

CLOUD+

A beginner's guide to creating an EC2 instance inside a custom VPC and connecting via SSH

#### **SUMMARY**

This project covers the process of setting up a custom VPC, launching an EC2 instance inside it, and connecting to the server using SSH. The steps include creating a VPC with a subnet, assigning a public IP, opening required ports, and generating a key pair. Finally, PuTTY was used as the SSH client to complete the connection, since the default SSH client on Windows was unavailable due to update issues.

Tebo [Course title]

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# **START**

### Introduction

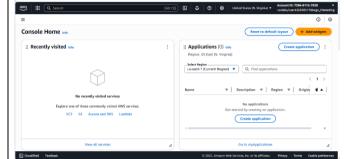
In this project, we create a Virtual Private Cloud (VPC), launch an EC2 instance inside it, and connect to the server using SSH. This walkthrough shows how networking, instance creation, and secure access all fit together.

Create VPC

O VPC and m

### Console Page

We begin in the AWS Management Console, the dashboard for accessing and managing all AWS services.



### Name the VPC

#### (Project3-vpc)

Inside the VPC section, we create a new Virtual Private Cloud and give it a meaningful name. This VPC will act as the private network for our instance.

## Assign IPv4 CIDR Block

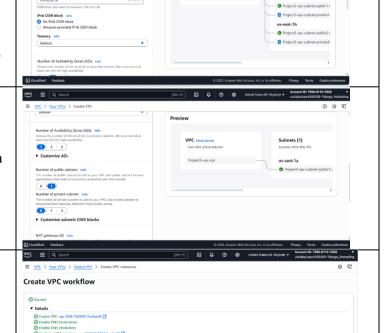
We assign an IPv4 CIDR block (e.g., 10.0.0.0/16) to define the range of private IP addresses available inside the VPC.

