Google Cloud Developer
Developing Applications with Google Cloud

Google Cloud Platform is essentially a public cloud-based machine whose services are delivered to customers on an as-you-go basis, by way of service components. In this course, developers will learn how to design, develop, and deploy applications that seamlessly integrate components from the Google Cloud ecosystem. Through a combination of presentations, demos, and hands-on labs, participants learn how to use GCP services and pre-trained machine learning APIs to build secure, scalable, and intelligent cloud-native applications

You Must Know!

Duration:

40 Hours

Who should attend?

Developers who want to build cloud-native applications or redesign existing applications that will run on Google Cloud Platform

Prerequisites:

Working knowledge of Node.js, and Basic proficiency with command line tools and Linux operating system environments

Main Topics:

- o What is Cloud?
- o Core Infrastructure
- o Data Storage Options
- o Securing Your Application
- o Debugging
- o Deploying an Application
- o Monitoring and Tuning Performance

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Course Modules

Module 1 – Introduction to Cloud

- What is Cloud
- Why Cloud?
- Types of Cloud Deployment Models
- Types of Cloud Services
- Future of Cloud Technologies
- Advantages and Disadvantages of Cloud

Module 2 - Google Cloud Fundamentals - Core Infrastructure

- Introducing Google Cloud Platform
- Getting Started with Google Cloud Platform
- Google App Engine and Google Cloud Datastore
- Google Cloud Platform Storage Options
- Google Container Engine
- Google Compute Engine and Networking
- Big Data and Machine Learning

Module 3 - Best Practices for Application Development

- Google Cloud Client Libraries, Google Cloud SDK, and Google Firebase SDK
- Overview of Data Storage Options
- Best Practices for Using Cloud Datastore
- Performing Operations on Buckets and Objects
- Best Practices for Using Cloud Storage
- Securing Your Application
- Using Google Cloud Pub/Sub to Integrate Components of Your Application
- Adding Intelligence to Your Application
- Using Cloud Functions for Event-Driven Processing
- Using Cloud Endpoints to Deploy APIs
- Debugging Your Application by Using Google Stackdriver
- Deploying an Application by Using Google Cloud Container Builder, Google Cloud Container Registry, and Google Cloud Deployment Manager
- Execution Environments for Your Application
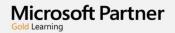- Monitoring and Tuning Performance

Module 4 – Lab

- Set up Google Client Libraries, Google Cloud SDK, and Firebase SDK on a Linux Instance
- Set Up Application Credentials
- Store Application Data in Cloud Datastore
- Store Files in Cloud Storage
- Authenticate Users by Using Firebase Authentication
- Develop a Backend Service to Process Messages in a Message Queue
- Deploy an API for Your Application
- Debugging an Application Error by Using Stackdriver Debugger and Error Reporting
- Use Deployment Manager to Deploy a Web Application into Google App Engine Flex Test and Production Environments
- Deploying Your Application on App Engine Flex
- Use Stackdriver Monitoring and Stackdriver Trace to Trace a Request Across Services, Observe, and Optimize Performance

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קמפוסים בפריסה ארצית:

תל אביב	רחובות	ירושלים	באר שבע
ראול ולנברג 36	רחוב אופנהיימר 5	רחוב יפו 34	רחוב האנרגיה 77
קריית עתידים	פארק המדע		פארק ההייטק