Building an Amazon VPC: A Step-by-Step Guide

In this presentation, we will walk through the process of creating a secure and scalable Amazon Virtual Private Cloud (VPC) environment. We'll cover essential steps, including creating subnets, setting up security groups, and launching an application server.

Access and Configure AWS CLI

Open the Lab Environment

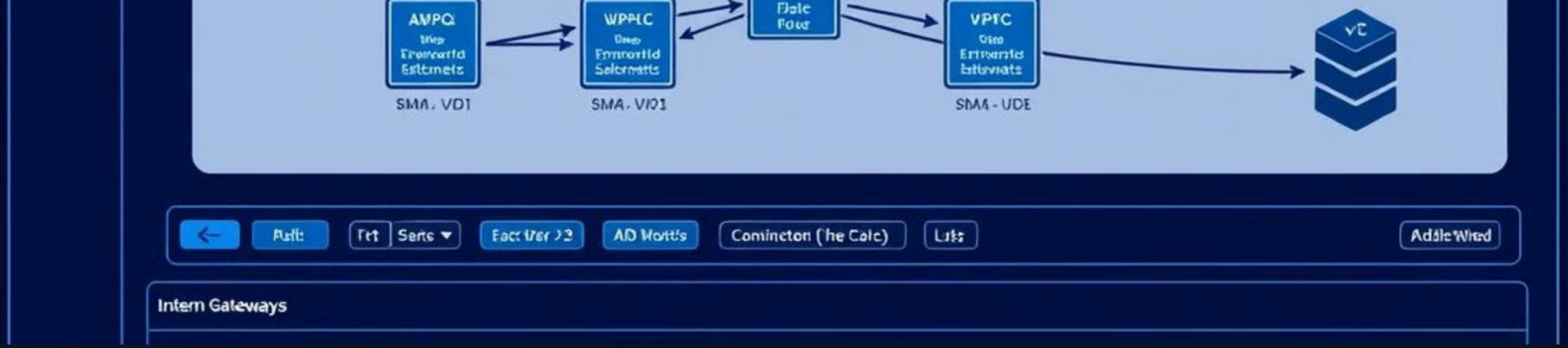
Start your lab session as directed.

Run the Lab

Initiate the lab session by clicking the "Run Lab" button.

Access AWS CLI

Navigate to the AWS Details panel and locate the AWS CLI section.



Task 1: Creating a VPC

			EC2 Global View	Your VPCs (2)
Filter by VPC	Name	VPCID	State	IPv4 CIDR
Virtual private cloud	Lab VPC	vpc-0950a6d01271968c4	Available	10.0.0.0/16

Task 2: Creating Subnets

Task 2.1: Public Subnet

Use AWS CLI to create a public subnet.

Task 2.2: Private Subnet

Create a private subnet using AWS CLI.

Task 3: Creating an Internet Gateway

An Internet Gateway (IGW) is a crucial component for allowing instances within your VPC to communicate with the internet. To create an IGW, use the following AWS CLI command.

Task 4: Configuring Route Tables

Route table ID	Subnet Association
rtb-0ddff7ef59dc3fdf4	subnet-0948af012834aa634

Task 5: Creating a Security Group

1 **Step 1**

Launch an EC2 instance in the public subnet.

2 **Step 2**

Select a suitable instance type (e.g., t2.micro).

3 **Step 3**

Choose an Amazon Linux 2 AMI for the instance.

Task 6: Launching an Application Server

Congratulations! You've successfully created a VPC, subnets, security groups, and launched an application server. This process sets the foundation for building secure and scalable applications in the AWS cloud.