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Arrow ECS Srl - Via Lancia 6/a - 39100 Bolzano

Email: training.ecs.it@arrow.com
Phone: +39 0471 099 134

Architecting with Google Cloud Platform: Infrastructure

CODE:	LENGTH:	PRICE:
GOG_AI	24 Hours (3 days)	Request Price

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 hands-on 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, customer-supplied 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?

Further Information

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 hands-on 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, customer-supplied encryption keys, security and access management, quotas and billing, and resource monitoring.

Session Dates

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a training.ecs.it@arrow.com

Informazioni aggiuntive

Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.