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Google Cloud

Google Cloud

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Apply your skills in Google Cloud console



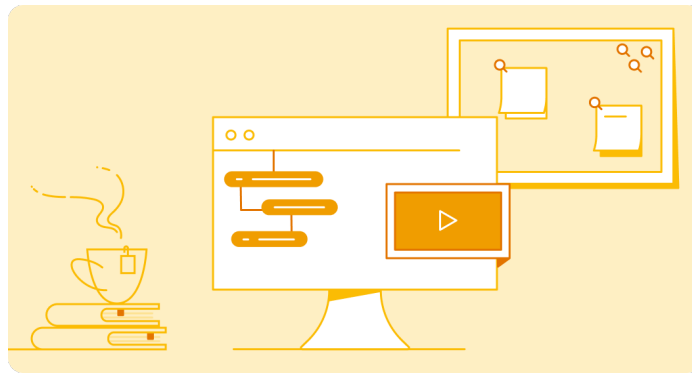
DevOps Engineer, SRE Learning Path

A DevOps Engineer is responsible for defining and implementing best practices for efficient and reliable software delivery and infrastructure management.

school 14 activities update Last updated 3 days person Managed by Google Cloud

A DevOps Engineer is responsible for defining and implementing best practices for efficient and reliable software delivery and infrastructure management. This learning path guides you through a curated collection of on-demand courses, labs, and skill badges that provide you with real-world, hands-on experience using Google Cloud technologies essential to the DevOps Engineer role. Once you complete the path, check out the Google Cloud DevOps Engineer certification to take the next steps in your professional journey.

[Start learning path](#)



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01 A Tour of Google Cloud Hands-on Labs

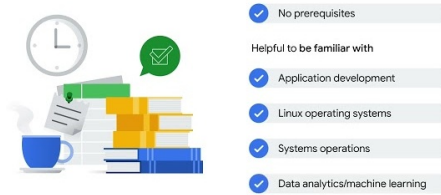
book Lab

access_time 45 minutes

show_chart Introductory

In this first hands-on lab you will access the Google Cloud console and use these basic Google Cloud features: Projects, Resources, IAM Users, Roles, Permissions, and APIs.

Start lab



(/paths/20/course_templates/60)

02 Google Cloud Fundamentals: Core Infrastructure

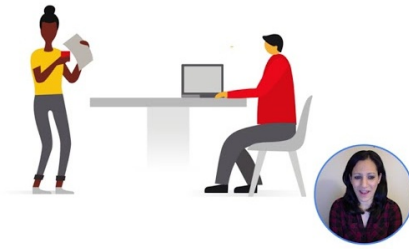
book Course

access_time 5 hours

show_chart Introductory

Google Cloud Fundamentals: Core Infrastructure introduces important concepts and terminology for working with Google Cloud. Through videos and hands-on labs, this course presents and compares many of Google Cloud's computing and storage services, along with important resource and policy management...

Start course



(/paths/20/course_templates/95)

03 Developing a Google SRE Culture

book Course

access_time 8 hours

show_chart Introductory

In many IT organizations, incentives are not aligned between developers, who strive for agility, and operators, who focus on stability. Site reliability engineering, or SRE, is how Google aligns incentives between development and operations and does mission-critical production support. Adoption...

Start course

Choose the best storage and deployment services
using objective criteria



(/paths/20/course_templates/41)

04 Reliable Google Cloud Infrastructure: Design and Process

book Course

access_time 14 hours

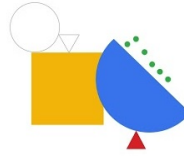
show_chart Advanced

This course equips students to build highly reliable and efficient solutions on Google Cloud using proven design patterns. It is a continuation of the Architecting with Google Compute Engine or Architecting with Google Kubernetes Engine courses and assumes hands-on experience...

Start course

Google Cloud

Logging and Monitoring
in Google Cloud



(/paths/20/course_templates/99)

05 Logging and Monitoring in Google Cloud

book Course

access_time 8 hours 30
minutes

show_chart Introductory

This course teaches participants techniques for monitoring and improving infrastructure and application performance in Google Cloud. Using a combination of presentations, demos, hands-on labs, and real-world case studies, attendees gain experience with full-stack monitoring, real-time log management and analysis, debugging...

Start course

Objectives

- 01 Install and manage Ops Agent to collect logs for Compute Engine
- 02 Use Google Cloud Managed Service for Prometheus
- 03 Analyze VPC Flow logs and Firewall Rules logs
- 04 Analyze resource utilization cost for monitoring related components within Google Cloud



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06 Observability in Google Cloud

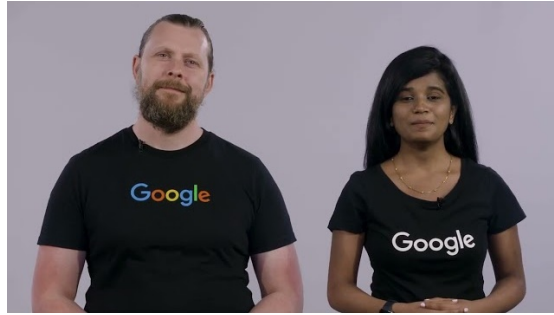
book Course

access_time 6 hours 30
minutes

show_chart Introductory

Welcome to the second part of the two part course, Observability in Google Cloud. This course is all about application performance management tools, including Error Reporting, Cloud Trace, and Cloud Profiler.

