



Ideas and Value for Companies

## GETTING STARTED WITH GOOGLE KUBERNETES ENGINE

In this course, each module aims to build on your ability to interact with GKE, and includes hands-on labs for you to experience functionalities first-hand. In the first module, you'll be introduced to a range of Google Cloud services and features, with a view to helping you choose the right Google Cloud services to create your own cloud solution. You'll learn about creating a container using Cloud Build, and store a container in Container Registry. You'll also compare and contrast the features of Kubernetes and Google Kubernetes Engine, also referred to as GKE. In addition to conceptualizing the Kubernetes architecture, you'll deploy a Kubernetes cluster using GKE, deploy Pods to a GKE cluster, and view and manage Kubernetes objects.

Getting Started with Google Kubernetes Engine is part of the package to obtain the Cloud Architect certification. Below the other courses:

- Google Cloud Fundamentals: Core Infrastructure
- Architecting with Google Compute Engine
- Architecting with Google Cloud: Design and process
- Preparing for the Cloud Architect Professional Certification exam

# CONTENTS

The course focuses on the following macro contents:

## Course Introduction

In this module you will learn how to interact with this course.

## Introduction to Google Cloud

This module helps you start off with the right framework of concepts. After a review of fundamentals cloud computing, you will learn about how Google Cloud's resources around the world are organized into regions and zones. You'll also learn how you can organize the resources you use in Google Cloud, so that you can manage them. Finally, you'll meet the tools that let you connect to Google Cloud and allocate, change, and release resources.

## Introduction to Containers and Kubernetes

In this module you will learn about software containers and their benefits are for application deployment. You'll configure and build containers. You'll also learn about the functions container that management solutions like Kubernetes provide. You'll encounter the advantages of Google Kubernetes Engine compared to building your own container-management infrastructure.

## Kubernetes Architecture

In this module you'll learn the components of a Kubernetes cluster and how they work together. You'll deploy a Kubernetes cluster using Google Kubernetes Engine and deploy Pods to a GKE cluster. You'll also view and manage several very useful kinds of Kubernetes objects.

## Introduction to Kubernetes Workloads

In this module you'll learn the components that are used to manage Kubernetes workloads. You'll learn about the kubectl command and creating Kubernetes workloads called deployments. You'll examine networking services within Kubernetes and the different types of Kubernetes storage abstractions.



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### DISCOVER COURSE CATALOG

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