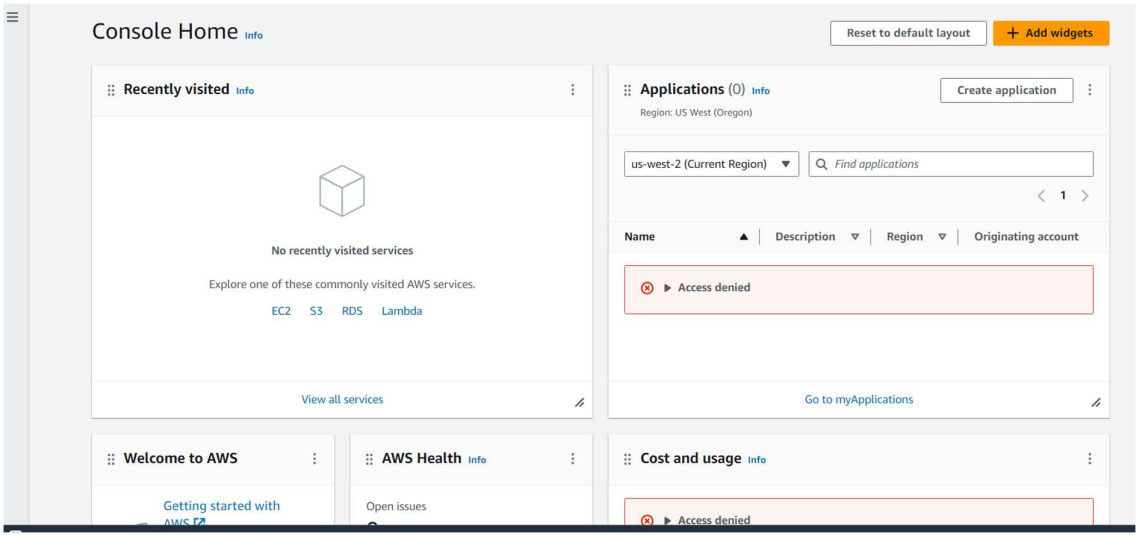
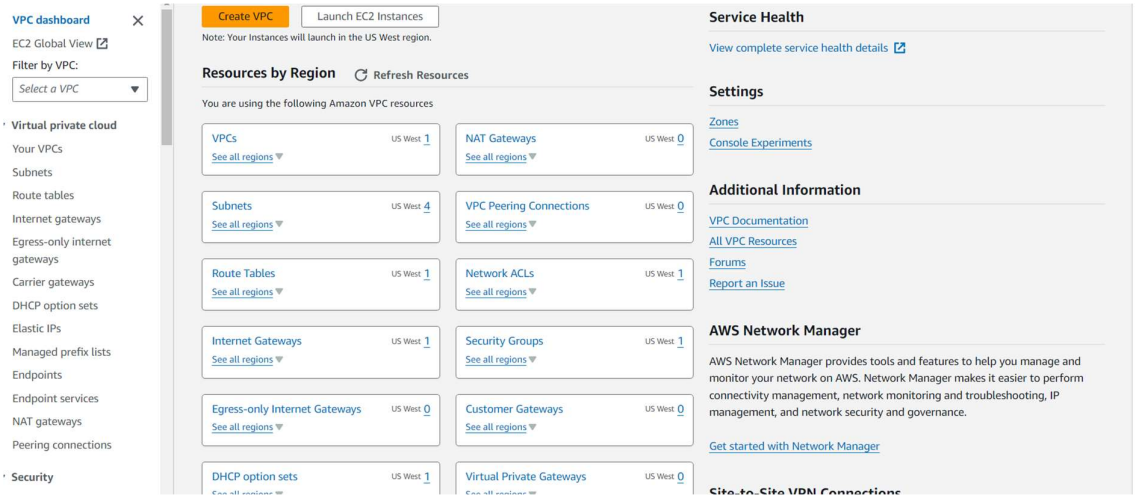
Create Your VPC and Subnets

Log into the AWS Management Console and complete the following steps:

