



Logging, Monitoring, and Observability in Google Cloud



For in-person training, cover instructor and student introductions if appropriate

Introductions

Background

Position

Organization



In this class, you will:

- Plan and implement a well-architected logging and monitoring architecture
- Measure and avoid customer pain with Service Level Indicators (SLIs) and Service Level Objectives (SLOs)
- Visualize cloud health with dashboards
- Construct automated alerts
- Monitor, troubleshoot, and improve Google Cloud infrastructure
- Write, analyze, and export Google Cloud logs
- Find code defects, identify bottlenecks, and improve performance of production code
- Optimize monitoring costs

Agenda — Day 1

Module		Lab
01	Introduction to Google Cloud Monitoring Tools	<ul style="list-style-type: none">• Product Knowledge
02	Avoiding Customer Pain	<ul style="list-style-type: none">• Postmortem Review• Develop SLIs and SLOs
03	Monitoring Critical Systems	<ul style="list-style-type: none">• Monitoring and Dashboarding Multiple Projects from a Single Workspace

Agenda — Day 2

Module		Lab
04	Alerting Policies	<ul style="list-style-type: none">• Alerting in Google Cloud• Service Monitoring
05	Advanced Logging and Analysis	<ul style="list-style-type: none">• Log Analysis
06	Working with Audit Logs	<ul style="list-style-type: none">• Cloud Audit Logs
07	Configuring Google Cloud Services for Observability	<ul style="list-style-type: none">• Compute Logging and Monitoring

Agenda — Day 3

Module		Lab
08	Monitoring the Google Cloud VPC	<ul style="list-style-type: none">Analyzing Network Traffic with VPC Flow Logs (optional)
09	Managing Incidents	<ul style="list-style-type: none">N/A
10	Investigating Application Performance Issues	<ul style="list-style-type: none">Application Performance Management
11	Optimizing the Costs of Monitoring	<ul style="list-style-type: none">Billing Fun (demo)

Facilities



Parking



Facilities



Food

Course etiquette



Please silence
your phone and if
online, keep your
microphone on
mute



Recording
this class
is prohibited



Ask questions
interactively or
via chat

Audience and prerequisites

Target Audiences

- Cloud architects, administrators, and SysOps personnel
- Cloud developers and DevOps personnel

Prerequisites

- [Google Cloud Platform Fundamentals: Core Infrastructure](#) or equivalent experience
- Basic scripting or coding ability
- Proficiency with command-line tools and Linux operating system environments

Qwiklabs Instructions

Lab environment



For each lab, Qwiklabs offers:

- A free set of resources for a fixed amount of time
- A clean environment with required permissions



This course includes interactive hands-on labs through the Qwiklabs platform.

Qwiklabs provisions you with Google account credentials, so you can access the GCP Console for each lab at no cost. Specifically, for each lab, Qwiklabs offers:

- A free set of resources for a fixed amount of time
- A clean environment with permissions

Open Qwiklabs

1

Open an incognito window

(or private/anonymous window)
(or choose the “**Guest**” user within Chrome)

Go to

2

googlecloud.qwiklabs.com

(or URL provided by instructor)

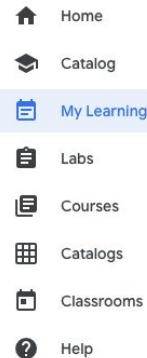
3

Sign In with existing account or **Join** with
new account (with email you used to
register for the course today!)



4

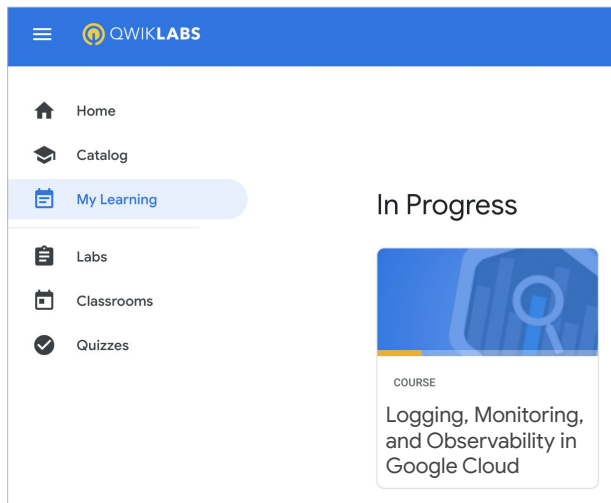
Launch the course from **My Learning**



Let's go ahead and open Qwiklabs:

1. **Open an incognito window** (or private/anonymous window). Use of an incognito browser window reduces the risk that you will accidentally do the labs using your own GCP account rather than Qwiklabs'.
2. **Go** to events.qwiklabs.com.
3. **Sign In** with existing account or **Join** with new account (with email you used to register for the bootcamp).
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get added and then refresh
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