Getting Started with Kubernetes and Google Container Engine Training

Duration: **1 Day**

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Overview

Learn to containerize workloads and deploy to clusters.

Learn to containerize workloads in Docker containers, deploy them to Kubernetes clusters provided by Google Container Engine, and scale those workloads to handle increased traffic. You also learn how to continuously deploy new code in a Kubernetes cluster to provide application updates.

Who Should Attend?

- 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

Prerequisites

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

What You Will Learn

This course teaches participants the following skills:

- Understand container basics
- Containerize an existing application
- Understand Kubernetes concepts and principles
- Deploy applications to Kubernetes using the CLI
- Set up a continuous delivery pipeline using Jenkins

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Outline

Module 1: Containers 101 and Docker

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

Module 2: Kubernetes and Google Container Engine Basics

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

Module 3: Deploying to Kubernetes

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

Module 4: Continuous Deployment with Jenkins

- Provision Jenkins in your Kubernetes cluster
- Create a Jenkins pipeline
- Implement a canary deployment using Jenkins