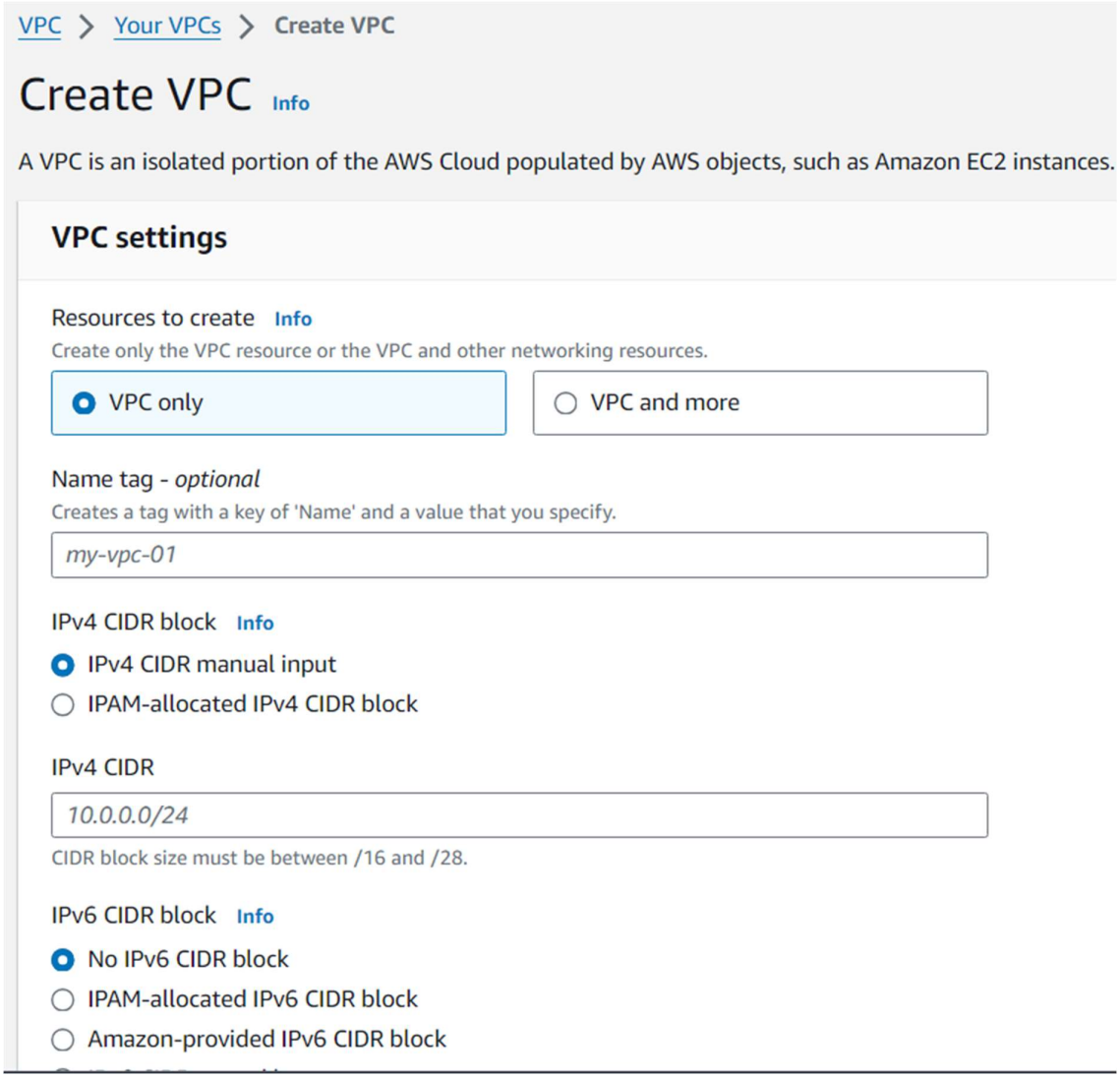
1. Log into the AWS Management Console using the credentials provided in the lab.



