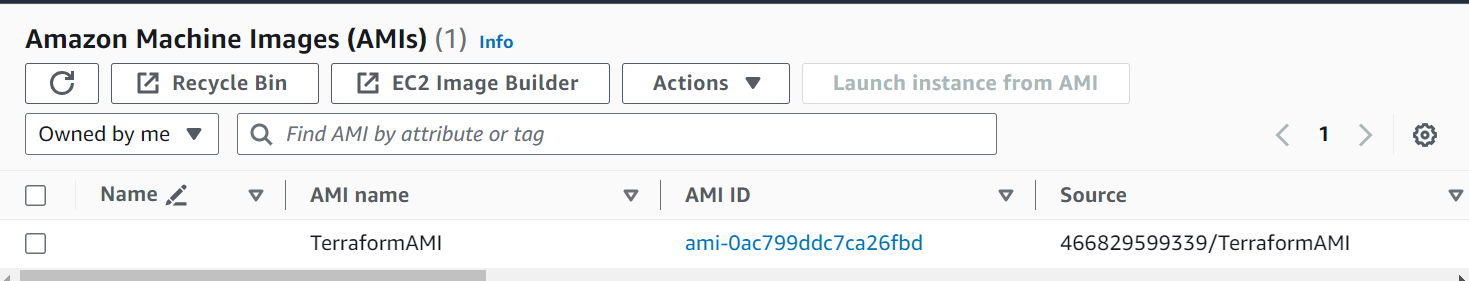
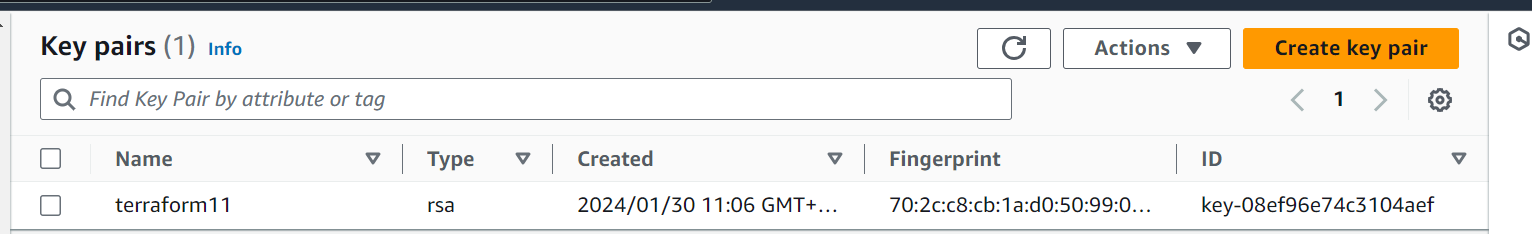
Write Terraform script to create highly available infrastructure in AWS. The infra should have1 vpc, 3 subnets setup in 3 different az and 2 instances setup in 2 different subnets

Solution:

