

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
```

The screenshot displays the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services' menu, a search bar, and user information for 'Mumbai' and 'Bhargav Sai'. The main content area is titled 'Instances (1/2) Info'. It includes a search bar and a filter set to 'Instance state = running'. Below this is a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
CA3-11901874-Que1	i-0056e5495f5d66d1d	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	-	-
CA3-Que2-11901874	i-03fa2188144f10688	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-232-61-24.ap-s...	13.232.6...

Below the table, the details for 'Instance: i-0056e5495f5d66d1d (CA3-11901874-Que1)' are shown. The 'Details' tab is active, displaying a summary of the instance's configuration:

- Instance ID:** i-0056e5495f5d66d1d (CA3-11901874-Que1)
- IPv6 address:** -
- Instance state:** Running
- Private IP DNS name (IPv4 only):** ip-10-0-0-94.ap-south-1.compute.internal
- Instance type:** t2.micro
- VPC ID:** vpc-04d5c484d5de99080 (CA3-11901874-Que1)
- Public IPv4 address:** -
- Private IPv4 addresses:** 10.0.0.94
- Public IPv4 DNS:** -
- Elastic IP addresses:** -
- AWS Compute Optimizer finding:** Opt-in to AWS Compute Optimizer for recommendations. | Learn more

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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

Filter internet gateways

< 1 > ⚙

<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	CA3-11901874-Que1	igw-010d5dee19185328d	Attached	vpc-04d5c484d5de99080 CA3-1190...	949973980402
<input type="checkbox"/>	igw	igw-0449c5d1ac3b17c42	Attached	vpc-088e32d74a220088d vpc	949973980402

igw-010d5dee19185328d / CA3-11901874-Que1

Details

Tags

Details

Internet gateway ID igw-010d5dee19185328d	State Attached	VPC ID vpc-04d5c484d5de99080 CA3-11901874-Que1	Owner 949973980402
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Security Groups (1/30) Info

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

sg20230421094959091000000001

Security group ID

sg-0d0190d76642969cd

Description

Managed by Terraform

VPC ID

vpc-04d5c484d5de99080

Owner

949973980402

Inbound rules count

1 Permission entry

Outbound rules count

0 Permission entries

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Subnets (1/8) Info

Filter subnets

< 1 >

Name

Subnet ID

State

VPC ID

IP Address Range

Availability Zone

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-03ed1ab802e4115f8

Available IPv4 addresses

248

Network border group

ap-south-1

Default subnet

No

Customer-owned IPv4 pool

Subnet ARN

arn:aws:ec2:ap-south-1:949973980402:subnet/subnet-03ed1ab802e4115f8

IPv6 CIDR

-

VPC

vpc-04d5c484d5de99080 | CA3-11901874-Que1

Auto-assign public IPv4 address

State

Available

Availability Zone

ap-south-1a

Route table

rtb-08d99b44fdaa3782d

Auto-assign IPv6 address

No

IPv4 CIDR reservations

IPv4 CIDR

10.0.0.0/24

Availability Zone ID

aps1-az1

Network ACL

acl-0c01fc7e5e7b67ad9

Auto-assign customer-owned IPv4 address

No

Your VPCs (1/3) [Info](#)

Filter VPCs

< 1 > ⚙

☑

CA3-11901874-Que1

vpc-04d5c484d5de99080

Available

10.0.0.0/16

–

dc

☐

vpc

vpc-088e32d74a220088d

Available

10.0.0.0/16

–

dc

vpc-04d5c484d5de99080 / CA3-11901874-Que1

Details

Resource map New

CIDRs

Flow logs

Tags

Details

VPC ID

vpc-04d5c484d5de99080

Tenancy

Default

Default VPC

No

Network Address Usage metrics

Disabled

State

Available

DHCP option set

dopt-08ea94d91d35f061a

IPv4 CIDR

10.0.0.0/16

Route 53 Resolver DNS Firewall rule groups

–

DNS hostnames

Disabled

Main route table

rtb-08d99b44fdaa3782d

IPv6 pool

–

Owner ID

949973980402

DNS resolution

Enabled

Main network ACL

acl-0c01fc7e5e7b67ad9

IPv6 CIDR (Network border group)

–

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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: AKIA52LW4ST7EZQOI7IU
        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
```

The screenshot displays the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information (Mumbai, Bhargav Sai). Below this, the 'Instances' page is active, showing a list of instances. One instance, 'CA3-Que2-11901874', is selected and its details are shown in the main panel. The instance is in a 'Running' state, using the 't2.micro' instance type. The console also shows various details like the public IP address (13.232.61.24), private IP address (172.31.35.42), and the VPC ID (vpc-00b8023b9f6758e03).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
CA3-Que2-11901874	i-03fa2188144f10688	Running	t2.micro	Initializing	No alarms	ap-south-1a	ec2-13-232-61-24.ap-s...	13.232.61.24

Instance: i-03fa2188144f10688 (CA3-Que2-11901874)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID i-03fa2188144f10688 (CA3-Que2-11901874)	Public IPv4 address 13.232.61.24 open address	Private IPv4 addresses 172.31.35.42
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-13-232-61-24.ap-south-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-35-42.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-35-42.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name -	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 13.232.61.24 [Public IP]	VPC ID vpc-00b8023b9f6758e03	

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