INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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GCP [GOOGLE CLOUD PLATFORM] CERTIIFICATION

Introduction to Google Cloud

- Overview of GCP
- Setting up a Google Cloud account
- Navigating the Google Cloud Console
- Understanding projects, billing, and resource management

Compute Services

- **Compute Engine**
  - VM instances
  - Instance groups
  - Load balancing
  - Autoscaling
- **App Engine**
  - Standard vs. Flexible environments
  - Application deployment
  - Scaling applications
- **Kubernetes Engine (GKE)**
  - Cluster setup
  - Deploying containers
  - Managing workloads

Storage and Databases

- **Cloud Storage**
  - Buckets and objects
  - Lifecycle management
  - Security and permissions
- **Cloud SQL**
  - MySQL and PostgreSQL setup
  - Database administration
  - High availability
- **Cloud Spanner**
  - Schema design
  - Transactions and queries
- **Cloud Firestore & Bigtable**
  - NoSQL database setup
  - Data modeling

Networking

- **VPC Networking**
  - VPC and subnets
  - IP address management
  - Firewall rules
- **Hybrid Connectivity**
  - Cloud VPN
  - Interconnect
- **Network Services**
  - Cloud Load Balancing
  - Cloud CDN
  - Cloud DNS

Security and Identity Management

- **Identity and Access Management (IAM)**
  - Roles and permissions
  - Service accounts
- **Security Services**
  - Cloud Security Command Center
  - Data Loss Prevention
- **Best Practices**
  - Network security
  - Data encryption

Data Analytics and Machine Learning

- **BigQuery**
  - Data warehouse concepts
  - Writing SQL queries
  - Managing datasets
- **Dataflow**
  - Streaming and batch data processing
- **AI and ML Services**
  - AI Platform
  - Pre-trained models (Vision, Natural Language, etc.)
  - Building custom models

DevOps and Monitoring

- **Cloud Build**
  - CI/CD pipelines
  - Automated testing
- **Deployment Manager**
  - Infrastructure as Code (IaC)
  - Templates and configuration files
- **Monitoring and Logging**
  - Stackdriver (Monitoring, Logging, Error Reporting)
  - Alerts and dashboards