**DevOps Lab: Setting Up Jenkins and Tomcat on AWS EC2**

Hello DevOps Champs,

Welcome to my first lab exercise! In this project, I'm taking the first step in building a foundational DevOps environment by creating two EC2 instances (virtual machines) on AWS. These instances will be used to set up Jenkins and Tomcat respectively.

**Objective**

The goal of this exercise is to create the basic infrastructure needed to host a CI/CD pipeline by provisioning two virtual servers in the AWS cloud.

- Launch two EC2 instances in AWS.

- Set up \*\*Jenkins\*\* on one EC2 instance.

- Set up \*\*Apache Tomcat\*\* on the other EC2 instance.

**What I'm Doing**

* **Creating Two EC2 Instances**  
  I'll be launching two EC2 instances using the AWS Management Console or CLI:
  + One EC2 instance will be configured to run **Jenkins**, an automation server used for building and deploying applications.
  + The second EC2 instance will host **Apache Tomcat**, a web server and servlet container for deploying Java applications.

This is the foundational step toward automating deployments and managing application infrastructure more efficiently using DevOps tools.

This setup is the foundation for future DevOps practices, including continuous integration and continuous deployment (CI/CD).

**Prerequisites**

Before you begin, ensure the following:

- You have an [AWS account](https://aws.amazon.com/).

- IAM user with permissions to create EC2 instances.

- AWS CLI configured on your local machine (optional, if using CLI).

- Basic understanding of Linux commands and SSH.

**Architecture**

AWS Cloud  
  
EC2 Instance 1: Jenkins Server (Ubuntu)  
  
EC2 Instance 2: Tomcat Server (Ubuntu)