2. From the top search bar, type in and click on VPC.



3. In the navigation pane, choose Your VPCs, and then choose Create VPC.



4. On the Create VPC page, fill in the form and click Create VPC to submit the deployment. Use the following values:

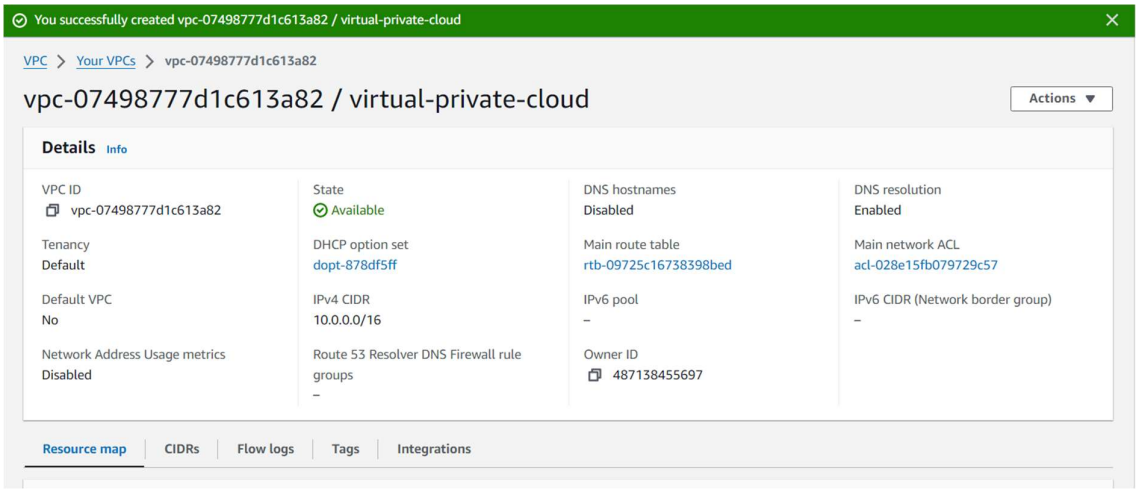
Name tag: virtual-private-cloud

IPv4 CIDR: 10.0.0.0/16

IPv6 CIDR block: Leave default of No IPv6 CIDR block

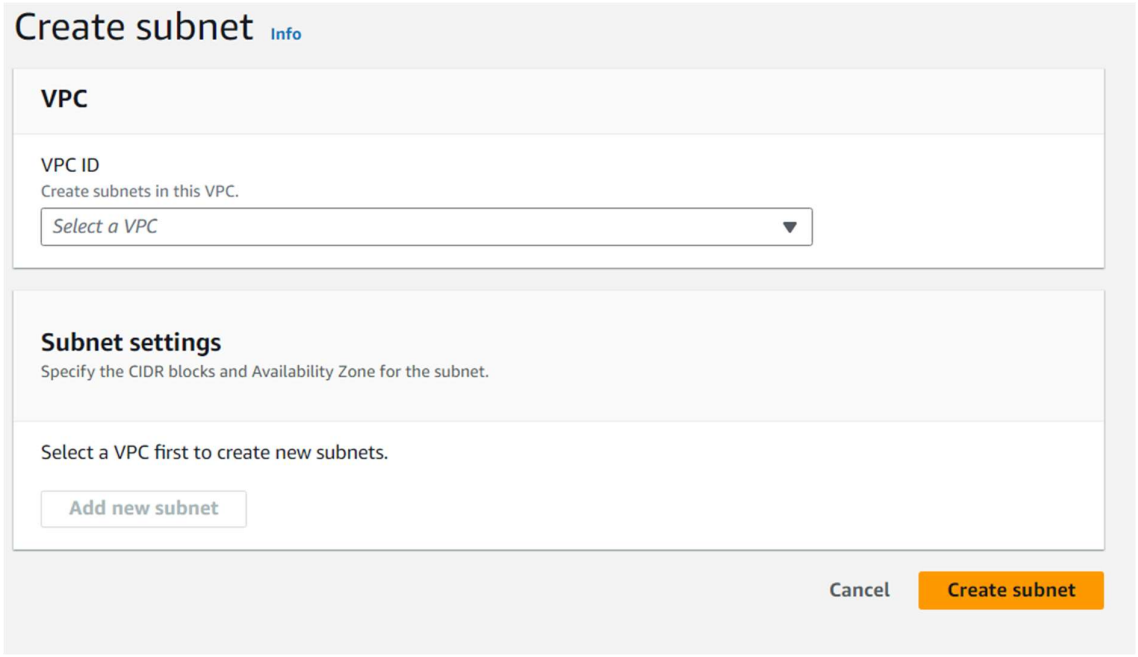
Tenancy: Leave as Default

5. Click the Create VPC button.



6. Click on VPC Dashboard in the navigation pane.

7. From the VPC Dashboard, choose Subnets and then click Create subnet.



8. On the Create Subnet page, choose virtual-private-cloud from the VPC ID dropdown menu. This will expose the Subnet Settings form.

