

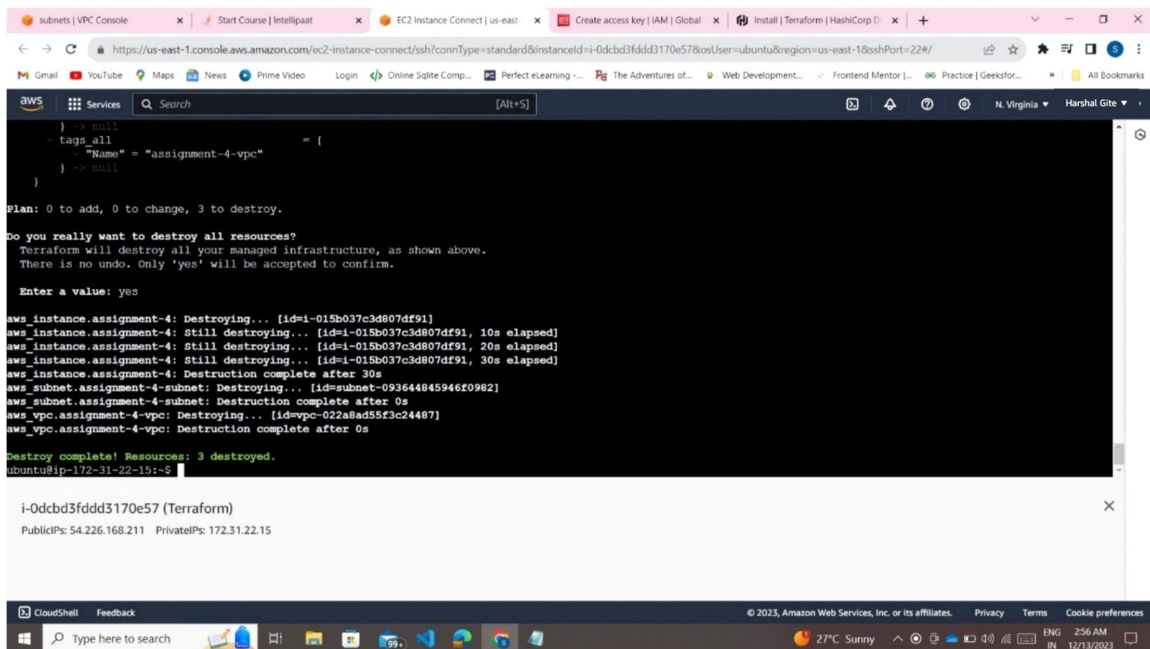
# Terraform Assignment-5

Tasks To Be Performed:

1. Destroy the previous deployments
2. Create a script to install Apache2
3. Run this script on a newly created EC2 instance
4. Print the IP address of the instance in a file on the local once deployed

Solution:

Steps:



```

} -> null
tags_all
  "Name" = "assignment-4-vpc"
} -> null
}

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

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.assignment-4: Destroying... [id=i-015b037c3d807df91]
aws_instance.assignment-4: Still destroying... [id=i-015b037c3d807df91, 10s elapsed]
aws_instance.assignment-4: Still destroying... [id=i-015b037c3d807df91, 20s elapsed]
aws_instance.assignment-4: Still destroying... [id=i-015b037c3d807df91, 30s elapsed]
aws_instance.assignment-4: Destruction complete after 30s
aws_subnet.assignment-4-subnet: Destroying... [id=subnet-093644045946f0982]
aws_subnet.assignment-4-subnet: Destruction complete after 0s
aws_vpc.assignment-4-vpc: Destroying... [id=vpc-022a8ad55f3c24407]
aws_vpc.assignment-4-vpc: Destruction complete after 0s

Destroy complete! Resources: 3 destroyed.
ubuntu@ip-172-31-22-15:~$

i-0dcdb3fddd3170e57 (Terraform)
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15
```

subnets | VPC Console x Start Course | Intellipaat x EC2 Instance Connect | us-east-1 x Create access key | IAM | Global x Install | Terraform | HashiCorp x +

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0dcbd3fddd3170e57&osUser=ubuntu&region=us-east-1&sshPort=22#/

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provider "aws" {  
 access\_key = "AKIA33WRZLAEVFCMBK3"  
 secret\_key = "8WE6ADQv0o14Z+wS1j4NFOBJrLgPso9bT1sFWU"  
 region = "us-east-2"  
}

resource "aws\_instance" "a5-instance" {  
 ami = "ami-07b36ea9852e986ad"  
 instance\_type = "t2.micro"  
 key\_name = "police-key"  
 user\_data = "\${file("install-apache2.sh")}"  
 tags = {  
 Name = "a5-instance"  
 }  
}

output "IPv4" {  
 value = aws\_instance.a5-instance.public\_ip  
}

i-0dcbd3fddd3170e57 (Terraform)  
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15

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subnets | VPC Console x Start Course | Intellipaat x EC2 Instance Connect | us-east-1 x Create access key | IAM | Global x Install | Terraform | HashiCorp x +

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0dcbd3fddd3170e57&osUser=ubuntu&region=us-east-1&sshPort=22#/

