

CLS010: Google Cloud Fundamentals: Core Infrastructure

Overview:

This course uses lectures, demos, and hands-on labs to give you an overview of Google Cloud products and services so that you can learn the value of Google Cloud and how to incorporate cloud-based solutions into your business strategies.

Prerequisites:

Familiarity with application development, systems operations, Linux operating systems, and data analytics/machine learning is helpful in understanding the technologies covered.

Objectives:

- Identify the purpose and value of Google Cloud products and services. Interact with Google Cloud services.
- Describe ways in which customers have used Google Cloud.
- Choose among and use application deployment environments on Google Cloud: App Engine, Google Kubernetes Engine, and Compute Engine.
- Choose among and use Google Cloud storage options: Cloud Storage, Cloud SQL, Cloud Bigtable, and Firestore.
- Make basic use of BigQuery, Google's managed data warehouse for analytics.

Audience:

- Individuals planning to deploy applications and create application environments on Google Cloud.
- Developers, systems operations professionals, and solution architects getting started with Google Cloud.
- Executives and business decision makers evaluating the potential of Google Cloud to address their business needs.

Course Outline

The course includes presentations, demonstrations, and hands-on labs.

Module 1: Introducing Google Cloud Platform

- Explain the advantages of Google Cloud Platform.
- Define the components of Google's network infrastructure, including: Points of presence, data centers, regions, and zones.
- Understand the difference between Infrastructure-as-a-Service (IaaS) and Platform-as-a-Service (PaaS).

Module 2: Getting Started with Google Cloud Platform

- Identify the purpose of projects on Google Cloud Platform.
- Understand the purpose of and use cases for Identity and Access Management.
- List the methods of interacting with Google Cloud Platform.
- Lab: Getting Started with Google Cloud Platform.

Module 3: Google Compute Engine and Networking

- Identify the purpose of and use cases for Google Compute Engine.
- Understand the basics of networking in Google Cloud Platform.
- Lab: Deploying Applications Using Google Compute Engine.

Module 4: Google Cloud Platform Storage Options

- Understand the purpose of and use cases for: Google Cloud Storage, Google Cloud SQL, and Google Cloud Bigtable.
- Learn how to choose between the various storage options on Google Cloud Platform.
- Lab: Integrating Applications with Google Cloud Storage.

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Module 5: Google Container Engine

- Define the concept of a container and identify uses for containers.
- Identify the purpose of and use cases for Google Container Engine and Kubernetes.
- Introduction to Hybrid and Multi-Cloud computing (Anthos).
- Lab: Deploying Applications Using Google Container Engine.

Module 6: Google App Engine and Google Cloud Datastore

- Understand the purpose of and use cases for Google App Engine and Google Cloud Datastore.
- Contrast the App Engine Standard environment with the App Engine Flexible environment.
- Understand the purpose of and use cases for Google Cloud Endpoints.
- Lab: Deploying Applications Using App Engine and Cloud Datastore.

Module 7: Deployment and Monitoring

- Understand the purpose of template-based creation and management of resources.
- Understand the purpose of integrated monitoring, alerting, and debugging.
- Lab: Getting Started with Stackdriver and Deployment Manager.

Module 8: Big Data and Machine Learning

- Understand the purpose of and use cases for the products and services in the Google Cloud big data and machine learning platforms.
- Lab: Getting Started with BigQuery.

Module 9: Summary and Review

- Summary and Review.
- What's Next?.

วิทยากร: อ.เอกฤทธิ์ ธรรมสถิต



- MASTER OF BUSINESS ADMINISTRATION (EXECUTIVE) DEGREE
SASIN GRADUATE INSTITUTE OF BUSINESS ADMINISTRATION OF
CHULALONGKORN UNIVERSITY
- MASTER OF SCIENCE, MAJOR IN INFORMATION
Technology Faculty of Information Technology
KING'S MONGKUT INSTITUTE OF TECHNOLOGY LADKRABANG
- BACHELOR OF SCIENCE
KING'S MONGKUT INSTITUTE OF TECHNOLOGY NORTH BANGKOK
- DIPLOMA PROGRAM FOR MANAGEMENT
KELLOGG – NORTHWESTERN UNIVERSITY, UNITED STATE OF AMERICA

Certificate:

- Microsoft Certified professional (MCP)
- Microsoft Certified Systems Administrator (MSCA)
- Microsoft Certified Systems Engineer (MSCE)
- Cisco Certified Network Associate (CCNA)
- Certificate of CompTIA Security+
- Certified Technical training CTT+
- Certified Ethical Hacker
- Certified Hacking Forensic Investigator
- Certified Wireless Network Administrator
- Certified Wireless Security Professional

จำนวนชั่วโมงในการฝึกอบรม: 1 วัน (6 ชั่วโมง)

กำหนดการอบรม: ตามตารางปฏิทินอบรมประจำปี <https://www.career4future.com/trainingprogram>

ช่วงเวลาฝึกอบรม: 9.00 - 16.00 น.

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ค่าลงทะเบียนอบรม: ท่านละ 7,000 บาท (ราคารวมภาษีมูลค่าเพิ่มแล้ว)

** สถาบันฯ เป็นหน่วยงานราชการ จึงไม่อยู่ในเกณฑ์ที่ต้องถูกหักภาษี ณ ที่จ่าย

สถานที่ฝึกอบรม:

สถาบันพัฒนาบุคลากรแห่งอนาคต

เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.) ชั้น 6

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