

WWW.VIJAYKUMARCHIRUTHA.COM

**VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES**



www.vijaykumarchirutha.com

**VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES**

Educating The World

81431 86860

MODULE 1 — INTRODUCTION TO DEVOPS

- **Objective: Understand DevOps culture and lifecycle.**
- **What is DevOps**
- **DevOps vs Traditional IT**
- **DevOps Lifecycle**
- **CI/CD Concepts**
- **DevOps Tools Overview**
- **Roles & Responsibilities of DevOps Engineer**

MODULE 2 — LINUX & SHELL SCRIPTING BASICS

- **Objective: Build strong OS fundamentals.**
- **Linux Architecture**
- **Linux Commands (File, User, Process Management)**
- **Permissions & Ownership**
- **Package Management**
- **Shell Scripting Basics**
- **Writing Simple Automation Scripts**

MODULE 3 — VERSION CONTROL WITH GIT & GITHUB

- **Objective: Manage source code efficiently.**
- **Version Control Concepts**
- **Git Architecture**
- **Git Commands (Clone, Commit, Push, Pull)**
- **Branching & Merging**
- **GitHub Repositories**
- **Pull Requests & Code Reviews**

MODULE 4 — CLOUD FUNDAMENTALS (AWS / AZURE)

- **Objective: Understand cloud platforms.**
- **AWS Topics**
- **AWS Overview & Global Infrastructure**
- **EC2, S3, IAM**
- **VPC Basics**
- **Security Groups**
- **CloudWatch (Intro)**
- **Azure Topics**
- **Azure Overview**
- **Virtual Machines**
- **Storage Accounts**
- **Azure AD**
- **Resource Groups**

MODULE 5 — BUILD TOOLS & DEPENDENCY

MANAGEMENT

- **Objective: Automate application builds.**
- **Topics Covered**
- **Maven Basics**
- **Gradle Overview**
- **Build Lifecycle**
- **Artifacts & Repositories**
- **Integration with CI Tools**

MODULE 6 — CONTINUOUS INTEGRATION (CI)

- **Objective: Automate code integration.**
- **Azure DevOps**
- **Azure DevOps Services Overview**
- **Azure Repos**
- **Azure Pipelines (CI)**
- **YAML Pipelines**
- **Build Triggers & Agents**
- **AWS DevOps**
- **AWS CodeCommit**
- **AWS CodeBuild**
- **Build Specifications**
- **CI Pipeline Flow**

MODULE 7 — CONTINUOUS DEPLOYMENT (CD)

- **Objective: Automate deployments.**
- **Azure DevOps**
- **Release Pipelines**
- **Deployment Stages**
- **Environment Configuration**
- **Approvals & Gates**
- **Rollback Strategies**
- **AWS DevOps**
- **AWS CodeDeploy**
- **Deployment Strategies**
- **Blue-Green & Canary Deployments**
- **Integration with CI**

MODULE 8 — CONTAINERIZATION WITH DOCKER

- **Objective: Package applications using containers.**
- **Topics Covered**
- **Docker Architecture**
- **Images & Containers**
- **Dockerfile**
- **Docker Compose**
- **Container Networking**
- **Pushing Images to Docker Hub / ECR / ACR**

MODULE 9 — CONTAINER ORCHESTRATION WITH KUBERNETES

- **Objective: Manage containerized applications.**
- **Topics Covered**
- **Kubernetes Architecture**
- **Pods, Services & Deployments**
- **ConfigMaps & Secrets**
- **Scaling Applications**
- **Kubernetes on AWS (EKS)**
- **Kubernetes on Azure (AKS)**

MODULE 10 — INFRASTRUCTURE AS CODE (IAC)

- **Objective: Automate infrastructure creation.**
- **Topics Covered**
- **Infrastructure as Code Concepts**
- **Terraform Basics**
- **Writing Terraform Scripts**
- **Terraform State Management**
- **Provisioning AWS & Azure Resources**
- **Terraform Best Practices**

MODULE 11 — CONFIGURATION MANAGEMENT

- **Objective: Maintain consistent environments.**
- **Topics Covered**
- **Configuration Management Overview**
- **Ansible Architecture**
- **Playbooks & Roles**
- **Inventory Management**
- **Automating Server Configuration**

MODULE 12 — MONITORING & LOGGING

- **Objective: Monitor application health.**
- **AWS**
- **CloudWatch Metrics & Logs**
- **Alarms & Notifications**
- **Azure**
- **Azure Monitor**
- **Log Analytics**
- **Application Insights**

MODULE 13 — SECURITY & DEVSECOPS

- **Objective: Integrate security into DevOps.**
- **Topics Covered**
- **DevSecOps Concepts**
- **IAM & RBAC**
- **Secrets Management**
- **Vulnerability Scanning**
- **Secure CI/CD Pipelines**

MODULE 14 — REAL-TIME DEVOPS PROJECT

- **Objective: Apply skills in a real scenario.**
- **Project Includes**
- **✓ Source Code Management**
- **✓ CI/CD Pipeline Creation**
- **✓ Docker & Kubernetes Deployment**
- **✓ Cloud Infrastructure Setup**
- **✓ Monitoring & Logging**
- **✓ Final Presentation**

OUR SERVICE

WE ARE PROVIDING MULTIPLE SOFTWARE COURSES

- DATA SCIENCE WITH AI
- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
- MANUAL TESTING AND SELENIUM WITH AI
- PYTHON FULL STACK WITH AI
- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
- VIDEO EDITING COURSE
- SERVICE NOW
- MULESOFT
- AWS/AZURE DEVOPS
- MS OFFICE
- POWER APPS

WWW.VIJAYKUMARCHIRUTHA.COM



www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES

Educating The World

81431 86860

About US

- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected



www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA

SOFTWARE COURSES

Educating The World

81431 86860

WWW.VIJAYKUMARCHIRUTHA.COM

THANK YOU SO MUCH

CONTACT US

+91 - 81431 86860

WWW.VIJAYKUMARCHIRUTHA.COM

HYDERABAD



www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES

Educating The World

81431 86860