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

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.assignment-4: Destroying... [id=i-015b037c3d807df91]  
aws\_instance.assignment-4: Still destroying... [id=i-015b037c3d807df91, 10s elapsed]  
aws\_instance.assignment-4: Still destroying... [id=i-015b037c3d807df91, 20s elapsed]  
aws\_instance.assignment-4: Still destroying... [id=i-015b037c3d807df91, 30s elapsed]  
aws\_instance.assignment-4: Destruction complete after 30s  
aws\_subnet.assignment-4-subnet: Destroying... [id=subnet-093644845946f0982]  
aws\_subnet.assignment-4-subnet: Destruction complete after 0s  
aws\_vpc.assignment-4-vpc: Destroying... [id=vpc-022a8ad55f3c24487]  
aws\_vpc.assignment-4-vpc: Destruction complete after 0s

Destroy complete! Resources: 3 destroyed.

buntu@ip-172-31-22-15:~\$ ls  
main.tf terraform.tfstate terraform.tfstate.backup  
buntu@ip-172-31-22-15:~\$ sudo nano main.tf  
buntu@ip-172-31-22-15:~\$ sudo nano install-apache2.sh

i-0dcbd3fddd3170e57 (Terraform)  
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15

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subnets | VPC Console x Start Course | Intellipaat x EC2 Instance Connect | us-east-1 x Create access key | IAM | Global x Install | Terraform | HashiCorp D x

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0dcbd3fddd3170e57&osUser=ubuntu&region=us-east-1&sshPort=22#/

GNU nano 4.8 install-apache2.sh Modified

```
#!/bin/bash
sudo apt update -y
sudo apt install apache2 -y
sudo su
echo "Custom html page" > /var/www/html/index.html
```

i-0dcbd3fddd3170e57 (Terraform)  
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15

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subnets | VPC Console x Start Course | Intellipaat x EC2 Instance Connect | us-east-1 x Create access key | IAM | Global x Install | Terraform | HashiCorp D x

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0dcbd3fddd3170e57&osUser=ubuntu&region=us-east-1&sshPort=22#/

```
+ security_groups = (known after apply)
+ source_dest_check = true
+ spot_instance_request_id = (known after apply)
+ subnet_id = (known after apply)
+ tags = {
  + "Name" = "a5-instance"
}
+ tags_all = {
  + "Name" = "a5-instance"
}
+ tenancy = (known after apply)
+ user_data = "d26de4058e9223b1f428342d0145d4b2d859142"
+ 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.

Changes to Outputs:
  + IPv4 = (known after apply)

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
ubuntu@ip-172-31-22-15:~$
```

i-0dcbd3fddd3170e57 (Terraform)  
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15

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subnets | VPC Console x Start Course | Intellipaat x EC2 Instance Connect | us-east-2 x Create access key | IAM | Global x Install | Terraform | HashiCorp x +

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0dcbd3fddd3170e57&osUser=ubuntu&region=us-east-1&sshPort=22#/

aws Services Search [Alt+S] N. Virginia Harshal Gite

```
user_data_replace_on_change = false
vpc_security_group_ids       = (known after apply)

Plan: 1 to add, 0 to change, 0 to destroy.

Changes to Outputs:
  + IPv4 = (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

aws_instance.a5-instance: Creating...
aws_instance.a5-instance: Still creating... [10s elapsed]
aws_instance.a5-instance: Still creating... [20s elapsed]
aws_instance.a5-instance: Creation complete after 22s [id=i-0f17af74176d24069]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

Outputs:
IPv4 = "3.142.220.244"
ubuntu@ip-172-31-22-151:~$
```

i-0dcbd3fddd3170e57 (Terraform)  
PublicIPs: 54.226.168.211 PrivateIPs: 172.31.22.15

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Instances | EC2 | us-east-2 x Start Course | Intellipaat x EC2 Instance Connect | us-east-2 x +

https://us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:instanceState=running

aws Services Search [Alt+S] Ohio Harshal Gite

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

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

Instance state = running Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
a5-instance	i-0f17af74176d24069	Running	t2.micro	Initializing	No alarms	us-east-2c	ec2-3-142-220-2

Instance: i-0f17af74176d24069 (a5-instance)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary info

Instance ID i-0f17af74176d24069 (a5-instance)

Public IPv4 address copied 3.142.220.244 open address

Private IPv4 addresses 172.31.32.88

Public IPv4 DNS ec2-3-142-220-244.us-east-2.compute.amazonaws.com open address

Instance state Running

Private IP DNS name (IPv4 only)

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The screenshot shows a web browser window with multiple tabs. The active tab is titled "EC2 Instance Connect | us-east-1" and displays the URL `https://us-east-1.console.aws.amazon.com/ec2-instance-connect/sh?connType=standard&instanceId=i-0dcbd3fddd3170e57&osUser=ubuntu&region=us-east-1&sshPort=22#/`. Below the browser window is a terminal window titled "CloudShell" with a search bar and a feedback icon. The terminal displays the following content:

```
+ user_data_replace_on_change = false
+ vpc_security_group_ids       = (known after apply)
}

Plan: 1 to add, 0 to change, 0 to destroy.

Changes to Outputs:
+ IPv4 = (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

aws_instance.a5-instance: Creating...
aws_instance.a5-instance: Still creating... [10s elapsed]
aws_instance.a5-instance: Still creating... [20s elapsed]
aws_instance.a5-instance: Creation complete after 22s [id=i-0f17af74176d24069]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

Outputs:
IPv4 = "3.142.220.244"
ubuntuip-172-31-22-151-0

i-0dcbd3fddd3170e57 (Terraform)
PublicIPs: 54.226.168.211  PrivateIPs: 172.31.22.15
```

The terminal window also shows a footer with the text "© 2021, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences" and a system tray area with the date "12/13/2023" and time "3:08 AM".