Google Cloud Certified – Professional Cloud Architect

Course Overview

This three-day instructor-led class is designed to help IT professionals prepare for the Google Certified Professional – Cloud Architect Certification Exam.

This Track Includes:
1. Architecting with Google Cloud Platform – Design & Process – 2 Days
2. Preparing for the Professional Cloud Architect Examination – 1 Day

1. Architecting with Google Cloud Platform – Design & Process

This two-day instructor-led class equips students to build highly reliable and efficient solutions on Google Cloud Platform, using proven design patterns and the principles of Google Site Reliability Engineering(SRE). It is a continuation of the Architecting with Google Cloud Platform: Infrastructure course and assumes hands-on experience with the technologies covered in that course.

Through a combination of presentations, demos, and hands-on labs, participants learn to design GCP deployments that are highly reliable and secure; and how to operate GCP deployments in a highly available and cost-effective manner.

2. Preparing for the Professional Cloud Architect Examination

The purpose of this course is to help those who are qualified develop confidence to attempt the exam, and to help those not yet qualified to develop their own plan for preparation.

Course Objectives

- **Architecting with Google Cloud – Design & Process**
- Identify the purpose and value of Google Cloud Platform products and services
- Interact with Google Cloud Platform services
- Describe ways in which customers have used Google Cloud Platform
- Choose among and use application deployment environments on Google Cloud Platform: Google App Engine, Google Kubernetes Engine, and Google Compute Engine
- Choose among and use Google Cloud Platform storage options: Google Cloud Storage, Google Cloud SQL, Google Cloud Bigtable, and Google Cloud Datastore
- Make basic use of BigQuery, Google's managed data warehouse for analytics
- Make basic use of Cloud Deployment Manager, Google's tool for creating and managing cloud resources through templates
- Make basic use of Google Stackdriver, Google's monitoring, logging, and diagnostics system

2. Preparing for the Professional Cloud Architect Examination.
- Position the Professional Cloud Architect Certification
- Provide information, tips, and advice on taking the exam
- Review the sample case studies
- Review each section of the exam covering highest-level concepts sufficient to build confidence in what is known by the candidate and indicate skill gaps/areas of study if not known by the candidate
- Connect candidates to appropriate target learning.

Target Audience

- Cloud Solutions Architects, Site Reliability Engineers, Systems Operations professionals, DevOps Engineers, IT managers.

Prerequisites

- Completed Architecting with Google Cloud Compute Engine or have equivalent experience
- Systems Operations experience including deploying and managing applications, either on-premises or in a public cloud environment

Certifications

Attending this course meets the training requirement to achieve the following certification:

- Google Cloud Certified – Professional Cloud Architect

Course Modules

1. Architecting with Google Cloud Platform – Design & Process

- Module 1: Defining the Service
- Module 2: Business-logic layer design
- Module 3: Data layer design
- Module 4: Presentation layer design
- Module 5: Design for resiliency, scalability, and disaster recovery
- Module 6: Design for security
- Module 7: Capacity planning and cost optimization
- Module 8: Deployment, monitoring and alerting, and incident response

2. Preparing for the Professional Cloud Architect Examination

- Module 1: Understanding the Professional Cloud Architect Certification
- Module 2: Sample Case Studies
- Module 3: Designing and Implementing
- Module 4: Optimizing and Operating
- Module 5: Next Steps

Contact

If you have questions or need help registering for this course, click here.

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