Getting started with Google kubernetes engine Training

Duration: **1 Day**

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Overview

In this training, you'll learn how to **containerize workloads with Docker**, deploy them to **Google Kubernetes Engine (GKE)**, and scale them to handle increased traffic. You'll also gain practical experience in setting up **continuous delivery pipelines** to automate application updates in Kubernetes clusters.

Prerequisites

- Basic Linux and command-line proficiency
- Understanding of web servers
- Systems operations experience (deploying and managing applications on-premises or in the cloud)

Who Should Attend

- Application developers
- Cloud Solutions Architects
- DevOps engineers
- IT managers
- Professionals building or integrating solutions on Google Cloud

What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Understand container basics
- Containerize existing applications with Docker
- Learn Kubernetes concepts and principles
- Deploy and manage applications using kubectl
- Create CI/CD pipelines with Spinnaker or Jenkins
- Implement canary deployments for safer releases

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Outline

Module 1: Introduction to Containers and Docker

- Introduction to containers and Docker
- Google Container Registry
- Create, package, store, and run Docker containers

Module 2: Kubernetes Basics

- Provision a cluster with Kubernetes Engine
- Manage containers with kubectl
- Break applications into microservices with Deployments & Services

Module 3: Deploying to Kubernetes

- Create and manage Kubernetes deployments
- Trigger, pause, resume, and rollback updates
- Implement canary deployment strategies

Module 4: Creating a Continuous Delivery Pipeline

- Provision Spinnaker or Jenkins in your cluster
- Integrate source code repositories with pipelines
- Create pipelines triggered by code changes
- Host multiple versions with canary deployments for release testing