Created an AMI



Created an Key Pair



Written an Terraform State file to create an Infra

**provider "aws" {**

**region = "ap-south-1"**

**}**

**resource "aws\_vpc" "main" {**

**cidr\_block = "10.0.0.0/16"**

**enable\_dns\_support = true**

**enable\_dns\_hostnames = true**

**tags = {**

**Name = "MyVPC"**

**}**

**}**

**resource "aws\_subnet" "subnet\_a" {**

**vpc\_id = aws\_vpc.main.id**

**cidr\_block = "10.0.1.0/24"**

**availability\_zone = "ap-south-1a"**

**map\_public\_ip\_on\_launch = true**

**tags = {**

**Name = "SubnetA"**

**}**

**}**

**resource "aws\_subnet" "subnet\_b" {**

**vpc\_id = aws\_vpc.main.id**

**cidr\_block = "10.0.2.0/24"**

**availability\_zone = "ap-south-1b"**

**map\_public\_ip\_on\_launch = true**

**tags = {**

**Name = "SubnetB"**

**}**

**}**

**resource "aws\_subnet" "subnet\_c" {**

**vpc\_id = aws\_vpc.main.id**

**cidr\_block = "10.0.3.0/24"**

**availability\_zone = "ap-south-1c"**

**map\_public\_ip\_on\_launch = true**

**tags = {**

**Name = "SubnetC"**

**}**

**}**

**resource "aws\_instance" "instance\_a" {**

**ami = "ami-0ac799ddc7ca26fbd"**

**instance\_type = "t2.micro"**

**subnet\_id = aws\_subnet.subnet\_a.id**

**key\_name = "terraform11"**

**tags = {**

**Name = "InstanceA"**

**}**

**}**

**resource "aws\_instance" "instance\_b" {**

**ami = "ami-0ac799ddc7ca26fbd"**

**instance\_type = "t2.micro"**

**subnet\_id = aws\_subnet.subnet\_b.id**

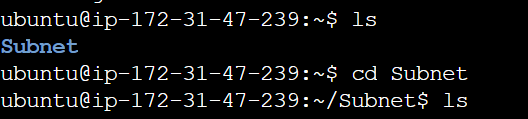
