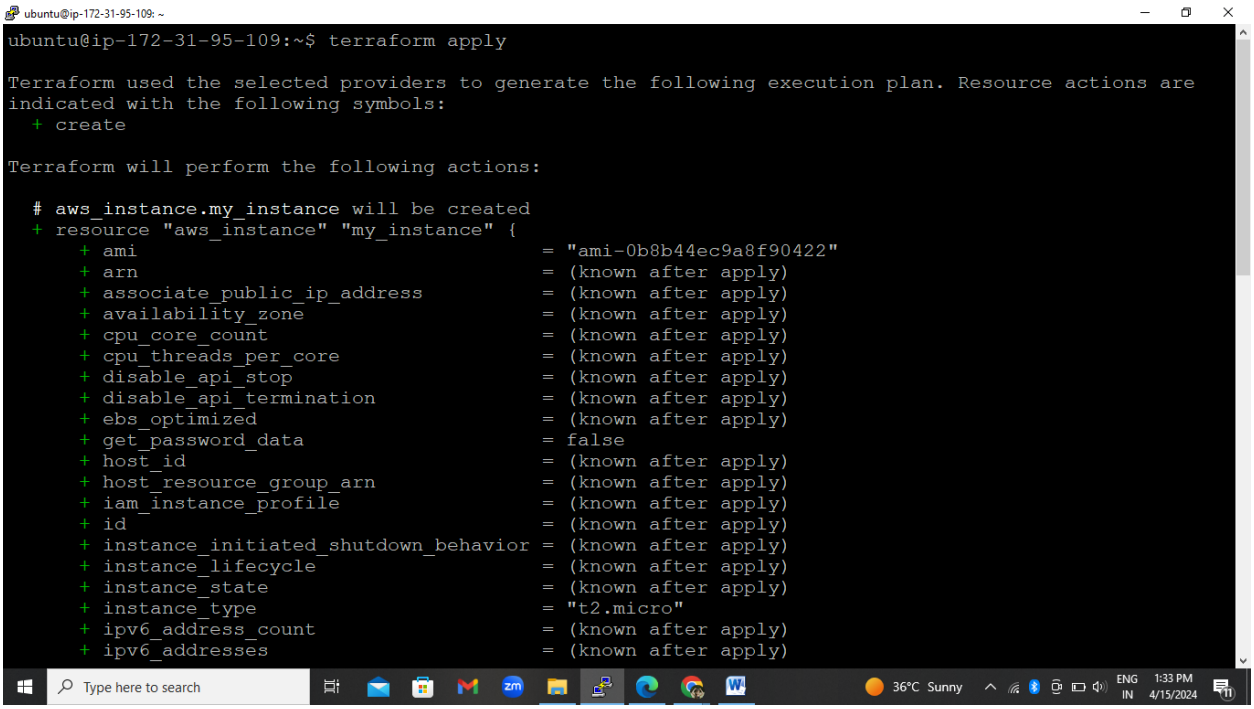
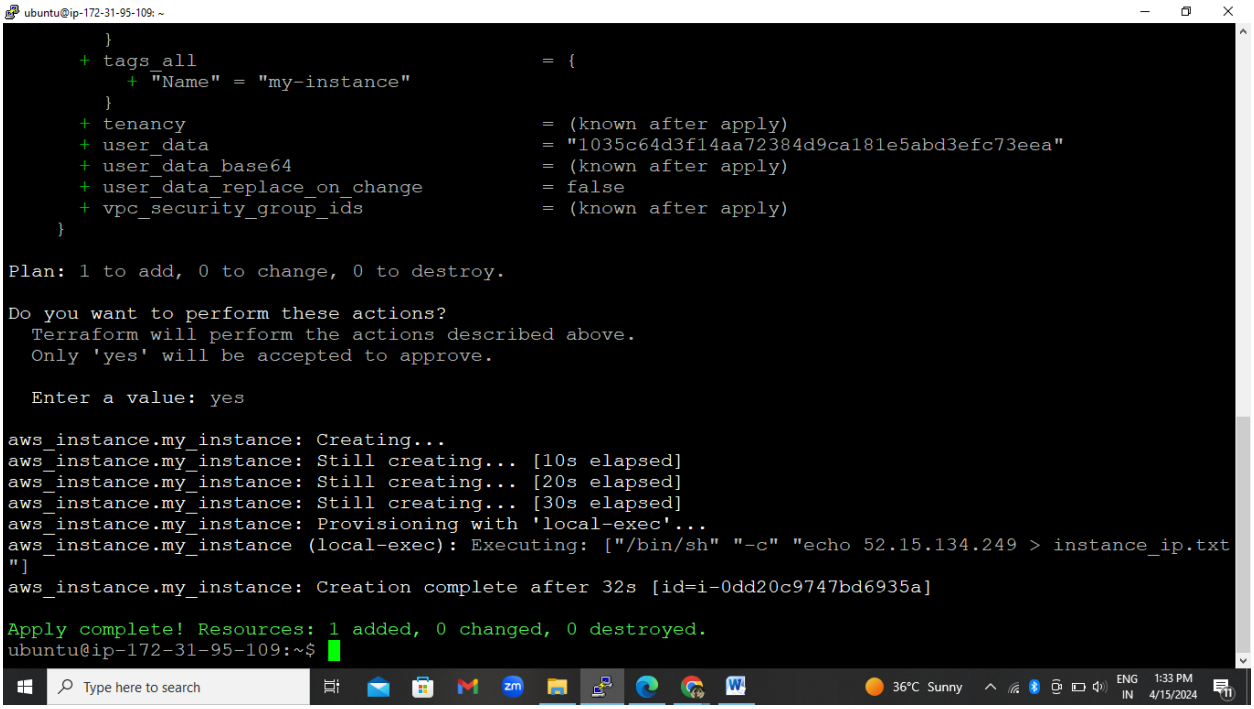
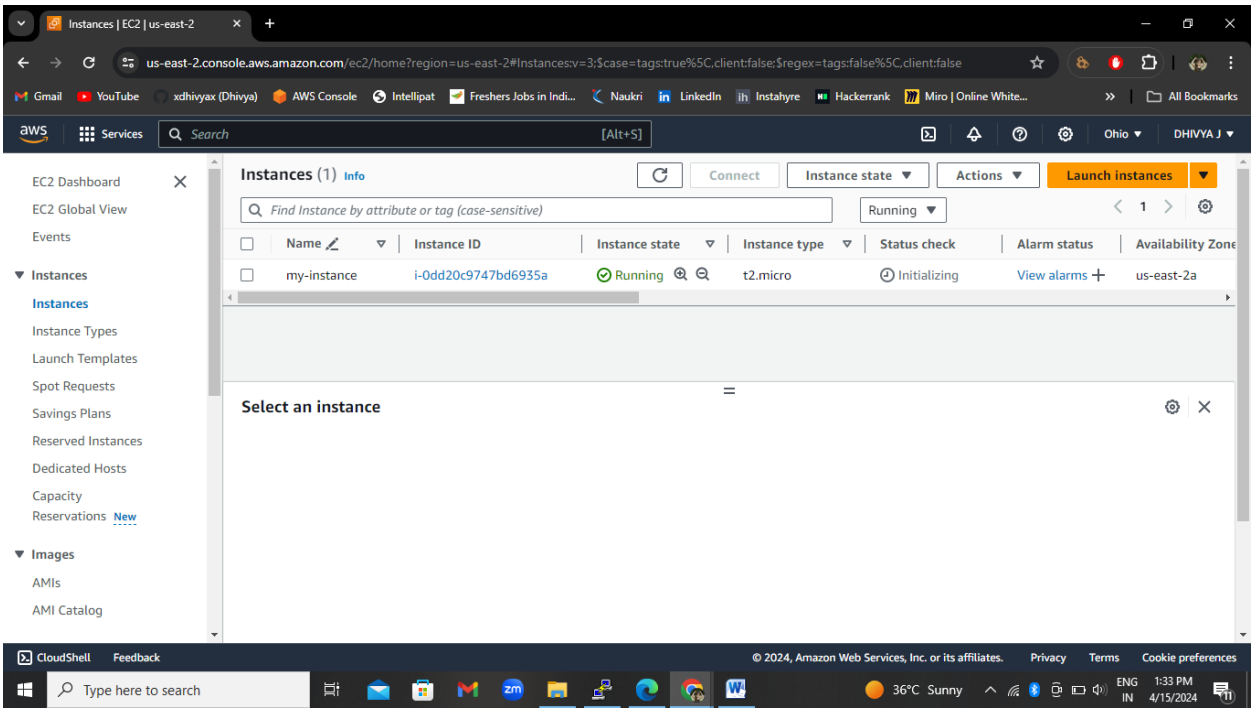
Ohio
DHIVYA J
VPC dashboard
EC2 Global View
Filter by VPC:
Select a VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Your VPCs (1) Info
Search
Actions
Create VPC
Name
VPC ID
State
IPv4 CIDR
IPv6 CIDR
-
vpc-0906a04f7e01337b3
Available
172.31.0.0/16
-
Select a VPC above
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
Nifty bank -1.04%
ENG
IN
12:43 PM
4/15/2024


ubuntu@ip-172-31-95-109: ~
ubuntu@ip-172-31-95-109:~$ terraform init
Initializing the backend...
Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.45.0
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
ubuntu@ip-172-31-95-109:~$
Type here to search
36°C Sunny
ENG
IN
1:31 PM
4/15/2024


