



Module 5: Case Study - 1

Problem Statement:

You work for XYZ Corporation and based on the expansion requirements of your corporation you have been asked to create and set up a distinct Amazon VPC for the production and development team. You are expected to perform the following tasks for the respective VPCs.

Production Network:

1. Design and build a 4-tier architecture.
2. Create 5 subnets out of which 4 should be private named app1, app2, dbcache and db and one should be public, named web.
3. Launch instances in all subnets and name them as per the subnet that they have been launched in.
4. Allow dbcache instance and app1 subnet to send internet requests.
5. Manage security groups and NACLs.

Development Network:

1. Design and build 2-tier architecture with two subnets named web and db and launch instances in both subnets and name them as per the subnet names.
2. Make sure only the web subnet can send internet requests.
3. Create peering connection between production network and development network.
4. Setup connection between db subnets of both production network and development network respectively.

The screenshot shows the AWS VPC Details page for a VPC named "vpc-0acb6a46ba4ea482d / Production Network". The page is titled "vpc-0acb6a46ba4ea482d / Production Network". The "Details" tab is selected, showing the following configuration:

| VPC ID | State | DNS hostnames | DNS resolution |
|-------------------------------|--|-----------------------|----------------------------------|
| vpc-0acb6a46ba4ea482d | Available | Disabled | Enabled |
| Tenancy | DHCP option set | Main route table | Main network ACL |
| Default | dopt-0af99f1ec27bc197e | rtb-0c33f55db4c0be9d9 | acl-02fbf992a22b8e2b3 |
| Default VPC | IPv4 CIDR | IPv6 pool | IPv6 CIDR (Network border group) |
| No | 10.0.0.0/24 | - | - |
| Network Address Usage metrics | Route 53 Resolver DNS Firewall rule groups | Owner ID | |
| Disabled | - | 917788167444 | - |

Below the table, there are tabs for "Resource map", "CIDRs", "Flow logs", "Tags", and "Integrations". The "Resource map" tab is active, showing the heading "Resource map".

Dec 18 3:55 PM

Start Course | Intellipaat | Subnets | VPC Manager | subnets | VPC Console | vpcs | VPC Console | InternetGateway | VPC | +

Gmail YouTube Maps GitHub xdhiviyax (Dhiv... Freshers Jobs AWS Console Intellipaat AWS Skill Builder General Immersion IAM

aws Services Search [Alt+S] Actions Create subnet

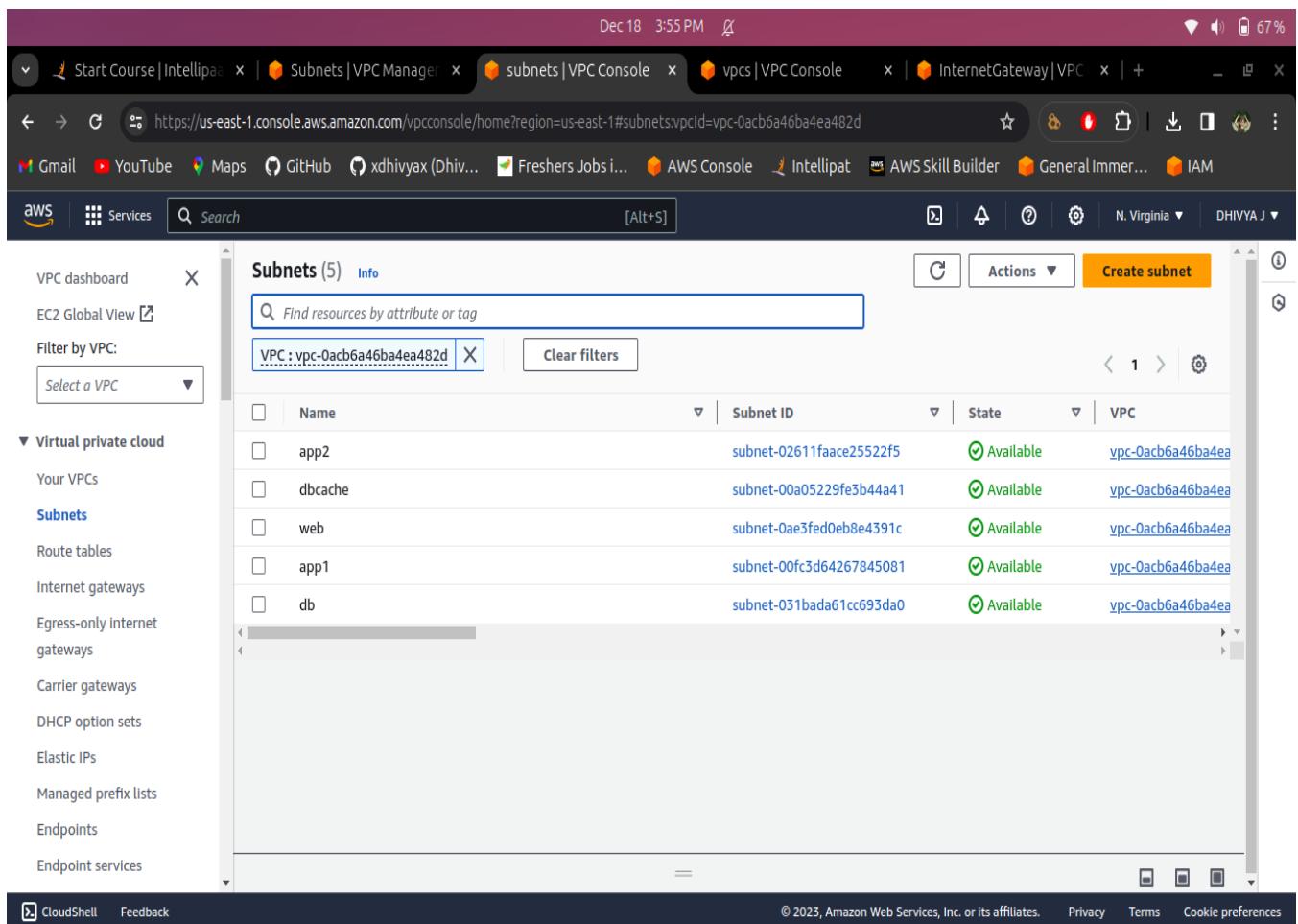
Subnets (5) Info

Find resources by attribute or tag

VPC : vpc-0acb6a46ba4ea482d X Clear filters

| Name | Subnet ID | State | VPC |
|---------|---------------------------|-----------|-------------------|
| app2 | subnet-02611faace2552f5 | Available | vpc-0acb6a46ba4ea |
| dbcache | subnet-00a05229fe3b44aa41 | Available | vpc-0acb6a46ba4ea |
| web | subnet-0ae3fed0eb8e4391c | Available | vpc-0acb6a46ba4ea |
| app1 | subnet-00fc3d64267845081 | Available | vpc-0acb6a46ba4ea |
| db | subnet-031bada61cc693da0 | Available | vpc-0acb6a46ba4ea |

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The screenshot shows the AWS VPC Internet Gateway details page for an Internet gateway with ID `igw-0eadfdfa15fb63744`. The page is titled "igw-0eadfdfa15fb63744 / PN-igw". The left sidebar shows navigation links for Virtual private cloud, Internet gateways, and other VPC components. The main content area displays the Internet gateway's ID, state (Attached), VPC ID, and owner information. A "Tags" section shows a single tag named "Name" with the value "PN-igw".