**key\_name = "terraform11"**

**tags = {**

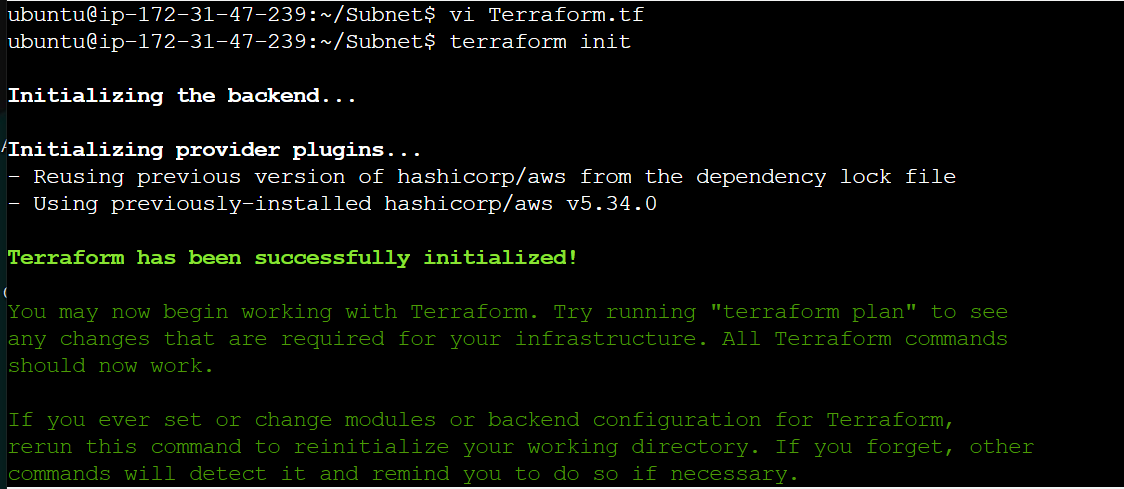
**Name = "InstanceB"**

**}**

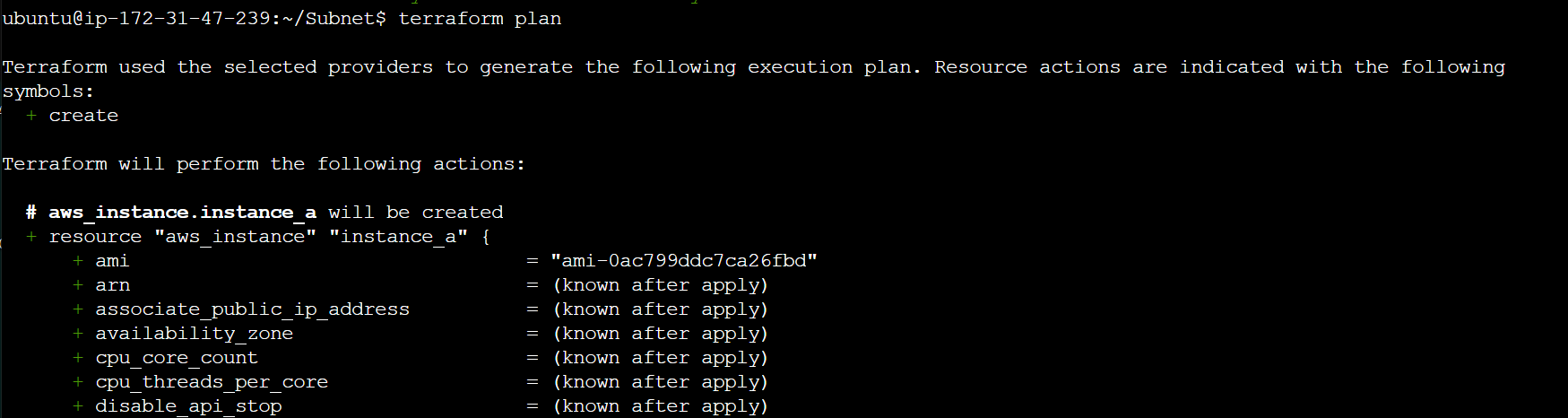
**}**

****

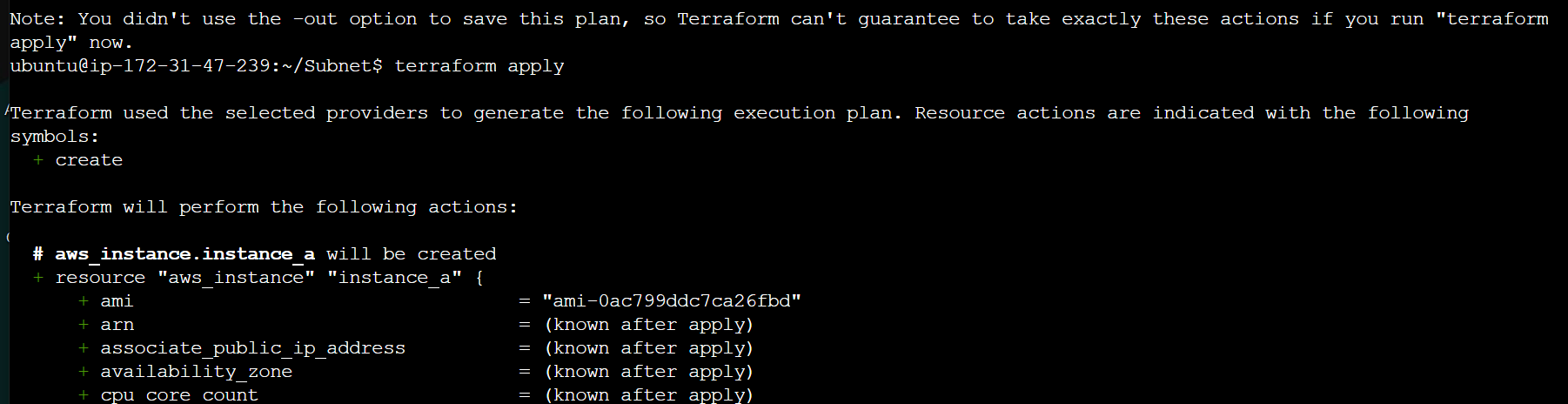
**Terraform Init**

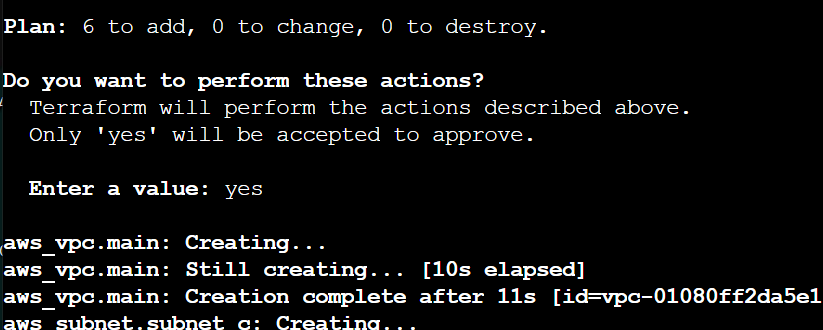
****

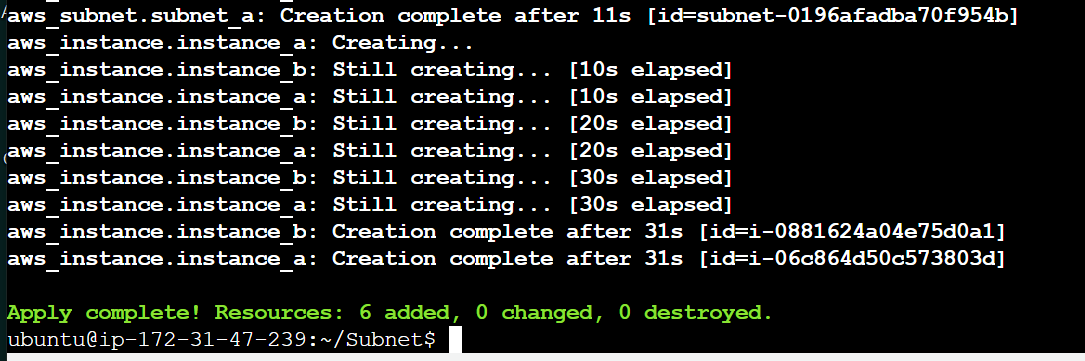
**Terraform Plan**

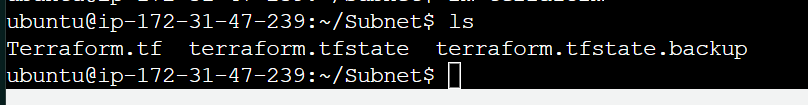
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**Terraform Apply**

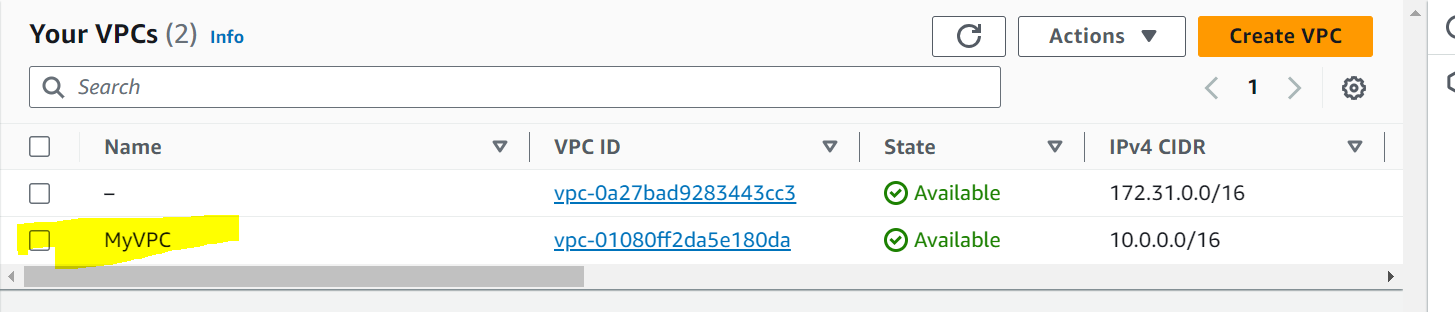
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****

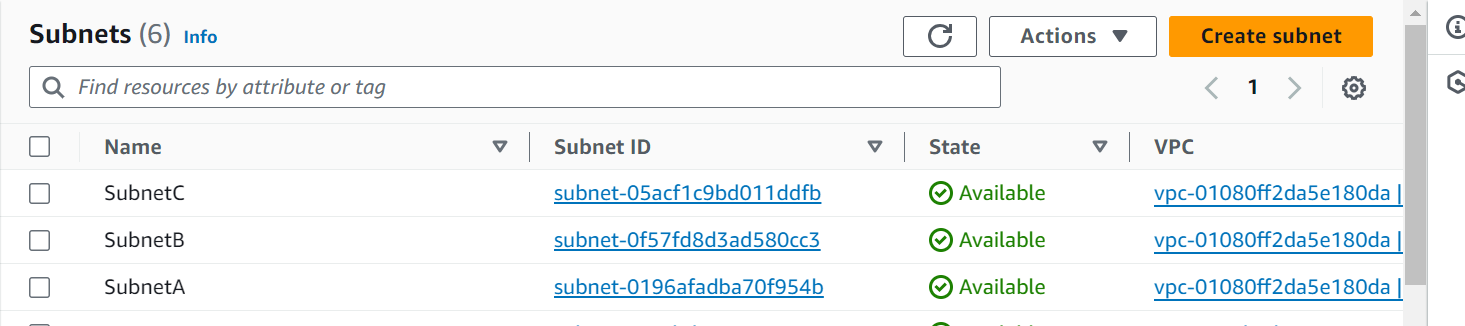
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****

