Getting Started with Google Kubernetes Engine (GKE)

Duration: 1 Day Course Code: GO6591 Delivery Method: Virtual Learning

Overview:

Discover Google Kubernetes Engine (GKE) on Google Cloud

This course covers an introduction to Kubernetes, a software layer that sits between your applications and your hardware infrastructure.
Google Kubernetes Engine (GKE) brings you Kubernetes as a managed service on Google Cloud.
This course teaches the basics of GKE and how to get applications containerized and running in Google Cloud.
The course covers as well a basic introduction to Google Cloud, an overview of containers and Kubernetes, Kubernetes architecture, and Kubernetes operations.

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Target Audience:

This class is intended forApplication developers, Ccloud solutions architects, DevOps engineers, IT managers, Individuals who use Google Cloud to create new solutions or to integrate existing systems, application environments, and infrastructure with Google Cloud.

Objectives:

- **At the end of the course, participants will be able to:**
- Discuss the differences among Google Cloud compute platforms.
- Discuss the components and architecture of Kubernetes.
- Identify how Google manages Kubernetes orchestration.
- Create and manage Google Kubernetes Engine clusters by using the Google Cloud console and the gcloud/kubectl commands.

Prerequisites:

- Having completed the course GO8324: Google Cloud Fundamentals: Core Infrastructure, or having equivalent experience
- Basic proficiency with command-line tools and Linux operating system environments

Testing and Certification

None

Content:

Module 1: Introduction to the course

Module 2: Introduction to Google Cloud

- Identify Google Cloud services and their functions.
- Choose the right Google Cloud services to create your own cloud solution.
- Define the purpose of and use cases for Identity and Access Management (IAM).
- Identify how costs can be managed in the resource hierarchy.
- Use the Google Cloud console and Cloud Shell to create virtual machines (VMs), service accounts, and buckets.
- Lab: Accessing the Google Cloud console and Cloud Shell

Module 3: Introduction to Containers and Kubernetes

- Define the concept of a container and identify uses for containers.
- Identify the purpose of and use cases for Kubernetes.
- Outline the concept of Google Kubernetes Engine.
- Create a container using Cloud Build.
- Lab: Working with Cloud Build

Module 4: Kubernetes Architecture

- Conceptualize the Kubernetes architecture.
- Identify how to view and manage Kubernetes objects.
- Distinguish between Google Kubernetes Engines modes of operation.
- Deploy a Kubernetes cluster by using GKE.
- Lab: Deploying GKE Autopilot clusters

Module 5: Kubernetes Operations

- Work with the kubectl command.
- Inspect the cluster and Pods.
- View a Pod's console output.
- Sign in interactively to a Pod.
- Lab: Deploying GKE Autopilot Clusters from Cloud Shell

Additional Information:

This course includes presentations and hands-on labs. Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on +1 (800) 268 7737

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