BANGALORE • MARATHAHALLI | SRIKANTH IT SOLUTIONS | CLOUD • DEVOPS • AI

Build the Future of Your IT Career

DevOps + AWS Cloud + AI Engineer Program

Linux | AWS Cloud | DevOps Automation | Kubernetes | Terraform | AI

- Real-Time Projects
- Hands-on Labs
- Industry Practices
- Career Support

YOUR JOB, OUR PRIORITY — www.srikanthitsolutions.com | 7893398267 | 7899042116

Career & Program Overview

Why DevOps?

DevOps engineers automate software delivery, manage cloud infrastructure, and maintain highly available enterprise applications.

Industry Demand

- Cloud adoption increasing
- Automation becoming mandatory
- Kubernetes engineers in demand
- DevOps required across Product, SaaS, MNC & FinTech companies

Who Can Join?

- **Freshers**
- **Experienced Professionals**
- **Non-IT to IT Switch**
- **Career Gap Candidates**

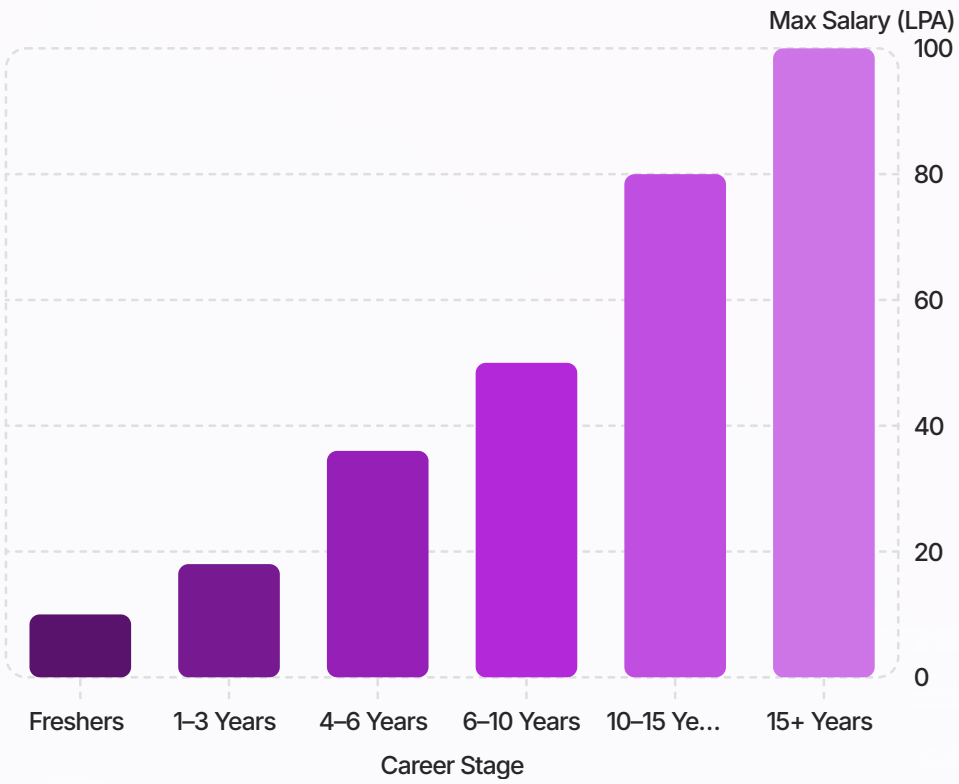
Batch Timings

- 6:30 AM – 7:30 AM
- 7:30 AM – 8:30 AM
- 8:30 AM – 9:30 AM

Career Roadmap & Salary Growth

₹4 LPA – ₹1 Crore+

Explore how DevOps careers grow from entry-level roles to senior cloud leadership.



