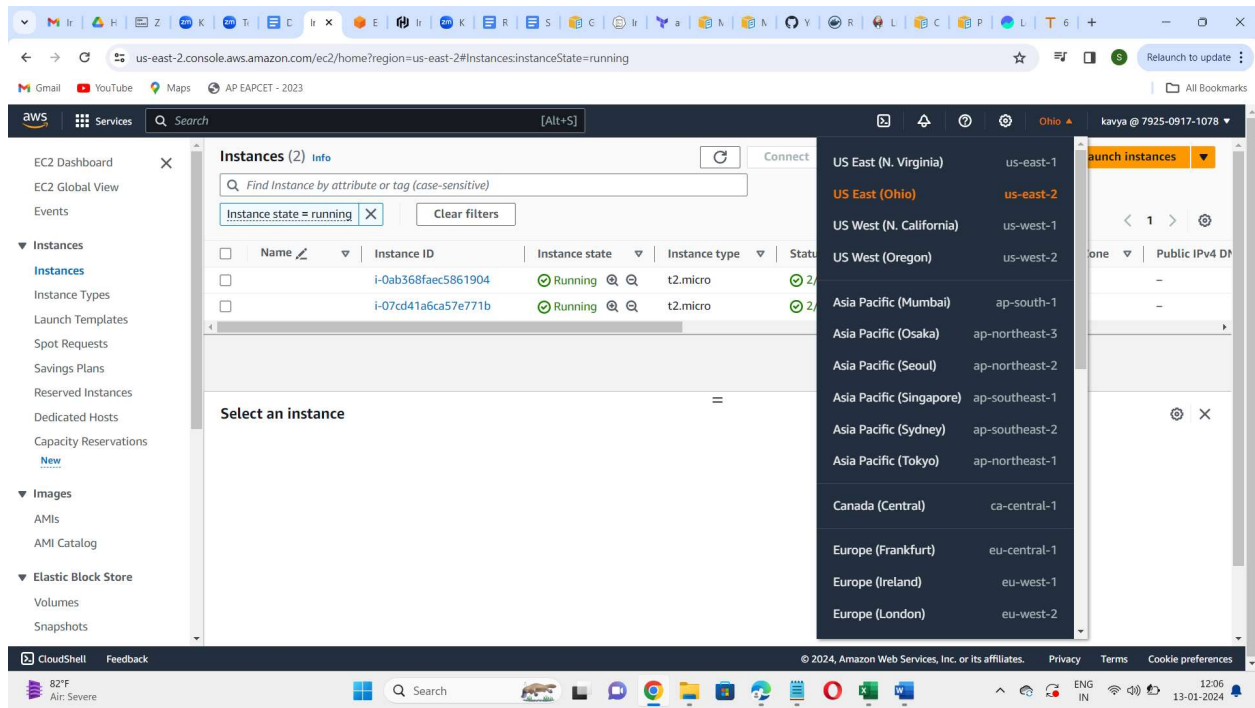
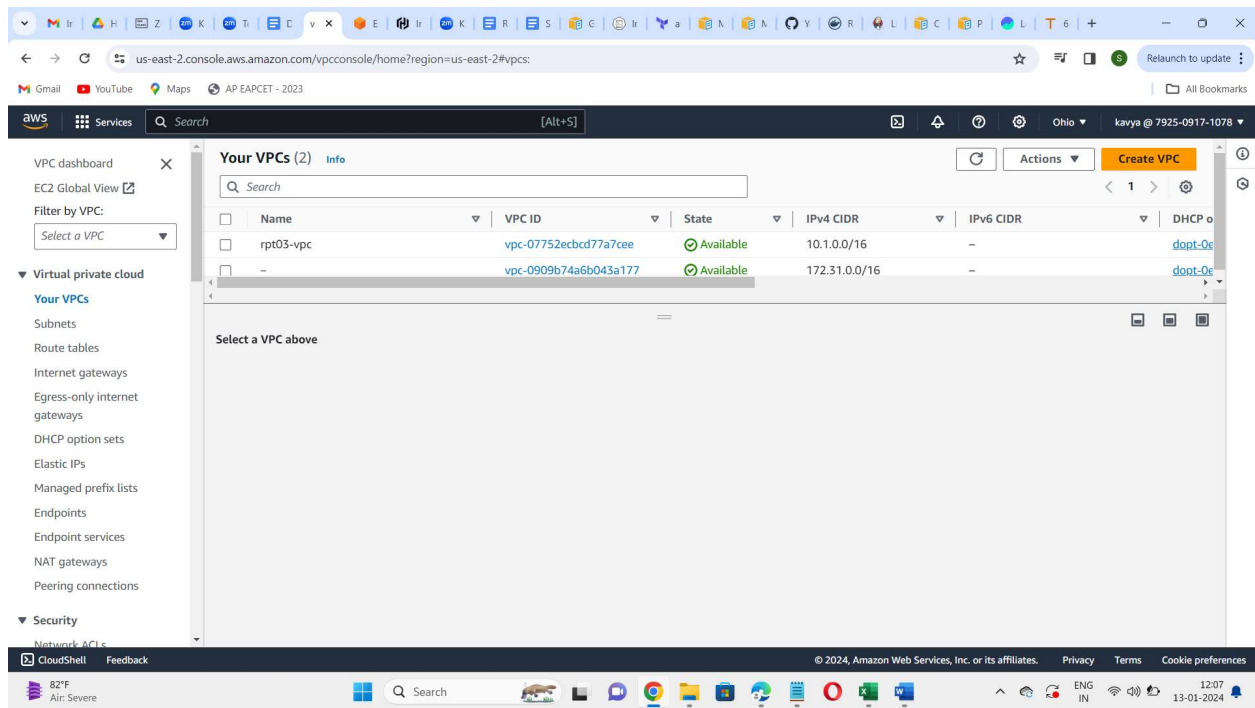


