

Google Cloud

“Change is the end result of all true learning.”

ZebLearn is an ISO 9001-2015 Certified Company that is co-founded by highly experienced industry professionals and alumni of top universities. It is headquartered at Noida & It is one of the fastest-growing solution providers in the field of Education, IT, Consulting and Corporate Trainings.

Google Cloud Syllabus

Essential Cloud Infrastructure: Foundation

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

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

Virtual Machines

- ❖ Compute Engine
- ❖ Lab: Creating Virtual Machines
- ❖ Compute options (vCPU and Memory)
- ❖ Images
- ❖ Common Compute Engine actions
- ❖ Lab: Working with Virtual Machines Essential Cloud Infrastructure: Core Services

Cloud IAM

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



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Data Storage Services

- ❖ Cloud Storage
- ❖ Lab: Cloud Storage
- ❖ Cloud SQL
- ❖ Lab: Cloud SQL
- ❖ Cloud Spanner, Cloud Data store
- ❖ Lab: Cloud Data store
- ❖ Cloud Bigtable

Resource Management

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

Resource Monitoring

- ❖ Stackdriver, Monitoring
- ❖ Lab: Resource Monitoring (Stackdriver)
- ❖ Logging, Error Reporting, Tracing, Debugging
- ❖ Lab: Error Reporting and Debugging (Stackdriver) Elastic Cloud Infrastructure: Scaling and Automation

Interconnecting Networks

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

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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

Autoscaling

- ❖ Autoscaling, Policies, Configuration
- ❖ Lab: Autoscaling

Infrastructure Automation with Google Cloud Platform APIs

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

Infrastructure Automation with Deployment Manager

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

Managed Services

- ❖ Cloud Dataproc, Cloud Dataflow, BigQuery, Cloud Datalab Elastic Cloud Infrastructure: Containers and Services

Application Infrastructure Services

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

Application Development Services

- ❖ App Engine



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Containers

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

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Thanks you

Now or Never



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