Freshers — ₹4–10 LPA

~2% of professionals at this stage

1–3 Years — Up to ₹18 LPA

~12% of professionals at this stage

4–6 Years — Up to ₹36 LPA

~24% of professionals at this stage

6–10 Years — Up to ₹50 LPA

~36% of professionals at this stage

10–15 Years — Up to ₹80 LPA

~80% of professionals at this stage

15+ Years — Up to ₹1 Crore+

~99% of professionals at this stage

Career Roles You Can Pursue

> "A strong DevOps path blends automation, cloud, and reliability into a high-growth tech career."

DevOps Engineer

Build & Release Engineer

Cloud Engineer

Cloud DevOps Engineer

Cloud Architect

Linux Support Engineer

Automation Engineer

SRE

Platform Engineer

DevOps AI Engineer

DevOps Foundation Modules (1–6)

A practical foundation in Linux, Git, scripting, DevOps practices, Maven, and Jenkins — designed to build core skills for real-world DevOps workflows.

1

Linux Administration

- Linux OS architecture & system components
- File system hierarchy & operations
- Permissions, ownership, users & groups
- Process & disk/storage management
- Package management (YUM/APT)
- Network configuration & SSH
- Cron jobs, monitoring & troubleshooting

2

Git Version Control

- Version control concepts & Git architecture
- Repository creation & commit management
- Branching strategies & merge/rebase
- Conflict resolution, tagging & releases
- GitHub integration & pull requests

3

Shell / Bash Scripting

- Shell scripting, variables & conditionals
- Loops, functions & log monitoring
- Backup automation & system monitoring
- DevOps automation scripts

4

DevOps Fundamentals

- DevOps culture, practices & lifecycle
- Continuous Integration, Delivery & Deployment
- Enterprise architecture & toolchain overview

5

Build Automation with Maven

- Maven architecture & POM
- Build lifecycle & dependency management
- Plugin management & artifact generation
- CI pipeline integration

6

Continuous Integration with Jenkins

- Jenkins architecture & configuration
- Freestyle & pipeline jobs, Jenkinsfile
- CI/CD automation & shared libraries
- Webhook integration & pipeline security
- Distributed setup & parallel execution

DevOps Automation Modules (7–10)

A practical extension of the DevOps journey, covering artifact management, code quality, configuration automation, and containerization — essential skills for modern CI/CD and cloud-native delivery.

Module 7 — Artifact Repository Management

- Concepts of artifact repository
- Nexus / JFrog repository management
- Versioning & security management
- Integration with build pipelines

Module 8 — Code Quality & Security (SonarQube)

- Static code analysis & code quality metrics
- Security scanning & vulnerability detection
- SonarQube setup & configuration
- CI/CD integration & quality gates

Module 9 — Configuration Management with Ansible

- Ansible, Puppet & Chef architecture overview
- Inventory management & ad-hoc commands
- Playbooks (YAML) & roles
- Agentless system & push/pull architecture
- Ansible Vault & remote server connections
- Deploy services on AWS using Ansible roles
- Automated deployment pipelines

Module 10 — Containerization using Docker

- Docker architecture & image creation
- Container lifecycle & Dockerfile creation
- Networking, volumes & Docker Compose
- Docker Swarm & container management

Kubernetes & Cloud Native

Build the next layer of cloud-native expertise with Kubernetes orchestration, application packaging, scaling, and operational best practices for modern platform engineering and production delivery.

