

LAB | AWS Networking & Virtual Private Cloud

VPC :

The screenshot displays the AWS Management Console interface for a VPC. The left sidebar shows the 'VPC dashboard' with a search bar and a list of VPCs. The main content area shows the details for the VPC 'vpc-0e2a38b53d5dd9470 / prod-vpc-vijaya'. The details are organized into a grid with the following sections:

- Details**
 - VPC ID: vpc-0e2a38b53d5dd9470
 - State: Available
 - Block Public Access: Off
 - DNS hostnames: Disabled
 - DNS resolution: Enabled
 - Tenancy: default
 - DHCP option set: dopt-08c50754b344c373f
 - Main network ACL: acl-0e322d022b3a8694a
 - Default VPC: No
 - IPv4 CIDR: 10.0.0.0/16
 - Route 53 Resolver DNS Firewall rule groups: -
 - Encryption control ID: -
 - Encryption control mode: -
- Resource map**
- CIDRs** (selected tab)
 - Address family: IPv4
 - CIDR: 10.0.0.0/16
 - Status: Associated

Public Subnet:

The screenshot displays the AWS Management Console interface for a Public Subnet. The left sidebar shows the 'VPC dashboard' with a search bar and a list of subnets. The main content area shows the details for the subnet 'subnet-00e3f83881a97f655 / public-subnet-vijaya'. The details are organized into a grid with the following sections:

- Details**
 - Subnet ID: subnet-00e3f83881a97f655
 - Subnet ARN: arn:aws:ec2:eu-west-1:686699774218:subnet/subnet-00e3f83881a97f655
 - State: Available
 - Block Public Access: Off
 - IPv4 CIDR: 10.0.1.0/24
 - Available IPv4 addresses: 250
 - Route table: rtb-0a1ea6e384bb90b4d | prod-public-route-table-vijaya
 - IPv6 CIDR: -
 - Network ACL: acl-0e322d022b3a8694a
 - Availability Zone: euw1-a22 (eu-west-1a)
 - VPC: vpc-0e2a38b53d5dd9470 | prod-vpc-vijaya
 - Default subnet: No
 - Auto-assign public IPv4 address: No
 - Auto-assign IPv6 address: No
 - Customer-owned IPv4 pool: -
 - Outpost ID: -
 - IPv6-only: No
 - Hostname type: IP name
 - DNS64: Disabled
 - Owner: 686699774218
 - Resource name DNS AAAA record: Disabled
- Route table** (selected tab)
 - Route table: rtb-0a1ea6e384bb90b4d / prod-public-route-table-vijaya
 - Routes (2)

Private Subnet:

aws [Search] [Alt+S] Ask Amazon Q Europe (Ireland) Ironhack AWS for Education (6866-9977-4218) vijayagapla

VPC > Subnets > subnet-047de1396724d26a0

VPC dashboard

AWS Global View [Filter by VPC](#)

- Virtual private cloud
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 - Peering connections
 - Route servers
- Security
 - Network ACLs
 - Security groups
- PrivateLink and Lattice

subnet-047de1396724d26a0 / private-subnet-vijaya

Actions

Details

Subnet ID
subnet-047de1396724d26a0

IPv4 CIDR
10.0.2.0/24

Availability Zone
euw1-az2 (eu-west-1a)

Default subnet
No

Customer-owned IPv4 pool
-

IPv6-only
No

DNS64
Disabled

Subnet ARN
arn:aws:ec2:eu-west-1:686699774218:subnet/subnet-047de1396724d26a0

Available IPv4 addresses
250

VPC
vpc-0e2a38b53d5dd9470 | prod-vpc-vijaya

Auto-assign public IPv4 address
No

Outpost ID
-

Hostname type
IP name

Owner
686699774218

State
Available

IPv6 CIDR
-

Route table
rtb-0abf68a2583a1d26a | prod-private-route-table-vijaya

Auto-assign IPv6 address
No

IPv4 CIDR reservations
-

Resource name DNS A record
Disabled

Block Public Access
Off

IPv6 CIDR association ID
-

Network ACL
acl-0e322d022b3a8694a

Auto-assign customer-owned IPv4 address
No

IPv6 CIDR reservations
-

Resource name DNS AAAA record
Disabled

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

Route table: rtb-0abf68a2583a1d26a / prod-private-route-table-vijaya [Edit route table association](#)

Routes (2)

Internet Gateway:

aws [Search] [Alt+S] Europe (Ireland) Ironhack AWS for Education (6866-9977-4218) vijayagapla

VPC > Internet gateways > igw-0cb723a7c0912f477

VPC dashboard

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- Security
 - Network ACLs

igw-0cb723a7c0912f477 / prod-igw-vijaya

Actions

Details [info](#)

Internet gateway ID
igw-0cb723a7c0912f477

State
Attached

VPC ID
vpc-0e2a38b53d5dd9470 | prod-vpc-vijaya

Owner
686699774218

Tags (1) [Manage tags](#)

[Search tags](#)

Key	Value
Name	prod-igw-vijaya

NAT Gateway:

eu-west-1.console.aws.amazon.com/vpconsole/home?region=eu-west-1#NatGatewayDetails:natGatewayId=nat-127263241e9fe557b

Letter/in - ITIT-Proje... GitHub Flow Git » A successful Git bra... PMP Practice Exam... GitHub - danielboh... e Catalina(Tomcat) Cu... Apache Tomcat Har... redirect - Tomcat is...

