

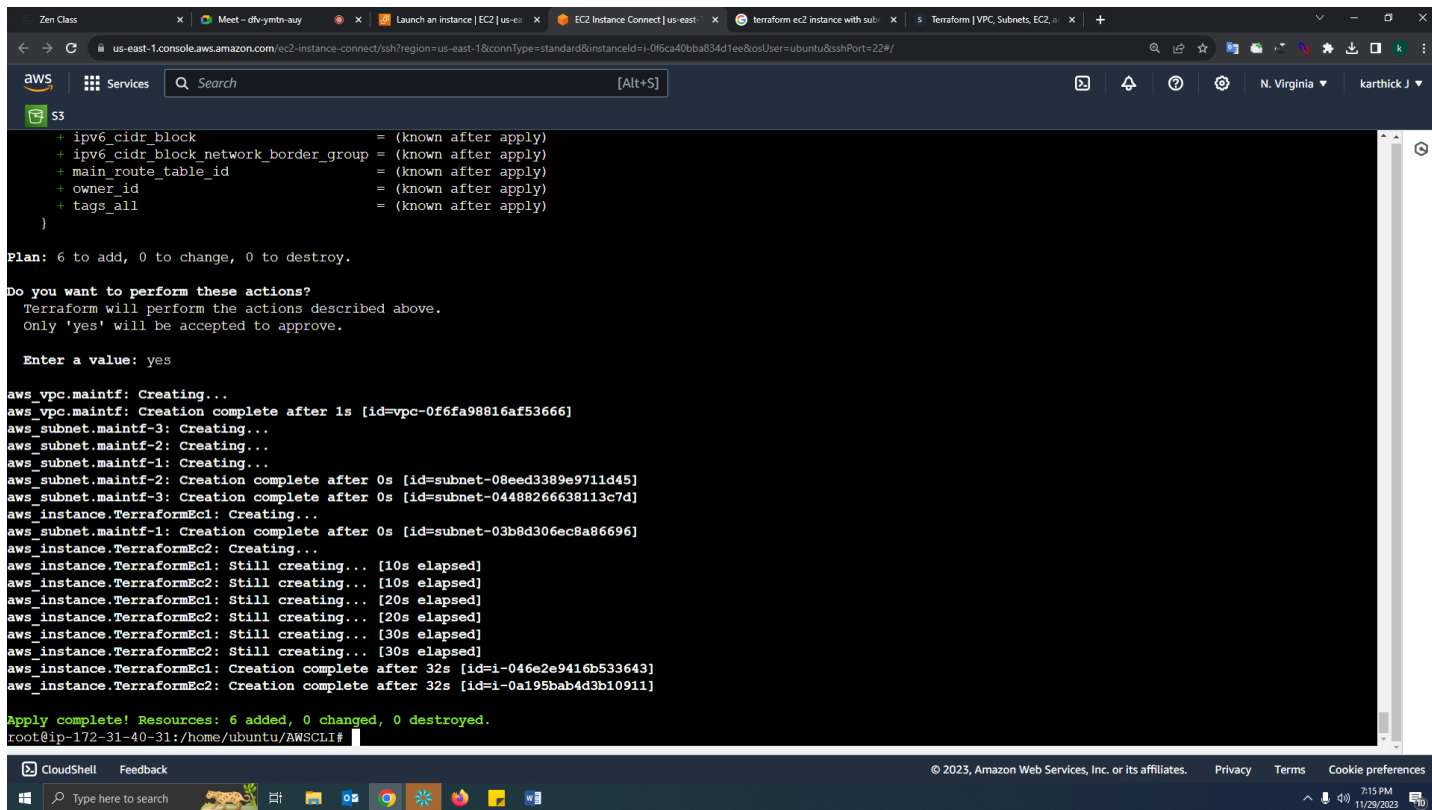
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Question:

Write Terraform script to create highly available infrastructure in AWS. The infra should have 1 vpc, 3 subnets setup in 3 different az and 2 instances setup in 2 different subnets

