

## 30 Days (Introduction to DevOps)

### *Objective:*

- Understand the basics of DevOps, its lifecycle, and essential tools.

### *Syllabus:*

1. **Week 1:** Introduction to DevOps
  - a. Overview of DevOps and its importance in modern development.
  - b. DevOps lifecycle: Continuous Integration, Continuous Delivery, and Deployment (CI/CD).
  - c. Introduction to Linux basics and shell scripting.
2. **Week 2:** Version Control and Build Automation
  - a. Git and GitHub basics: version control, branching, and merging.
  - b. Build tools: Maven/Gradle introduction.
3. **Week 3:** Introduction to Containerization
  - a. Docker basics: images, containers, and Docker Hub.
  - b. Writing Dockerfiles and managing Docker Compose.
4. **Week 4:** CI/CD Basics
  - a. Introduction to Jenkins: installation, setup, and pipelines.
  - b. Setting up a basic CI/CD pipeline with Jenkins and Docker.