# WUVN

### **Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

Du kan nå oss her

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## Google Cloud Architecting with Google Cloud Platform: Infrastructure

CODE:	LENGTH:	PRICE:

GOG\_AI 24 Hours (3 days) kr22,250.00

#### Description

This three-day instructor-led class introduces participants to the comprehensive and flexible infrastructure and platform services provided by Google Cloud Platform, with a focus on Compute Engine. Through a combination of presentations, demos, and handson labs, participants explore and deploy solution elements, including infrastructure components such as networks, systems, and application services. This course also covers deploying practical solutions including securely interconnecting networks, customersupplied encryption keys, security and access management, quotas and billing, and resource monitoring.

#### Objectives

This course teaches participants the following skills:

- Consider the entire range of Google Cloud Platform technologies in their plans.
- Learn methods to develop, implement, and deploy solutions.
- Distinguish between features of similar or related products and technologies.
- Recognize a wide variety of solution domains, use cases, and applications.
- Develop essential skills for managing and administering solutions.

- Develop knowledge of solution patterns - methods, technologies, and designs that are used to implement security, scalability, high availability, and other desired qualities.

#### Programme

#### Module 1: Introduction to Google Cloud Platform

- · Google Cloud Platform (GCP) Infrastructure
- Using GCP
- · Lab: Console and Cloud Shell
- Demo: Projects
- Lab: Infrastructure Preview

#### Module 2: Virtual Networks

- Virtual Private Cloud (VPC), Projects, Networks, Subnetworks, IP addresses, Routes, Firewall rules
- · Subnetworks for resource management instead of physical network topology
- Lab: Virtual Networking
- Lab: Bastion Host

#### Module 3: Virtual Machines

- Compute Engine
- Lab: Creating Virtual Machines
- Compute options (vCPU and Memory)
- Images
- Common Compute Engine actions
- Lab: Working with Virtual Machines

#### Module 4: Cloud IAM

- Organizations, Roles, Members, Service accounts, Cloud IAM best practices
- Lab: Cloud IAM

#### Module 5: Data Storage Services

- Cloud Storage
- Lab: Cloud Storage

- Cloud SQL
- Lab: Cloud SQL
- Cloud Spanner, Cloud Datastore
- Lab: Cloud Datastore
- Cloud Bigtable

#### Module 6: Resource Management

- Cloud Resource Manager, Quotas, Labels, Names, Billing
- Demo: Billing Administration
- · Lab: Examining Billing Data with BigQuery

#### Module 7: Resource Monitoring

- Stackdriver, Monitoring
- Lab: Resource Monitoring (Stackdriver)
- Logging, Error Reporting, Tracing, Debugging
- Lab: Error Reporting and Debugging (Stackdriver)

#### Module 8: Interconnecting Networks

- Cloud Virtual Private Network (VPN)
- Lab: Virtual Private Networks (VPN)
- Cloud Router, Cloud Interconnect, External Peering, Cloud DNS

#### Module 9: Load Balancing

Managed Instance Groups, HTTPS load balancing, Cross-region and content-based load balancing, SSL proxy/TCP proxy load balancing, Network load balancing

Lab: VM Automation and Load Balancing

#### Module 10: Autoscaling

- · Autoscaling, Policies, Configuration
- Lab: Autoscaling

#### Module 11: Infrastructure Automation with Google Cloud Platform APIs

- Infrastructure automation, Images, Metadata, Scripts, Google Cloud API
- Lab: Google Cloud Platform API Infrastructure Automation

#### Module 12: Infrastructure Automation with Deployment Manager

- · Deployment Manager, Configuration, Cloud Launcher
- Lab: Deployment Manager

#### Module 13: Managed Services

Cloud Dataproc, Cloud Dataflow, BigQuery, Cloud Datalab

#### Module 14: Application Infrastructure Services

• Cloud Pub/Sub, API Management, Cloud Functions, Cloud Source Repositories, Specialty APIs

#### Module 15: Application Development Services

App Engine

#### Module 16: Containers

- · Containers, Kubernetes Engine, Container Registry
- · Lab: Kubernetes Load Balancing
- Kubernetes Engine, App Engine, or Containers on Compute Engine?

#### **Session Dates**

Ved forespørsel. Vennligst kontakt oss

#### Tilleggsinformasjon

Denne treningen er også tilgjengelig som trening på stedet. Kontakt oss for å finne ut mer.