

RIDDHIMA RAI
500094024
BATCH 2

Lab Exercise 8– Creating a VPC in Terraform

Objective:

Objective:

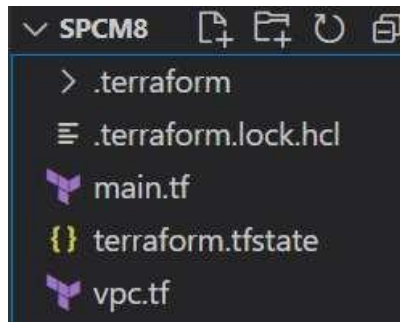
Learn how to use Terraform to create a basic Virtual Private Cloud (VPC) in AWS.

Prerequisites:

- Terraform installed on your machine.
- AWS CLI configured with the necessary credentials.

Steps:

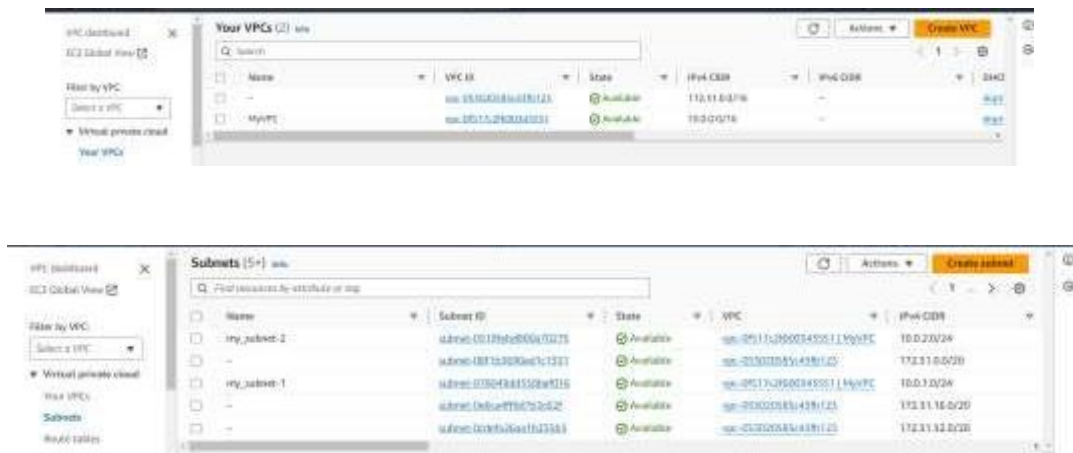
1. Create a Terraform Directory:



- Create Terraform Configuration Files:
- Create a file named main.tf:

main.tf

3. Verify Resources in AWS Console:



5. Clean Up:

```
PS E:\Desktop\DevOps\SPCMB> terraform destroy -auto-approve
aws_vpc.my_vpc: Refreshing state... [id=vpc-0f517c2f600343551]
aws_subnet.my_subnet[0]: Refreshing state... [id=subnet-076049dd350baf016]
aws_subnet.my_subnet[1]: Refreshing state... [id=subnet-0519febd800a70275]

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

Terraform will perform the following actions:

# aws_subnet.my_subnet[0] will be destroyed
- resource "aws_subnet" "my_subnet" {
  arn                                = "arn:aws:ec2:ap-south-1:637423583821:subnet/subnet-076049dd350baf016" -> null
  assign_ipv6_address_on_creation    = false -> null
  availability_zone                  = "ap-south-1c" -> null
  availability_zone_id               = "aps1-az2" -> null
  cidr_block                        = "10.0.1.0/24" -> null
  enable_dns64                      = false -> null
  enable_ni_at_device_index         = 0 -> null
  enable_resource_name_dns_a_record_on_launch = false -> null
  enable_resource_name_dns_aaaa_record_on_launch = false -> null
  id                                = "subnet-076049dd350baf016" -> null
  ipv6_native                       = false -> null
  map_customer_owned_ip_on_launch    = false -> null
  map_public_ip_on_launch            = false -> null
  owner_id                          = "637423583821" -> null
  private_dns_hostname_type_on_launch = "ip-name" -> null
  tags                              = {
    "Name" = "my_subnet-1"
  } -> null
  tags_all                          = {
    "Name" = "my_subnet-1"
  }
}
```

```
Plan: 0 to add, 0 to change, 3 to destroy.
aws_subnet.my_subnet[1]: Destroying... [id=subnet-0519febd800a70275]
aws_subnet.my_subnet[0]: Destroying... [id=subnet-076049dd350baf016]
aws_subnet.my_subnet[1]: Destruction complete after 2s
aws_subnet.my_subnet[0]: Destruction complete after 2s
aws_vpc.my_vpc: Destroying... [id=vpc-0f517c2f600343551]
aws_vpc.my_vpc: Still destroying... [id=vpc-0f517c2f600343551, 10s elapsed]
aws_vpc.my_vpc: Destruction complete after 16s

Destroy complete! Resources: 3 destroyed.
```

VPC dashboard

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs (1)

Search

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP s
-	vpc-063020585u439b123	Available	172.31.0.0/16	-	DHCP s

VPC dashboard

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

Subnets (3)

Filter resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-5617b348a2a1a1333	Available	vpc-063020585u439b123	172.31.0.0/20
-	subnet-8b6ca8ff9d7b2a52	Available	vpc-063020585u439b123	172.31.16.0/20
-	subnet-5c6fa26a192d58d	Available	vpc-063020585u439b123	172.31.32.0/20