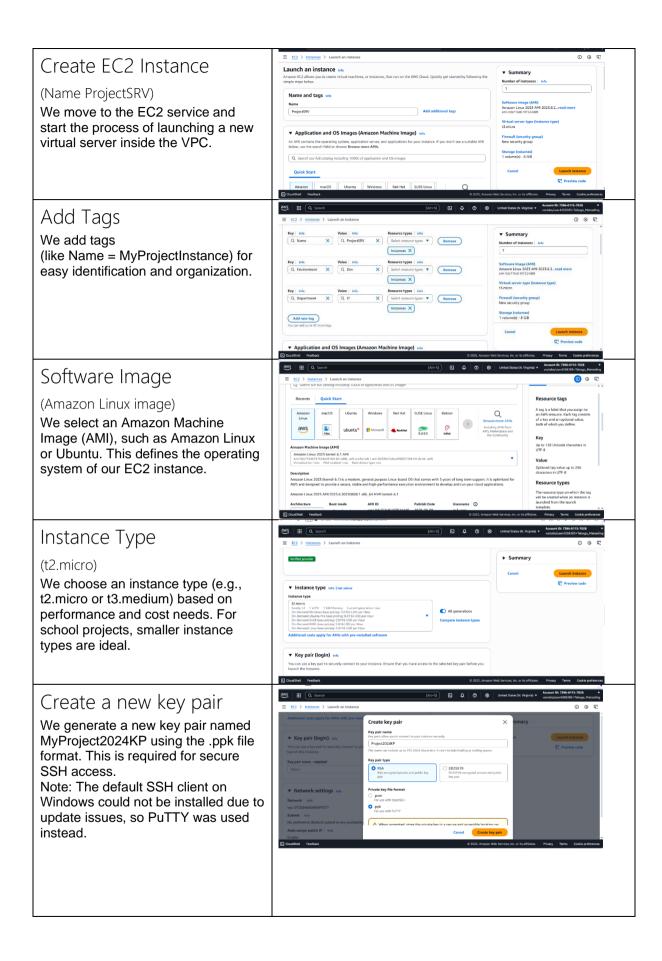
### Assign 1 AZ and 1 Subnet

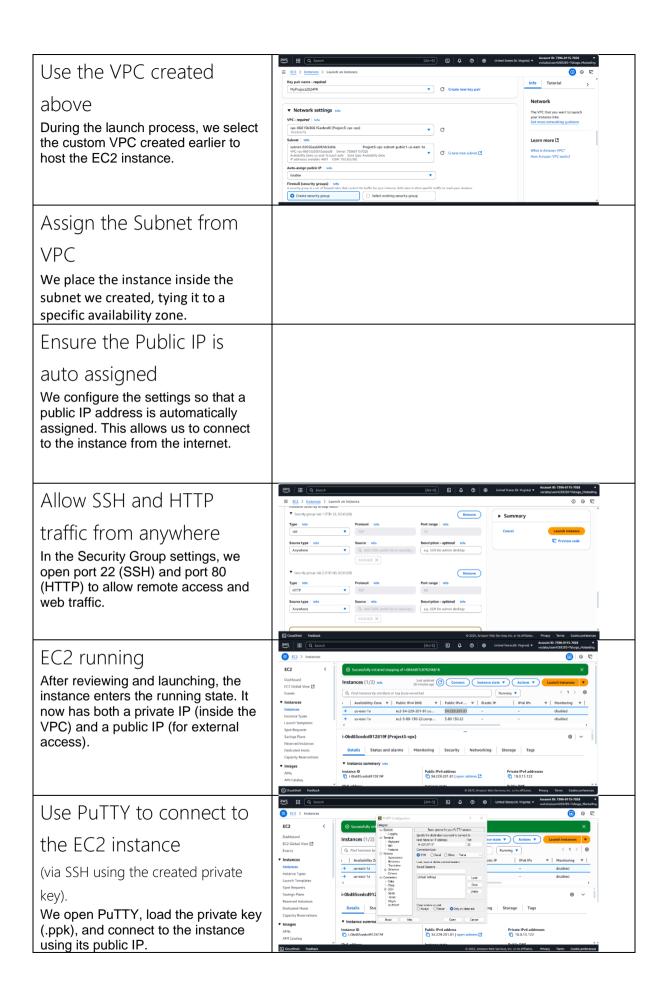
A subnet is created inside a specific Availability Zone. This subnet ensures our EC2 instance is tied to a particular physical data center within the region.

### **VPC Creation Done**

Once the VPC and subnet are configured, we complete the setup. Now we have a private environment to host our EC2 instance.

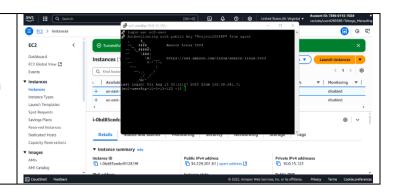




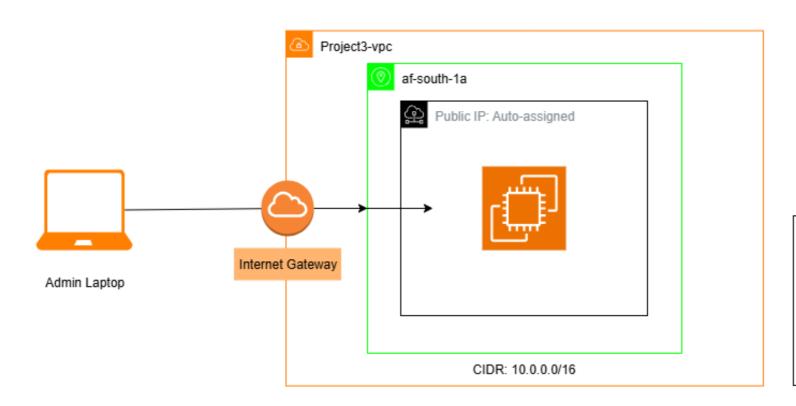


# Connection complete

Once the session opens, we confirm that the SSH connection is successful. At this stage, we can run commands on the EC2 server.



### Project illustration



Security group Inbound SSH (Port 22) = 0.0.0.0/0

HTTP (Port 80) = 0.0.0.0/0

Outbound

All traffic = 0.0.0.0/0

#### EC2 Details

Name: ProjectSRV

AMI: Amazon Linux

Instance Type: t2micro

Key Pair: MyProject2024KP

Tags: Key=IT, Key=Dev