

Architecting with Google Cloud: Design and Process

Code:	GCP-DP
Length:	2 days
URL:	View Online

This course features a combination of lectures, design activities, and hands-on labs to show you how to use proven design patterns on Google Cloud to build highly reliable and efficient solutions and operate deployments that are highly available and cost-effective. This course was created for those who have already completed the Architecting with Google Compute Engine or Architecting with Google Kubernetes Engine course.

Skills Gained

This course teaches participants the following skills:

- Apply a tool set of questions, techniques and design considerations
- Define application requirements and express them objectively
- as KPIs, SLO's and SLI's
- Decompose application requirements to find the right microservice boundaries
- Leverage Google Cloud developer tools to set up modern, automated deployment pipelines
- Choose the appropriate Google Cloud Storage services based
- on application requirements
- Architect cloud and hybrid networks
- Implement reliable, scalable, resilient applications balancing
- key performance metrics with cost
- Choose the right Google Cloud deployment services for your applications
- Secure cloud applications, data and infrastructure
- Monitor service level objectives and costs using Stackdriver tools

Who Can Benefit

This class is intended for the following participants:

- Cloud Solutions Architects, Site Reliability Engineers, Systems Operations professionals, DevOps Engineers, IT managers
- Individuals using Google Cloud to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud

Prerequisites

To get the most out of this course, participants should have:

- Have completed Architecting with Google Compute Engine, Architecting with Google Kubernetes Engine, or have equivalent experience
- Have basic proficiency with command-line tools and Linux operating system environments
- Have systems operations experience, including deploying and managing applications, either on-premises or in a public cloud environment

Course Details

Course Outline

- Defining the Service
- Microservice Design and Architecture
- DevOps Automation
- Choosing Storage Solutions
- Google Cloud and Hybrid Network Architecture
- Deploying Applications to Google Cloud
- Designing Reliable Systems
- Security
- Maintenance and Monitoring

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