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VPC > NAT gateways > nat-127263241e9fe557b

VPC dashboard

AWS Global View

Filter by VPC

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- Peering connections
- Route servers

▼ Security

- Network ACLs

nat-127263241e9fe557b / prod-ngw-vijaya

Actions

Details

NAT gateway ID
nat-127263241e9fe557b

NAT gateway ARN
arn:aws:ec2:eu-west-1:686699774218:natgateway/nat-127263241e9fe557b

VPC
vpc-0e2a38b53d5dd9470 / prod-vpc-vijaya

Availability mode
Regional

Connectivity type
Public

Method of EIP allocation
Manual

State
Available

Created
Wednesday, January 21, 2026 at 17:41:37 GMT+1

State message
-

Deleted
-

IP addresses | Monitoring | Flow logs | Tags

Associated IP addresses (1)

Search

IP address	Status	Availability Zone	Allocation ID
52.215.14.143	Succeeded	euw1-az2 (eu-west-1a)	eipalloc-0bf9945b850aea216

Edit IP address associations

Public Route Table :

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VPC > Route tables > rtb-0a1ea6e384bb90b4d

VPC dashboard

AWS Global View

Filter by VPC

▼ Virtual private cloud

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- NAT gateways
- Peering connections
- Route servers

▼ Security

- Network ACLs

rtb-0a1ea6e384bb90b4d / prod-public-route-table-vijaya

Actions

Details

Route table ID
rtb-0a1ea6e384bb90b4d

VPC
vpc-0e2a38b53d5dd9470 / prod-vpc-vijaya

Main
No

Owner ID
686699774218

Explicit subnet associations
subnet-00e3f83881a97f655 / public-subnet-vijaya

Edge associations
-

Routes | Subnet associations | Edge associations | Route propagation | Tags

Routes (2)

Filter routes

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	igw-0cb723a7c0912f477	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

Both Edit routes

Private Route Table:

eu-west-1.console.aws.amazon.com/vpconsole/home?region=eu-west-1#RouteTableDetails:RouteTableId=rtb-0abf68a2583a1d26a

VPC > Route tables > rtb-0abf68a2583a1d26a

VPC dashboard

AWS Global View

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 - Peering connections
 - Route servers
- Security
 - Network ACLs

rtb-0abf68a2583a1d26a / prod-private-route-table-vijaya

Actions

Details info

Route table ID
rtb-0abf68a2583a1d26a

VPC
vpc-0e2a38b53d5dd9470 | prod-vpc-vijaya

Main
No

Owner ID
686699774218

Explicit subnet associations
subnet-047de1396724d26a0 / private-subnet-vijaya

Edge associations
-

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both Edit routes

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	nat-127263241e9fe557b	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

Instances :

EC2 > Instances > i-00b4e1f83eb85c545

EC2

Dashboard

AWS Global View

Events

- Instances
 - Instances
 - Instance Types
 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts
 - Capacity Reservations
 - Capacity Manager
- Images
 - AMIs
 - AMI Catalog
- Elastic Block Store
 - Volumes
 - Snapshots
 - Lifecycle Manager

Instance summary for i-00b4e1f83eb85c545 (prod-public-instance-vijaya)

Updated less than a minute ago

Instance ID
i-00b4e1f83eb85c545

IPv6 address
-

Hostname type
IP name: ip-10-0-1-210.eu-west-1.compute.internal

Answer private resource DNS name
-

Auto-assigned IP address
63.32.109.136 [Public IP]

IAM role
-

IMDSv2
Required

Operator
-

Public IPv4 address
63.32.109.136 | open address

Instance state
Running

Private IP DNS name (IPv4 only)
ip-10-0-1-210.eu-west-1.compute.internal

Instance type
t2.micro

VPC ID
vpc-0e2a38b53d5dd9470 (prod-vpc-vijaya)

Subnet ID
subnet-00e3f83881a97f655 (public-subnet-vijaya)

Instance ARN
arn:aws:ec2:eu-west-1:686699774218:instance/i-00b4e1f83eb85c545

Private IPv4 addresses
10.0.1.210

Public DNS
-

Elastic IP addresses
-

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name
-

Managed
false

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary for i-0594d356ef7114364 (prod-private-instance-vijaya) Info

Updated less than a minute ago

Instance ID i-0594d356ef7114364 IPV6 address - Hostname type IP name: ip-10-0-2-69.eu-west-1.compute.internal Answer private resource DNS name - Auto-assigned IP address - IAM role - IMDSv2 Required Operator -	Public IPv4 address - Instance state Running Private IP DNS name (IPv4 only) ip-10-0-2-69.eu-west-1.compute.internal Instance type t2.micro VPC ID vpc-0e2a38b5d35dd9470 (prod-vpc-vijaya) Subnet ID subnet-047de1396724d26a0 (private-subnet-vijaya) Instance ARN arn:aws:ec2:eu-west-1:686699774218:instance/i-0594d356ef7114364	Private IPv4 addresses 10.0.2.69 Public DNS - Elastic IP addresses - AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more Auto Scaling Group name - Managed false
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Details Status and alarms Monitoring **Security** Networking Storage Tags