Write Terraform script to create highly available infrastructure in AWS. The infra should have 1 vpc, and 2 instances setup in 2 different subnets

In this zone i have created



The infra should have 1 vpc



us-east-2.console.aws.amazon.com/vpconsole/home?region=us-east-2#vpcs:

aws Services Search [Alt+S]

VPC dashboard  
EC2 Global View  
Filter by VPC: Select a 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  
Network ACLs

Your VPCs (1/2) Info

Search

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP o
<input checked="" type="checkbox"/> rpt03-vpc	vpc-07752ecbcd77a7cee	Available	10.1.0.0/16	-	dopt-0e
<input type="checkbox"/> -	vpc-0909b74a6b043a177	Available	172.31.0.0/16	-	dopt-0e

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VPC Show details  
Your AWS virtual network  
rpt03-vpc

Subnets (3)  
Subnets within this VPC

- us-east-2a  
rtp03-public\_subnet\_01
- us-east-2b  
rtp03-public\_subnet\_02
- us-east-2c  
rtp03-public\_subnet\_03

Route tables (1)  
Route network traffic to resources  
rtb-032eafa5eef1a46dc

Network cc  
Connections to

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### 3 subnets setup in 3 different az

us-east-2.console.aws.amazon.com/vpconsole/home?region=us-east-2#subnets:

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EC2 Global View  
Filter by VPC: Select a VPC

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Security  
Network ACLs

Subnets (6) Info

Find resources by attribute or tag

Name	Subnet ID	State	VPC	IPv4 CIDR
<input type="checkbox"/> -	subnet-00874cfd2a79cc52	Available	vpc-0909b74a6b043a177	172.31.32.0/20
<input type="checkbox"/> rtp03-public_subnet_01	subnet-0ef26db985b686bc0	Available	vpc-07752ecbcd77a7cee   rpt0...	10.1.1.0/24
<input type="checkbox"/> rtp03-public_subnet_03	subnet-06236e99ee3648dea	Available	vpc-07752ecbcd77a7cee   rpt0...	10.1.3.0/24
<input type="checkbox"/> rtp03-public_subnet_02	subnet-03858b4a8a7d29a5c	Available	vpc-07752ecbcd77a7cee   rpt0...	10.1.2.0/24
<input type="checkbox"/> -	subnet-0ae7b3745a057c1ee	Available	vpc-0909b74a6b043a177	172.31.0.0/20
<input type="checkbox"/> -	subnet-021469c1c3f47a212	Available	vpc-0909b74a6b043a177	172.31.16.0/20

Select a subnet

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Network ACLs

Subnets (6)

