

Google Cloud's Operations Suite

Fundamental 6 Steps 6 hours 30 Credits

In this fundamental-level quest, you will learn the ins and outs of Google Cloud's operations suite, an important service for generating insights into the health of your applications. It provides a wealth of information in application monitoring, report logging, and diagnoses. The labs in this quest will give you hands-on practice with and will teach you how to monitor virtual machines, generate logs and alerts, and create custom metrics for application data. It is recommended that the students have at least earned a Badge by completing the Google Cloud Essentials Quest. Additional lab experience with the labs in the Baseline - Infrastructure Quest will also be useful.

Prerequisites:

This quest will teach you the basics and advanced features incrementally, but hands-on experience with Google Cloud's core computing and infrastructure services is required before taking labs in this series.

Quest Outline

- Lab

Cloud Monitoring: Qwik Start

(https://google.qwiklabs.com/focuses/10599?parent=catalog)

This lab shows you how to monitor a Google Compute Engine virtual machine (VM) instance with Cloud Monitoring. Watch the short videos Monitor Health of All Your Cloud Apps with Google Cloud monitoring (https://youtu.be/rGMimov8MPg) and Monitor a VM Instance with Cloud monitoring, GCP Essentials (https://youtu.be/ZuUZQfCmA7Y).

(https://google.qwiklabs.com/focuses/10599/reviews?parent=catalog)

50 minutes

Introductory

1 Credit

Lab

Monitoring Multiple Projects with Cloud Monitoring

(https://google.qwiklabs.com/focuses/621?parent=catalog)

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.

(https://google.qwiklabs.com/focuses/621/reviews?parent=catalog)

45 minutes

Fundamental

5 Credits

Lab

Monitoring and Logging for Cloud Functions

(https://google.qwiklabs.com/focuses/1833?parent=catalog)

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.

(https://google.qwiklabs.com/focuses/1833/reviews?parent=catalog)

45 minutes

Fundamental

5 Credits

Lab

Reporting Application Metrics into Cloud Monitoring

(https://google.qwiklabs.com/focuses/1259?parent=catalog)

In this lab you will run an application on Compute Engine instance and report the application's metrics into Cloud Monitoring using the OpenCensus library.

(https://google.qwiklabs.com/focuses/1259/reviews?parent=catalog)

1 hour

Fundamental

5 Credits

Unenroll

You can unenroll from a quest at any time. You will lose any lab progress, but you won't be working toward a badge.

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Creating and Alerting on Logs-based Metrics

(https://google.qwiklabs.com/focuses/619?parent=catalog)

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

Autoscaling an Instance Group with Custom Cloud Monitoring Metrics

(https://google.qwiklabs.com/focuses/611?parent=catalog)

This lab describes how to deploy an autoscaling Compute Engine instance group that is automatically scaled using a custom Cloud monitoring metric

(https://google.qwiklabs.com/focuses/611/reviews?parent=catalog) 45 minutes Advanced 7 Credits