

2. VPC Creation

The screenshot shows the AWS VPC console. On the left is a navigation menu with categories like VIRTUAL PRIVATE CLOUD, SECURITY, and VIRTUAL PRIVATE NETWORK (VPN). The main area displays 'Your VPCs (1/2)' with a table listing VPCs. One VPC, 'sudharsan-vpc1', is selected. Below the table, the 'Details' tab is active, showing various attributes of the VPC.

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	IPv6 pool	DHCP options
sudharsan-vpc1	vpc-026bcb174901014ac	Available	10.0.0.0/16	-	-	dopt-36bf345d

Details for vpc-026bcb174901014ac / sudharsan-vpc1

Attribute	Value
VPC ID	vpc-026bcb174901014ac
State	Available
DHCP options set	dopt-36bf345d
Tenancy	Default
Default VPC	No
Owner ID	266541899723
DNS hostnames	Enabled
DNS resolution	Enabled
Route table	rtb-02472c09a3ef22c71
Network ACL	acl-0a8fb6de57154ff15
IPv4 CIDR	10.0.0.0/16
IPv6 pool	-

This screenshot shows the 'CIDRs' tab for the same VPC. It displays the IPv4 CIDR block associated with the VPC. Below this, there is a section for IPv6 CIDRs, which currently shows no associated blocks.

IPv4 CIDRs

CIDR	Status
10.0.0.0/16	Associated

IPv6 CIDRs

CIDR	Pool	Status
You have no IPv6 CIDR blocks associated with your VPC.		

3. Subnet Creation:

Public:

The screenshot displays the AWS Management Console interface for the VPC Dashboard. On the left, a navigation menu lists various VPC resources: VPC Dashboard, Filter by VPC, Select a VPC, Virtual Private Cloud (selected), Your VPCs, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, and Peering Connections. Below these are sections for Security (Security Groups, Network ACLs) and Virtual Private Network (VPN).

The main content area shows the 'Subnets' tab for the VPC 'sudharsan'. A table lists the subnets:

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone	Availability Zone ID	Route table
sudharsan-vpc-public	subnet-01a122beb45ace7d3	available	vpc-0265cb174901014ac...	10.0.1.0/24	251	-	us-east-2a	use2-az1	rtb-00c0c48fb05ddefd3 pub
sudharsan-vpc-private	subnet-0405b397db2f5ce44	available	vpc-0265cb174901014ac...	10.0.2.0/24	251	-	us-east-2a	use2-az1	rtb-0d287e720771b6b05 pri

Below the table, the 'Route Tables' section is visible, showing the 'Route Table' tab for the selected subnet 'subnet-01a122beb45ace7d3'. The route table is associated with the public route table 'rtb-00c0c48fb05ddefd3'. The route table configuration shows a single route for the destination '10.0.0.0/16' with the target 'local'.

New VPC Experience

Tell us what you think

Create subnet

Actions

VPC Dashboard

Filter by VPC

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

VIRTUAL PRIVATE NETWORK (VPN)

Networks

search: sudharsan

Add filter

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Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone	Availability Zone ID	Route table
sudharsan-vpc1-public	subnet-01a122be645ace7d3	available	vpc-026bcb174901014ac	10.0.1.0/24	251	-	us-east-2a	use2-az1	rtb-00c0c5407be59d9f5 pub
sudharsan-vpc1-private	subnet-0405b397d02f5ce44	available	vpc-026bcb174901014ac	10.0.2.0/24	251	-	us-east-2a	use2-az1	rtb-0d287e720771b6b95 pri

Subnet: subnet-0405b397d02f5ce44

Description

Flow Logs

Route Table

Network ACL

Tags

Sharing

Subnet ID	subnet-0405b397d02f5ce44	State	available
VPC	vpc-026bcb174901014ac sudharsan-vpc1	IPv4 CIDR	10.0.2.0/24
Available IPv4 Addresses	251	IPv6 CIDR	-
Availability Zone	us-east-2a (use2-az1)	Route Table	rtb-0d287e720771b6b95 private-route-table
Network ACL	acl-0a2865da571540f15	Default subnet	No
Auto-assign public IPv4 address	No	Auto-assign customer-owned IPv4 address	No
Customer-owned IPv4 pool	-	Auto-assign IPv6 address	No
Outpost ID	-	Owner	266541899723

New VPC Experience
Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs [New](#)

Subnets

Route Tables

Internet Gateways [New](#)

Egress Only Internet Gateways [New](#)

DHCP Options Sets [New](#)

Elastic IPs [New](#)

Managed Prefix Lists [New](#)

Endpoints

Endpoint Services

NAT Gateways [New](#)

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SECURITY

Network ACLs

Security Groups [New](#)

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private

Create subnet

Actions

search: sudhansan

Add filter

	Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Availability Zone	Availability Zone ID	Route table
<input type="checkbox"/>	sudhansan-vpc1-public	subnet-01a122beb45ace7d3	available	vpc-026bcb174901014ac...	10.0.1.0/24	251	-	us-east-2a	use2-az1	rtb-00cccd48fb5dddefd pub
<input checked="" type="checkbox"/>	sudhansan-vpc1-private	subnet-0405b397db2f5ce44	available	vpc-026bcb174901014ac...	10.0.2.0/24	251	-	us-east-2a	use2-az1	rtb-0d287e720771b6bf5 pri