ubuntu@ip-172-31-95-109: ~
ubuntu@ip-172-31-95-109:~$ terraform apply
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:
# aws_instance.my_instance will be created
+ resource "aws_instance" "my_instance" {
+ ami = "ami-0b8b44ec9a8f90422"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_lifecycle = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
+ ipv6_addresses = (known after apply)
Type here to search
36°C Sunny
ENG IN
1:33 PM 4/15/2024


ubuntu@ip-172-31-95-109: ~
}
+ tags_all = {
+ "Name" = "my-instance"
}
+ tenancy = (known after apply)
+ user_data = "1035c64d3f14aa72384d9ca181e5abd3efc73eea"
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
Plan: 1 to add, 0 to change, 0 to destroy.
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
aws_instance.my_instance: Creating...
aws_instance.my_instance: Still creating... [10s elapsed]
aws_instance.my_instance: Still creating... [20s elapsed]
aws_instance.my_instance: Still creating... [30s elapsed]
aws_instance.my_instance: Provisioning with 'local-exec'...
aws_instance.my_instance (local-exec): Executing: ["/bin/sh" "-c" "echo 52.15.134.249 > instance_ip.txt
"]
aws_instance.my_instance: Creation complete after 32s [id=i-0dd20c9747bd6935a]
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-95-109:~$
Type here to search
36°C Sunny
ENG IN
1:33 PM 4/15/2024


Instances | EC2 | us-east-2
us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
Gmail
YouTube
xdhivyax (Dhivya)
AWS Console
Intellipat
Freshers Jobs in Indi...
Naukri
LinkedIn
Instahyre
Hackerrank
Miro | Online White...
