Assignment4

Terraform4

Tasks To Be Performed:

1. Destroy the previous deployments

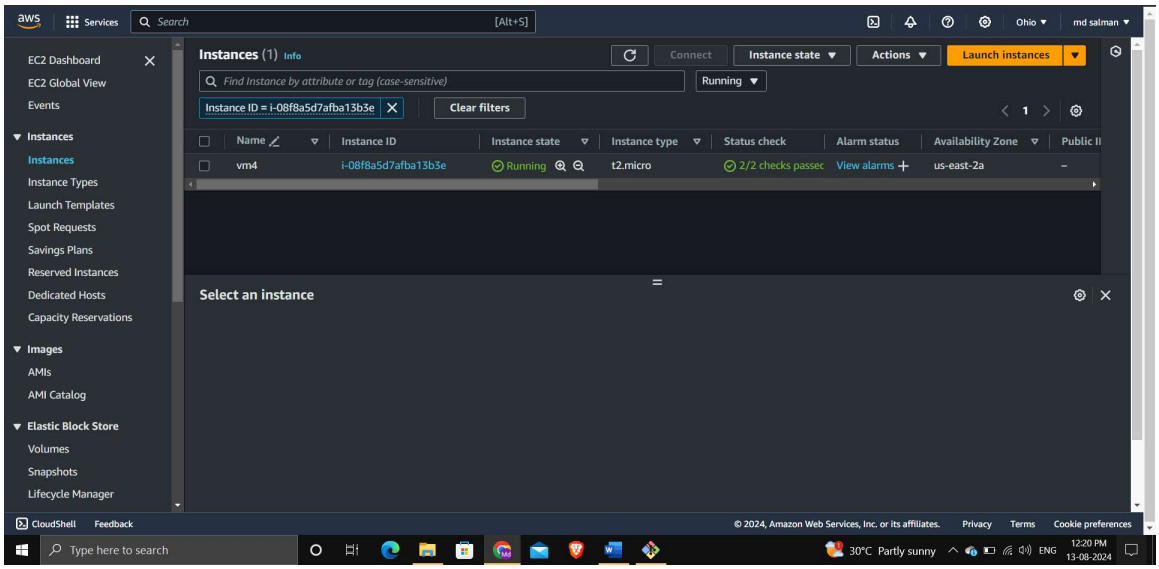
2. Create a VPC with the required components using Terraform

3. Deploy an EC2 instance inside the VPC

Step1:Creation of infrastructure in terraform script Vpc and ec2.

```
provider "aws" {
        access_key = var.aws_access_key
        secret_key = var.aws_secret_key
        region = var.region1
}

resource "aws_vpc" "assignment-vpc" {
  cidr_block = "10.0.0.0/16"
  tags = {
  Name = "salman-VPC"
  }
}

resource "aws_subnet" "assignment-subnet" {
  vpc_id = aws_vpc.assignment-vpc.id
  cidr_block = "10.0.0.0/23"
  availability_zone = "us-east-2a"
  tags = {
  Name = "assignment-subnet"
  }
}

resource "aws_instance" "assignment-4" {
        ami = "ami-003932de22c285676"
        instance_type = "t2.micro"
        subnet_id = aws_subnet.assignment-subnet.id
        key_name = "key1"
        tags = {
        Name = "vm4"
        }
}

~
```

Step2: our vpc and ec2 machine is ready.


Services
Search
[Alt+S]
Ohio
md salman
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Running
Instance ID = i-08f8a5d7afba13b3e
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
vm4
i-08f8a5d7afba13b3e
Running
t2.micro
2/2 checks passed
View alarms
us-east-2a
Select an instance
CloudShell
Feedback
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30°C Partly sunny
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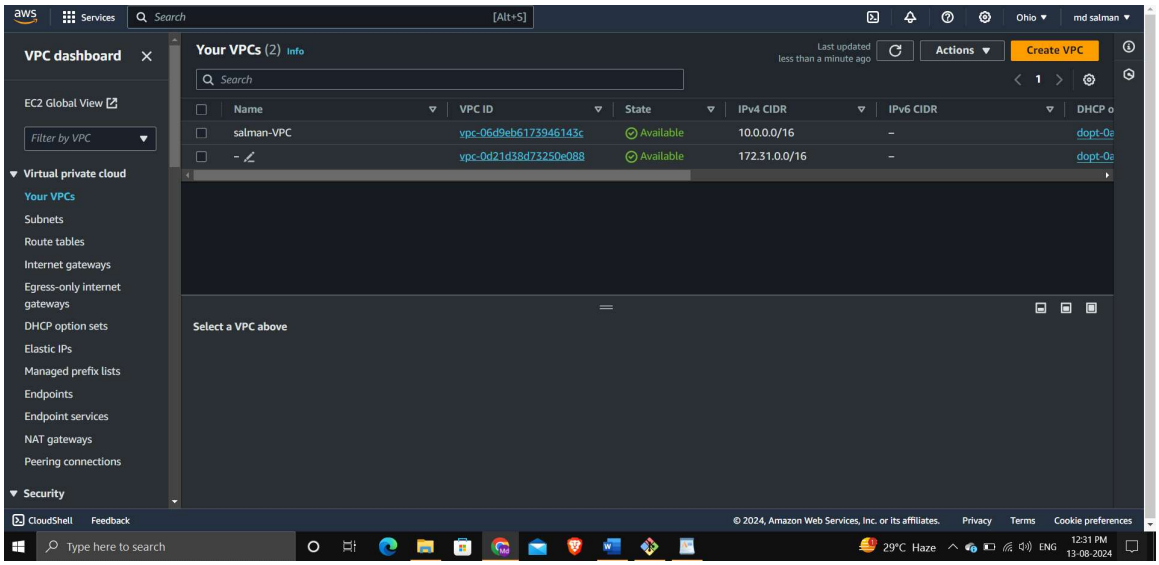
Services
Search
[Alt+S]
Ohio
md salman
VPC dashboard
EC2 Global View
Filter by VPC
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Your VPCs (2) Info
Last updated less than a minute ago
Actions
Create VPC
Search
Name
VPC ID
State
IPv4 CIDR
IPv6 CIDR
DHCP o
salman-VPC
vpc-06d9eb6173946143c
Available
10.0.0.0/16
vpc-0d21d38d73250e088
Available
172.31.0.0/16
Select a VPC above
CloudShell
Feedback
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29°C Haze
ENG
12:31 PM
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