

1.

The screenshot shows the AWS VPC dashboard for 'my-first-vpc' (VPC ID: vpc-0290fd7b533af8ceb). The VPC is in the 'Available' state with a 'Block Public Access' setting of 'Off' and an IPv4 CIDR of '10.0.0/16'. Below the table, a diagram illustrates the network architecture:

- Subnets within this VPC:**
  - us-east-1a:** my-public-subnet-1 (Public), my-private-subnet-1 (Private).
  - us-east-1b:** my-public-subnet-2 (Public), my-private-subnet-2 (Private).
- Route network traffic to resources:** my-private-route-table-1 and my-private-route-table-2.
- Connections to other networks:** my-igw (Internet Gateway) with a note: 'Internet routes to 2 public subnets, 0 private subnets route to the internet'.

2.

The screenshot shows the AWS EC2 console instance summary for 'i-Offc7437f7b8c1f7b' (PUB-LINUX). The instance is in the 'Running' state. Key details include:

- Instance ID:** i-Offc7437f7b8c1f7b
- Public IPv4 address:** 54.209.94.72
- Private IPv4 addresses:** 10.0.1.236
- Public IPv4 DNS:** ec2-54-209-94-72.compute-1.amazonaws.com
- Instance type:** t2.micro
- VPC ID:** vpc-0290fd7b533af8ceb (my-first-vpc)
- Subnet ID:** subnet-09c3b6c3103fff9da (my-public-subnet-1)
- Instance ARN:** arn:aws:ec2:us-east-1:653410615384:instance/i-Offc7437f7b8c1f7b
- IAM Role:** -
- IMDSv2:** Required
- Auto Scaling Group name:** -
- Managed:** false

3.

The screenshot displays the AWS Management Console interface for an EC2 instance. The left sidebar shows the navigation menu with categories like EC2, Images, and Elastic Block Store. The main content area is titled "Instance summary for i-0509ded6a2bc208ea (PRI-LINUX)". It provides a comprehensive overview of the instance's configuration and status.

Property	Value
Instance ID	i-0509ded6a2bc208ea
Public IPv4 address	-
Private IPv4 addresses	10.0.3.51
Instance state	Running
Public IPv4 DNS	-
IPv6 address	-
Private IP DNS name (IPv4 only)	ip-10-0-3-51.ec2.internal
Hostname type	IP name: ip-10-0-3-51.ec2.internal
Instance type	t2.micro
Answer private resource DNS name	-
VPC ID	vpc-0290fd7b533af8ceb (my-first-vpc)
Elastic IP addresses	-
Auto-assigned IP address	-
AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendation s.   Learn more
IAM Role	-
Subnet ID	subnet-084a71c62de06503c (my-private-subnet-1)
Auto Scaling Group name	-
IMDSv2	Required
Instance ARN	arn:aws:ec2:us-east-1:653410615384:instance/i-0509ded6a2bc208ea
Managed	false
Operator	-

4.

The screenshot shows the AWS Management Console's VPC dashboard. The left sidebar lists various VPC resources like Subnets, Route tables, and Internet gateways. The main content area displays "Your VPCs (1/1)" with a table listing the VPCs. Below the table, a "Resource map" provides a visual overview of the VPC's internal structure and connections.

Name	VPC ID	State	Block Public...	IPv4 CIDR	IPv6 CIDR
my-first-vpc	vpc-0290fd7b533af8ceb	Available	Off	10.0.0.0/16	-

**Resource map**

- Subnets (4)**: Subnets within this VPC. Includes **us-east-1a** (my-public-subnet-1, my-private-subnet-1) and **us-east-1b** (my-public-subnet-2, my-private-subnet-2).
- Route tables (3)**: Route network traffic to resources. Includes my-private-route-table-1, rtb-0a7a42a84170918f6, and my-private-route-table-2.
- Network connections (2)**: Connections to other networks. Includes my-igw and my-nat-gateway (Public NAT gateway, 1 ENI with 1 EIP).

5.

The screenshot displays the AWS Management Console interface. On the left, a terminal window titled 'ec2-user@ip-10-0-3-51-' shows the output of a 'ping google.com' command. The output indicates that the ping was successful, with 1078 packets transmitted, 0 received, and 100% packet loss, and a time of 1120073ms. Below the terminal, the 'Security' section is visible, showing 'Network ACLs' and 'Security groups'. On the right, the VPC console shows a list of VPCs with columns for 'State', 'Block Public...', 'IPv4 CIDR', and 'IPv6 CIDR'. The selected VPC is '0fd7b533af8ceb' with a state of 'Available' and an IPv4 CIDR of '10.0.0.0/16'. Below the VPC list, a network diagram is shown, illustrating the VPC's internal structure. The diagram includes three route tables: 'my-private-route-table-1', 'rtb-0a7a42a84170918f6', and 'my-private-route-table-2'. It also shows two network connections: 'my-igw' (Internet Gateway) and 'my-nat-gateway'. The diagram shows how these components are interconnected within the VPC.

```
ec2-user@ip-10-0-3-51-~$ curl -s https://aws.amazon.com/linux/amazon-linux-2023
https://aws.amazon.com/linux/amazon-linux-2023

(ec2-user@ip-10-0-3-51 ~)$ ping google.com
PING google.com (142.251.179.102) 56(84) bytes of data.
--- google.com ping statistics ---
1078 packets transmitted, 0 received, 100% packet loss, time 1120073ms

(ec2-user@ip-10-0-3-51 ~)$ ping google.com
PING google.com (142.251.179.138) 56(84) bytes of data.
64 bytes from pd-in-f138.1e100.net (142.251.179.138): icmp_seq=1 ttl=102 time=3.18 ms
64 bytes from pd-in-f138.1e100.net (142.251.179.138): icmp_seq=2 ttl=102 time=2.24 ms
64 bytes from pd-in-f138.1e100.net (142.251.179.138): icmp_seq=3 ttl=102 time=2.48 ms
64 bytes from pd-in-f138.1e100.net (142.251.179.138): icmp_seq=4 ttl=102 time=2.46 ms
64 bytes from pd-in-f138.1e100.net (142.251.179.138): icmp_seq=5 ttl=102 time=2.77 ms
--- google.com ping statistics ---
```

us-east-1b

- my-public-subnet-2
- my-private-subnet-2

Route tables (3)

- my-private-route-table-1
- rtb-0a7a42a84170918f6
- my-private-route-table-2

Network connections (2)

- my-igw
- my-nat-gateway