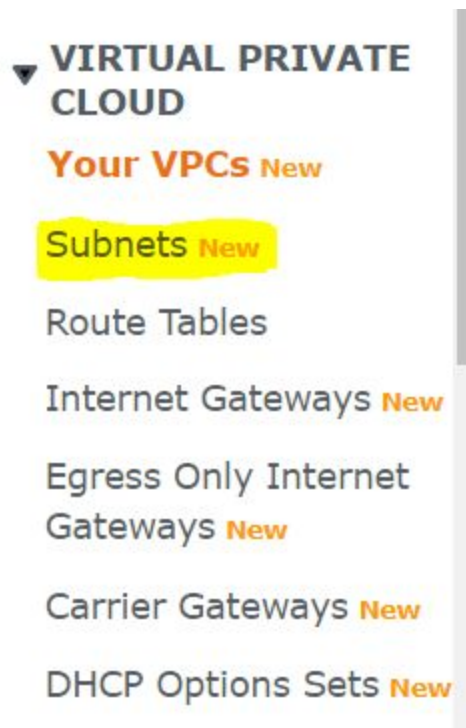# Creating a Subnet

This document provides you with a step by step guide on how to create a subnet within a VPC. A VPC can be broken down into multiple small subnets. Let us look at how to create a **Subnet** for the VPC that you created.

1. From the left-hand side panel click on **Subents** as shown in the image below.

2. You will be redirected to a new page. On this page, you can see some of the subnets that have been created for the default VPC associated with your AWS account.

Subnets (6) Info

Q Filter subnets

	Name ▽	Subnet ID ▽	State ▽	VPC
☐	–	subnet-d628a3f7	⊘ Available	vpc-5da27a20
☐	–	subnet-7c95d372	⊘ Available	vpc-5da27a20
☐	–	subnet-b8934089	⊘ Available	vpc-5da27a20
☐	–	subnet-b565ecea	⊘ Available	vpc-5da27a20
☐	–	subnet-e2a32f84	⊘ Available	vpc-5da27a20
☐	–	subnet-b0db87fd	⊘ Available	vpc-5da27a20

3. To create a new subnet, click on the **Create subnet** button from the top-right corner as shown below.

▽	State ▽	VPC ▽	IPv4 CIDR ▽	IPv6 CIDR
	⊘ Available	vpc-5da27a20	172.31.80.0/20	–
	⊘ Available	vpc-5da27a20	172.31.64.0/20	–
	⊘ Available	vpc-5da27a20	172.31.48.0/20	–
	⊘ Available	vpc-5da27a20	172.31.32.0/20	–
	⊘ Available	vpc-5da27a20	172.31.16.0/20	–
	⊘ Available	vpc-5da27a20	172.31.0.0/20	–

4. You will be redirected to a new page, where you need to specify the details for this subnet. First, you need to select the VPC in which you want to create this subnet. Click on the dropdown as shown below.

5. From the list of the VPCs select the VPC in which you want to create this subnet. This is **upgrad-vpc** for our case.

6. Next, you need to specify the details for the subnets.

Subnet settings

Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name

Create a tag with a key of 'Name' and a value that you specify.

my-subnet-01

The name can be up to 256 characters long.

Availability Zone Info

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

No preference ▼

IPv4 CIDR block Info

🔍 10.0.0.0/24

▼ **Tags - optional**

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Remove

Add new subnet

7. In the **Subnet name** field, you can name the subnet as **upgrad-subnet-a**. In the field for IPv4 CIDR block specify the value as **10.0.0.1/24**. The CIDR blocks for the subnets need to be a subset of the CIDR blocks for the VPC.

Subnet settings
Specify the CIDR blocks and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.

`upgrad-subnet-a`

The name can be up to 256 characters long.

Availability Zone Info
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

`No preference` ▼

IPv4 CIDR block Info

🔍 `10.0.0.1/24` ✕

▼ **Tags - optional**

Key	Value - optional	
🔍 `Name` ✕	🔍 `upgrad-subnet-a` ✕	Remove

Add new tag

You can add 49 more tags.

8. Once, you have specified the details, scroll down to the bottom of the page and click on the **Create subnet** button as shown below.

9. You will be redirected to a new page and your subnet will get created. As you can see in the image below, the subnet with the name **upgrad-subnet-a** gets created within the **upgrad-vpc**.

So, this document provided you with step by step guide on how to create a subnet within a VPC.