

LAB | AWS VPC Peering

VPCs

The screenshot shows the AWS VPC Details page for the main-vpc named "main-vpc -vijaya". The main section displays various configuration details such as VPC ID, State, Block Public Access, and DNS hostnames. Below this, there are tabs for Resource map, CIDRs, Flow logs, Tags, and Integrations. A separate section titled "IPv4 CIDRs" lists the IPv4 CIDR range 10.0.0.0/16 as associated.

| Details | |
|---|---|
| VPC ID vpc-0804eb9829107a43e | State Available |
| DNS resolution Enabled | Tenancy default |
| Main network ACL acl-086c03adfd2035e1 | Default VPC No |
| IPv6 CIDR (Network border group) - | Network Address Usage metrics Disabled |
| Encryption control ID - | Encryption control mode - |
| Block Public Access Off | |
| DHCP option set dopt-0d5b6b21a0df85bf4 | |
| IPv4 CIDR 10.0.0.0/16 | |
| Route 53 Resolver DNS Firewall rule groups - | |
| DNS hostnames Disabled | |
| Main route table rtb-0b15446d8446b8b58 | |
| IPv6 pool - | |
| Owner ID 686699774218 | |

IPv4 CIDRs

| Address family | CIDR | Status |
|----------------|-------------|------------|
| IPv4 | 10.0.0.0/16 | Associated |

The screenshot shows the AWS VPC Details page for the sub-vpc named "sub-vpc-vijaya". The configuration is identical to the main-vpc, including the same VPC ID, state, and network settings. The "IPv4 CIDRs" section shows the IPv4 CIDR range 10.11.0.0/16 as associated.

| Details | |
|---|---|
| VPC ID vpc-0121b269781c0675a | State Available |
| DNS resolution Enabled | Tenancy default |
| Main network ACL acl-05efce26d5fe7e948 | Default VPC No |
| IPv6 CIDR - | Network Address Usage metrics Disabled |
| Encryption control ID - | Encryption control mode - |
| Block Public Access Off | |
| DHCP option set dopt-0dca8f808f2549bd7 | |
| IPv4 CIDR 10.11.0.0/16 | |
| Route 53 Resolver DNS Firewall rule groups - | |
| DNS hostnames Disabled | |
| Main route table rtb-0aefee39019304157 | |
| IPv6 pool - | |
| Owner ID 686699774218 | |

IPv4 CIDRs

| Address family | CIDR | Status |
|----------------|--------------|------------|
| IPv4 | 10.11.0.0/16 | Associated |

Subnets

VPC > Subnets > subnet-01330dbb5c3074e56

subnet-01330dbb5c3074e56 / public-a-vijaya

| Details | | Actions | |
|--|--|--------------------------|--|
| Subnet ID | arn:aws:ec2:us-east-1:686699774218:subnet/subnet-01330dbb5c3074e56 | State | Available |
| IPv4 CIDR | 10.0.1.0/24 | IPv6 CIDR | - |
| Availability Zone | use1-az5 (us-east-1f) | Network border group | vpc-0804eb9829107a43e main-vpc -vijaya |
| Network ACL | acl-086c03adff6d2035e1 | Default subnet | No |
| Auto-assign customer-owned IPv4 address | No | Customer-owned IPv4 pool | - |
| IPv6 CIDR reservations | - | IPv6-only | No |
| Resource name DNS AAAA record | DNS64 | Hostname type | IP name |
| | Disabled | Owner | 686699774218 |
| Flow logs Route table Network ACL CIDR reservations Sharing Tags | | | |

VPC > Subnets > subnet-0b832bbc6bcd5f8c9

subnet-0b832bbc6bcd5f8c9 / private-b-vijaya

| Details | | Actions | |
|--|--|---------------------------------|---|
| Subnet ID | arn:aws:ec2:us-west-1:686699774218:subnet/subnet-0b832bbc6bcd5f8c9 | State | Available |
| IPv4 CIDR | 10.11.1.0/24 | IPv6 CIDR | - |
| Availability Zone | usw1-az3 (us-west-1c) | Route table | rtb-09ff83ad229e5b505 rt-private-b-vijaya |
| Default subnet | No | Auto-assign public IPv4 address | No |
| Customer-owned IPv4 pool | - | Outpost ID | - |
| IPv6-only | No | Hostname type | IP name |
| DNS64 | Disabled | Owner | 686699774218 |
| Flow logs Route table Network ACL CIDR reservations Sharing Tags | | | |

Route Tables

VPC > Route tables > rtb-034c91c4d98c50669

rtb-034c91c4d98c50669 / rt-public-a-vijaya

| Details | | Actions | | | |
|---|--|---------------------|-----------------|--------------------|--|
| Route table ID | rtb-034c91c4d98c50669 | Main | No | | |
| VPC | vpc-0804eb9829107a43e main-vpc -vijaya | Owner ID | 686699774218 | | |
| Explicit subnet associations subnet-01330dbb5c3074e56 / public-a-vijaya | | | | | |
| Edge associations - | | | | | |
| Routes Subnet associations Edge associations Route propagation Tags | | | | | |
| Routes (3) | | | | | |
| Both Edit routes | | | | | |
| Destination | Target | Status | Propagated | Route Origin | |
| 0.0.0.0/0 | igw-00087da45e79a7a87 | Active | No | Create Route | |
| 10.0.0.0/16 | local | Active | No | Create Route Table | |
| 10.11.0.0/16 | px-0fee7104958c94310 | Active | No | Create Route | |

