

# SRE WITH DEVOPS

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## PRIME TOOLS WE COVER

◆ LINUX ◆ AWS ◆ TERRAFORM ◆ KUBERNETES ◆ ARGOCD ◆ GITLAB  
◆ SPLUNK/KIBANA ◆ PROMETHEUS ◆ DOCKER ◆ ANSIBLE  
◆ OPENSIFT ◆ ISTIO ◆ GRAFANA ◆ GIT ◆ PYTHON



# Program

## Highlights



### **Learning Notes for each Session!**

We deliver learning notes after each online session for quick recap of important points and steps.



### **SRE Interview Preparation (SIP)**

We conduct Interview Preparation sessions to deliver Tips & Tricks to crack the Interviews.



### **Whatsapp & Web Portal for technical support**

We are available ONLINE to provide technical support on Whatsapp and web portal support.



### **5 real-time projects**

We conduct 5 Real-Time Capstone Projects to deliver how DevOps integration works in real-time, which you can use in Interviews.



### **Weekly assignments with Solution Document**

We assign problem statements on every FRIDAY that helps to improve the technical integrations and hands on experience.



### **One year access to Videos**

One year access to live classes and recordings.



### **Resume preparation**

We help you in RESUME preparation based on your skills and experience.



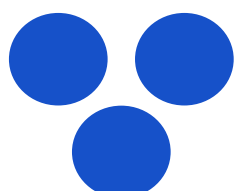
### **Mock interviews**

We take MOCK INTERVIEWS and provide you feedback which helps you how to prepare for real interviews.



### **1:1 Meeting**

You can have a 1:1 meeting to discuss your career path and guidance on how to prepare your resume.



# Capstone Projects



## AWS Infrastructure & Automation

Setup AWS 3-Tier Architecture using Terraform Automation.

### Technologies Used:

AWS(EC2, RDS, S3, ELB, ASG etc..), Ansible, Terraform.



## CI/CD Pipeline Automation

Build and Deploy Microservices into Kubernetes cluster

### Technologies Used:

GitLab, Kubernetes, ArgoCD, AWS ECR



## Microservices Architecture

Planning, Design, Deployment of Microservices Architecture

### Technologies Used:

Kubernetes, Spring boot, ReactJs, API Gateway, Eureka Registry, MySQL, Kafka, S3 etc..



## Centralised Application Logging

Deploy Centralised Application Logging for Microservices

### Technologies Used:

Elasticsearch, Kibana, Fluentd



## Real-Time Application Monitoring

Deploy application monitoring and graphing.

### Technologies Used:

Grafana, Prometheus, Istio



# SRE/DEVOPS ESSENTIALS

## WEB APPLICATION DEPLOYMENTS

Learn web application architecture and how to run static HTML on AWS EC2 instances. Learn TOMCAT application server installation, configuration and run JAVA applications on TOMCAT containers.

**TOOLS COVERED:** APACHE HTTP WEB SERVER, MAVEN, TOMCAT

## SOURCE CODE MANAGEMENT

Learn different branching strategies and code promotion, review process to develop the application source. Learn developer collaborative methods, Code Reviews, distributed source code repository management.

**TOOLS COVERED:** GIT, GITLAB, GITHUB

## ARTIFACT MANAGEMENT

Learn how to store version controlled MAVEN, DOCKER, build artifacts.

**TOOLS COVERED:** GITLAB, DockerHub, ECR

## SYSTEM PROVISIONING & CONFIGURATION MANAGEMENT

Learn how to automate system configuration provisioning methods and writing Ansible role definitions and playbooks using YAML.

**TOOLS COVERED:** YAML, ANSIBLE

## MICROSERVICES ORCHESTRATION

Learn the ways to orchestrate microservices using Kubernetes. Learn design, installation, architecture, creating deployment, services, ingress, KUBERNETES resources.

**TOOLS COVERED:** DOCKER, KUBERNETES, OPENSIFT

## INTEGRATION & DEPLOYMENT AUTOMATION

Learn how to create CI/CD pipelines to automate the application build and deployments. Learn how to install, configure dynamic GitLab Runner agents to run jobs at scale.

**TOOLS COVERED:** GitLab, ArgoCD, KUBERNETES, JENKINS

## MONITORING & LOGGING

Learn how to set up continuous application logging and monitoring to track real time application behaviour and resource utilisation patterns.

**TOOLS COVERED:** GRAFANA, PROMETHEUS, FLUENTD, ELASTICSEARCH, CLOUDWATCH, SPLUNK/KIBANA

## DATA STORAGE METHODS & MESSAGE STREAMING

Learn how to store & encrypt the data at rest and handle Real-Time message streaming application integrations.

**TOOLS COVERED:** MYSQL, AWS S3, KAFKA

## OBSERVABILITY & SERVICE MESH

Learn how to understand the microservices dependency and service failures using service mesh ISTIO and analyse traffic management.

**TOOLS COVERED:** ISTIO

# AGILE PROCESS

## PROCESS MANAGEMENT

Learn how to plan, measure and implement the Real-Time daily activities in association with multiple dependency teams like SRE, Software Developer, Platform Engineer, DevOps Engineers.

TOOLS COVERED: JIRA

### PROGRAM DETAILS & REGISTRATION PROCESS

#### PROGRAM DURATION & FORMAT

100 DAYS | MON TO FRI (DAILY 2 HOURS) | ONLINE

#### PROGRAM FEE

INR 30,000

#### DEMO DATE

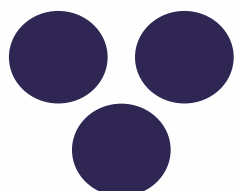
02ND DECEMBER 2023 - 07:00 AM IST

#### PROGRAM START DATE

04TH DECEMBER 2023 - 07:00 AM IST

#### ELIGIBILITY

BACHELOR DEGREE



FLAIR TECHNOLOGIES Was Founded In 2014  
With The Mission To Provide High-Quality  
Offline Training On AWS Cloud. Despite Facing  
Challenges Due To Full-Time Commitments,  
Our Enthusiasm For Teaching Never Waned.

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**Call Us Now**

**Our Location**  
**Bengaluru, India**