Cloud Logging

Fundamental 5 Steps 5 hours 23 Credits

Cloud Logging is a fully managed service that performs at scale. It can ingest application and system log data from thousands of VMs and, even better, analyze all that log data in real time. In this fundamental-level Quest, you learn how to store, search, analyze, monitor, and alert on log data and events from Google Cloud. The labs in the Quest give you hands-on practice using Cloud Logging to maximize your learning experience and provide insight on how you can use Cloud Logging to your own Google Cloud environment.

Infrastructure

Prerequisites:

Students enrolling in this Quest will benefit from prior experience via the labs in the Google Cloud Essentials Quest or the Google Cloud's Operations Suite Quest.

Quest Outline

Fundamentals of Cloud Logging

In this hands-on lab, you learn how to use Cloud Logging to accumulate application logs in a single place, filter to reach the required log, understand how to create logs based metrics for advanced analysis, examine the audit logs use case, and export logs for compliance and/or advanced analysis needs.

1 hour	Fundamental	5 Credits

Using BigQuery and Cloud Logging to Analyze BigQuery Usage

In this lab you view the BigQuery logs inside Cloud Logging, set up a sink to export them back into BigQuery, and then use SQL to analyze the logs.

45 minutes	Introductory	1 Credit

Cloud Logging on Kubernetes Engine

In this lab you will deploy a sample application to Kubernetes Engine that forwards log events to Cloud Logging.

45 minutes	Fundamental	5 Credits

Monitoring and Logging for Cloud Functions

In this hands-on lab we take a look through some of the information provided by the Cloud Monitoring tools, and teach some of the concepts you will need to know to take advantage of Cloud Monitoring effectively.

45 minutes	Fundamental	5 Credits

Creating and Alerting on Logs-based Metrics

In this hands-on lab we take a look through some of the information provided by the Cloud Monitoring tools, and teach some of the concepts you will need to know to take advantage of Cloud Monitoring effectively.

45 minutes	Advanced	7 Credits

Quest Complete!

Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.