VPC dashboard X

EC2 Global View

Filter by VPC:

Select a VPC ▾

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only Internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

VPC > Internet_gateways > igw-0eadfdfa15fb63744

igw-0eadfdfa15fb63744 / PN-igw

Actions ▾

Details Info

| | | | |
|--|-------------------|--|-----------------------|
| Internet gateway ID igw-0eadfdfa15fb63744 | State Attached | VPC ID vpc-0acb6a46ba4ea482d Production Network | Owner 917788167444 |
|--|-------------------|--|-----------------------|

Tags

| Key | Value |
|------|--------|
| Name | PN-igw |

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The screenshot shows the AWS VPC Console interface. The top navigation bar includes tabs for Start Course | Intellipaat, SubnetDetails | VPC Con..., vpcs | VPC Console, and InternetGateway | VP... . The main content area displays the subnet details for subnet-0ae3fed0eb8e4391c, which is part of a web VPC. The subnet has an IPv4 CIDR of 10.0.0.64/28 and is available in the us-east-1e availability zone. It is associated with route table rtb-0c33f55db4c0be9d9 and a VPC with ID vpc-0acb6a46ba4ea482d. The subnet is part of the Production Network. There are no IPv6 reservations or outpost IDs.

| Details | | | |
|--------------------------|--|----------------------------|-------------------------------|
| Subnet ID | Subnet ARN | State | IPv4 CIDR |
| subnet-0ae3fed0eb8e4391c | arn:aws:ec2:us-east-1:917788167444:subnet/subnet-0ae3fed0eb8e4391c | Available | 10.0.0.64/28 |
| Available IPv4 addresses | | Availability Zone | Availability Zone ID |
| 11 | | us-east-1e | use1-az3 |
| Network border group | IPv6 CIDR | Route table | Network ACL |
| us-east-1 | - | rtb-0c33f55db4c0be9d9 | acl-02fbf992a22b8e2b3 |
| Default subnet | VPC | Auto-assign IPv6 address | Auto-assign customer-owned |
| No | vpc-0acb6a46ba4ea482d Production Network | No | IPv4 address |
| Customer-owned IPv4 pool | Auto-assign public IPv4 address | IPv4 CIDR reservations | No |
| - | No | - | IPv6 CIDR reservations |
| IPv6-only | Outpost ID | Resource name DNS A record | - |
| No | - | Disabled | Resource name DNS AAAA record |

The screenshot shows the AWS VPC Route Table configuration page. The top navigation bar includes tabs for Instances, SubnetDetails, Start Course, ChatGPT, and others. The main content area displays route table settings for a specific VPC.

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

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

Route table: rtb-0780b2506994c3eb4 / webroutetable

Edit route table association

Routes (2)

Filter routes

| Destination | Target |
|-------------|-----------------------|
| 10.0.0.0/24 | local |
| 0.0.0.0/0 | igw-0eadfdfa15fb63744 |

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The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed, and the main content area displays a table of instances. One instance is listed:

| Name | Instance ID | Instance state | Instance type | Status check |
|------|---------------------|----------------|---------------|--------------|
| app1 | i-00791dd9bd4053add | Running | t2.micro | Initializing |

Below the table, the instance details for "app1" are shown:

- Auto-assigned IP address: -
- VPC ID: [vpc-0acb6a46ba4ea482d \(Production Network\)](#)
- AWS Compute Optimizer finding:
 - [Opt-in to AWS Compute Optimizer for recommendations.](#)
 - [Learn more](#)
- IAM Role: -
- Subnet ID: [subnet-00fc3d64267845081 \(app1\)](#)
- Auto Scaling Group name: -

At the bottom of the page, there are links for CloudShell, Feedback, Copyright notice (© 2023, Amazon Web Services, Inc. or its affiliates.), Privacy, Terms, and Cookie preferences.

The screenshot shows the AWS EC2 Instances page with the following details:

- Instances (1/1) Info**: Shows 1 instance.
- Instance ID**: i-09fab153204e22a97 (app2)
- Instance state**: Running
- Instance type**: t2.micro
- Status check**: Initializing
- Auto-assigned IP address**: -
- VPC ID**: vpc-0acb6a46ba4ea482d (Production Network)
- Subnet ID**: subnet-02611faace25522f5 (app2)
- IAM Role**: -
- IMDSv2**: Required
- AWS Compute Optimizer finding**: Opt-in to AWS Compute Optimizer for recommendations.
- Auto Scaling Group name**: -

The screenshot shows the AWS EC2 Instances page. The URL in the browser is <https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceId=i-06266bd3bf7ea731c>. The instance details are as follows:

| Name | Instance ID | Instance state | Instance type | Status check |
|---------|---------------------|----------------|---------------|--------------|
| dbcache | i-06266bd3bf7ea731c | Running | t2.micro | Initializing |

Below the table, the instance details are expanded:

- Network:** vpc-0acb6a46ba4ea482d (Production Network)
- IAM Role:** -
- Subnet ID:** subnet-00a05229fe3b44a41 (dbcache)
- Opt-in to AWS Compute Optimizer for recommendations.** (with a 'Learn more' link)
- Auto Scaling Group name:** -

On the left sidebar, the 'Instances' section is expanded, showing options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and New. Other sections like Images and Elastic Block Store are also listed.