Step : 1

Creation of 1 VPC, 3 subnets, 2 instance.



```
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0f6ca40bba834d1ee&osUser=ubuntu&sshPort=22#/  
$  
+ ipv6_cidr_block = (known after apply)  
+ ipv6_cidr_block_network_border_group = (known after apply)  
+ main_route_table_id = (known after apply)  
+ owner_id = (known after apply)  
+ tags_all = (known after apply)  
}  
  
Plan: 6 to add, 0 to change, 0 to destroy.  
  
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_vpc.maintf: Creating...  
aws_vpc.maintf: Creation complete after 1s [id=vpc-0f6fa98816af53666]  
aws_subnet.maintf-3: Creating...  
aws_subnet.maintf-2: Creating...  
aws_subnet.maintf-1: Creating...  
aws_subnet.maintf-2: Creation complete after 0s [id=subnet-08eed3389e9711d45]  
aws_subnet.maintf-3: Creation complete after 0s [id=subnet-04488266638113c7d]  
aws_instance.TerraformEc1: Creating...  
aws_instance.TerraformEc1: Creation complete after 0s [id=subnet-03b8d306ec8a86696]  
aws_instance.TerraformEc2: Creating...  
aws_instance.TerraformEc1: Still creating... [10s elapsed]  
aws_instance.TerraformEc2: Still creating... [10s elapsed]  
aws_instance.TerraformEc1: Still creating... [20s elapsed]  
aws_instance.TerraformEc2: Still creating... [20s elapsed]  
aws_instance.TerraformEc1: Still creating... [30s elapsed]  
aws_instance.TerraformEc2: Still creating... [30s elapsed]  
aws_instance.TerraformEc1: Creation complete after 32s [id=i-046e2e9416b533643]  
aws_instance.TerraformEc2: Creation complete after 32s [id=i-0a195bab4d3b10911]  
  
Apply complete! Resources: 6 added, 0 changed, 0 destroyed.  
root@ip-172-31-40-31:/home/ubuntu/AWSCLI#
```

Step : 2

VPC in AWS.

Your VPCs (1/2)Info

Q Search

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<div><input type="checkbox"/></div>	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP o
<div><input type="checkbox"/></div>	-	vpc-0c5d47ebfd7dca5be	✔ Available	172.31.0.0/16	-	dopt-Of
<div><input checked="" type="checkbox"/></div>	-	vpc-0f6fa98816af53666	✔ Available	10.0.0.0/16	-	dopt-Of

Step : 3

Creation of 3 subnets.

Subnets (3/9) Info						Refresh	Actions	Create subnet
Find resources by attribute or tag						< 1 > ⚙		
<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR			
<input checked="" type="checkbox"/>	Main-3	subnet-04488266638113c7d	Available	vpc-0f6fa98816af53666	10.0.3.0/24			
<input checked="" type="checkbox"/>	Main-2	subnet-08eed3389e9711d45	Available	vpc-0f6fa98816af53666	10.0.2.0/24			
<input type="checkbox"/>	-	subnet-064dd3ada787a8845	Available	vpc-0c5d47ebfd7dca5be	172.31.16.0/20			
<input type="checkbox"/>	-	subnet-0a6fb2f8209c8f44e	Available	vpc-0c5d47ebfd7dca5be	172.31.64.0/20			
<input type="checkbox"/>	-	subnet-097385434737b3e98	Available	vpc-0c5d47ebfd7dca5be	172.31.32.0/20			
<input type="checkbox"/>	-	subnet-02381a844391aa221	Available	vpc-0c5d47ebfd7dca5be	172.31.80.0/20			
<input checked="" type="checkbox"/>	Main-1	subnet-03b8d306ec8a86696	Available	vpc-0f6fa98816af53666	10.0.1.0/24			
<input type="checkbox"/>	-	subnet-0b59ecf81b7329a3f	Available	vpc-0c5d47ebfd7dca5be	172.31.48.0/20			

Step : 4

Creation of 2 Instance.

Instances (3) Info

Refresh

Connect

Instance state ▾

Actions ▾

Launch instances ▾











Find Instance by attribute or tag (case-sensitive)

Instance state = running X

Clear filters

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<input type="checkbox"/>	Name  ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4
<input type="checkbox"/>	Example-1	i-0f6ca40bba834d1ee	✔ Running  	t2.micro	✔ 2/2 checks passed	No alarms 	us-east-1a	ec2-3-88-2
<input type="checkbox"/>	tf-1	i-0a195bab4d3b10911	✔ Running  	t2.micro	⌚ Initializing	No alarms 	us-east-1a	-
<input type="checkbox"/>	tf-2	i-046e2e9416b533643	✔ Running  	t2.micro	⌚ Initializing	No alarms 	us-east-1b	-