

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Info

soft it solutions Software Training& Development 905968394,918254087

GCP SERVER LESS COMPUTING

Introduction to Serverless Computing

- Overview of serverless architecture
- Benefits of serverless computing
- Comparison with traditional computing models

Google Cloud Functions

- Introduction to Cloud Functions
- Use cases and best practices
- Writing and deploying functions
- Triggering functions with events

Google Cloud Run

- Overview of Cloud Run
- Deploying containerized applications
- Managing traffic and scaling
- Integrating with other GCP services

Google App Engine

- Introduction to App Engine
- Standard vs. Flexible environments
- Deploying applications
- Scaling and monitoring

Event-Driven Architectures

- Event sources in GCP
- Pub/Sub for messaging
- Event-driven workflows with Cloud Functions and Cloud Run

Data Processing

- Serverless data processing with Dataflow
- Integrating with BigQuery and Cloud Storage
- Streaming and batch processing

Serverless APIs

- Building APIs with Cloud Functions and Cloud Run
- API Gateway integration
- Authentication and security

Advanced Cloud Functions

- Writing complex functions
- Optimizing performance and cold starts
- Error handling and retries
- Integrating with third-party APIs

Deep Dive into Cloud Run

- Advanced configurations and settings
- Handling high concurrency and traffic
- Custom domains and SSL certificates
- Continuous deployment with Cloud Build

App Engine Advanced Features

- Custom runtimes
- Traffic splitting and versioning
- Task queues and cron jobs
- Managing application state and scaling

Event-Driven Architectures

- Advanced Pub/Sub patterns
- Integrating with Cloud Tasks and Cloud Scheduler
- Orchestrating workflows with Workflows API
- Best practices for event-driven design

Data Processing at Scale

- Complex data pipelines with Dataflow
- Stream processing and windowing
- BigQuery and Cloud Storage optimizations
- Data cleansing and transformation

Serverless Machine Learning

- Using AI and ML APIs in serverless applications
- Building serverless ML pipelines with AI Platform

Security and Compliance

- Advanced IAM configurations
- VPC Service Controls for serverless applications
- Secrets management with Secret Manager
- Compliance considerations and best practices