

Architecting with Google Cloud: Design and Process

Varighed: 2 Days Kursus Kode: GO5974 Leveringsmetode: Virtuel deltagelse

Beskrivelse:

This two-day instructor-led class prepares students to build highly reliable and efficient solutions on the Google Cloud, using proven design patterns and the principles of Google Site Reliability Engineering (SRE). It is a continuation of Architecting with the Google Cloud: it assumes hands-on experience with the technologies covered in that course. Through a combination of presentations, demonstrations and hands-on classes, participants learn how to design GC implementations that are highly reliable and secure; and how to operate GC implementations in a cost-effective manner.

Målgruppe:

This class is intended for the following participants: Cloud Solutions Architects, Site Reliability Engineers, Systems Operations Professionals, DevOps Engineers, IT Managers. People who use the Google Cloud to create new solutions or to integrate existing systems, application environments and infrastructure with the Google Cloud.

Agenda:

- This course teaches participants the following skills:
 - High availability design, scalability and maintainability.
 - Evaluate the advantages and disadvantages of Google Cloud products and make the right decisions.
 - Integrate local and cloud resources.
 - Identify ways to optimize resources and minimize costs.
 - Implement processes that minimize downtime, such as monitoring and alarms, unit and integration testing, production resilience testing, and post-mortem incident analysis.
 - Implement policies that minimize security risks, such as auditing or segregation of duties
 - Implement technologies and processes that ensure business continuity in the event of a disaster.
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Forudsætninger:

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

- Architecting completed with Google Cloud or equivalent course
 - Basic knowledge of command line tools and Linux operating system environments
 - Experience in systems operations, including application implementation and management, either on-premise or in a public cloud environment.
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Indhold:

Module 1: Service definition	Data intake and migration.	Google Cloud Security.
Design in this class.	■ Identification of storage needs and allocation to Google Cloud storage systems.	Network access control and firewall.
Status and solution.	Module 4: Designing the Presentation Layer	Denial of service protections.
Measurement.	Network edge configuration.	Resource sharing and isolation
■ Collection of requirements, SLOs, SLAs and SLIs (key performance indicators)	Network configuration for data transfer within the service, including load balancing and network location.	■ Data encryption and key management Identity access and auditing.
Module 2: Business Logic Layer Design	■ Network integration with other environments, including local and multi-cloud	Module 7: Capacity Planning and Cost Optimization
Microservices architecture.	Module 5: Design for Resilience, Scalability and Disaster Recovery	■ Capacity planning.Pricing
12-factor GC support.	Failure due to loss of resources.	Module 8: Deployment, Monitoring and Alerting, and Incident Response
Mapping of computing needs to Google Cloud processing services.	Failure due to overload.	Deployment.
■ System provisioning.	Strategies for dealing with failure.	Monitoring and alerts.
Module 3: Data Layer Design	Business continuity and disaster recovery, including restoration strategy and data lifecycle management	Incident response.
Classification and characterization of data.	■ Scalable and resilient design.	
	Module 6: Designing for Security	

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

training@globalknowledge.dk

www.globalknowledge.com/da-dk/

Global Knowledge, Stamholmen 110, 2650 Hvidovre