Module 11 — Kubernetes Container Orchestration

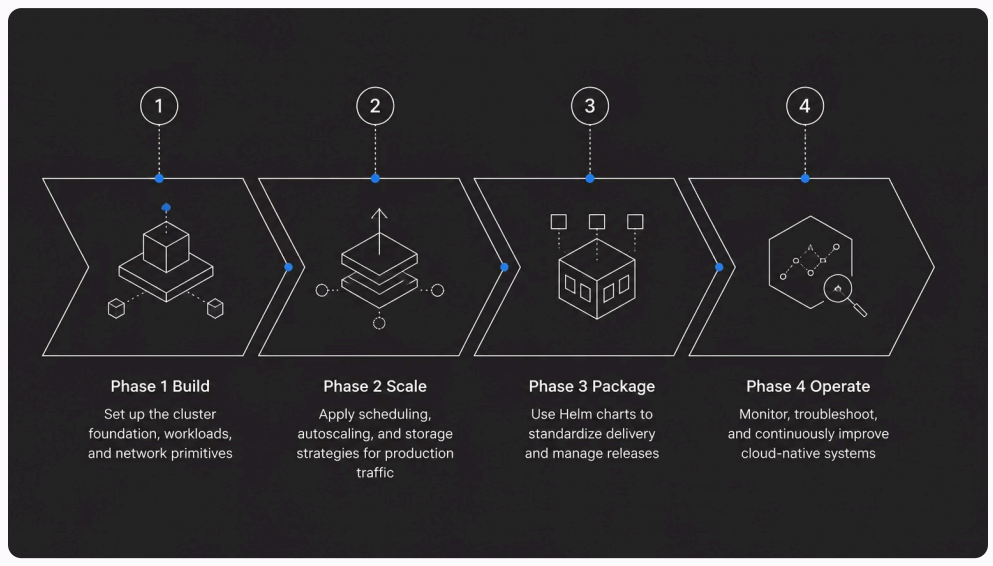
Orchestrate containers, manage clusters, and run resilient workloads at scale.

Module 12 — Helm Package Manager

Package, version, and deploy Kubernetes applications with confidence.

Core Concepts

- Kubernetes architecture: Control Plane & Worker Nodes
- Cluster setup, configuration & lifecycle management
- Nodes, namespaces, pods & pod lifecycle
- Workload controllers: Deployments, ReplicaSets, StatefulSets, DaemonSets



Networking & Storage

- Services: ClusterIP, NodePort, LoadBalancer
- Ingress & Ingress controllers
- ConfigMaps, Secrets & persistent storage

Advanced Features

- Scheduling: taints, tolerations, node/pod affinity
- Autoscaling: HPA, VPA, Cluster Autoscaler, KEDA, Karpenter
- IAM Roles for Service Accounts (IRSA)
- CI/CD integration: Jenkins, GitHub Actions, GitLab CI/CD
- Monitoring, logging & troubleshooting

Helm Package Manager

- Helm architecture & chart creation
- Chart repositories & deployment
- Release management & rollback
- Application packaging & distribution

Kubernetes Orchestration

Run containers across a highly available control plane and worker nodes with declarative workload management.

Helm Charts

Bundle Kubernetes manifests into reusable charts for consistent deployments.

Networking & Service Exposure

Expose applications safely using Services, Ingress, and controller-based traffic routing.

Release Control

Track versions, manage upgrades, and roll back safely when needed.

Scale on Demand

Adapt capacity automatically with HPA, VPA, Cluster Autoscaler, KEDA, and Karpenter.

Operate with Confidence

Use monitoring, logging, and troubleshooting practices to keep services healthy.

AWS & Infrastructure Automation

Build advanced cloud and platform engineering skills with Infrastructure as Code, AWS architecture, and production-ready automation patterns. This section focuses on Terraform-driven provisioning and the core AWS services used to design secure, scalable, and resilient systems.

Module 13 — Infrastructure as Code with Terraform

Design, provision, and manage AWS infrastructure as reusable code.

