Build a Virtual Private Cloud
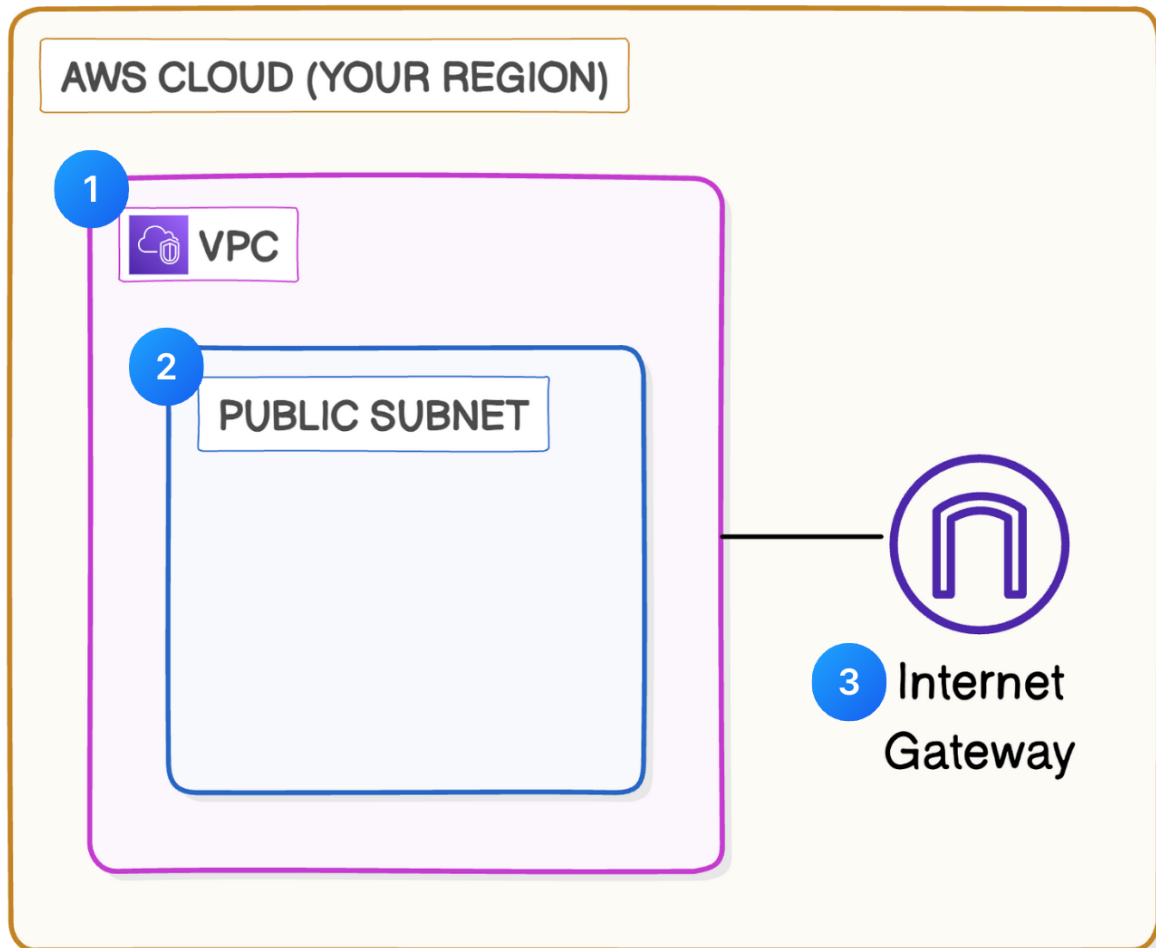
Let's get ready to:

1. Create an Amazon VPC.

2. Create a public subnet.

3. Create an internet gateway.

Create a VPC

- Access the VPC console in AWS.

- Create a VPC.

- In the **AWS Management Console** search field, type VPC.
- Select **VPC** from the drop-down menu.
- In the left navigation pane, choose **Your VPCs**.
- Make sure you're on the **Region** that's closest to you. Use the dropdown on the top right-hand corner to switch Regions.
- Choose **Create VPC**.
- Choose **VPC Only**.
- **Name tag:** NextWork VPC
- **IPv4 CIDR:** 10.0.0.0/16

- Select **Create VPC** to finish setting up your VPC.

Create Subnets

In this step, get ready to:

- Launch a subnet inside your VPC.

- In the **VPC Dashboard**, under **Virtual Private Cloud**, choose **Subnets**.
- Choose **Create subnet**.

Configure your subnet settings:

- **VPC ID:** NextWork VPC

- **Subnet name:** Public 1

- **Availability Zone:** Select the first Availability Zone in the list.

- **IPv4 VPC CIDR block:** 10.0.0.0/16

- **IPv4 subnet CIDR block:** 10.0.0.0/24

- Choose **Create subnet.**
- Select the checkbox next to **Public 1**.
- In the **Actions** menu, select **Edit subnet settings.**
- Check the box next to **Enable auto-assign public IPv4 address.**

- Choose **Save.**

Create an internet gateway

In this step, get ready to:

- Connect your VPC to the internet using a internet gateway.

- In the left navigation pane, choose **Internet gateways**.
- Choose **Create internet gateway**.
- Configure your internet gateway settings:
    - **Name tag:** NextWork IG
- Choose **Create internet gateway**.

- Select your newly created internet gateway and choose **Actions**, then **Attach to VPC**.
- Select **NextWork VPC**.
- Select **Attach internet gateway**.