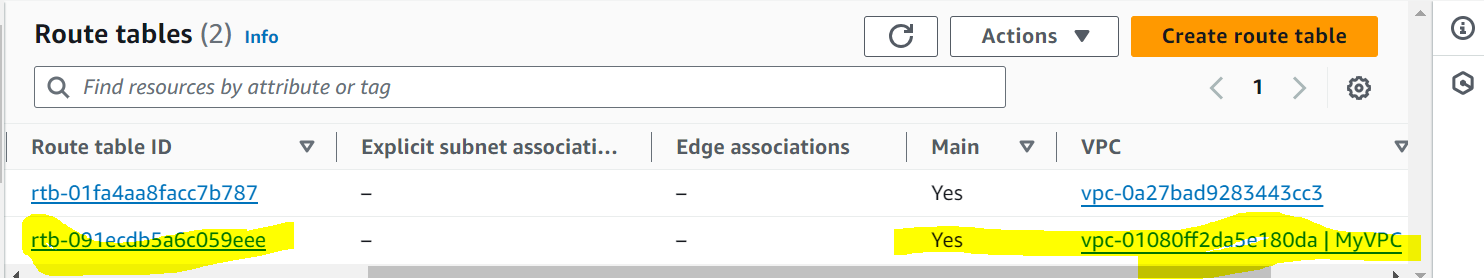
**VPC**

****

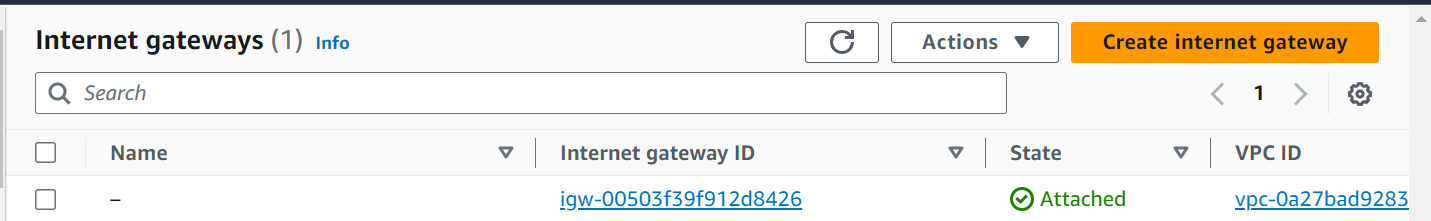
**Subnets**

****

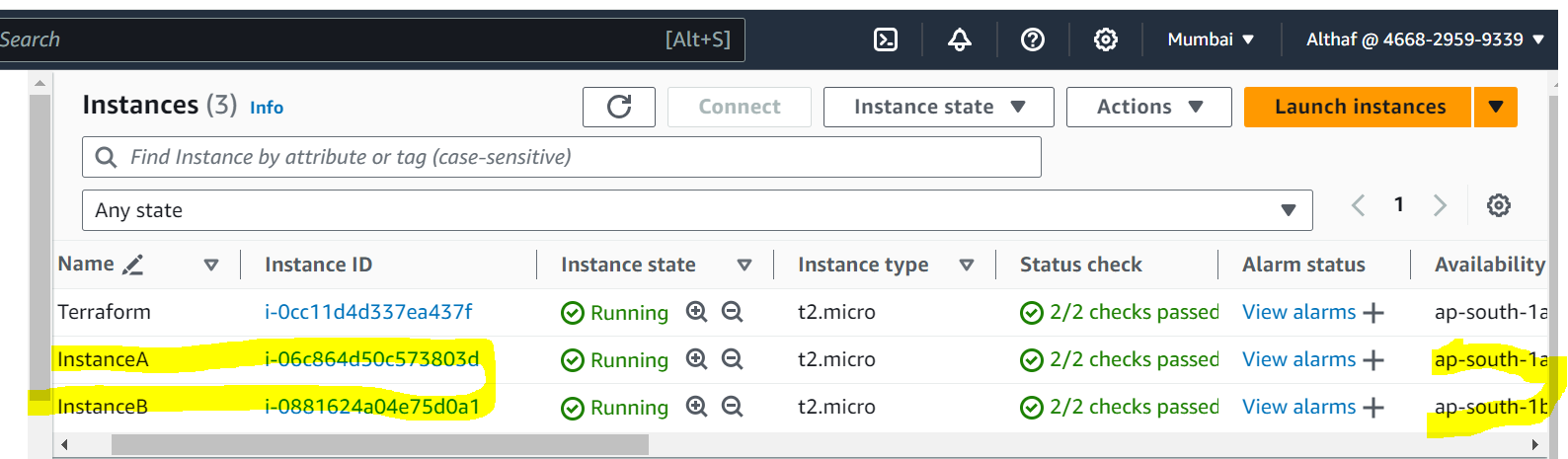
**Routetable**

****

**IGW**

****

**Instances:**

****