## **Assignment 1**

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### 1) Create two T2 Micro EC2 Instances.

- a. First we will create 2 instances using script.
- b. After creating 2 instances we will associate a security group for our instances.
- c. These instances will get deployed in default VPC's.

```
resource "aws_instance" "KushSharmaInstance" {
    ami = "ami-00dd0e5626798373"
    count = "2"
    key_name = "Kush"
    instance_type = "t2.micro"
    security_groups = ["KushSharma"]
    tags = {
        Name = "KushSharmaInstance"
    }
}
```

#### 2) Create a VPN in AWS.

- a. For creating VPN we will first set up VPN gateway.
- b. Then we would setup a customer gateway
- c. And at last we would set up a vpn connection.

#### 3. Create a s3 Bucket.

a. Mentioned below is the script for setting up S3 bucket.

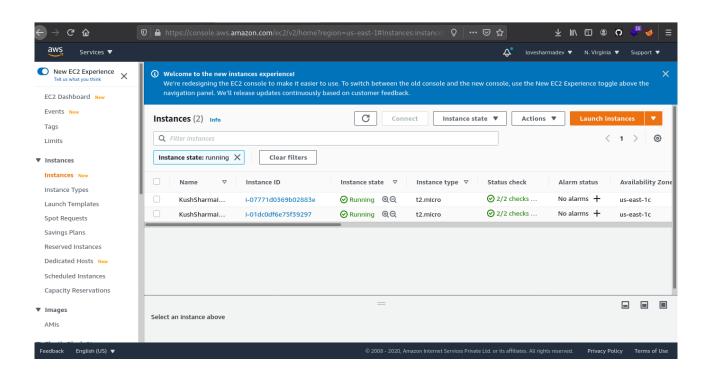
### **Output:-**

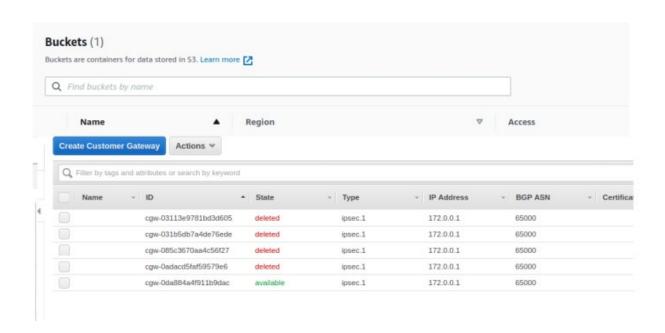
```
ush@kali:~/Documents/myspace/college/system_provisioning/assignment1$ terraform apply
aws_vpc.vpc: Refreshing state... [id=vpc-0fe2641b1b619c069]
aws_spec.vpc. Refreshing state... [Id=vpc=bfe2041b1b619C009]
aws_customer_gateway.customer_gateway: Refreshing state... [id=cgw-01217b17f4021fc0c]
aws_security_group.KushSharma: Refreshing state... [id=sg-0e79405887bd704e6]
aws_vpn_gateway.vpn_gateway: Refreshing state... [id=vgw-01b3b648cc0010eb7]
aws_vpn_connection.main: Refreshing state... [id=vpn-02eba0efd23ce2ed5]
An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
  + create
Terraform will perform the following actions:
  # aws_instance.KushSharmaInstance[0] will be created
   + resource "aws_instance" "KushSharmaInstance" {
                                                 = "ami-04bf6dcdc9ab498ca"
        + ami
        + ami = ami_-u4prodcccyab49i

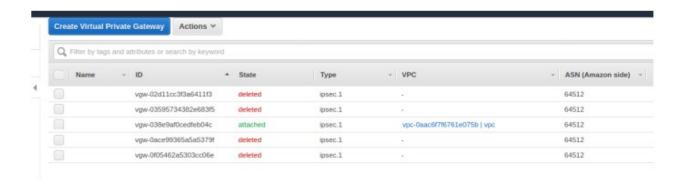
+ arn = (known after apply)

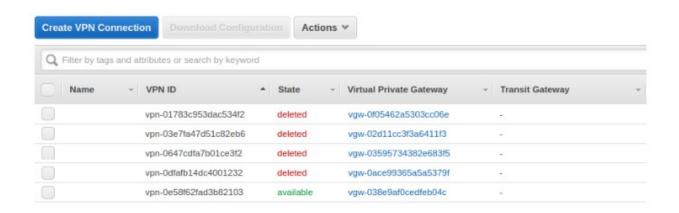
+ associate_public_ip_address = (known after apply)

+ availability_zone = (known after apply)
        + cpu_core_count
                                                 = (known after apply)
        + cpu_threads_per_core
                                                 = (known after apply)
        + get_password_data
                                                 = false
                                                 = (known after apply)
        + host_id
                                                 = (known after apply)
        + id
                                                 = (known after apply)
= "t2.micro"
        + instance_state
+ instance_type
                                                 = (known after apply)
        + ipv6_address_count
        + ipv6_addresses
                                                 = (known after apply)
        + key_name
                                                  = "Kush"
        + outpost_arn
                                                 = (known after apply)
        + password_data
                                                 = (known after apply)
          placement_group
                                                 = (known after apply)
          primary_network_interface_id = (known after apply)
        + private_dns
                                                  = (known after apply)
        + private_ip
                                                  = (known after apply)
        + public_dns
                                                    (known after apply)
                                                  = (known after apply)
```









```
_provisioning/assignment1$ terraform destroy
kushakat!:~/Documents/myspace/college/system_provisioning/assignment1$ terraform desti
aws_vpc.vpc: Refreshing state... [id=vpc-03dab245b1e406349]
aws_customer_gateway.customer_gateway: Refreshing state... [id=cgw-0aca8c9b5c9d5d815]
aws_security_group. KushSharma: Refreshing state... [id=sg-080cbc428a5a1a6de]
aws_instance. KushSharmaInstance[1]: Refreshing state... [id=i-01dcodf6e75f39297]
aws_instance. KushSharmaInstance[0]: Refreshing state... [id=i-07771d0369b02883e]
aws_vpn_gateway.vpn_gateway: Refreshing state... [id=vgw-0ad1541a6c36e0526]
aws_vpn_connection.main: Refreshing state... [id=vpn-05b2055f0aa6876d4]
An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
- destroy
 Terraform will perform the following actions:
   = "cgw-0aca8c9b5c9d5d815" -> null
= "172.0.0.1" -> null
= {} -> null
= "ipsec.1" -> null
               id
               ip_address =
               tags
               type
   = "arn:aws:ec2:us-east-1:578684658346:instance/i-07771d0369b02883e" -> null
               arn
               associate_public_ip_address = true
availability_zone = "us-e
                                                                          "us-east-1c" -> null
                                                                     = 1 -> null
= 1 -> null
               cpu_core_count
cpu_threads_per_core
disable_api_termination
                                                                     = false -> null
= false -> null
               ebs_optimized
get_password_data
hibernation
                                                                          false -> null
```