The screenshot shows the AWS EC2 Instances page with a single instance listed. The instance is named 'db' and has the following details:

| Name | Instance ID | Instance state | Instance type | Status check |
|------|---------------------|----------------|---------------|--------------|
| db | I-03eeda625e9a4fe2e | Running | t2.micro | Initializing |

The instance is associated with a VPC ID (vpc-0acb6a46ba4ea482d) and a Subnet ID (subnet-031bada61cc693da0). The IAM Role is listed as 'Required'. The page also includes a sidebar with navigation links for EC2 services like Dashboard, Global View, Events, and Capacity Reservations.

The screenshot shows the AWS EC2 Instances page. The top navigation bar includes tabs for SubnetDetails, PeeringConnectionDet, Instances, Start Course, ChatGPT, and several browser extensions. The main content area displays the EC2 Instances list with one item:

| Name | Instance ID | Instance state | Instance type | Status check |
|------|---------------------|----------------|---------------|--------------|
| web | i-086f4dd29867ab4c0 | Running | t2.micro | Initializing |

Below the list, the details for the instance i-086f4dd29867ab4c0 (web) are shown:

| | | |
|---------------------------|--|--|
| Auto-assigned IP address | VPC ID | AWS Compute Optimizer finding |
| 54.172.16.112 [Public IP] | vpc-0acb6a46ba4ea482d (Production Network) | Opt-in to AWS Compute Optimizer for recommendations. |
| IAM Role | Subnet ID | Auto Scaling Group name |
| - | subnet-0ae3fed0eb8e4391c (web) | - |
| IMDSv2 | | |
| Required | | |

At the bottom of the page, there are links for CloudShell, Feedback, and legal notices.

The screenshot shows the AWS VPC NAT gateway details page. The URL in the browser is <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#NatGatewayDetails:natGatewayId=nat-09d45cc0a297e7bdb>. The page title is "nat-09d45cc0a297e7bdb / NATgw-Production Network".

Details Tab (Selected):

| NAT gateway ID | Connectivity type | State | State message |
|---|--------------------------------|--|------------------------------|
| nat-09d45cc0a297e7bdb | Public | Available | - |
| NAT gateway ARN | Primary public IPv4 address | Primary private IPv4 address | Primary network interface ID |
| arn:aws:ec2:us-east-1:917788167444:natgateway/nat-09d45cc0a297e7bdb | 44.193.166.55 | 10.0.0.77 | eni-0057c0a342dbf2e8c |
| VPC | Subnet | Created | Deleted |
| vpc-0acb6a46ba4ea482d / Production Network | subnet-0ae3fed0eb8e4391c / web | Monday, December 18, 2023 at 19:54:42 GMT+5:30 | - |

Secondary IPv4 addresses | Monitoring | Tags

Monitoring Tab:

Tags Tab:

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Dec 18 8:24 PM

NatGatewayDetails | VPC x RouteTableDetails | VPC x RouteTableDetails | VPC x Start Course | Intellipaat x ChatGPT x +

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-07554da69691e4dae

Gmail YouTube Maps GitHub xdhivyax (Dhiv... Freshers Jobs i... AWS Console Intellipaat AWS Skill Builder General Immersion IAM

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 Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services NAT gateways Peering connections

VPC > Route tables > rtb-07554da69691e4dae

rtb-07554da69691e4dae / dbcacheroutetable

Actions

| Route table ID | Main | Explicit subnet associations | Edge associations |
|-----------------------|------|------------------------------------|-------------------|
| rtb-07554da69691e4dae | No | subnet-00a05229fe3b44a41 / dbcache | - |

VPC Owner ID 917788167444

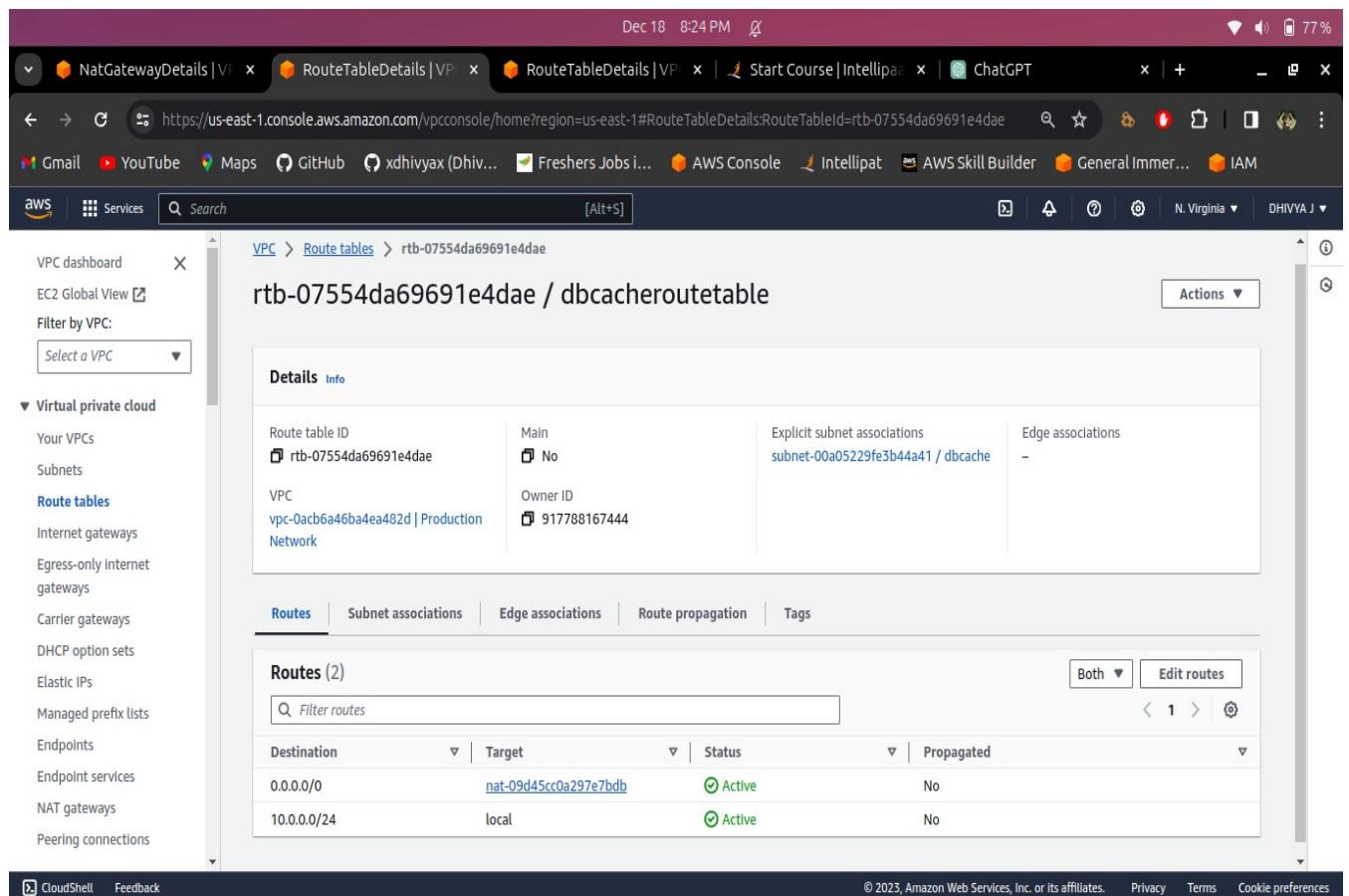
Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

