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Managing Cloud Instances at Scale

(D) 1h 6m of videos left (E) 30 min of readings left (E) 1 graded assessment left

In this module, you'll learn all about storing data in the cloud. You'll rundown the different types of storage available, like block storage and object storage, and how they differ. You'll explore load balancing further and dive into some load balancing techniques, like roundrobin DNS and sticky sessions. Next, you'll dive into change management, including the different ways to test your changes and how to push them. You'll explore different testing methods, like unit tests and integration tests. You'll also cover continuous integration, the use of continuous deployment, and how to apply A/B testing. Next up, you'll look at some errors you might encounter along the way, like quotas or limits, and how best to avoid or prepare for these. In the next lesson, you'll get an understanding of monitoring and altering, and review some systems that offer it. You'll then dive into the concept of SLA's and how to set achievable ones. Next, you'll look at basic monitoring in GCP, and create altering policies, set up conditions, and choose aggregators to manage the data. The last lesson will explore troubleshooting and debugging our systems. You'll learn how to troubleshoot and debug remotely, understand. techniques for how to identify where the failure is coming from, and how to recover from a failure when it strikes.

Learning Objectives

- Understand and explain the different types of storage available
- Explain the difference between round robin DNS and sticky sessions
- List the different types of integration testing that are available
- Understand and explain the concept of SLAs
- Troubleshoot and debug a system without being physically present
- Understand what a rollback is and how they can help in a system failure
- Understand how primary and secondary instances can help in a disaster recovery situation

↑ Hide Learning Objectives

∨ Building Software for the Cloud

Intro to Module 4: Managing Cloud Instances at Scale Video • 2 min