

Getting Started with Google Kubernetes Engine (GCP-GSGKE)

ID GO-GCP-GSGKE Duración 1 día

Quién debería asistir

This class is intended for the following participants:

- Application developers, Cloud Solutions Architects, DevOps Engineers, IT managers.
- Individuals using Google Cloud Platform to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud Platform.

Prerrequisitos

To get the most out of this course, participants should have:

- Basic proficiency with command-line tools and Linux operating system environments, as well as Web server
- Systems Operations experience including deploying and managing applications, either on-premises or in a public cloud environment.

Objetivos del curso

At the end of the course, you will be able to:

- Understand container basics.
- Containerize an existing application.
- Understand Kubernetes concepts and principles.
- Deploy applications to Kubernetes using the CLI.
- Create continuous delivery pipelines using Spinnaker and/or Jenkins.

Contenido del curso

Module 1: Introduction to Containers and Docker

Acquaint yourself with containers, Docker, and the Google Container Registry.

- Create a container.
- Package a container using Docker.
- Store a container image in Google Container Registry.
- Launch a Docker container.

Module 2: Kubernetes Basics

Deploy an application with microservices in a Kubernetes cluster.

- Provision a complete Kubernetes cluster using Kubernetes Engine.
- Deploy and manage Docker containers using kubectl.
- Break an application into microservices using Kubernetes' Deployments and Services.

Module 3: Deploying to Kubernetes

Create and manage Kubernetes deployments.

- Create a Kubernetes deployment.
- Trigger, pause, resume, and rollback updates.
- Understand and build canary deployments.

Module 4: Creating a Continuous Delivery Pipeline

Build continuous delivery pipelines using Spinnaker and/or Jenkins.

- Provision Spinnaker or Jenkins in your Kubernetes cluster.
- Manage application code in a source repository that can trigger code changes to a continuous delivery pipeline.
- Create a continuous delivery pipeline and start it manually or automatically with a code change.
- Implement a canary deployment that hosts two versions of your application in production for release testing.

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