Filter routes Both Edit routes < 1 > ⚙️

| Destination | Target | Status | Propagated |
|-------------|-----------------------|--------|------------|
| 0.0.0.0/0 | nat-09d45cc0a297e7bdb | Active | No |
| 10.0.0.0/24 | local | Active | No |

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The screenshot shows the AWS VPC Route Table Details page. The URL is <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-0a07cff9e218dbb46>. The page displays the following information:

Details

| | | | |
|--|--|---|-------------------|
| Route table ID | Main | Explicit subnet associations | Edge associations |
| rtb-0a07cff9e218dbb46 | <input checked="" type="checkbox"/> No | subnet-00fc5d64267845081 / app1 | - |
| VPC | Owner ID | | |
| vpc-0acb6a46ba4ea482d Production Network | 917788167444 | | |

Routes

| Destination | Target | Status | Propagated |
|-------------|---------------------------------------|---------------------|------------|
| 0.0.0.0/0 | nat-09d45cc0a297e7bdb | Active | No |
| 10.0.0.0/24 | local | Active | No |

The screenshot shows the AWS EC2 Security Groups page. The security group selected is **sg-013d758d88e99d507 - launch-wizard-1**. The details pane shows the following information:

| | | | |
|---------------------|----------------------|--|-----------------------|
| Security group name | Security group ID | Description | VPC ID |
| launch-wizard-1 | sg-013d758d88e99d507 | launch-wizard-1 created 2023-12-18T11:44:13.149Z | vpc-0acb6a46ba4ea482d |
| Owner | Inbound rules count | Outbound rules count | |
| 917788167444 | 1 Permission entry | 1 Permission entry | |

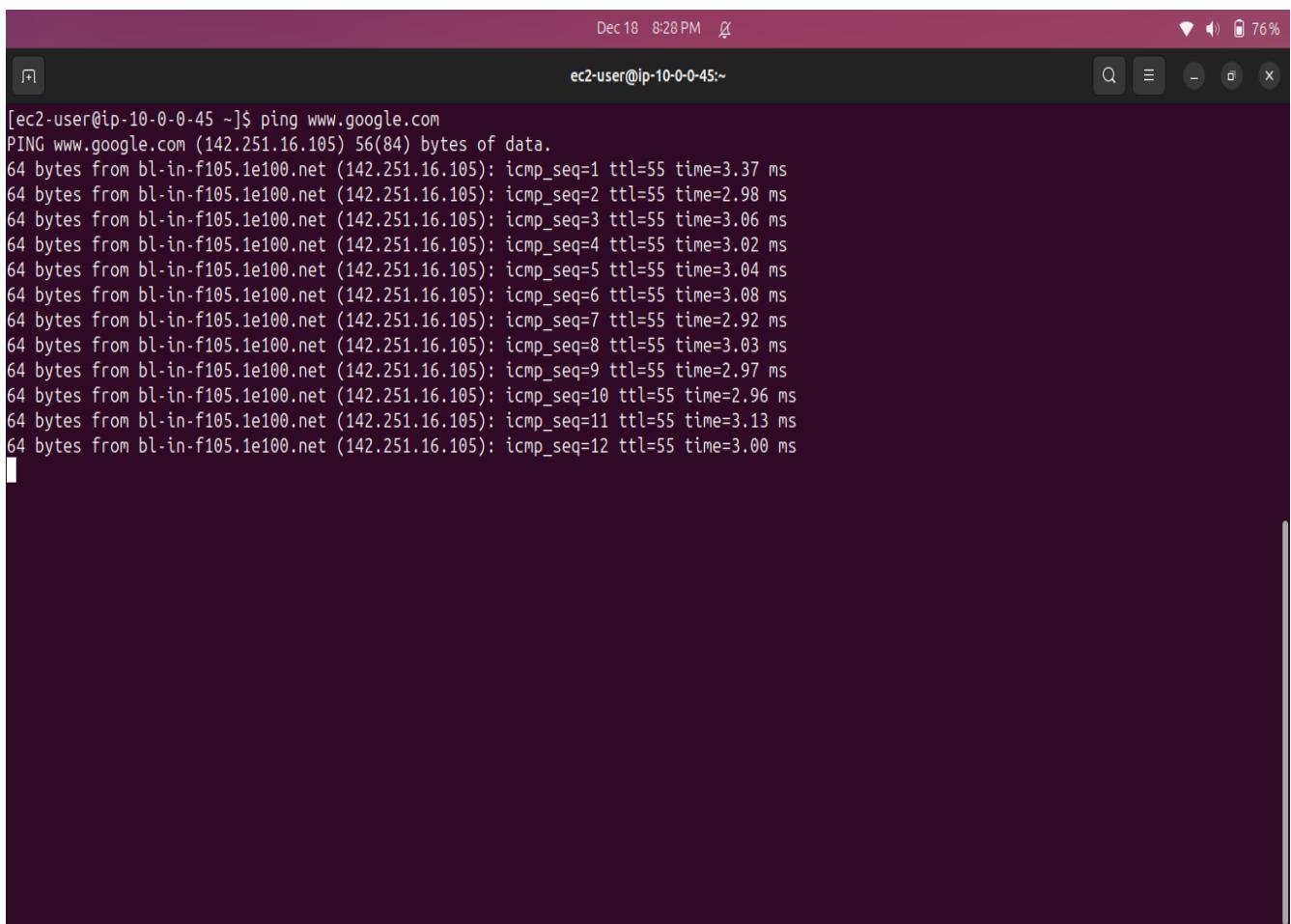
The Inbound rules section displays one rule:

| Name | Security group rule... | IP version | Type | Protocol | Port range | Source |
|------|------------------------|------------|------|----------|------------|-----------|
| - | sgr-0a0ad5e71d625d4... | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 |

At the bottom of the page, there are links for CloudShell, Feedback, and a footer with copyright information.

