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- 🧑 12+ Years in IT Training
- 🎯 50000+ Students Trained
- 🧑 Practical Training
- 🎧 Mock Interview Prep
- 💻 Live Projects with You
- 📁 Placement Assistance & Internship Programs
- 📄 ISO-Certified & MSME-Approved Institute



REVIEWS



4.9 ★★★★★



4.8 ★★★★★

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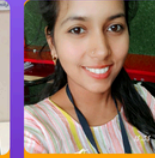
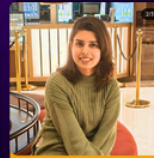
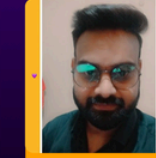
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QA, SALESFORCE, DA, DS, AI\ML

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AI-POWERED CORPORATE DEVOPS + AWS COURSE

Duration:6- months

Course Highlight:

- **VCS:** Git & GitHub (Bitbucket, GitLab)
- **Project Management Tools (PMT):** JIRA
- **Configuration Management & IaC:** Ansible / Terraform
- **Build & Dependency Management (Java):** Maven
- **CI/CD Automation:** Jenkins
- **Containerization:** Docker
- **Orchestration Platform:** Kubernetes
- **Monitoring:** Prometheus + Grafana
- **Cloud (AWS Services):** EC2, EBS, CodePipeline, CodeBuild, CodeCommit

Git & GitHub Syllabus (2025)

Module 1: Introduction

- What is Version Control System (VCS)?
- Centralized vs Distributed VCS
- Why Git? Advantages over SVN, CVS, etc.
- What is GitHub?
- Git vs GitHub vs GitLab vs Bitbucket

Module 2: Git Basics

- Installing Git (Windows, Mac, Linux)
- Git Configuration (user name, email, editor, aliases)
- Git workflow (Working Directory → Staging Area → Repository)
- Creating a Git Repository (git init)
- Cloning a Repository (git clone)
- Understanding .git folder

Module 3: Working with Files

- Tracking files with Git (git add)
- Committing changes (git commit)
- Checking status (git status)
- Viewing commit history (git log, git show)
- Removing & renaming files (git rm, git mv)
- Ignoring files (.gitignore)

Module 4: Branching & Merging

- What is a branch in Git?
- Creating & switching branches (git branch, git checkout, git switch)
- Merging branches (git merge)
- Merge conflicts (how to resolve them)
- Fast-forward vs Non fast-forward merges
-

Module 5: Working with Remote Repositories (GitHub)

- Adding a remote (git remote add origin)
- Pushing changes (git push)
- Pulling updates (git pull, git fetch)
- Forking a repository on GitHub
- Creating Pull Requests (PRs)
- Code Review Process

Module 6: Advanced Git

- Stashing changes (git stash)
- Cherry-pick commits (git cherry-pick)
- Rebase (git rebase)
- Reflog (git reflog)
- Reset, Revert & Amend (git reset, git revert, git commit --amend)

Maven Syllabus

Module 1: Introduction to Maven

- What is Apache Maven?
- Importance in Java projects & DevOps
- Maven vs Ant vs Gradle

Module 2: Installation & Setup

- Installing Maven
- Setting environment variables (M2_HOME, PATH)
- Verifying installation

Module 3: Maven Project Basics

- Understanding POM (pom.xml)
- Maven project structure (src, target, resources)
- Maven lifecycle (clean, compile, test, package, install, deploy)

Module 4: Dependencies & Repositories

- Adding dependencies in pom.xml
- Maven Central Repository
- Local vs Remote repositories
- Dependency scopes (compile, test, provided, runtime)

Module 6: Maven in DevOps

- Integrating Maven with Jenkins CI/CD
- Building, testing, and deploying Java projects
- Best practices in Maven projects

Python Basics Syllabus

Module 1: Introduction

- What is Python & its features
- Installing Python (Windows/Mac/Linux)
- Python IDEs & editors (VS Code, PyCharm)
- Running Python scripts

Module 2: Data Types & Variables

- Numbers, Strings, Boolean
- Lists, Tuples, Sets, Dictionaries
- Type conversion & basic operations

Module 3: Control Flow

- Conditional statements (if, else, elif)
- Loops (for, while)
- break, continue, pass statements

Module 4: Functions & Modules

- Defining functions & return statements
- Arguments & keyword arguments
- Lambda functions
- Importing modules & standard libraries

Module 5: File Handling

- Reading & writing files (open, read, write, with statement)
- Working with CSV and JSON files

