CA3:
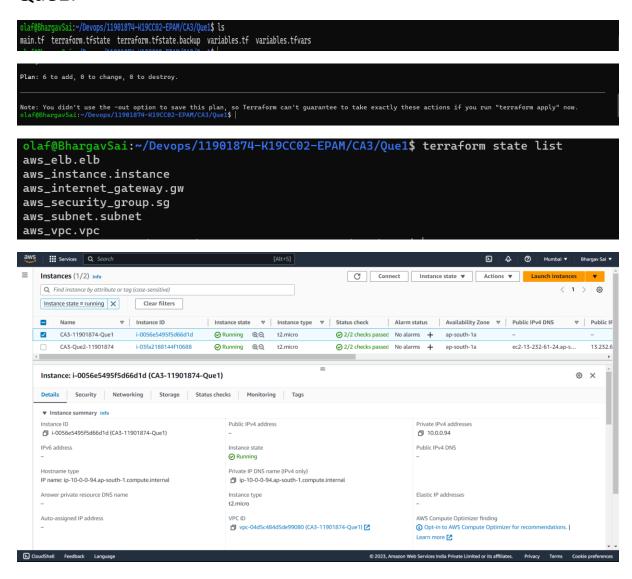
Sai Bhargav Thummalapalli

11901874

Roll no 2

Que1:


```
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3/Que1$ ls
main.tf  terraform.tfstate  terraform.tfstate.backup  variables.tf  variables.tfvars
```



```
Plan: 6 to add, 0 to change, 0 to destroy.

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3/Que1$
```



```
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3/Que1$ terraform state list
aws_elb.elb
aws_instance.instance
aws_internet_gateway.gw
aws_security_group.sg
aws_subnet.subnet
aws_vpc.vpc
```

EC2 | Load balancers | elb

Load balancer: ▎elb

▬▬ ▬▬ ▬▬

| Description | Instances | Health check | Listeners | Monitoring | Tags | Migration |

Connection Draining: Disabled (Edit)

Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-0056e5495f5d66d1d	CA3-11901874-Que1	ap-south-1a	OutOfService ⓘ	Remove from Load Balancer

Edit Availability Zones

Availability Zone	Subnet ID	Subnet CIDR	Instance Count	Healthy?	Actions
ap-south-1a	subnet-03ed1ab802e4115f8	10.0.0.0/24	1	No (Availability Zone contains no healthy targets)	-

---

Internet gateways (1/3) Info   ⟳   Actions ▼   **Create internet gateway**   ⓘ

🔍 Filter internet gateways   ‹ 1 ›   ⚙

☐	Name ▽	Internet gateway ID ▽	State ▽	VPC ID ▽	Owner
☑	CA3-11901874-Que1	igw-010d5dee19185328d	✓ Attached	vpc-04d5c484d5de99080	CA3-1190...	949973980402
☐	igw	igw-0449c5d1ac3b17c42	✓ Attached	vpc-088e32d74a220088d	vpc	949973980402

═══

igw-010d5dee19185328d / CA3-11901874-Que1   ▢ ▢ ▢

| Details | Tags |

Details

Internet gateway ID	State	VPC ID	Owner
🗗 igw-010d5dee19185328d	✓ Attached	vpc-04d5c484d5de99080	CA3-11901874-Que1	🗗 949973980402

Security Groups (1/30) Info

Actions ▼ | Export security groups to CSV ▼ | **Create security group**

🔍 Filter security groups

◁ 1 ▷

	Name	▽	Security group ID	▽	Security group name	▽	VPC ID	▽	Description	▽	Owner
☐	–		sg-05d6068a223281843		launch-wizard-10		vpc-00b8023b9f6758e03		launch-wizard-10 crea...		949973980402
☑	CA3-11901874-Que1		sg-0d0190d76642969cd		sg2023042109495909...		vpc-04d5c484d5de99080		Managed by Terraform		949973980402

sg-0d0190d76642969cd - sg20230421094959091000000001

Details | Inbound rules | Outbound rules | Tags

ⓘ You can now check network connectivity with Reachability Analyzer | **Run Reachability Analyzer** ✕

Details

Security group name	Security group ID	Description	VPC ID
🗗 sg20230421094959091000000001	🗗 sg-0d0190d76642969cd	🗗 Managed by Terraform	🗗 vpc-04d5c484d5de99080