All Bookmarks
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DHIVYA J
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Running
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
my-instance
i-0dd20c9747bd6935a
Running
t2.micro
Initializing
View alarms
us-east-2a
Select an instance
CloudShell
Feedback
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ENG IN
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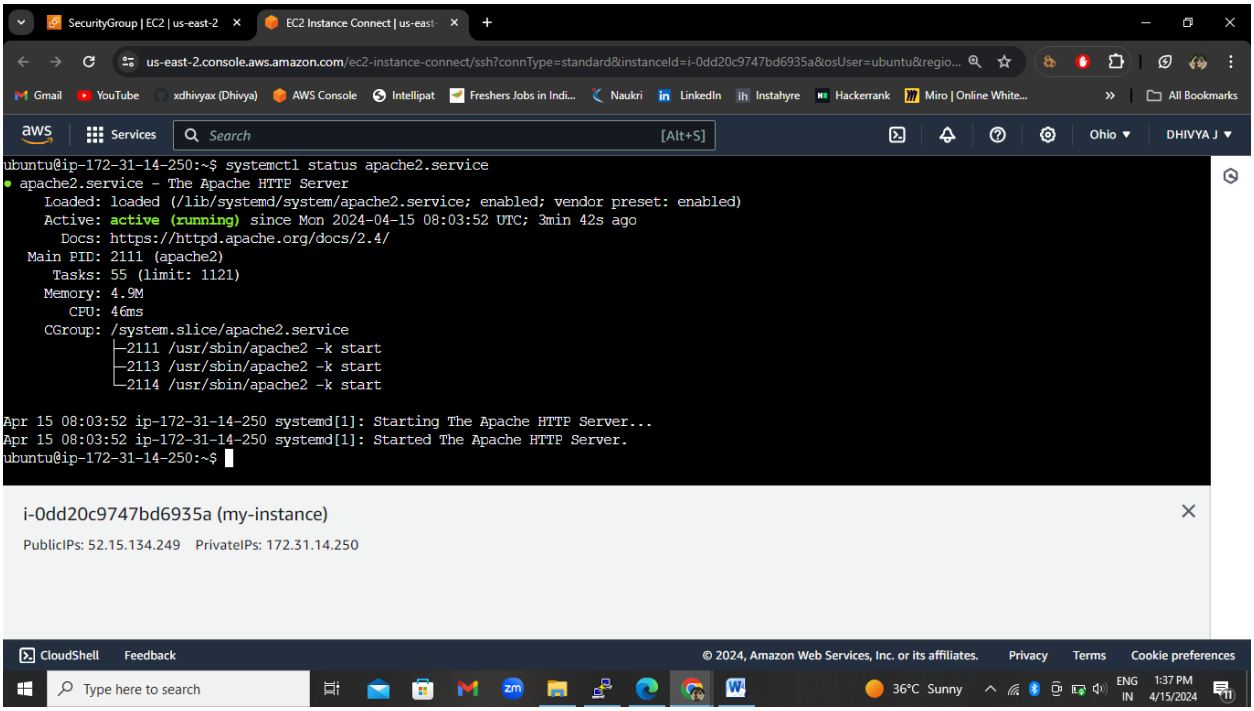
SecurityGroup | EC2 | us-east-2
EC2 Instance Connect | us-east-
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0dd20c9747bd6935a&osUser=ubuntu&regio...
Gmail
YouTube
xdhivyax (Dhivya)
AWS Console
Intellipat
Freshers Jobs in Indi...
Naukri
LinkedIn
Instahyre
Hackerrank
Miro | Online White...
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Search
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ubuntu@ip-172-31-14-250:~$ systemctl status apache2.service
● apache2.service - The Apache HTTP Server
Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
Active: active (running) since Mon 2024-04-15 08:03:52 UTC; 3min 42s ago
Docs: https://httpd.apache.org/docs/2.4/
Main PID: 2111 (apache2)
Tasks: 55 (limit: 1121)
Memory: 4.9M
CPU: 46ms
CGroup: /system.slice/apache2.service
├─2111 /usr/sbin/apache2 -k start
├─2113 /usr/sbin/apache2 -k start
└─2114 /usr/sbin/apache2 -k start
Apr 15 08:03:52 ip-172-31-14-250 systemd[1]: Starting The Apache HTTP Server...