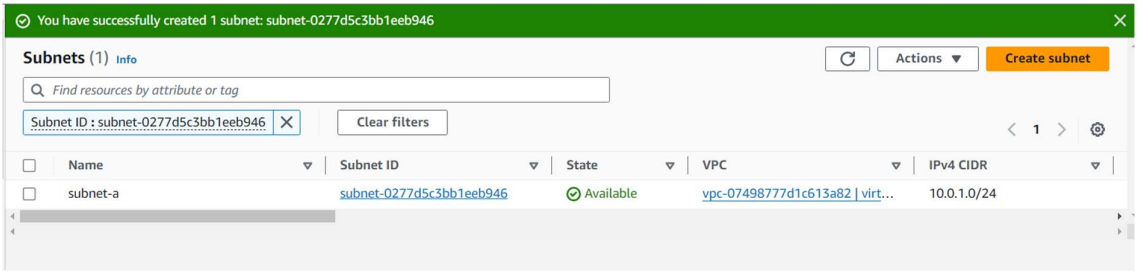
9. In the Subnet settings form, create a new subnet with the following values:

Subnet Name: Enter subnet-a

Availability Zone: Select us-west-2a

IPv4 CIDR block: Enter 10.0.1.0/24

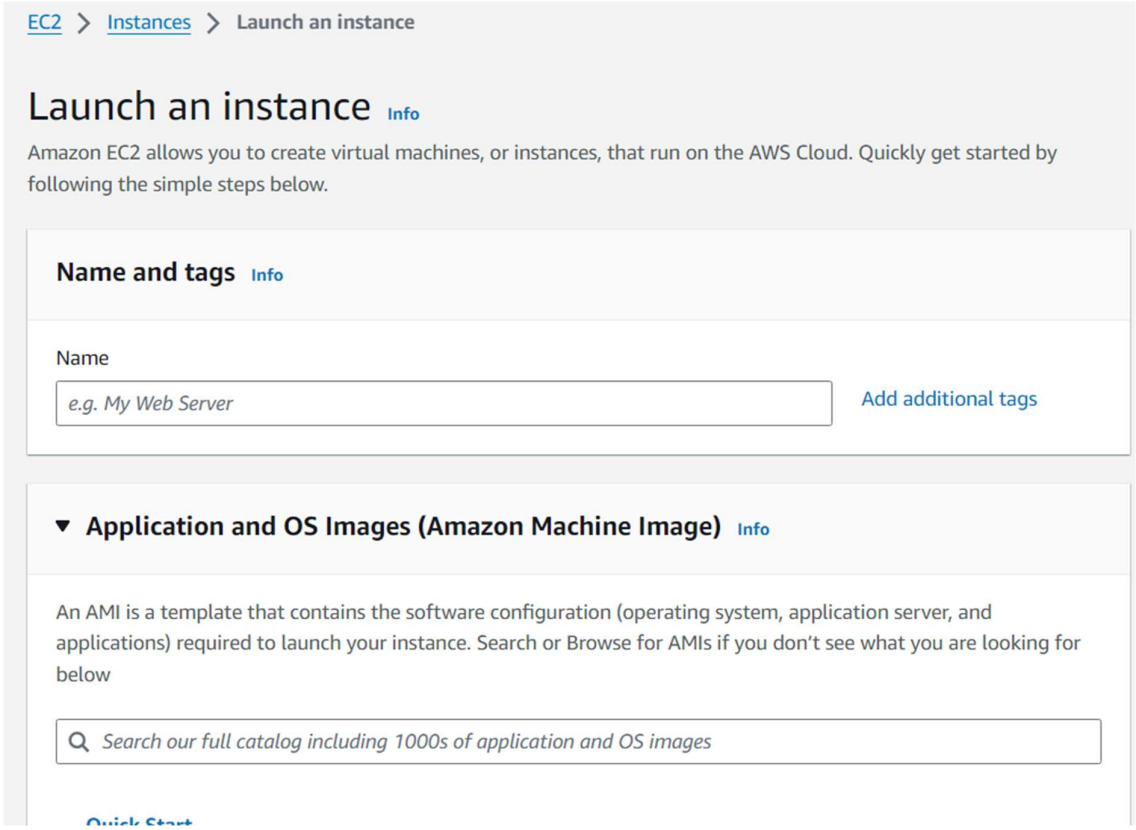
Click Create subnet.