VPC dashboard

AWS Global View ▾

Filter by VPC ▾

Virtual private cloud

- Your VPCs
- Subnets
- Route tables

 - Internet gateways
 - Egress-only internet gateways
 - DHCP option sets
 - Elastic IPs
 - Managed prefix lists
 - NAT gateways
 - Peering connections
 - Route servers

- Security

 - Network ACLs

rtb-09ff83ad229e5b505 / rt-private-b-vijaya

Details Info

| | | | |
|----------------|--|----------|--------------|
| Route table ID | rtb-09ff83ad229e5b505 | Main | No |
| VPC | vpc-0121b269781c0675a sub-vpc-vijaya | Owner ID | 686699774218 |

Explicit subnet associations
subnet-0b832bbc6bcd5f8c9 / private-b-vijaya

Edge associations -

Actions ▾

Routes Subnet associations Edge associations Route propagation Tags

Routes (2)

| Destination | Target | Status | Propagated | Route Origin |
|--------------|-----------------------|--------|------------|--------------------|
| 10.0.0.0/16 | pcl-0fee7104958c94310 | Active | No | Create Route |
| 10.11.0.0/16 | local | Active | No | Create Route Table |

Internet Gateway

VPC dashboard

AWS Global View ▾

Filter by VPC ▾

Virtual private cloud

Internet gateway

Internet gateways

- Egress-only internet gateways
- Carrier gateways
- DHCP option sets
- Elastic IPs
- Managed prefix lists
- NAT gateways
- Peering connections
- Route servers

Security

igw-00087da45e79a7a87 / igw-main-vijaya

Details Info

| | | | |
|---------------------|---|-------|--------------|
| Internet gateway ID | igw-00087da45e79a7a87 | State | Attached |
| VPC ID | vpc-0804eb9829107a43e main-vpc-vijaya | Owner | 686699774218 |

Tags (1)

| Key | Value |
|------|-----------------|
| Name | igw-main-vijaya |

Actions ▾

Peering Connections

The screenshot shows the AWS VPC Peering connections page. A specific peering connection named "pcx-0fee7104958c94310 / prod-peer-vijaya" is selected. The details pane shows the following information:

- Requester owner ID:** 686699774218
- Peering connection ID:** Pcx-0fee7104958c94310
- Status:** Active
- Expiration time:** -
- Acceptor owner ID:** 686699774218
- Requester VPC:** vpc-0804eb9829107a43e / main-vpc -vijaya
- Requester CIDRs:** 10.0.0.0/16
- Requester Region:** N. Virginia (us-east-1)
- VPC Peering connection ARN:** arn:aws:ec2:us-east-1:686699774218:vpc-peering-connection/pcx-0fee7104958c94310
- Acceptor VPC:** vpc-0121b269781c0675a
- Acceptor CIDRs:** 10.11.0.0/16
- Acceptor Region:** N. California (us-west-1)

The "DNS settings" section indicates that the requester VPC allows the accepter VPC to resolve DNS for hosts in the requester's private IP addresses, with the setting currently disabled.

Verify Connectivity (Private IPs)

```

ec2-user@ip-10-11-1-130:~ x + ~
vijayagagla@DESKTOP-FP4OP26:~$ ssh-add ~/.ssh/test-b-key-vijaya.pem
Identity added: /home/vijayagagla/.ssh/test-b-key-vijaya.pem (/home/vijayagagla/.ssh/test-b-key-vijaya.pem)
vijayagagla@DESKTOP-FP4OP26:~$ ssh -A -i test-a-key-vijaya.pem ec2-user@44.192.81.62
#_
~~\_ #####_      Amazon Linux 2023
~~ \_#####\
~~ \###|
~~  '#/ _-- https://aws.amazon.com/linux/amazon-linux-2023
~~  \~' '-->
~~ ._. /_/
~~ ._. /_/
~~ ._. /_/
Last login: Sun Jan 25 21:11:14 2026 from 95.129.5.64
[ec2-user@ip-10-0-1-102 ~]$ ssh ec2-user@10.11.1.130
#_
~~\_ #####_      Amazon Linux 2023
~~ \_#####\
~~ \###|
~~  '#/ _-- https://aws.amazon.com/linux/amazon-linux-2023
~~  \~' '-->
~~ ._. /_/
~~ ._. /_/
~~ ._. /_/
Last login: Sun Jan 25 21:12:11 2026 from 10.0.1.102
[ec2-user@ip-10-11-1-130 ~]$ |

```