## Introduction

A VPC subnet is a range of IP addresses in your VPC. You can add one or more subnets in each Availability Zone, but each subnet must reside entirely within one Availability Zone and cannot span zones. Availability Zones are distinct locations that are engineered to be isolated from failures in other Availability Zones. By launching instances in separate Availability Zones, you can protect your applications from the failure of a single location.

You can create a new subnet for your previously created VPC using the AWS Management Console.

Instructions

1. From the VPC dashboard, click the **Subnets** link in the sidebar menu:
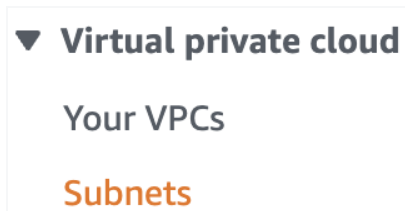
The Subnets page lists all previously created subnets. At this point, there are four automatically created default subnets associated with the default VPC. When you have many subnets, you can use the **Filter by VPC** feature for listing only the subnets linked to a specific VPC:
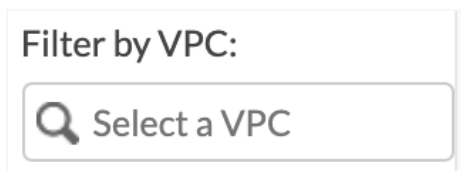
2. Click **Create Subnet** to begin creating a new subnet:
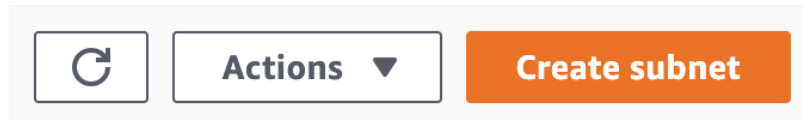
3. In the **Create Subnet** form, specify the following Subnet details then click **Create subnet**:

- **VPC ID**: `cloudacademy-labs`.
- **Subnet Name**: `Public-A`. This is the name for your subnet; doing so creates a tag with a key of Name and the value that you specify.
- **Availability Zone**: `us-west-2a`.
- **CIDR block**: `10.0.0.0/24`. You should specify a CIDR block in the selected VPC.

VPC

VPC ID
Create subnets in this VPC.

vpc-04ae5a3b3b6824073 (cloudacademy-labs) ▼

Subnet name

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

Public-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.

US West (Oregon) / us-west-2a   ▼

IPv4 CIDR block **Info**

🔍 10.0.0.0/24   ✕

Summary

In this Lab Step, you created a subnet for your AWS VPC.

VALIDATION CHECKS

1 Checks	Check again ↻
✓ **Created Subnet** Created a subnet in the non-default VPC Amazon VPC	