

Google Cloud Fundamentals for Azure Professionals (GCPAZURE)

ID GO-GCPAZURE Duración 1 día

Quién debería asistir

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

Prerrequisitos

To get the most out of this course, participants should:

- Have basic proficiency with networking technologies like subnets and routing
- Have basic proficiency with command-line tools
- Have experience with Microsoft Azure and IIS

Objetivos del curso

- Identify Google Cloud counterparts for Azure IaaS, Azure PaaS, Azure SQL, Azure Blob Storage, Azure Application Insights, and Azure Data Lake
- Configure accounts, billing, projects, networks, subnets, firewalls, VMs, disks, auto scaling, load balancing, storage, databases, IAM, and more
- Manage and monitor applications
- Explain feature and pricing model differences

Contenido del curso

This course teaches Azure professionals about the core capabilities of Google Cloud in the four technology pillars: networking, compute, storage, and database. It is designed for Azure system administrators, solutions architects, and SysOps administrators who are familiar with Azure features and setup and want to gain experience configuring Google Cloud products immediately. This course uses lectures, demos, and hands-on labs to show you the similarities and differences between the two platforms and teach you about some basic

tasks on Google Cloud.

Esquema Detallado del Curso

Module 1 Introducing Google Cloud

Topics

- What is cloud computing?
- Google Cloud Computing architectures
- The Google network
- Google Cloud Regions and Zones
- Google Cloud versus Azure regions and zones
- Open API's
- Multi-layered security approach
- Budgets and Billing

Objectives

- Explain the advantages of Google Cloud
- 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)

Activities

- 1 quiz

Module 2 Getting Started with Google Cloud

Topics

- Google Cloud resource hierarchy
- Comparison to Azure resource hierarchy
- Identity and Access Management (IAM)
- IAM Roles
- Comparison to Azure AD
- Interacting with Google Cloud
- Cloud Marketplace

Objectives

- Identify the purpose of projects on Google Cloud
- Understand how Azure's resource hierarchy differs from

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Google Cloud's

- Understand the purpose of and use cases for Identity and Access Management
- Understand how Azure AD differs from Google Cloud IAM
- List the methods of interacting with Google Cloud
- Launch a solution using Cloud Marketplace

Activities

- 1 lab and 1 quiz

Module 3 Virtual Machines in the Cloud

Topics

- Virtual Private Cloud (VPC) Network
- How Azure VNet differs from Google VPC
- Compute Engine
- Comparing Azure VM and Google Compute Engine
- Important VPC Capabilities
- How typical approaches to load-balancing in Google Cloud differ from those in Azure

Objectives

- Identify the purpose and use cases for Google Compute Engine
- Understand the basics of networking in Google Cloud
- Understand how Azure VPC differs from Google VPC
- Understand the similarities and differences between Azure VM and Google Compute Engine
- Understand how typical approaches to load-balancing in Google Cloud differ from those in Azure
- Deploy applications using Google Compute Engine

Activities

- 1 lab and 1 quiz

Module 4 Storage in the Cloud

Topics

- Cloud Storage
- Cloud Storage Interactions
- Comparing Azure Blob Storage with Google Cloud Storage
- Cloud Bigtable
- Cloud SQL and Cloud Spanner
- Cloud Datastore
- Comparing Azure SQL with Google Cloud's managed database services
- Comparing Storage Options

Objectives

- Understand the purpose of and use cases for: Cloud Storage, Cloud SQL, Cloud Bigtable and Cloud Datastore
- Understand how Azure Blob compares to Cloud Storage
- Compare Google Cloud's managed database services with Azure SQL
- Learn how to choose among the various storage options on Google Cloud
- Load data from Cloud Storage into BigQuery

Activities

- 1 lab and 1 quiz

Module 5 Containers in the Cloud

Topics

- Containers in the Cloud
- Kubernetes and Kubernetes Engine
- Hybrid and Multi-Cloud
- How Azure Kubernetes Service differ from GKE

Objectives

- Define the concept of a container and identify uses for containers
- Identify the purpose of and use cases for Google Container Engine and Kubernetes
- Understand how Azure Kubernetes Service differs from Google Kubernetes Engine
- Provision a Kubernetes cluster using Kubernetes Engine
- Deploy and manage Docker containers using kubectl

Activities

- 1 lab and 1 quiz

Module 6 Applications in the Cloud

Topics

- App Engine Standard Environment
- App Engine Flexible Environment
- Comparison to Azure App Service
- Cloud Endpoints and Apigee Edge

Objectives

- Understand the purpose of and use cases for Google App Engine
- Contrast the App Engine Standard environment with the App Engine Flexible environment
- Understand how App Engine differs from Azure App

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Service

- Understand the purpose of and use cases for Google Cloud Endpoints

Activities

- 1 quiz

Module 7 Developing, Deploying and Monitoring in the Cloud Topics

- Development in the cloud
- Deployment: Infrastructure as code
- How Cloud Deployment Manager differs from Azure Resource Manager
- Monitoring: Proactive instrumentation
- How Cloud Operations differs from Azure application Insights

Objectives

- Understand options for software developers to host their source code
- Understand the purpose of template-based creation and management of resources
- Understand how Google Cloud Deployment Manager differs from Azure Resource Manager
- Understand the purpose of integrated monitoring, alerting, and debugging
- Understand how Google Monitoring differs from Azure Application Insights and Azure Log Analytics
- Create a Deployment Manager deployment
- Update a Deployment Manager deployment
- View the load on a VM instance using Cloud Monitoring

Activities

- 1 lab and 1 quiz

Module 8 Big Data and Machine Learning in the Cloud Topics

- Google Cloud Big Data Platform
- Dataflow
- BigQuery
- How BigQuery differs from Azure Data Lake Analytics
- Pub/sub and Datalab
- How Cloud Pub/Sub differs from Azure Events Hub
- Google Cloud Machine Learning Platform
- ML APIs
- How GCP's machine-learning APIs differ from Azure's

Objectives

- Understand the purpose of and use cases for the products and services in the Google Cloud big data and machine learning platforms
- Understand how Google Cloud BigQuery differs from Azure Data Lake
- Understand how Google Cloud Pub/Sub differs from Azure Event Hubs and Service Bus
- Understand how Google Cloud's machine-learning APIs differ from Azure's
- Load data into BigQuery from Cloud Storage
- Perform queries using BigQuery to gain insight into data

Activities

- 1 lab and 1 quiz

Module 9 Summary and Review Topics

- Course Review
- The Process of migrating from Azure to Google Cloud
- Next Steps

Objectives

- Review the products that make up Google Cloud and remember how to choose among them
- Understand next steps for training and certification
- Understand, at a high level, the process of migrating from Azure to Google Cloud

Activities

- 1 quiz

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