



MakeCloudWork

GCP Administration Essentials



Brief

This course is designed to equip IT professionals and administrators with the core skills needed to manage and operate a Google Cloud Platform (GCP) environment. The course covers key concepts and practical exercises that will enable participants to deploy, configure, monitor, and manage GCP resources effectively.

Audience

- IT professionals with basic knowledge of cloud computing
- System administrators looking to expand their knowledge in cloud-based environments
- Professionals responsible for managing or administering GCP-based infrastructure

Duration

- 2 Days

Delivery Mode

- Online
- In-person

Benefits

- Gain a foundational understanding of Google Cloud services and management
- Learn how to deploy and configure GCP resources like Compute Engine, Cloud Storage, and VPC
- Understand GCP administration best practices including identity management and security
- Hands-on experience through labs preparing participants for real-world GCP environments

What to Expect

Participants will walk away with practical skills to:

- Manage GCP projects and resources
- Implement and manage storage solutions using Cloud Storage and Persistent Disks
- Deploy and manage virtual machines using Compute Engine
- Configure and manage Virtual Private Cloud (VPC) networks
- Manage identities using Google Cloud Identity and Access Management (IAM)

Day 1: Core GCP Services and Infrastructure Management

Introduction to GCP and the Google Cloud Console

- Overview of GCP services and global architecture
- Introduction to GCP CLI (gcloud) and APIs
- Lab: Navigating the Cloud Console, setting up CLI, and configuring basic settings

Google Cloud Identity and Access Management (IAM)

- Managing users, groups, and roles in IAM
- Role-Based Access Control (RBAC)
- Lab: Create IAM users, configure roles, and set permissions

Google Compute Engine and Load Balancing

- Deploying and managing Compute Engine instances
- Configuring load balancing with Google Cloud Load Balancer
- Lab: Deploy a Compute Engine instance and set up load balancing for a web app

GCP Storage and Networking

- Introduction to Google Cloud Storage and Persistent Disks
- Designing and deploying VPC with subnets
- Lab: Configure Cloud Storage and set up a VPC with subnets

Day 2: Application Development, Monitoring, and Security

Google Cloud Application Services

- Deploying and managing Google App Engine for web applications
- Introduction to Google Cloud Endpoints for managing APIs
- Lab: Deploy a web app on App Engine and configure APIs using Endpoints

Google Cloud Functions for Serverless Applications

- Building and deploying serverless applications with Google Cloud Functions
- Lab: Create an event-driven application using Cloud Functions

Google Cloud Monitoring and Security

- Using Stackdriver for resource tracking
- Implementing security best practices with Security Command Center
- Lab: Set up monitoring alerts for Compute Engine and configure Security Command Center recommendations

Backup and Disaster Recovery in GCP

- Configuring backups using Google Cloud Backup and Restore
- Lab: Set up automatic backups for a Compute Engine instance and configure disaster recovery

Why Trust MakeCloudwork for Your Cloud Training Needs?

1. **Tailored Training Programs:** We customize our courses to suit the specific needs of your business, ensuring the skills you learn are directly applicable to your work.
2. **Proven Expertise:** Our team has over two decades of combined experience in cloud technologies, cybersecurity, and cloud architecture. We stay ahead of industry trends to keep you updated.
3. **Hands-on Learning:** Our labs and real-world scenarios enable you to develop practical skills, making learning more effective and engaging.
4. **Certification Guarantee:** We provide dedicated guidance and resources to help you confidently achieve your cloud certifications.
5. **Ongoing Support:** Post-training, we continue to offer resources, advice, and updates, so your learning never stops.

Let **MakeCloudwork** be your trusted partner in your cloud journey.



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