



Curso Cloud Operations and Service Mesh with Anthos

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Duración
7 horas



Modalidad
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**Learning by
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**Curso
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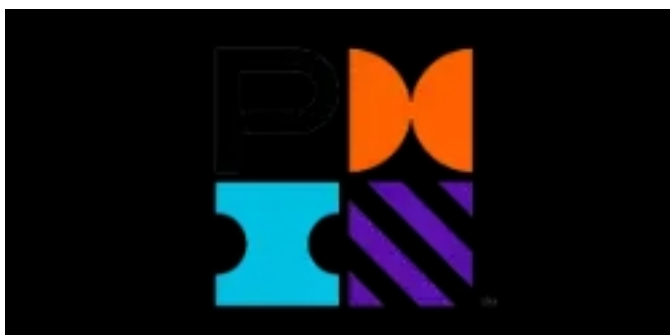
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Objetivos:

- Observar y supervisar los servicios que se ejecutan en los clústeres de Anthos en varios entornos.
- Instalar Anthos Service Mesh en clústeres de Anthos en varios entornos.
- Configurar el enrutamiento del tráfico, mejorar la seguridad de la red y la visibilidad con Anthos Service Mesh.
- Crear arquitecturas de red de varios clústeres con Anthos Service Mesh.

Requisitos:

- Haber completado el curso Google Cloud Fundamentals: Core Infrastructure.
- Haber completado el curso Architecting with Google Kubernetes Engine.
- Haber completado el **curso Multi-cluster, Multi-cloud with Anthos**.

Material del curso:

Documentación oficial para el **curso Cloud Operations and Service Mesh with Anthos**.

Perfil del docente:

- Formador certificado por Google Cloud.
- Más de 5 años de experiencia profesional.
- Más de 4 años de experiencia docente.
- Profesional activo en empresas del sector IT.

Metodología:

- “Learning by doing” se centra en un contexto real y concreto, buscando un aprendizaje en equipo para la resolución de problemas en el sector empresarial.
- Aulas con grupos reducidos para que el profesional adquiriera la mejor atención por parte de nuestros instructores profesionales.
- El programa de estudios como partners oficiales es confeccionado por nuestro equipo de formación y revisado por las marcas de referencia en el sector.
- La impartición de las clases podrá ser realizada tanto en modalidad Presencial como Virtual.



Contenidos:

Módulo 1: Introducing Anthos Service MeshTemas:

- Introduction to Anthos Service Mesh
- Architecture
- Installation
- Life of a request in the mesh
- Mesh telemetry and instrumentation
- Anthos Service Mesh dashboards
- Anthos Service Mesh pricing and support

Objetivos:

- Understand the benefits of Anthos Service Mesh, including running distributed services across clusters and enhancing service observability, traffic management, and security.
- Install Anthos Service Mesh on different Anthos clusters and choose capabilities depending on the level of management and automation you want.
- Collect workload telemetry including metrics, traces, and logs, and learn to visualize your services on the Anthos Service Mesh dashboards.
- Understand Anthos Service Mesh and the capabilities,

Módulo 2: Managing Traffic Flow with Anthos Service MeshTemas:

- Networking and service discovery
- Anthos Service Mesh API resources
- Network resilience and testing

Objetivos:

- Understand how Anthos Service Mesh learns the network from Kubernetes and builds on top to provide advanced routing capabilities.
- Deploy mesh API resources such as the VirtualService, DestinationRule, Gateway, Service Entry, and the sidecar to configure the mesh.
- Harden the mesh network by introducing new functionality such as request retries, request timeouts, and circuit breakers.
- Test the mesh network by creating failures and delays on specific services to improve the overall resilience.

Módulo 3: Securing Network Traffic with Anthos Service MeshTemas:

- Security across services
- Authentication and encryption
- Service authentication in the mesh
- End-user authentication in the mesh
- Authorization in the mesh
- Bonus: Employee authentication and authorization in the mesh

Objetivos:

- Encrypt traffic between microservices to prevent anyone in the network from accessing private information.
- Authorize services and requests; ensuring that services only access the information that is allowed access from other services.
- Authenticate services and requests to verify trust among services in the mesh and among end users.



- Limit service access in the network so

Módulo 4: Multi-Cluster Networking with Anthos Service MeshTemas:

- Fleet networking
- Single network east-west routing
- Multiple network east-west routings
- North-south routing

Objetivos:

- Understand how to do multi-cluster networking, both north-south and east-west routing, with different network configurations.
- Learn how to configure east-west networking on different Anthos clusters running on multi-cloud and hybrid locations with Anthos Service Mesh.
- Install Anthos Service Mesh on different Anthos GKE clusters, and choose the right network configuration depending on where you want to run your cluster.
- Combine Anthos Service Mesh with multi-cluster Gateways and multi-cluster services (MCS) to seamlessly run distributed services.



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