Terraform Fundamentals

- IaC principles & Terraform architecture
- Providers, resources & modules
- State management & remote workflows
- AWS automation through reusable infrastructure code

Terraform in Enterprise Environments

- Best practices for reusable module design
- Environment promotion and workspace patterns
- State security, locking, and governance
- Consistent provisioning across teams and accounts

Modules 14 & 15 — AWS Cloud Engineering

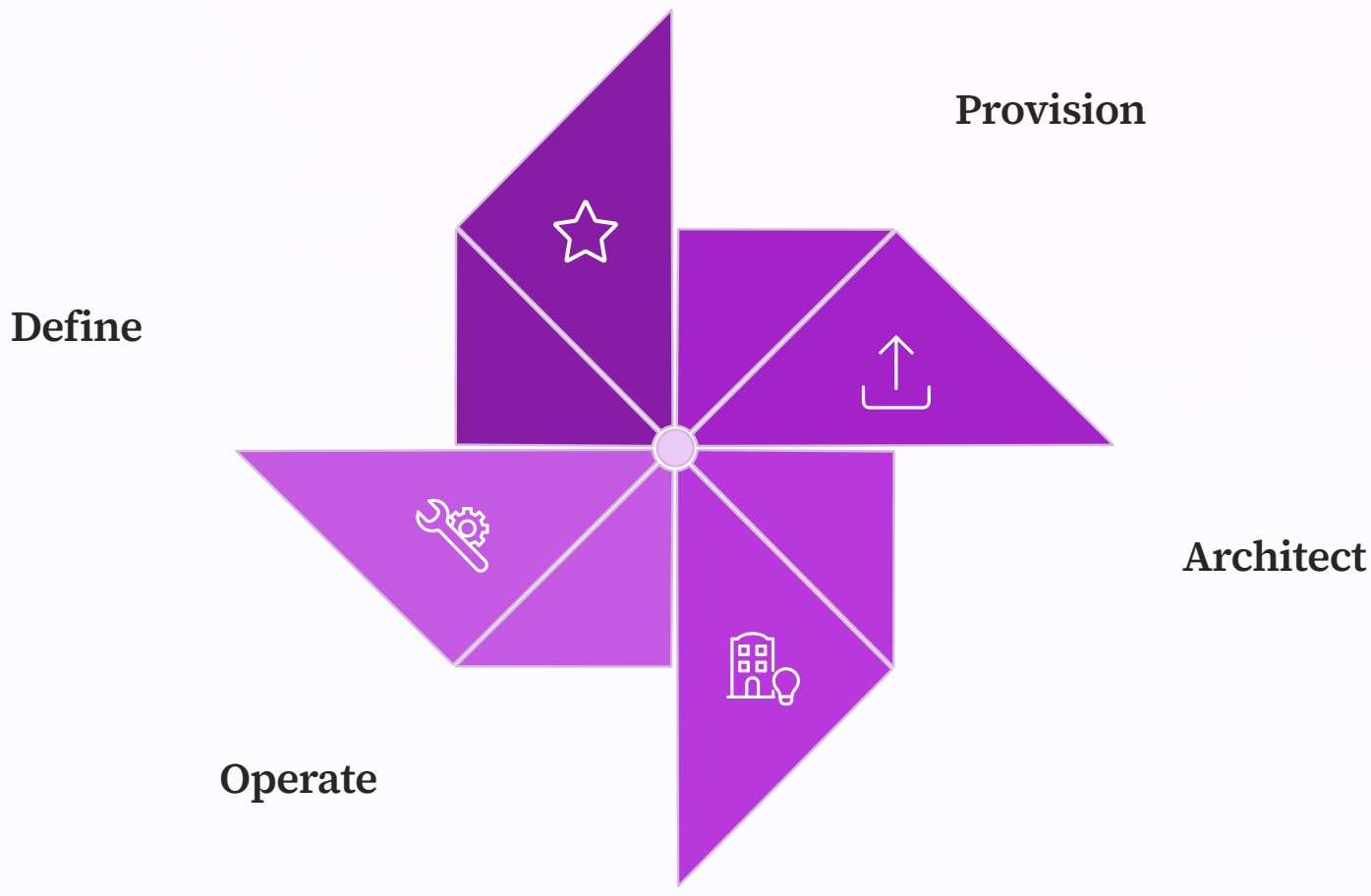
Architect secure, scalable, and resilient AWS environments across compute, network, storage, and application layers.