Owner	Inbound rules count	Outbound rules count
🗗 949973980402	1 Permission entry	0 Permission entries

Subnets (1/8) Info

Actions ▼ | **Create subnet**

🔍 Filter subnets

◁ 1 ▷

	Name		Subnet ID		State		VPC		IPv4 CIDR		IPv6 CIDR
☐	RDS-Pvt-subnet-3		subnet-09c38595bafefb6a5		⊘ Available		vpc-00b8023b9f6758e03		172.31.49.0/25		–
☐	–		subnet-042088a40ff9dd91e		⊘ Available		vpc-00b8023b9f6758e03		172.31.0.0/20		–
☐	–		subnet-06a6eaa9f5c844ad5		⊘ Available		vpc-00b8023b9f6758e03		172.31.32.0/20		–

subnet-03ed1ab802e4115f8 / CA3-11901874-Que1

Details | Flow logs | Route table | Network ACL | CIDR reservations | Sharing | Tags

Details

Subnet ID	Subnet ARN	State	IPv4 CIDR
🗗 subnet-03ed1ab802e4115f8	🗗 arn:aws:ec2:ap-south-1:949973980402:subnet/subnet-03ed1ab802e4115f8	⊘ Available	🗗 10.0.0.0/24

Available IPv4 addresses		Availability Zone	Availability Zone ID
🗗 248	IPv6 CIDR	🗗 ap-south-1a	🗗 aps1-az1
	–		

Network border group	VPC	Route table	Network ACL
🗗 ap-south-1	🗗 vpc-04d5c484d5de99080 | CA3-11901874-Que1	rtb-08d99b44fdaa3782d	acl-0c01fc7e5e7b67ad9

Default subnet		Auto-assign IPv6 address	Auto-assign customer-owned IPv4 address
No		No	No

Customer-owned IPv4 pool	Auto-assign public IPv4 address	IPv4 CIDR reservations	

Your VPCs (1/3) Info   ⟳   Actions ▾   **Create VPC**

🔍 Filter VPCs   ‹ 1 ›   ⚙

☑	Name	▽	VPC ID	▽	State	▽	IPv4 CIDR	▽	IPv6 CIDR	▽	D
☑	CA3-11901874-Que1		vpc-04d5c484d5de99080		⊘ Available		10.0.0.0/16		–		d
☐	vpc		vpc-088e32d74a220088d		⊘ Available		10.0.0.0/16		–		d

═

vpc-04d5c484d5de99080 / CA3-11901874-Que1

Details | Resource map New | CIDRs | Flow logs | Tags

Details

VPC ID	State	DNS hostnames	DNS resolution
⧉ vpc-04d5c484d5de99080	⊘ Available	Disabled	Enabled

Tenancy	DHCP option set	Main route table	Main network ACL
Default	dopt-08ea94d91d35f061a	rtb-08d99b44fdaa3782d	acl-0c01fc7e5e7b67ad9

Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR (Network border group)
No	10.0.0.0/16	–	–

Network Address Usage metrics	Route 53 Resolver DNS Firewall rule groups	Owner ID	
Disabled	–	⧉ 949973980402	

Que 2:

```
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM$ mkdir CA3
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM$ cd CA3
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3$ mkdir Que2
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3$ cd Que2
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3/Que2$ nano EC2.yml
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3/Que2$ cat EC2.yml
---
- name: CA 3 Que 2
  hosts: localhost
  connection: local
  gather_facts: no
  tasks:
    - name: Creating EC2 instance with Ansible CA3
      amazon.aws.ec2_instance:
        aws_access_key: AKIA52LW4STZEZOQI7IU
        aws_secret_key: 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
        key_name: id_rsa
        instance_type: t2.micro
        image_id: ami-07d3a50bd29811cd1
        region: ap-south-1
        security_group: default
        name: CA3-Que2-11901874
        wait: true
      register: ec2
olaf@BhargavSai:~/Devops/11901874-K19CC02-EPAM/CA3/Que2$ ansible-playbook EC2.yml
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match 'all'

PLAY [CA 3 Que 2] *******************************************************************************************************

TASK [Creating EC2 instance with Ansible CA3] **************************************************************************
changed: [localhost]

PLAY RECAP **************************************************************************************************************
localhost                  : ok=1    changed=1    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```