Apr 15 08:03:52 ip-172-31-14-250 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-172-31-14-250:~$
i-0dd20c9747bd6935a (my-instance)
PublicIPs: 52.15.134.249 PrivateIPs: 172.31.14.250
CloudShell
Feedback
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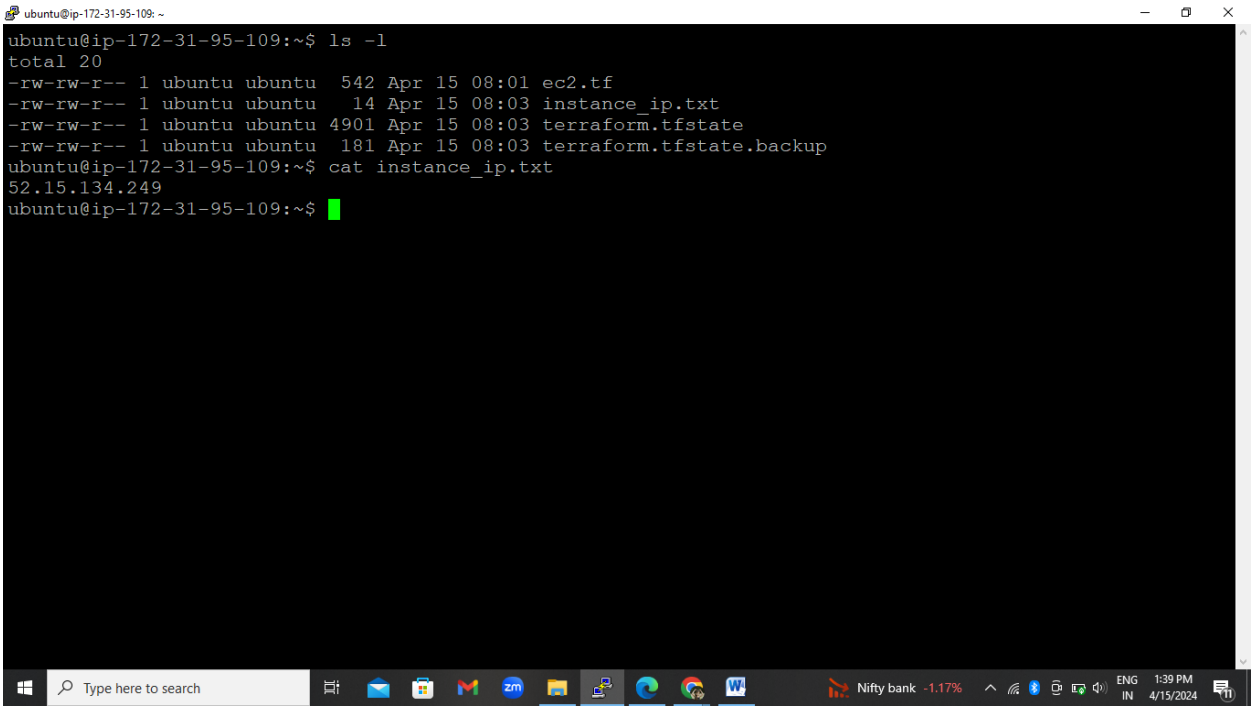
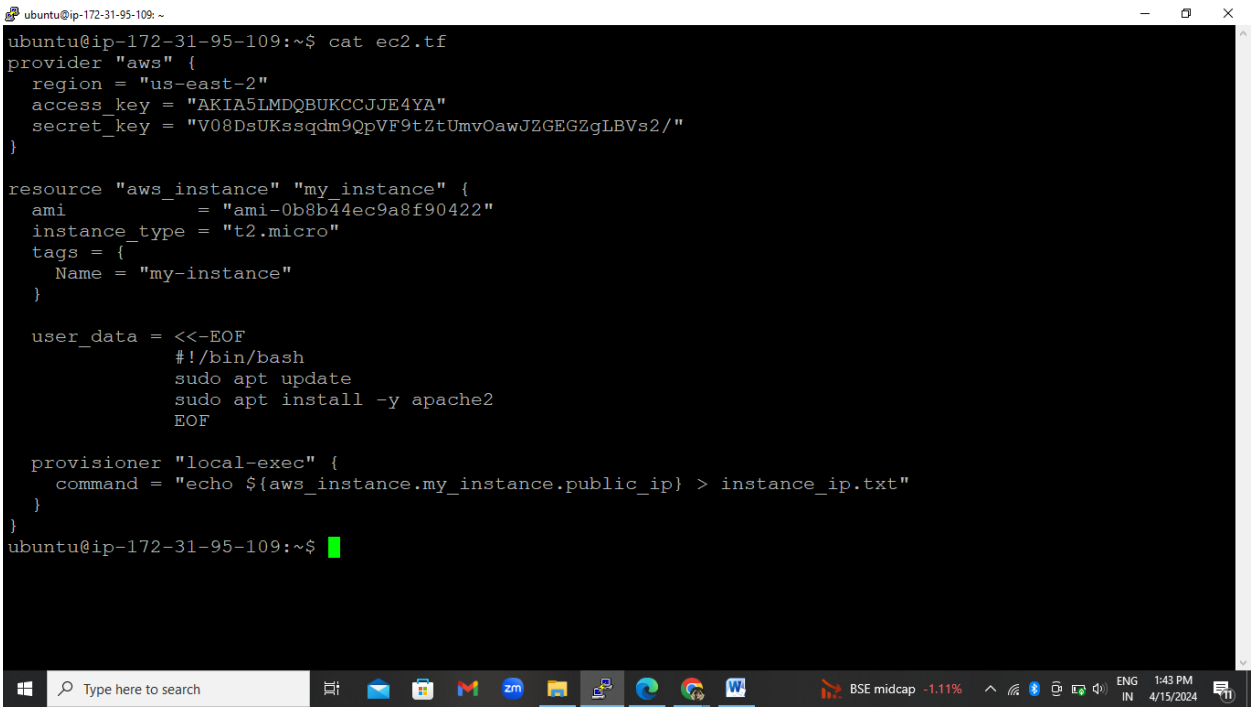
36°C Sunny
ENG IN
1:37 PM 4/15/2024


ubuntu@ip-172-31-95-109: ~
ubuntu@ip-172-31-95-109:~$ ls -l
total 20
-rw-rw-r-- 1 ubuntu ubuntu 542 Apr 15 08:01 ec2.tf
-rw-rw-r-- 1 ubuntu ubuntu   14 Apr 15 08:03 instance_ip.txt
-rw-rw-r-- 1 ubuntu ubuntu 4901 Apr 15 08:03 terraform.tfstate
-rw-rw-r-- 1 ubuntu ubuntu 181 Apr 15 08:03 terraform.tfstate.backup
ubuntu@ip-172-31-95-109:~$ cat instance_ip.txt
52.15.134.249
ubuntu@ip-172-31-95-109:~$
Type here to search
Nifty bank -1.17%
ENG
IN
1:39 PM
4/15/2024


ubuntu@ip-172-31-95-109: ~
ubuntu@ip-172-31-95-109:~$ cat ec2.tf
provider "aws" {
  region = "us-east-2"
  access_key = "AKIA5LMDQBUKCCJJE4YA"
  secret_key = "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"
}
resource "aws_instance" "my_instance" {
  ami   = "ami-0b8b44ec9a8f90422"
  instance_type = "t2.micro"
  tags = {
    Name = "my-instance"
  }
  user_data = <<-EOF
              #!/bin/bash
              sudo apt update
              sudo apt install -y apache2
              EOF
  provisioner "local-exec" {
    command = "echo ${aws_instance.my_instance.public_ip} > instance_ip.txt"
  }
}
ubuntu@ip-172-31-95-109:~$
Type here to search
BSE midcap -1.11%
ENG
IN
1:43 PM
4/15/2024