AWS Cloud Engineering Scope

- Identity, compute, storage, networking, and security
- Container platforms and deployment services
- Application architecture patterns for modern workloads
- Operational design for scale and reliability

Delivery Outcomes

- Build secure AWS foundations
- Deploy multi-tier architectures
- Automate infrastructure lifecycle management
- Support microservices and platform workloads



This four-phase workflow represents the complete Infrastructure as Code lifecycle — from defining requirements in Terraform to operating production-ready AWS environments with enterprise-grade patterns.

AWS Service Coverage

Identity & Security

IAM, KMS, Secrets Manager

Content Delivery & Protection

CloudFront, Web Application Firewall (WAF)

Compute & Storage

EC2, S3, RDS

Container & Orchestration

EKS, ECR, ECS, MSK

Networking

VPC, subnets, routing, Internet/NAT Gateways, security groups, NACL, Route53 DNS

Application Architecture

2-tier & 3-tier application architectures, microservices on AWS

Monitoring, AI & Real-Time Projects

From observability foundations to AI-assisted DevOps and finally hands-on project delivery, this section shows the progression from monitoring systems to automation and production-ready implementation.

1

Module 16 — Monitoring & Logging

ELK Stack, Prometheus & Grafana, and AWS CloudWatch for metrics, logs, dashboards, and alerts.

- **ELK Stack** — Elasticsearch (distributed search & analytics), Logstash (log processing & transformation), Kibana (visualization & dashboards)
- **Prometheus & Grafana** — Prometheus (metrics collection & time-series database), Grafana (advanced dashboards & alerting)
- **AWS CloudWatch** — CloudWatch metrics, logs & alarms, custom metrics & log insights

2

Module 17 — AI for DevOps

ChatGPT, GitHub Copilot, AI-assisted CI/CD generation, debugging, log analysis, and infrastructure automation.

3

Module 18 — Real-Time DevOps Projects

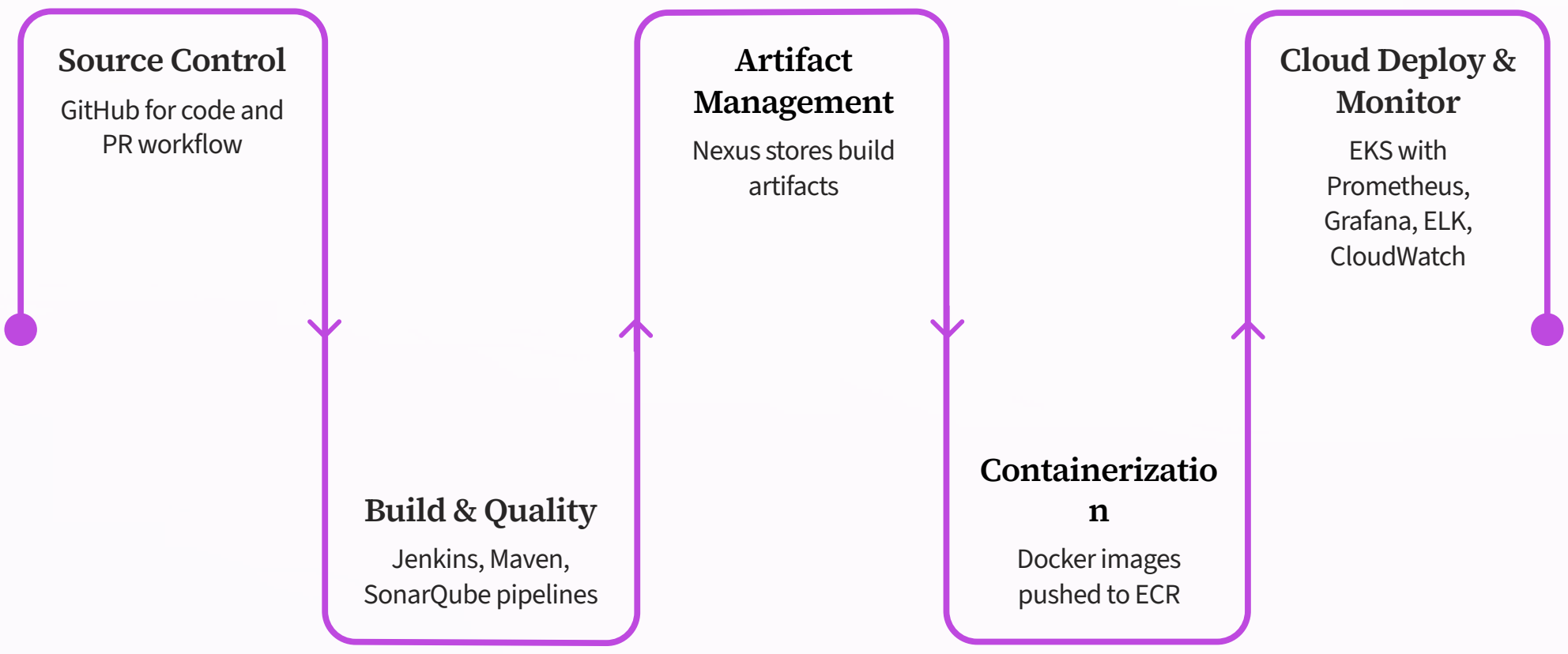
8+ hands-on projects covering CI/CD, Jenkins, Nexus, Docker, Kubernetes, Terraform, AWS hosting, and monitoring setup.

