Google Associate Cloud Engineer (GCP-ACE)

Duration: 2 Months (30 hrs.)

1. **Setting a cloud solution environment**

   - Setting up cloud projects and accounts
   - Managing billing configuration
   - Installing and configuring the command-line interface (CLI) (Cloud SDK)

2. **Planning and configuring a cloud solution**

   - Planning and estimating GCP product use using the Pricing Calculator
   - Planning and configuring compute resources
   - Planning and configuring data storage options
   - Planning and configuring network resources

3. **Deploying and implementing a cloud solution**

   - Deploying and implementing Compute Engine resources
   - Deploying and implementing Google Kubernetes Engine resources
   - Deploying and implementing App Engine, Cloud Run, and Cloud Functions resources
   - Deploying and implementing data solutions
   - Deploying and implementing networking resources
   - Deploying a solution using Cloud Marketplace
   - Deploying application infrastructure using Cloud Deployment Manager

4. **Ensuring a successful operation of a cloud solution**

- Managing Compute Engine resources
- Managing Google Kubernetes Engine resources
- Managing App Engine and Cloud Run resources
- Managing storage and database solutions
- Managing networking resources
- Monitoring and logging

5. **Configuring access and security**

- Managing identity and access management (IAM)
- Managing service accounts
- Viewing audit logs for the project and managed services

Course Projects:

- **Project1: Website Hosting on Linux Server**

  Create and host a website on a Linux Server machine with a static IP Address

- **Project 2: Custom Private Network Creation**

  Create a private network with public and private subnets on two availability zones

- **Project3: Database Server Creation**

  Create and maintain a Linux RDS Server

- **Project4: Auto-scaling Configuration**

  Launch two servers and configure a load balancer and auto-scaling

Contact Us

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