Module 6: Exception Handling

- try, except, finally blocks
- Raising exceptions

Module 7: Object-Oriented Basics

- Classes & Objects
- Attributes & Methods
- Inheritance & Encapsulation

JENKINS Syllabus

Module 1: Introduction

- What is Jenkins?
- Role of Jenkins in DevOps & CI/CD
- Jenkins vs GitHub Actions / GitLab CI / CircleCI

Module 2: Installation & Setup

- Installing Jenkins (Windows/Linux/Docker)
- Jenkins architecture (Master & Agents)
- User management & security setup

Module 3: Jenkins Basics

- Creating & configuring jobs (Freestyle project)
- Source code integration (Git/GitHub)
- Build triggers (manual, SCM, scheduled, webhook)
- Understanding workspace & console output

Module 4: Pipelines

- Introduction to Pipeline as Code
- Scripted vs Declarative Pipelines
- Writing Jenkinsfile
- Stages, steps, and agents
- Pipeline examples (build → test → deploy)

Module 5: Plugins & Integrations

- Installing & managing plugins
- Git, Maven, Gradle, Docker, Kubernetes plugins
- Email & Slack notifications

Module 6: Advanced Jenkins

- Distributed builds (master-slave setup)
- Parallel builds
- Credentials management (SSH keys, tokens, secrets)
- Environment variables in Jenkins
- Using parameters in jobs

Module 7: CI/CD Implementation

- Continuous Integration with GitHub/GitLab
- Automated testing in pipeline
- Continuous Deployment to AWS/Docker/Kubernetes
- Blue-Green & Rolling deployments basics

DOCKER Syllabus

Module 1: Introduction

- What is Docker?
- Docker vs Virtual Machines
- Docker architecture (Engine, Images, Containers, Registry)

Module 2: Installation & Basics

- Installing Docker (Windows/Linux)
- Basic commands: docker run, ps, stop, rm
- Pulling images from Docker Hub

Module 3: Working with Images & Containers

- Creating & managing containers
- Building custom images (Dockerfile)
- Pushing images to Docker Hub

Module 4: Networking & Volumes

- Docker networking basics
- Using ports (-p)
- Data persistence with volumes

Module 5: Docker Compose

- Multi-container applications with docker-compose.yml
- Example: App + Database setup

Module 6: CI/CD & Deployment

- Using Docker with Jenkins/GitHub Actions
- Deploying containers on cloud (AWS, Azure, GCP basics)

Kubernetes Syllabus

Module 1: Introduction

- What is Kubernetes?
- Why Kubernetes? (vs Docker Swarm)
- Kubernetes architecture (Master, Nodes, Pods, etc.)

Module 2: Installation & Setup

- Minikube / Kind setup
- kubectl basics

Module 3: Core Concepts

- Pods
- ReplicaSets
- Deployments
- Services (ClusterIP, NodePort, LoadBalancer)

Module 4: Configuration & Storage

- ConfigMaps & Secrets
- Volumes & Persistent Volumes (PV, PVC)

Module 5: Advanced Basics

- Namespaces
- Ingress basics
- Rolling updates & rollbacks

Module 6: Real-Time Use

- Deploying a sample app (frontend + backend + DB)
- Scaling applications
- Monitoring basics

Terraform Syllabus

Module 1: Introduction to IaC & Terraform

- What is Infrastructure as Code (IaC)
- Benefits of IaC in DevOps
- Why Terraform?
- Terraform vs other IaC tools

Module 2: Terraform Basics

- Installation & setup
- Terraform CLI commands (init, plan, apply, destroy)
- Providers, Resources, Variables
- Writing simple .tf files

Module 3: State Management

- Understanding Terraform state
- Local vs Remote state
- Workspaces & state locking

Module 4: Terraform Modules

- What are modules?
- Creating reusable modules
- Using community modules

Module 5: Cloud Provisioning with Terraform

- Provisioning infrastructure on AWS/Azure/GCP
- Networking & compute resources
- Example: Launch EC2 instance with S3 bucket

Module 6: Terraform in DevOps

- Integrating Terraform in CI/CD pipelines
- Collaboration & version control
- Handling secrets & sensitive data

Module 7: Best Practices

- Code organization & modularity
- Testing & validation
- Scalability & maintainability

Ansible Syllabus

Module 1: Introduction to Ansible

- What is Ansible & why use it?
- Agentless architecture
- Ansible vs Puppet/Chef/Other automation tools
- Use cases in DevOps