8+ Hands-On Projects

- Git + CI/CD Pipeline
- Jenkins Automation & Shared Libraries
- Nexus Integration & Artifact Management
- Docker Deployment & Container Registry
- Kubernetes Microservices Deployment
- Terraform Infrastructure Automation
- AWS Hosting & Multi-Tier Architecture
- Monitoring Setup (ELK + Prometheus + Grafana)

Enterprise DevOps Architecture & Placement

End-to-End CI/CD Pipeline on AWS



This architecture represents the full enterprise DevOps lifecycle on AWS — from source control and automation to container orchestration, observability, and production delivery. It is the exact end-to-end workflow you will implement in real-time projects.

1

Source

Code commit in GitHub

2

Build

Jenkins, Maven, and SonarQube

3

Deliver

Nexus, Docker, ECR, and EKS

4

Observe

Prometheus, Grafana, ELK, and CloudWatch

Final Capstone

Build a complete enterprise DevOps architecture on AWS that connects source code, CI/CD automation, artifact governance, container orchestration, and production monitoring into one production-ready platform.

✓ 8+ Real-Time Projects covering CI/CD, Docker, Kubernetes, Terraform, AWS infrastructure, monitoring, and security.

YOUR JOB, OUR PRIORITY — Become a Future-Ready DevOps · Cloud · Automation Engineer

We provide training from fundamentals to advanced DevOps concepts, helping you build strong technical knowledge and practical industry skills. With expert guidance, real-time projects, and career support, we prepare you to become job-ready for high-demand technology roles.

Become

- Cloud Engineer
- DevOps Engineer
- AI Automation Engineer

Training Benefits

- Daily practical sessions and hands-on labs
- Real-time industry troubleshooting
- Mock interviews and resume preparation
- LinkedIn optimization and job portal preparation

Placement Support

- Resume building and LinkedIn optimization
- Mock technical interviews and real scenario preparation
- Placement assistance with product-based companies
- Interview Support (Proxy / Prompt) — No Advance
- AI Tools Support — No Advance
- Backdoor Process — No Advance
- After placement: 1 month take-home salary payable as per offer letter

Work Support After Placement

- Project support and task guidance
- Production issue assistance
- DevOps work support on the job
- Monthly chargeable based on tasks

Contact Information

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