Architecting Hybrid Infrastructure with Anthos v2.0

1. Validate access to Qwiklabs at https://googlecloud.qwiklabs.com
2. Access presentation slides and resources folder at https://tinyurl.com/AnthosResources
3. Validate access to Partner Skills Boost - https://partner.cloudskillsboost.google
4. Validate access to Partner Advantage at https://www.partneradvantage.goog

Partner Skills Boost application form (if required)

Classroom Link on Qwiklabs

Official Presentation Slides

Course Resources

Anthos Service Kit

Serverless Service Kit

Professional Services Organization Practice Documents

Anthos Reference Architecture

Day 1

Training Presentations & Demos

09:00-09:30 Course Intro (~30 mins)
09:30-10:30 Introduction to Anthos (~45 mins)
10:45-11:45 Anthos Environments multi-cloud focus (~45 mins)
12:00-13:00 Multi-cluster concepts on Anthos (~60 mins)
13:00-15:00 LUNCH & LABS
15:00-16:00 Manage configuration with Anthos (~60 mins)
16:00-18:00 LABS

Training Labs
13:00-15:00 LABS (~1.5 hours)
AHYBRID021 Building Anthos Clusters on GCP and AWS
AHYBRID022 North-south routing with Multi-Cluster Gateways
16:00-18:00 LABS (~2 hours)
AHYBRID071 Configuring Clusters with Anthos Config Management
AHYBRID072 Enforcing policy with Anthos Config Management Policy Controller

Labs on Google Partner Skills Boost

1. AHYBRID021 Building Anthos Clusters on GCP and AWS
2. AHYBRID071 Configuring Clusters with Anthos Config Management
3. AHYBRID072 Enforcing policy with Anthos Config Management Policy Controller

Day 2

Training Presentations & Demos

09:00-10:30 Introducing Anthos Service Mesh (~90 mins)
10:45-12:15 Securing Network Traffic with Anthos Service Mesh (~90 mins)
12:30-15:00 LUNCH & LABS
15:00-16:00 Multi-cluster Networking with Anthos Service Mesh (~60 mins)
16:00-18:00 LABS

Training Labs
12:30-15:00 & 16:00-18:00 Labs (~3 hours)
AHYBRID032 Anthos Service Mesh walkthrough
AHYBRID041 Observing Anthos Service Mesh
AHYBRID051 Managing traffic flow with Anthos Service Mesh
AHYBRID061 Securing Traffic with Anthos Service Mesh
AHYBRID081 Configuring a multi-cluster mesh with Anthos Service Mesh

Labs on Google Partner Skills Boost

1. Installing Anthos Service Mesh on Google Kubernetes Engine
2. AHYBRID031 Installing Anthos Service Mesh
3. Traffic Management with Anthos Service Mesh
4. AHYBRID041 Observing Anthos Services
5. AHYBRID051 Managing Traffic Flow with Anthos Service Mesh
6. AHYBRID061 Securing Traffic with Anthos Service Mesh
7. AHYBRID081 Configuring a multi-cluster mesh with Anthos Service Mesh

Day 3

Training Presentations & Demos

09:00-10:00 Introduction to Anthos Clusters on Bare Metal (~60 mins)
10:15-11:15 Planning and Building the Anthos Admin Cluster (~60 mins)
11:30-12:30 Adding and configuring user clusters (~60 mins)
12:30-15:00 Lunch and Labs
15:00-16:00 Operating and managing clusters (~60 mins)

Training Labs

12:30-15:00 & 16:00-18:00 Labs (~4 hours)
AHYBRID091: Creating infrastructure and deploying Anthos clusters on bare metal
AHYBRID092: Deploying workloads on Anthos clusters on bare metal
AHYBRID093: Observing Anthos clusters on bare metal

Additional Labs on Google Partner Skills Boost

1. Deploying Redis Enterprise for GKE and Serverless App on Anthos Bare Metal

Day 4

Training Presentations & Demos

09:00-10:00 Application migration with Anthos (~60 mins)
10:15-11:15 Modern CI / CD (~60 mins)
11:30-12:30 Serverless on Anthos (~60 mins)
12:30-13:00 Open Q&A / Survey
13:00-18:00 LUNCH & LABS

Training Labs

14:00-18:00 Labs (~3 hours)
Migrating workloads to containers with Migrate for Anthos
Creating CI/CD Pipelines in Google Cloud for Anthos clusters
Deploy to Cloud Run
Receive Pub/Sub events with Eventarc and Cloud Run

Labs on Google Partner Skills Boost

1. Cloud Run for Anthos
2. Traffic Management with Cloud Run
3. Migrate for Anthos: Qwik Start
4. Migrate for Anthos: Windows

Additional Resources

Podcast
[GKE Gateway Controller](#)
[Working with Kubernetes and KRM](#)

Blog
[Build a platform with KRM](#)

YouTube

[Anthos on YouTube](#)
[Migrate to Containers](#)

Quest
[Anthos Service Mesh](#)

Github Demos
[Anthos Demos and Sample Scripts on Github](#)

[Migrate to Containers Demo Scripts on Github](#)

[Anthos on AWS / Azure](#)

[Migrate to Containers Demos](#)

Binary Authorization

https://cloud.google.com/binary-authorization/docs/set-up-platform

Open Source Projects
[CNCF Open Source Dashboard](#)

[Google Open Source Projects](#)

[CNCF Kubernetes Contributions](#)

[CNCF Istio Contributions](#)

Training Resources

[Free Google Cloud Training for Partners](#)

White Papers

Anthos Overview White Paper

Product Documentation

Anthos Documentation

Anthos Deployment

Anthos Deployment Options

Config Management

Anthos Config Management Blueprints

Istio

Istio Service Mesh Concepts

Life of a Packet through a Service Mesh

Istio Service Mesh Performance

Next Generation Istio Ambient Mesh

Cloud Landing Zone

Google Cloud Security Foundation

Anthos Service Mesh

Anthos Service Mesh Supported Features

Anthos Industry Solutions

Expanding Partner Solutions at the Network Edge

DevOps

Dora Research

Anthos Bare Metal

Anthos Baremetal Lenovo Reference Architecture

Google Distributed Cloud

[Google Distributed Cloud Virtual Tutorials](#)

Reference Architecture

[Cloud Architecture Framework](#)

[Anthos Reference Architecture: Anthos Hybrid Environment](#)

Policy Controller

[Writing Custom Policy Controller Constraint Templates](#)

Google Cloud Locations

[Google Cloud Inter-regional Latency](#)

[Google Cloud Region Picker](#)

[Google Cloud Region Selector](#)

Competitive

[Anthos Competitive Positioning](#)

Kubernetes

[Kubernetes Gateway API](#)

[Deploying Multi-cluster Gateway Controller](#)

General Lab Tips

If you get a provisioning error related to insufficient resources / quota available in a zone, you could try modifying the startup script in the setup-vm to use another zone, maybe one in europe such as europe-west1-b