

# Google Cloud - Architecting Hybrid Cloud Infrastructure with Anthos

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<b>Code:</b>	GCP-ARCH-ANTH
<b>Length:</b>	2 days
<b>URL:</b>	<a href="#">View Online</a>

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This two-day instructor-led course prepares students to modernize, manage, and observe their applications using Kubernetes whether the application is deployed on-premises or on Google Cloud. Through presentations, and hands-on labs, participants explore and deploy using Kubernetes Engine (GKE), GKE Connect, Istio service mesh and Anthos Config Management capabilities that enable operators to work with modern applications even when split among multiple clusters hosted by multiple providers, or on-premises. This is a continuation of Architecting with GKE and assumes hands-on experience with the technologies covered in that course.

## Skills Gained

- Deploy Istio service mesh control-plane and proxies using the Helm Kubernetes package manager or using the Istio on GKE add-on.
- Centrally observe, discover, and monitor your microservices-based applications across clusters using Istio service mesh adapters, including Prometheus, Grafana, or Kiali, or Stackdriver.
- Define and manage multi-cluster services, with ingress, using open-source Istio via shared and multi-control plane topologies.
- Connect and manage on-premises clusters, and workloads using GKE On-Prem.
- Enable consistent policy enforcement across multi-cluster environments using a configuration-as-code approach and your secure Git repository.

## Who Can Benefit

- Technical employees using GCP, including customer companies, partners and system integrators: deployment engineers, cloud architects, cloud administrators, system engineers, and SysOps/DevOps engineers.
- Individuals using GCP to create, integrate, or modernize solutions using secure, scalable microservices architectures in hybrid environments.

## Prerequisites

- Completed Google Cloud Fundamentals: Core Infrastructure or have equivalent experience, and
- Completed Architecting with GKE or have equivalent experience

# Course Details

## Course Outline

- Module 1: Anthos Overview
  - Module 2: Managing Hybrid Clusters
  - Module 3: Introduction to Service
  - Module 4: Observing Services using
  - Module 5: Managing Traffic Routing
  - Module 6: Securing your Services with
  - Module 7: Managing Policies using
  - Module 8: Configuring Anthos GKE
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## Schedule (as of 4 )

Date	Location
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