Start course



(/paths/20/course_templates/443)

07 Getting Started with Terraform for Google Cloud

book Course

access_time 6 hours 30
minutes

show_chart Introductory

This course provides an introduction to using Terraform for Google Cloud. It enables learners to describe how Terraform can be used to implement infrastructure as code and to apply some of its key features and functionalities to create and manage...

Start course

Course agenda

0	Course Introduction
1	Introducing Anthos



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08 DEPRECATED Cloud Operations and Service Mesh with Anthos

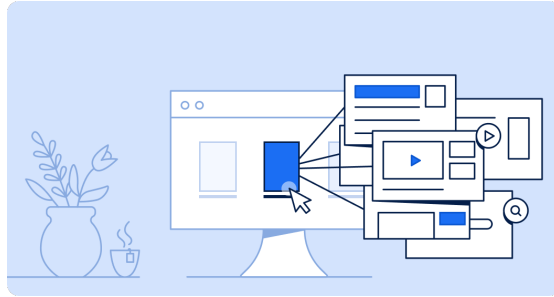
book Course

access_time 56 hours

show_chart Introductory

Course two of the Architecting Hybrid Cloud with Anthos series prepares students to operate and observe Anthos environments. Through presentations and hands-on labs, participants explore adjusting existing clusters, setting up advanced traffic routing policies, securing communication across workloads, and observing...

Start course



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09 Set Up an App Dev Environment on Google Cloud

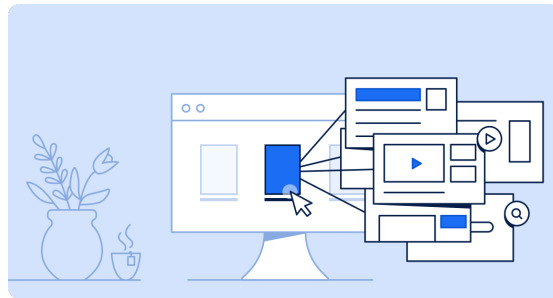
book Course

access_time 4 hours

show_chart Introductory

Earn a skill badge by completing the Set Up an App Dev Environment on Google Cloud course, where you learn how to build and connect storage-centric cloud infrastructure using the basic capabilities of the of the following technologies: Cloud Storage,...

Start course



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10 Implement DevOps Workflows in Google Cloud

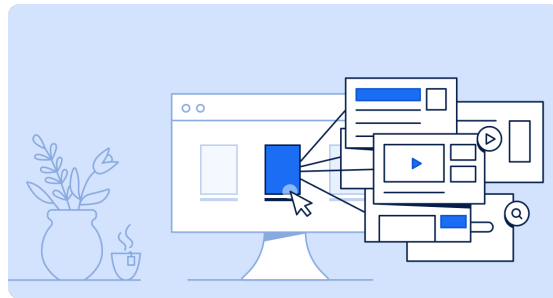
book Course

access_time 4 hours 45
minutes

show_chart Intermediate

Complete the intermediate Implement DevOps Workflows in Google Cloud skill badge to demonstrate skills in the following: creating git repositories with Cloud Source Repositories, launching, managing, and scaling deployments on Google Kubernetes Engine (GKE), and architecting CI/CD pipelines that automate...

Start course



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11 Using DevSecOps in your Google Cloud Environment

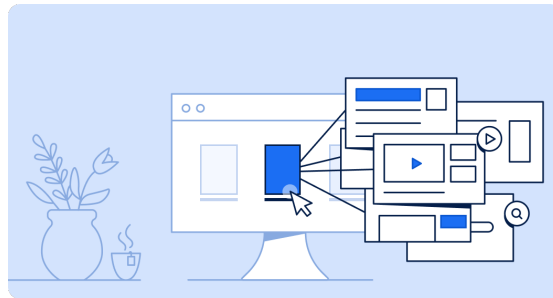
book Course

access_time 4 hours 45
minutes

show_chart Intermediate

In this course, you will learn the basic skills to implement secure and efficient DevSecOps practices on Google Cloud. You'll learn how to secure your development pipeline with Google Cloud services like Artifact Registry, Cloud Build, Cloud Deploy, and Binary...

Start course



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12 Monitor and Log with Google Cloud Observability

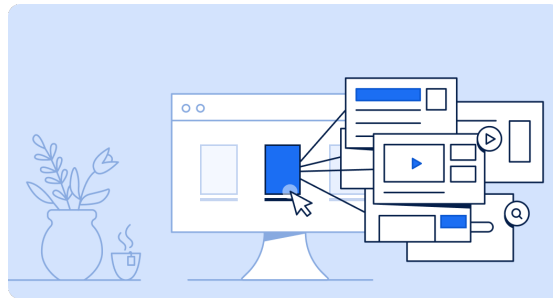
book Course

access_time 4 hours 15
minutes

show_chart Introductory

Complete the introductory Monitor and Log with Google Cloud Observability skill badge to demonstrate skills in the following: monitoring virtual machines in Compute Engine, utilizing Cloud Monitoring for multi-project oversight, extending monitoring and logging capabilities to Cloud Functions, creating and...

Start course



(/paths/20/course_templates/636)

13 Build Infrastructure with Terraform on Google Cloud

book Course

access_time 5 hours 15
minutes

show_chart Intermediate

Complete the intermediate Build Infrastructure with Terraform on Google Cloud skill badge to demonstrate skills in the following: Infrastructure as Code (IaC) principles using Terraform, provisioning and managing Google Cloud resources with Terraform configurations, effective state management (local and remote),...

Start course