

22 Hours Of Training + 6 Real Time Projects
2 Years Working Experience

DEVOPS On AWS CI/CD Projects

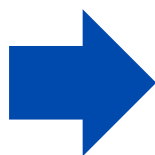
Experience the correct way of Professional Learning !!

FIRST TIME IN INDUSTRY

**ADVANCED PROJECT BASED
PROGRAM IN**

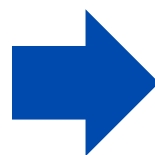
STEP 1

Create CV



STEP 2

Implement CV



STEP 3

Apply Job

- 22 Hours of Instructor Led Training
- 6 Real Time Projects
- Get 2 Years Experience
- Job Ready Course
- Beginner to Advanced



WHY BECOME A DEVOPS ENGINEER?



Tech Boom

The IT and Tech industry in India has grown exponentially in the last few years and this industry will be worth around 350 billion by 2025.



No Dearth of Jobs

Currently more than 80% of the companies have adopted DevOps and rest are in the process of adopting it. This makes DevOps one of the most demanding jobs today and in the coming years.



High Salary

A DevOps Engineers earns in the range \$120,000 to \$200,000 which is 25-35% more than a Software Developer with same experience.



Plenty of Job Roles

DevOps Expert, DevOps Engineer, DevOps Developer, DevOps Lead, Platform Engineer, System Engineer, Site Reliability Engineer, Solution Architect

COURSE CURRICULUM

Major CI/CD Project : - CI/CD with Git, Jenkins, Ansible, Kubernetes

Introduction to Pre-Requisite concepts

1. SDLC – Software Development Life Cycle
2. What is DevOps?
3. Role of a DevOps Engineer
4. What is CI and CD?
5. Resources to setup DevOps CI/CD pipeline
6. Using AWS EC2
7. What is GIT?
8. Using GitBash
9. Using Github
10. Quick tips to learn fast
11. Resources before starting

Project 1 - CI/CD pipeline using Git, Jenkins and Maven

1. Introduction
2. Setting up of a Jenkins server
3. Running Jenkins jobs
4. Integration of Git with Jenkins
5. Running Jenkins job to pull code from GitHub
6. Integration of Maven with Jenkins
7. Building a java project using Jenkins
8. Build is failing, troubleshooting

Project 2 - Integrating Tomcat server in CI/CD pipeline

1. Introduction
2. Setting up Tomcat application server
3. Integration of Tomcat with Jenkins
4. Deploying artifacts on a Tomcat server
5. Automating builds and deployment using Poll SCM in Jenkins

Project 3 - Integrating Docker in CI/CD Pipeline

1. Setting up a Docker environment
2. Creating a Tomcat container
3. Troubleshooting Tomcat container issues
4. Create and use a Docker file
5. Implementing customized Dockerfile for Tomcat server
6. Integration of Docker with Jenkins
7. Jenkins jobs to build and copy artifacts on to a dockerhost
8. Updating a Tomcat dockerfile for automation of deployment process
9. Automation of a build and deployment on Docker container
10. Jenkins job to automate CI/CD for deploying application on docker container

Project 4 - Integrating Ansible in CI/CD Pipeline

1. Requirement for Ansible
2. Installing Ansible
3. Integration of Docker with Ansible
4. Integration of Ansible with Jenkins
5. Building an image and creating containers on Ansible
6. Ansible book for creating image and container
7. Copying images to dockerhub
8. Jenkins jobs for building an image in Ansible
9. Creating containers on dockerhost using ansible book
10. How to do Continuous deployment of docker container using ansible book
11. Using Jenkins CI/CD to deploy on container using Ansible

Project 5 - Kubernetes on AWS

1. Why Kubernetes is required?
2. Kubernetes installation
3. EKS installation method
4. Setting up a bootstrap server for eksctl
5. Setting up Kubernetes using eksctl
6. Running Kubernetes basic commands
7. Creating a manifest file
8. Creating a service manifest file
9. How to use labels and selector?

Project 6 - Integrating Kubernetes in CI/CD pipeline

1. Writing a deployment file
2. Using deployment and service files to create and access pod
3. Integrating Kubernetes bootstrap server with Ansible
4. Creating ansible books for deployment and service files
5. Creating Jenkins deployment jobs for Kubernetes
6. CI Job for creating Image in Kubernetes
7. How to enable rolling update to create pod from latest docker image?
8. End to end CI/CD job to build and deploy code on Kubernetes
9. Cleaning up Kubernetes setup



Program Details

Start Date : Reach out to us for batch start dates

Duration : One Month

Program Fee : Contact Us

Program Hours : 22 Hours

IT Polytechnic School

**Start
Upskilling
Today**



For Admission Contact : +91 8584003772 / +91 9100695359