The screenshot shows the AWS EC2 Instances page with the following details:

- Instances (1/7) Info**: A search bar with placeholder "Find Instance by attribute or tag (case-sensitive)".
- Table Headers**: Name, Instance ID, Instance state, Instance type, Status check.
- Instances List**:
 - app2 (Instance ID: i-09fab153204e22a97, Running, t2.micro, 2/2 checks pass)
 - web (Instance ID: i-041d1350882db8324, Running, t2.micro, 2/2 checks pass)
 - dbcache (Instance ID: i-06266bd3bf7ea731c, Running, t2.micro, 2/2 checks pass)
- Instance: i-06266bd3bf7ea731c (dbcache)**:
 - Details** tab is selected.
 - Instance summary**:
 - Instance ID: i-06266bd3bf7ea731c (dbcache)
 - Public IPv4 address: -
 - Private IP4 addresses: 10.0.0.45
 - Instance state: Running
 - Public IPv4 DNS: -
 - Hostname type: Private IP DNS name (IPv4 only)



Dec 18 8:28 PM

ec2-user@ip-10-0-0-45:~

```
[ec2-user@ip-10-0-0-45 ~]$ ping www.google.com
PING www.google.com (142.251.16.105) 56(84) bytes of data.
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=1 ttl=55 time=3.37 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=2 ttl=55 time=2.98 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=3 ttl=55 time=3.06 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=4 ttl=55 time=3.02 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=5 ttl=55 time=3.04 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=6 ttl=55 time=3.08 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=7 ttl=55 time=2.92 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=8 ttl=55 time=3.03 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=9 ttl=55 time=2.97 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=10 ttl=55 time=2.96 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=11 ttl=55 time=3.13 ms
64 bytes from bl-in-f105.1e100.net (142.251.16.105): icmp_seq=12 ttl=55 time=3.00 ms
```

The screenshot shows the AWS EC2 Instances page. The left sidebar navigation includes:

- EC2 Dashboard
- EC2 Global View
- Events
- Console-to-Code [Preview](#)
- Instances
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations [New](#)
- Images
 - AMIs
 - AMI Catalog

The main content area displays the "Instances (1/7) Info" section. A search bar at the top allows filtering by attribute or tag. Below it is a table listing four instances:

| Name | Instance ID | Instance state | Instance type | Status check |
|--|---------------------|----------------|---------------|-----------------|
| db | i-03c74c970d01c2108 | Running | t2.micro | 2/2 checks pass |
| <input checked="" type="checkbox"/> app1 | i-00791dd9bd4053add | Running | t2.micro | 2/2 checks pass |
| db | i-03eeda625e9a4fe2e | Running | t2.micro | 2/2 checks pass |
| web | i-00791dd9bd4053add | Running | t2.micro | 2/2 checks pass |

Below the table, the details for the selected instance (i-00791dd9bd4053add, app1) are shown. The "Details" tab is active.

Instance summary

| | | |
|---|---------------------------------|-------------------------------------|
| Instance ID i-00791dd9bd4053add (app1) | Public IPv4 address - | Private IPv4 addresses 10.0.0.13 |
| IPv6 address - | Instance state Running | Public IPv4 DNS - |
| Hostname type | Private IP DNS name (IPv4 only) | |

At the bottom of the page, there are links for CloudShell, Feedback, and various legal notices.

```
Dec 18 8:31 PM ✎
ec2-user@ip-10-0-0-13:~
```

~~ V~' '->
~~ / A newer version of Amazon Linux is available!
~~._'_/_/
~/_/_/ Amazon Linux 2023, GA and supported until 2028-03-15.
m// https://aws.amazon.com/linux/amazon-linux-2023/

```
[ec2-user@ip-10-0-0-13 ~]$ ping www.google.com  
PING www.google.com (172.253.63.104) 56(84) bytes of data.  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=1 ttl=102 time=7.07 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=2 ttl=102 time=3.86 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=3 ttl=102 time=11.3 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=4 ttl=102 time=3.91 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=5 ttl=102 time=2.27 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=6 ttl=102 time=2.21 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=7 ttl=102 time=2.27 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=8 ttl=102 time=2.22 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=9 ttl=102 time=2.21 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=10 ttl=102 time=2.28 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=11 ttl=102 time=2.29 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=12 ttl=102 time=2.28 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=13 ttl=102 time=2.28 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=14 ttl=102 time=2.26 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=15 ttl=102 time=2.24 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=16 ttl=102 time=2.20 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=17 ttl=102 time=2.26 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=18 ttl=102 time=2.31 ms  
64 bytes from bi-in-f104.1e100.net (172.253.63.104): icmp_seq=19 ttl=102 time=2.23 ms  
^C  
--- www.google.com ping statistics ---  
19 packets transmitted, 19 received, 0% packet loss, time 18025ms  
rtt min/avg/max/mdev = 2.203/3.159/11.317/2.238 ms  
[ec2-user@ip-10-0-0-13 ~]$
```

The screenshot shows the AWS VPC Details page for a VPC named "vpc-0f170deff60f4c1d6 / Development Network". The page is located at <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#VpcDetails:Vpcid=vpc-0f170deff60f4c1d6>. The left sidebar shows the "Virtual private cloud" section with "Your VPCs" selected. The main content area displays the VPC ID, State (Available), and various network settings. At the bottom, there are tabs for "Resource map", "CIDRs", "Flow logs", "Tags", and "Integrations".

VPC ID: vpc-0f170deff60f4c1d6

State: Available

Tenancy: Default

Default: dopt-0af99f1ec27bc197e

Default VPC: No

IPv4 CIDR: 10.0.1.0/24

IPv6 pool: -

Network Address Usage metrics: Disabled

Route 53 Resolver DNS Firewall rule groups: -

DNS hostnames: Enabled

DNS resolution: Enabled

Main route table: rtb-08558dc30755b7939

Main network ACL: acl-0b8b9358adc0ec3f

IPv6 CIDR (Network border group): -

Owner ID: 917788167444

The screenshot shows the AWS VPC Subnets page. The URL in the browser is <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#subnets:vpcId=vpc-0f170deff60f4c1d6>. The page displays two subnets: 'db' and 'web'. Both subnets are in an 'Available' state and are associated with the VPC 'vpc-0f170deff60f4c1d6'. The 'db' subnet has the ID 'subnet-077c0415b1b28086e' and the 'web' subnet has the ID 'subnet-0ae39e5c7cc75d7f6'. The left sidebar shows other VPC-related options like EC2 Global View, Filter by VPC, and various subnets.