Subnet: subnet-0405b397db2f5ce44

Description

Flow Logs

Route Table

Network ACL

Tags

Sharing

Edit route table association

Route Table: rtb-0d287e720771b6bf5 | private-route-table

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Destination	Target
10.0.0.0/16	local

Route Table:

New VPC Experience
Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs [New](#)

Subnets

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VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private

Create route table

Actions

search: route

Add filter

	Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
<input checked="" type="checkbox"/>	public-route-table	rtb-00cccd48fb5dddefd	subnet-01a122beb45ace7d3	-	No	vpc-026bcb174901014ac sudhansan-vpc1	266541899723
<input type="checkbox"/>		rtb-02472c09a3ef22c71	-	-	Yes	vpc-026bcb174901014ac sudhansan-vpc1	266541899723
<input type="checkbox"/>	private-route-table	rtb-0d287e720771b6bf5	subnet-0405b397db2f5ce44	-	No	vpc-026bcb174901014ac sudhansan-vpc1	266541899723
<input type="checkbox"/>		rtb-be7709d5	-	-	Yes	vpc-6c249207	266541899723

Route Table: rtb-00cccd48fb5dddefd

Summary

Routes

Subnet Associations

Edge Associations

Route Propagation

Tags

Edit routes

View

All routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No
0.0.0.0/0	igw-095b7afc299ba4bbe	active	No

New VPC Experience
Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:
Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs [New](#)

Subnets

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VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Virtual Private Gateways

Site-to-Site VPN Connections

Create route tableActions

search: routeAdd filter

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Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
<input checked="" type="checkbox"/> public-route-table	rtb-00c0cd48fb55ddefd	subnet-01a122beb45ace7d3	-	No	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/>	rtb-02472c09a3ef22c71	-	-	Yes	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/> private-route-table	rtb-0d287e720771b6bf5	subnet-0405b397db2f5ce44	-	No	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/>	rtb-be7709d5	-	-	Yes	vpc-6c249207	266541899723

Route Table: rtb-00c0cd48fb55ddefd

Summary

Routes

Subnet Associations

Edge Associations

Route Propagation

Tags

Edit subnet associations

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-01a122beb45ace7d3 sudharsan-vpc1-public	10.0.1.0/24	-

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

Subnet ID	IPv4 CIDR	IPv6 CIDR
None found		

All your subnets are associated with a route table

Private Route Table:

Create route tableActions

search: routeAdd filter

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Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
<input type="checkbox"/> public-route-table	rtb-00c0cd48fb55ddefd	subnet-01a122beb45ace7d3	-	No	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/>	rtb-02472c09a3ef22c71	-	-	Yes	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input checked="" type="checkbox"/> private-route-table	rtb-0d287e720771b6bf5	subnet-0405b397db2f5ce44	-	No	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/>	rtb-be7709d5	-	-	Yes	vpc-6c249207	266541899723

Route Table: rtb-0d287e720771b6bf5

Summary

Routes

Subnet Associations

Edge Associations

Route Propagation

Tags

Edit routes

ViewAll routes

Destination	Target	Status	Propagated
10.0.0.0/16	local	active	No

New VPC Experience
Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:

VIRTUAL PRIVATE CLOUD

Your VPCs [New](#)

Subnets

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Internet Gateways [New](#)

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Security Groups [New](#)

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Create route table

Actions

Add filter

	Name	Route Table ID	Explicit subnet association	Edge associations	Main	VPC ID	Owner
<input type="checkbox"/>	public-route-table	rtb-00c0cd48/bb5ddfd	subnet-01a122beb45ace7d3	-	No	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/>		rtb-02472c09/a3ef22c71	-	-	Yes	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input checked="" type="checkbox"/>	private-route-table	rtb-0d287e720771b6bf5	subnet-0405b397/db2f5ce44	-	No	vpc-026bcb174901014ac sudharsan-vpc1	266541899723
<input type="checkbox"/>		rtb-be7709d5	-	-	Yes	vpc-6c249207	266541899723

Route Table: rtb-0d287e720771b6bf5

Summary

Routes

Subnet Associations

Edge Associations

Route Propagation

Tags

Edit subnet associations

Subnet ID	IPv4 CIDR	IPv6 CIDR
subnet-0405b397/db2f5ce44 sudharsan-vpc1-private	10.0.2.0/24	-

The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:

None Found

IGW:

New VPC Experience
Tell us what you think

VPC Dashboard [New](#)

Filter by VPC:

VIRTUAL PRIVATE CLOUD

Your VPCs [New](#)

Subnets

Route Tables

Internet Gateways [New](#)

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Network ACLs

Security Groups [New](#)

VIRTUAL PRIVATE NETWORK (VPN)

Customer Gateways

Internet gateways (1/2) [Info](#)

Actions

Create internet gateway

	Name	Internet gateway ID	State	VPC ID	Owner
<input checked="" type="checkbox"/>	vpc1-igw	igw-095b7afe299ba4bbe	Attached	vpc-026bcb174901014ac sudharsan-...	266541899723
<input type="checkbox"/>	-	igw-942f7cfc	Attached	vpc-6c249207	266541899723

igw-095b7afe299ba4bbe / vpc1-igw

Details

Tags

Details

Internet gateway ID igw-095b7afe299ba4bbe	State Attached	VPC ID vpc-026bcb174901014ac sudharsan-vpc1	Owner 266541899723
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EC2 instance:

