

Architecting with Google Cloud Platform: Design and Process (AGCP-DP)

ID GO-AGCP-DP Duración 2 días

Quién debería asistir

This class is intended for the following participants:

- Cloud Solutions Architects, Site Reliability Engineers, Systems Operations professionals, DevOps Engineers, IT managers
- Individuals using Google Cloud Platform to create new solutions or to integrate existing systems, application environments, and infrastructure with the Google Cloud Platform

Este curso es parte de las siguientes Certificaciones

Google Cloud Certified Professional Cloud Architect (PCA)

Prerrequisitos

To get the most out of this course, participants should have:

- Completed Architecting with IGO-AGCPI or have equivalent experience
- Basic proficiency with command-line tools and Linux operating system environments
- Systems? ?Operations? ?experience? ?including? ?deploying? ?and? ?managing? ?applications,? ?either? ?on-premises? ?or? ?in? ?a? ?public? ?cloud environment

Objetivos del curso

This course teaches participants the following skills:

- Design for high availability, scalability, and maintainability
- Assess tradeoffs and make sound choices among Google Cloud Platform products
- Integrate on-premises and cloud resources
- Identify ways to optimize resources and minimize cost
- Implement processes that minimize downtime, such as monitoring and alarming, unit and integration testing, production resilience testing, and incident post-mortem analysis
- Implement policies that minimize security risks, such as

- auditing, separation of duties and least privilege
- Implement technologies and processes that assure business continuity in the event of a disaster

Contenido del curso

Module 1: Defining the Service

- Design? ?in? ?this? ?class
- State? ?and? ?solution
- Measurement
- Gathering? ?requirements,? ?SLOs,? ?SLAs,? ?and? ?SLIs? ?(key? ?performance indicators)

Module 2: Business-Logic Layer Design

- Microservices? ?architecture
- GCP? ?12-factor? ?support
- Mapping? ?compute? ?needs? ?to? ?Google? ?Cloud? ?Platform? ?processing services
- Compute? ?system? ?provisioning

Module 3: Data Layer Design

- Classifying and characterizing data
- Data? ?ingest? ?and? ?data? ?migration
- Identification? ?of? ?storage? ?needs? ?and? ?mapping? ?to? ?Google? ?Cloud Platform? ?storage? ?systems

Module 4: Presentation Layer Design

- Network? ?edge? ?configuration
- Network? ?configuration? ?for? ?data? ?transfer? ?within? ?the? ?service,? ?including load? ?balancing? ?and? ?network? ?location
- Network? ?integration? ?with? ?other? ?environments,? ?including? ?on? ?premise and? ?multi-cloud

Module 5: Design for Resiliency, Scalability, and Disaster Recovery

- Failure due to loss of resources
- Failure due to overload
- Strategies for coping with failure
- Business? ?continuity? ?and? ?disaster? ?recovery,?

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including restore strategy and data lifecycle management

- Scalable and resilient design

Module 6: Design for Security

- Google Cloud Platform security
- Network access control and firewalls
- Protections against denial of service
- Resource sharing and isolation
- Data encryption and key management
- Identity access and auditing

Module 7: Capacity Planning and Cost Optimization

- Capacity Planning
- Pricing

Module 8: Deployment, Monitoring and Alerting, and Incident Response

- Deployment
- Monitoring and alerting
- Incident response

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Centros de Entrenamiento Mundial