| Name | Subnet ID | State | VPC |
|------|--------------------------|-----------|-----------------------|
| db | subnet-077c0415b1b28086e | Available | vpc-0f170deff60f4c1d6 |
| web | subnet-0ae39e5c7cc75d7f6 | Available | vpc-0f170deff60f4c1d6 |

The screenshot shows the AWS VPC Internet Gateways console page. The top navigation bar includes tabs for Start Course, igws | VPC Console, VpcDetails | VPC, Control traffic to, New Tab, and various browser extensions. The main content area displays the 'Internet gateways (1)' section. A search bar at the top of the list allows filtering by VPC ID. The table lists one internet gateway:

| Name | Internet gateway ID | State | VPC ID |
|--------|-----------------------|----------|-------------------------------------|
| DN-igw | igw-075cb13be1d7c797e | Attached | vpc-0f170deff60f4c1d6 Development |

A message at the bottom of the list says "Select an internet gateway above". The left sidebar provides navigation links for VPC dashboard, EC2 Global View, Filter by VPC (with a dropdown menu), Virtual private cloud (Your VPCs, Subnets, Route tables), Internet gateways (Egress-only internet gateways, Carrier gateways, DHCP option sets, Elastic IPs, Managed prefix lists, Endpoints, Endpoint services), and CloudShell.

The screenshot shows the AWS VPC Subnet Details page. The URL in the browser is <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SubnetDetails:subnetId=subnet-0ae39e5c7cc75d7f6>. The page title is "subnet-0ae39e5c7cc75d7f6 / web".

Details

| Subnet ID | Subnet ARN | State | IPv4 CIDR |
|--------------------------|--|--------------------------------------|---|
| subnet-0ae39e5c7cc75d7f6 | arn:aws:ec2:us-east-1:917788167444:subnet/subnet-0ae39e5c7cc75d7f6 | Available | 10.0.1.0/28 |
| Available IPv4 addresses | 10 | Availability Zone | Availability Zone ID |
| Network border group | - | us-east-1a | use1-az1 |
| Default subnet | vpc-0f170deff60f4c1d6 Development Network | Route table | Network ACL |
| Customer-owned IPv4 pool | No | rtb-02fd516cbe779c97 webroutetable | acl-0b8b9358acdc0ec3f |
| Customer-owned IPv4 pool | - | Auto-assign IPv6 address | Auto-assign customer-owned IPv4 address |
| IPv6-only | No | No | No |
| No | Outpost ID | - | IPv4 CIDR reservations |
| No | - | - | IPv6 CIDR reservations |
| No | - | Resource name DNS A record | Resource name DNS AAAA record |

Actions ▾

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Dec 18 8:46 PM

NatGateway | PeeringConn | vpcs | VPC Co | Connect to in | SubnetDetail | Start Course | ChatGPT | +

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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 Carrier gateways DHCP option sets Elastic IPs Managed prefix lists Endpoints Endpoint services

Route table: rtb-02fd516cbeb779c97 / webroutetable Edit route table association

Routes (2)

| Destination | Target |
|-------------|---------------------------------------|
| 10.0.1.0/24 | local |
| 0.0.0.0/0 | igw-075cb13be1d7c797e |

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The screenshot shows the AWS VPC console interface. At the top, there's a navigation bar with various links like 'NatGateway', 'PeeringConn', 'vpcs', etc. Below it is a browser-like header with the URL 'https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#SubnetDetails:subnetId=subnet-0ae39e5c7cc73d7f6'. The main content area is divided into two main sections: 'Subnet Details' and 'Route table'. The 'Subnet Details' section shows settings for IPv6-only, Outpost ID, Resource name DNS A record, and other parameters. The 'Route table' section shows a table with two routes: one for '10.0.1.0/24' targeting 'local' and another for '0.0.0.0/0' targeting an internet gateway ('igw-075cb13be1d7c797e'). The 'Route table' tab is currently selected.

The screenshot shows the AWS EC2 Instances page. The left sidebar navigation includes: EC2 Dashboard, EC2 Global View, Events, Console-to-Code (Preview), Instances (selected), Instances (sub-menu), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations (New), and Images (AMIs, AMI Catalog). The main content area displays the following details for the instance i-041d1350882db8324:

| Attribute | Value |
|-------------------------------|--|
| Auto-assigned IP address | 44.199.202.109 [Public IP] |
| VPC ID | vpc-0f170deff60f4c1d6 (Development Network) |
| IAM Role | - |
| Subnet ID | subnet-0ae39e5c7cc75d7f6 (web) |
| AWS Compute Optimizer finding | Opt-in to AWS Compute Optimizer for recommendations. |
| Auto Scaling Group name | - |

At the bottom of the page, there are links for CloudShell, Feedback, and a footer with copyright information: © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences.

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar navigation menu includes options like EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main content area displays a table titled "Instances (1/1) Info" with one row. The row details an instance with the following information:

| Name | Instance ID | Instance state | Instance type | Status check |
|------|---------------------|----------------|---------------|--------------|
| db | i-03c74c970d01c2108 | Running | t2.micro | Initializing |

Below the table, a detailed view for the instance i-03c74c970d01c2108 (db) is shown. It lists various configuration details:

- Auto-assigned IP address: -
- VPC ID: vpc-0f170deff60f4c1d6 (Development Network)
- AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations.
- IAM Role: -
- Subnet ID: subnet-077c0415b1b28086e (db)
- Auto Scaling Group name: -
- IMDSv2: Required

At the bottom of the page, there are links for CloudShell, Feedback, and a footer with copyright information: © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences.

The screenshot shows the AWS EC2 Security Group Details page. The URL is https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroup:groupId=sg-0419601648f113eba. The page title is "sg-0419601648f113eba - launch-wizard-2".

