

Google Cloud Fundamentals: Big Data and Machine Learning

1. Introducing Google Cloud Platform

- Google Platform Fundamentals Overview
- Google Cloud Platform Data Products and Technology
- Usage scenarios

2. Compute and Storage Fundamentals

- CPUs on demand (Compute Engine)
- A global filesystem (Cloud Storage)
- CloudShell

3. Data Analytics on the Cloud

- Stepping-stones to the cloud
- CloudSQL: your SQL database on the cloud
- Lab: Importing data into CloudSQL and running queries
- Spark on Dataproc

4. Scaling Data Analysis

- Fast random access
- Datalab
- BigQuery
- Machine Learning with TensorFlow
- Fully built models for common needs

5. Data Processing Architectures

- Message-oriented architectures with Pub/Sub
- Creating pipelines with Dataflow
- Reference architecture for real-time and batch data processing

6. Summary

- Why GCP?
- Where to go from here
- Additional Resources