



Placement Empowerment Program Cloud Computing and DevOps Centre

Set Up a Virtual Machine in the Cloud Create a free-tier AWS account. Launch a virtual machine and SSH into it.

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Introduction

In this POC, we will learn how to Set up a virtual machine in the cloud is essential for running applications, hosting websites, or learning cloud computing. AWS (Amazon Web Services) provides a **Free Tier**, allowing users to launch and use an EC2 (Elastic Compute Cloud) instance at no cost for the first 12 months. This project will guide you through **creating an AWS account**, **launching a virtual machine** (EC2 instance), and connecting to it via SSH.

Step-by-Step Overview

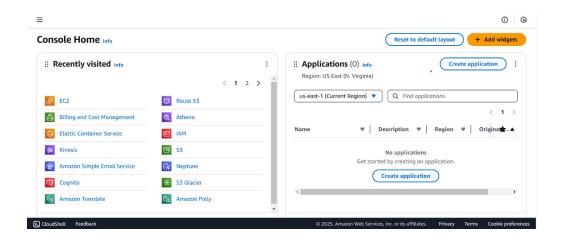
Step1:

Create an AWS Free Tier Account

Go to AWS Free Tier.

Click "Create an AWS Account".

Log in to the AWS Management Console.



Step 2

launch an EC2 Instance (Virtual Machine)

Open the EC2 Dashboard:

In AWS Console, search for EC2 and open the EC2 Dashboard.

Click "Launch Instance".

Configure the EC2 Instance:

Name: Choose a name (e.g., "MyEC2Instance").

Amazon Machine Image (AMI): Select Amazon Linux 2023 or Ubuntu 22.04 (both are Free Tier eligible).

Instance Type: Choose **t2.micro** (1 vCPU, 1GB RAM - Free Tier eligible).

Key Pair:

Click Create new key pair.

Name it (e.g., "my-key").

Select .pem format and Download Key Pair (store it securely).

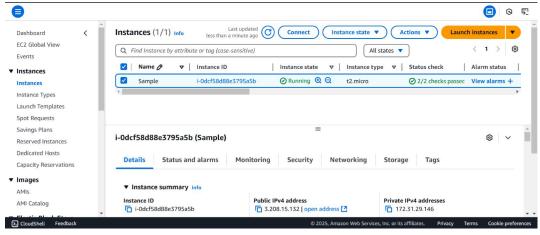
Security Group:

Allow SSH (port 22).

Restrict access to Your IP for security.

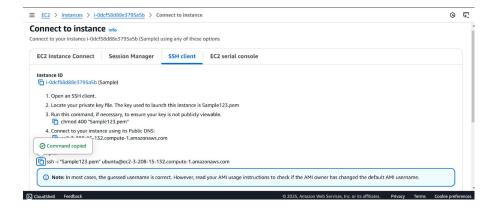
Storage: Keep default (8GB SSD).

Click Launch Instance and wait for initialization.



Step 3

Connect to the EC2 Instance via SSH



Step 4

Verify Connection & Manage Instance