Details

| | | | |
|---------------------|----------------------|--|----------------------|
| Security group name | Security group ID | Description | VPC ID |
| launch-wizard-2 | sg-0419601648f113eba | launch-wizard-2 created 2023-12-18T12:00:05.635Z | vpc-0f170def60f4c1d6 |
| Owner | Inbound rules count | Outbound rules count | |
| 917788167444 | 2 Permission entries | 1 Permission entry | |

Inbound rules (2)

| Name | Security group rule... | IP version | Type | Protocol | Port range | Source |
|------|------------------------|------------|-----------------|----------|------------|-----------|
| - | sgr-08d87ee1eafa66b7c | IPv4 | SSH | TCP | 22 | 0.0.0.0/0 |
| - | sgr-0ce48270834f20bfd | IPv4 | All ICMP - IPv4 | ICMP | All | 0.0.0.0/0 |

Actions ▾

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Instances | EC2 | us-east-1 | SubnetDetails | VPC Co... | SecurityGroup | EC2 | us... | Start Course | Intellipaa... | ChatGPT

Gmail YouTube Maps GitHub xdhiyyax (Dhiv... Freshers Jobs i... AWS Console Intellipat AWS Skill Builder General Immer... IAM

aws Services Search [Alt+S]

Instances (1/7) Info

C Connect Instance state Actions Launch Instances

Find Instance by attribute or tag (case-sensitive)

| Name | Instance ID | Instance state | Instance type | Status check | Alarm status |
|---------|---------------------|----------------|---------------|-------------------|--------------|
| web | i-086f4dd29867ab4c0 | Running | t2.micro | 2/2 checks passed | No alarms |
| app2 | i-09fab153204e22a97 | Running | t2.micro | 2/2 checks passed | No alarms |
| web | i-041d1350882db8324 | Running | t2.micro | 2/2 checks passed | No alarms |
| dbcache | i-06266bd3bf7ea731c | Running | t2.micro | 2/2 checks passed | No alarms |

Instance: i-041d1350882db8324 (web)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

| | | |
|--|--|--|
| Instance ID i-041d1350882db8324 (web) | Public IPv4 address 44.199.202.109 [open address] | Private IPv4 addresses 10.0.1.12 |
| IPv6 address - | Instance state Running | Public IPv4 DNS ec2-44-199-202-109.compute-1.amazonaws.com [open address] |

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ec2-user@ip-10-0-1-12:~

ec2-user@ip-10-0-1-12:~

~~~ / A newer version of Amazon Linux is available!  
~~\_. / Amazon Linux 2023, GA and supported until 2028-03-15.  
~/m/ https://aws.amazon.com/linux/amazon-linux-2023/

```
[ec2-user@ip-10-0-1-12 ~]$ ping www.google.com
PING www.google.com (142.251.16.103) 56(84) bytes of data.
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=1 ttl=55 time=2.35 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=2 ttl=55 time=2.50 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=3 ttl=55 time=2.37 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=4 ttl=55 time=2.38 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=5 ttl=55 time=2.40 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=6 ttl=55 time=2.39 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=7 ttl=55 time=2.43 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=8 ttl=55 time=2.43 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=9 ttl=55 time=2.46 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=10 ttl=55 time=2.45 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=11 ttl=55 time=2.46 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=12 ttl=55 time=2.36 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=13 ttl=55 time=2.40 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=14 ttl=55 time=2.47 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=15 ttl=55 time=2.46 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=16 ttl=55 time=2.37 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=17 ttl=55 time=2.40 ms
64 bytes from bl-in-f103.1e100.net (142.251.16.103): icmp_seq=18 ttl=55 time=2.98 ms
^C
--- www.google.com ping statistics ---
18 packets transmitted, 18 received, 0% packet loss, time 17027ms
rtt min/avg/max/ndev = 2.355/2.452/2.980/0.149 ms
[ec2-user@ip-10-0-1-12 ~]$
```

The screenshot shows the AWS VPC Peering connections details page for a specific peering connection. The URL is <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#PeeringConnectionDetails:vpcPeeringConnectionId=pcx-0463040628371e97f>. The page title is "pcx-0463040628371e97f / Peering connection Demo".

**Details**

| Requester owner ID    | Acceptor owner ID                          | VPC Peering connection ARN                                                      |
|-----------------------|--------------------------------------------|---------------------------------------------------------------------------------|
| 917788167444          | 917788167444                               | arn:aws:ec2:us-east-1:917788167444:vpc-peering-connection/pcx-0463040628371e97f |
| Peering connection ID | Requester VPC                              | Acceptor VPC                                                                    |
| pcx-0463040628371e97f | vpc-0acb6a46ba4ea482d / Production Network | vpc-0f170deff60f4c1d6 / Development Network                                     |
| Status                | Requester CIDRs                            | Acceptor CIDRs                                                                  |
| Active                | 10.0.0.0/24                                | 10.0.1.0/24                                                                     |
| Expiration time       | Requester Region                           | Acceptor Region                                                                 |
| -                     | N. Virginia (us-east-1)                    | N. Virginia (us-east-1)                                                         |

Below the table, there are tabs for "ClassicLink", "DNS", "Route tables", and "Tags".

The screenshot shows the AWS VPC Route Table Details page. The URL in the browser is <https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-04f7ee549e8e7525f>. The page displays the details of a route table named **rtb-04f7ee549e8e7525f / dbrountable**. The **Details** tab is selected, showing the following information:

|                                                               |                                            |          |              |
|---------------------------------------------------------------|--------------------------------------------|----------|--------------|
| Route table ID                                                | rtb-04f7ee549e8e7525f                      | Main     | No           |
| VPC                                                           | vpc-0acb6a46ba4ea482d   Production Network | Owner ID | 917788167444 |
| Explicit subnet associations<br>subnet-031bada61cc693da0 / db |                                            |          |              |
| Edge associations -                                           |                                            |          |              |

The **Routes** tab is selected, showing two routes:

| Destination   | Target                | Status | Propagated |
|---------------|-----------------------|--------|------------|
| 10.0.0.0/24   | local                 | Active | No         |
| 10.0.1.128/28 | pcx-0463040628371e97f | Active | No         |

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Instances | EC2 | us-east-1 | RouteTableDetails | VPC | Start Course | Intellipaat | ChatGPT

https://us-east-1.console.aws.amazon.com/vpcconsole/home?region=us-east-1#RouteTableDetails:RouteTableId=rtb-00c599a32f8cdeefb

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aws Services Search [Alt+S]

VPC dashboard X

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

Subnets

**Route tables**

Internet gateways

Egress-only Internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

VPC > Route tables > rtb-00c599a32f8cdeefb / db routetable Actions

**Details** Info

|                                             |              |                               |                   |
|---------------------------------------------|--------------|-------------------------------|-------------------|
| Route table ID                              | Main         | Explicit subnet associations  | Edge associations |
| rtb-00c599a32f8cdeefb                       | No           | subnet-077c0415b1b28086e / db | -                 |
| VPC                                         | Owner ID     |                               |                   |
| vpn-0f170deff60f4c1d6   Development Network | 917788167444 |                               |                   |

**Routes** Subnet associations Edge associations Route propagation Tags

**Routes (2)**

| Destination  | Target                | Status | Propagated |
|--------------|-----------------------|--------|------------|
| 10.0.0.48/28 | pxo-0463040628371e97f | Active | No         |
| 10.0.1.0/24  | local                 | Active | No         |

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The screenshot shows the AWS EC2 Instances page. The left sidebar navigation includes: EC2 Dashboard, EC2 Global View, Events, Console-to-Code Preview, Instances (selected), Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations New, Images (AMIs, AMI Catalog), and Elastic Block Store.

The main content area displays a table of instances:

| Name | Instance ID          | Instance state | Instance type | Status check      | Alarm status |
|------|----------------------|----------------|---------------|-------------------|--------------|
| db   | i-03c74c970d01c2108  | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| app1 | i-00791dd9bd4053add  | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| db   | i-03eeda625e9a4fe2e  | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| web  | i-086f4dd29867ab4c0  | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| app2 | i-09fab153204e22a97  | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| web  | i-041d1350882dfb8324 | Running        | t2.micro      | 2/2 checks passed | No alarms    |

Below the table, the details for instance **i-03c74c970d01c2108 (db)** are shown:

**Details** tab selected. Other tabs include Security, Networking, Storage, Status checks, Monitoring, and Tags.

**Instance summary** section:

|                                         |                                 |                                      |
|-----------------------------------------|---------------------------------|--------------------------------------|
| Instance ID<br>i-03c74c970d01c2108 (db) | Public IPv4 address<br>-        | Private IPv4 addresses<br>10.0.1.132 |
| IPv6 address<br>-                       | Instance state<br>Running       | Public IPv4 DNS<br>-                 |
| Hostname type                           | Private IP DNS name (IPv4 only) |                                      |

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Instances | EC2 | us-east SubnetDetails | VPC Co SecurityGroup | EC2 | us Start Course | Intellipaa ChatGPT

Gmail YouTube Maps GitHub xdhivyax (Dhiv... Freshers Jobs i... AWS Console Intellipat AWS Skill Builder General Immer... IAM

aws Services Search [Alt+S]

Instances (1/7) Info

Find Instance by attribute or tag (case-sensitive)

| Name | Instance ID         | Instance state | Instance type | Status check      | Alarm status |
|------|---------------------|----------------|---------------|-------------------|--------------|
| db   | i-03c74c970d01c2108 | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| app1 | i-00791dd9bd4053add | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| db   | i-03eeda625e9a4fe2e | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| web  | i-086f4dd29867ab4c0 | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| app2 | i-09fab153204e22a97 | Running        | t2.micro      | 2/2 checks passed | No alarms    |
| wsh  | i-041d1350887dhR324 | Running        | t2.micro      | 2/2 checks passed | No alarms    |

Instance: i-03eeda625e9a4fe2e (db)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary

|                                         |                                 |                                     |
|-----------------------------------------|---------------------------------|-------------------------------------|
| Instance ID<br>i-03eeda625e9a4fe2e (db) | Public IPv4 address<br>-        | Private IPv4 addresses<br>10.0.0.52 |
| IPv6 address<br>-                       | Instance state<br>Running       | Public IPv4 DNS<br>-                |
| Hostname type                           | Private IP DNS name (IPv4 only) |                                     |

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## Inbound rules (2)

[Manage tags](#)[Edit inbound rules](#) Search[<> 1 <](#)

| <input type="checkbox"/> | Name | Security group rule... | IP version | Type            | Protocol | Port range | Source    |
|--------------------------|------|------------------------|------------|-----------------|----------|------------|-----------|
| <input type="checkbox"/> | -    | sgr-037ea6b63597eed... | IPv4       | All ICMP - IPv4 | ICMP     | All        | 0.0.0.0/0 |
| <input type="checkbox"/> | -    | sgr-049108271fe1f8e46  | IPv4       | SSH             | TCP      | 22         | 0.0.0.0/0 |

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ec2-user@ip-10-0-0-52:~