Module 2: Installation & Setup

- Installing Ansible on Linux/Mac
- Configuring inventory (static & dynamic)
- Running ad-hoc commands
- Understanding Ansible directories & config files

Module 3: Playbooks

- Introduction to YAML
- Writing playbooks (tasks, handlers, variables)
- Running playbooks
- Idempotency in Ansible

Module 4: Advanced Concepts

- Ansible Vault for secrets
- Tags & conditional execution
- Ansible Galaxy
- Integrating with CI/CD pipelines

Module 5: Real-Time Project

- Deploy a sample web application on multiple servers
- Automate configuration and service management
- Use roles, variables, and templates for modular setup

JIRA Syllabus

Module 1: Introduction to JIRA

- What is JIRA?
- Importance in Agile & DevOps
- Types of JIRA (JIRA Software, JIRA Service Management, JIRA Core)

Module 2: Projects & Issues

- Creating & managing projects
- Issue types: Story, Task, Bug, Epic, Sub-task
- Issue lifecycle & statuses

Module 3: Boards & Workflows

- Scrum board vs Kanban board
- Creating and customizing workflows
- Managing sprints & backlogs

Module 4: Users & Permissions

- Roles & access levels
- Assigning tasks & watchers
- Managing groups & permissions

Module 5: Reports & Dashboards

- Burndown chart, Velocity chart, Cumulative flow diagram
- Custom dashboards & gadgets
- Tracking progress & performance

Module 6: Integration & Automation

- Integration with Confluence, GitHub, Jenkins, Slack
- Automation rules (triggers, actions, conditions)

Prometheus + Grafana – Syllabus

Module 1: Introduction

- What is monitoring & observability?
- Why Prometheus + Grafana together?
- Use cases in DevOps & Kubernetes

Module 2: Prometheus Basics

- Prometheus architecture (server, targets, exporters, Alertmanager)
- Installation & setup
- Collecting metrics with Node Exporter
- Writing simple PromQL queries

Module 3: Grafana Basics

- Installing Grafana
- Connecting Grafana to Prometheus
- Creating dashboards & panels
- Setting up alerts in Grafana

Module 4: Integration & Use Cases

- Monitoring servers (CPU, RAM, disk, network)
- Monitoring containerized apps & Kubernetes clusters
- Real-time alerting (Email, Slack, etc.)

Module 5: Project

- Deploy a sample app → Monitor with Prometheus → Visualize in Grafana
- Create a dashboard with CPU/Memory/Requests graphs
- Trigger alert when threshold is crossed

AWS for DevOps Syllabus

Module 1: Basics

- AWS Overview & DevOps role
- IAM (users, roles, policies)
- EC2, Security Groups, Load Balancers, Auto Scaling
- VPC basics (subnets, routing, NAT, IGW)

Module 2: Storage & Databases

- S3, EBS, EFS basics

RDS & DynamoDB

Module 3: CI/CD with AWS

- CodeCommit, CodeBuild, CodeDeploy, CodePipeline
- Elastic Beanstalk
- Integration with GitHub/Jenkins

Module 4: Containers & IaC

- ECS, EKS, ECR, Fargate
- CloudFormation & Terraform basics

Module 5: Monitoring & Security

- CloudWatch, CloudTrail, Config
- KMS, Secrets Manager, Parameter Store

Module 6: Automation & Serverless

- Lambda, API Gateway

Industrial Content for Corporate Learners

1. Interview Preparation (Ongoing)

- Git interview questions
- AWS interview questions for Devops
- Docker & Kubernetes interview questions
- Resume & portfolio building (GitHub, LinkedIn, project hosting)

2: Project

- End-to-end CI/CD pipeline (CodePipeline → ECS/EKS → CloudWatch → Alerts)
- Create Pipeline for Car-rental application using, git+github+YAML + Code Pipeline + Elastic BeanStalk + CodeBuild + CodeDeploy
- Create NEST JS Project & Deploy with git+github+docker+jenkins+ec2 machine

AI-Powered Tools in DevOps

- Code & Automation → GitHub Copilot, ChatGPT (generate pipelines, Dockerfiles, IaC scripts).
- Gen AI: ChatGPT, GEMINI (Prompt Engineering)
- CI/CD → Harness.io (AI-driven deployment), Jenkins AI plugins.
- Monitoring & Alerts → Dynatrace Davis AI, Datadog AI Ops, New Relic AI (auto root cause & anomaly detection).
- Security (DevSecOps) → Snyk AI, Aqua Security, AWS GuardDuty (AI threat detection).

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