Info

Find resources by attribute or tag

Actions

Create subnet

v4 CIDR	IPv6 CIDR	Available IPv4 addresses	Availability Zone	Availability Zone ID	Route table
72.31.32.0/20	-	4091	us-east-2c	use2-az3	<a href="#">rtb-0004aac4b6f3</a>
0.1.1.0/24	-	250	us-east-2a	use2-az1	<a href="#">rtb-032eafa5eef1a</a>
0.1.3.0/24	-	251	us-east-2c	use2-az3	<a href="#">rtb-032eafa5eef1a</a>
0.1.2.0/24	-	250	us-east-2b	use2-az2	<a href="#">rtb-032eafa5eef1a</a>
72.31.0.0/20	-	4091	us-east-2a	use2-az1	<a href="#">rtb-0004aac4b6f3</a>
72.31.16.0/20	-	4091	us-east-2b	use2-az2	<a href="#">rtb-0004aac4b6f3</a>

Select a subnet

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Your VPCs (1/2)

Info

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Actions

Create VPC

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP o
<input checked="" type="checkbox"/> rpt03-vpc	vpc-07752ecbcd77a7cee	Available	10.1.0.0/16	-	<a href="#">dopt-0e</a>
<input type="checkbox"/> -	vpc-0909b74a6b043a177	Available	172.31.0.0/16	-	<a href="#">dopt-0e</a>

VPC [Show details](#)

Your AWS virtual network

rpt03-vpc

Subnets (3)

Subnets within this VPC

us-east-2a

rtp03-public\_subnet\_01

us-east-2b

rtp03-public\_subnet\_02

us-east-2c

rtp03-public\_subnet\_03

Route tables (1)

Route network traffic to resources

rtb-032eafa5eef1a46dc

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## 2 instances setup in 2 different subnets

### Instances-1 in first subnet

The screenshot displays the AWS Management Console for the us-east-2 region. The left sidebar shows the navigation menu with categories like EC2 Dashboard, Instances, Images, and Elastic Block Store. The main content area shows a list of EC2 instances with columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 Address. Two instances are listed, both in a 'Running' state. The first instance, i-0ab368faec5861904, is in subnet-0ef26db985b686bc0 (rtp03-public\_subnet\_01) in availability zone us-east-2a. The second instance, i-07cd41a6ca57e771b, is in subnet-07cd41a6ca57e771b (rtp03-public\_subnet\_01) in availability zone us-east-2b. Both instances are t2.micro type and have 2/2 status checks passed. The console also shows details for the first instance, including its public IP address (18.224.68.10), IAM Role, and Subnet ID.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 Address
i-0ab368faec5861904	i-0ab368faec5861904	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a	-
i-07cd41a6ca57e771b	i-07cd41a6ca57e771b	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	-

**Instance: i-0ab368faec5861904**

- Public IP: 18.224.68.10 [Public IP]
- IAM Role: -
- Subnet ID: subnet-0ef26db985b686bc0 (rtp03-public\_subnet\_01)
- Opt-in to AWS Compute Optimizer for recommendations. | Learn more
- Auto Scaling Group name: -

### Instances-2 in second subnet

The screenshot displays the AWS Management Console for the us-east-2 region. The left sidebar shows the navigation menu with categories like EC2 Dashboard, Instances, Images, and Elastic Block Store. The main content area shows a list of EC2 instances with columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 Address. Two instances are listed, both in a 'Running' state. The first instance, i-0ab368faec5861904, is in subnet-0ef26db985b686bc0 (rtp03-public\_subnet\_01) in availability zone us-east-2a. The second instance, i-07cd41a6ca57e771b, is in subnet-07cd41a6ca57e771b (rtp03-public\_subnet\_01) in availability zone us-east-2b. Both instances are t2.micro type and have 2/2 status checks passed. The console also shows details for the first instance, including its public IP address (18.217.220.199), IAM Role, and Subnet ID.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 Address
i-0ab368faec5861904	i-0ab368faec5861904	Running	t2.micro	2/2 checks passed	No alarms	us-east-2a	-
i-07cd41a6ca57e771b	i-07cd41a6ca57e771b	Running	t2.micro	2/2 checks passed	No alarms	us-east-2b	-

**Instance: i-07cd41a6ca57e771b**

- Public IP: 18.217.220.199 [Public IP]
- IAM Role: -
- Subnet ID: subnet-03858b4a8a7d29a5c (rtp03-public\_subnet\_02)
- Opt-in to AWS Compute Optimizer for recommendations. | Learn more
- Auto Scaling Group name: -