```
~ V~' '->
~~ / A newer version of Amazon Linux is available!
~~._._/
~/~/ Amazon Linux 2023, GA and supported until 2028-03-15.
~/m/ https://aws.amazon.com/linux/amazon-linux-2023/
```

```
[ec2-user@ip-10-0-0-52 ~]$ ls
[ec2-user@ip-10-0-0-52 ~]$ ping 10.0.1.132
PING 10.0.1.132 (10.0.1.132) 56(84) bytes of data.
64 bytes from 10.0.1.132: icmp_seq=1 ttl=255 time=0.937 ms
64 bytes from 10.0.1.132: icmp_seq=2 ttl=255 time=1.00 ms
64 bytes from 10.0.1.132: icmp_seq=3 ttl=255 time=0.922 ms
64 bytes from 10.0.1.132: icmp_seq=4 ttl=255 time=0.969 ms
64 bytes from 10.0.1.132: icmp_seq=5 ttl=255 time=0.921 ms
64 bytes from 10.0.1.132: icmp_seq=6 ttl=255 time=0.921 ms
64 bytes from 10.0.1.132: icmp_seq=7 ttl=255 time=1.00 ms
64 bytes from 10.0.1.132: icmp_seq=8 ttl=255 time=0.929 ms
64 bytes from 10.0.1.132: icmp_seq=9 ttl=255 time=0.912 ms
64 bytes from 10.0.1.132: icmp_seq=10 ttl=255 time=0.927 ms
64 bytes from 10.0.1.132: icmp_seq=11 ttl=255 time=0.933 ms
64 bytes from 10.0.1.132: icmp_seq=12 ttl=255 time=0.946 ms
64 bytes from 10.0.1.132: icmp_seq=13 ttl=255 time=0.962 ms
64 bytes from 10.0.1.132: icmp_seq=14 ttl=255 time=0.926 ms
64 bytes from 10.0.1.132: icmp_seq=15 ttl=255 time=0.963 ms
64 bytes from 10.0.1.132: icmp_seq=16 ttl=255 time=1.00 ms
64 bytes from 10.0.1.132: icmp_seq=17 ttl=255 time=1.01 ms
64 bytes from 10.0.1.132: icmp_seq=18 ttl=255 time=0.930 ms
^C
--- 10.0.1.132 ping statistics ---
18 packets transmitted, 18 received, 0% packet loss, time 17019ms
rtt min/avg/max/mdev = 0.912/0.950/1.010/0.051 ms
[ec2-user@ip-10-0-0-52 ~]$
```