Launch an EC2 Instance into Your VPC

1. In the top search bar, type in and click on EC2.

2. In the left-hand menu, click Instances, then click the Launch instances dropdown and choose Launch instances.



3. Under Name and tags, enter a Name of ec2-web-a.

4. Under Application and OS Images, in the search bar type in Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type and press enter.

5. Ensure 64-bit (x86) is selected.

6. Under Instance type, ensure t2.micro is selected.

7. In the Key pair section, click Create a new key pair.

8. In the Create key pair pop-up, enter a Key pair name of ec2-web-a, then click Create key pair.

Make a note of where you downloaded the ec2-web-a.pem file on your computer, as you will need to run your SSH client from this directory later in the lab.

9. In the Network settings section, click Edit, then enter the following:

VPC: choose virtual-private-cloud from the drop-down menu

Subnet: Choose subnet-a from the dropdown menu (This should be the default)

Auto-assign public IP: Choose Enable from the dropdown menu

10. Still in the Network settings section, in the Inbound security groups rules sub-section, click Add security group rule, and enter the following for Security group rule 2:

Type: Choose HTTP from the drop-down menu

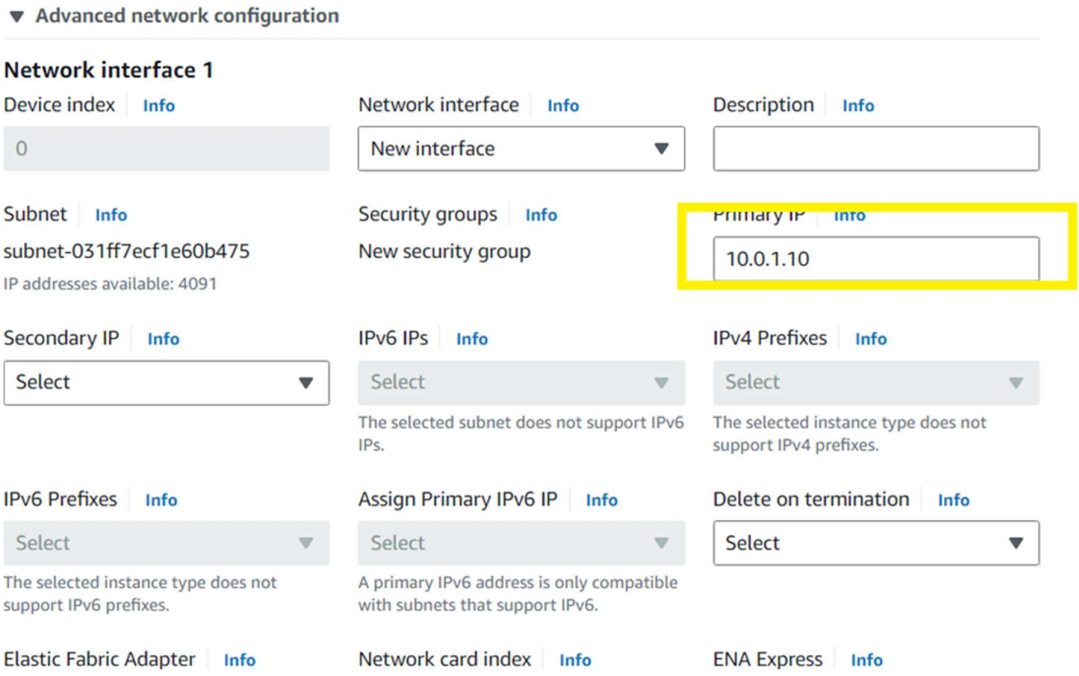
The Protocol will be automatically set to TCP, the Port range to 80.

Source type: Choose Anywhere from the drop-down menu

Description: Enter HTTP from Internet

Note: You will leave the first rule, the default one for ssh, as is.

11. Still in the Network settings section, expand the Advanced network configuration sub-section.



Under Network interface 1, for Primary IP enter 10.0.1.10

12. At the side of the page, click Launch instance.