Google Cloud

Course Summary

Google Cloud Digital Leader

Congratulations!

Say: Congratulations on conquering the Google Cloud Digital Leader course! Your dedication to upskilling in cloud technology positions you for success in the ever-evolving digital landscape.

We covered a lot of information over the past two days. Let's recap what you learned.

Objectives

01 Identify Google Cloud products and solutions that support digital transformation.

02 Explain how cloud technology and data can be used to innovate within organizations.

03 Identify how organizations can innovate using Google Cloud's artificial intelligence and machine learning solutions.

04 Explain infrastructure and application modernization with Google Cloud.

05 Describe the fundamentals of cloud security Google's trusted infrastructure.

**06** Explain how to optimize cloud costs and achieve operational excellence with Google Cloud.

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Say: At the start of this course, we set out to achieve some specific objectives. These included the ability for you to:

- Identify Google Cloud products and solutions that support digital transformation.
- Explain how cloud technology and data can be used to innovate within organizations.
- Identify how organizations can innovate using Google Cloud's artificial intelligence and machine learning solutions.
- Explain infrastructure and application modernization with Google Cloud.
- Describe the fundamentals of cloud security Google's trusted infrastructure.
- Explain how to optimize cloud costs and achieve operational excellence with Google Cloud.

Module 1
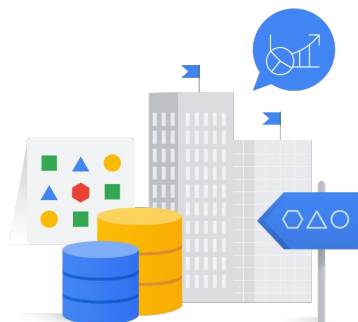## Digital Transformation with Google Cloud
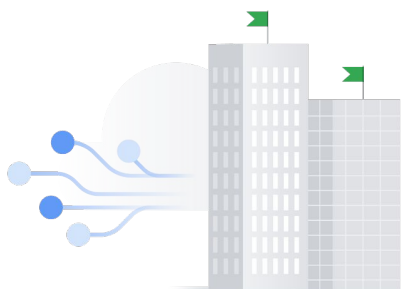
01	Why cloud technology is transforming business
02	Fundamental cloud concepts
03	Cloud computing models and shared responsibility

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Say: In the first module, titled "Digital Transformation with Google Cloud," you explored:

1. Key terms related to the cloud and digital transformation, the benefits of cloud technology, the differences between on-premises infrastructure, public cloud, private cloud, hybrid cloud, and multicloud, and the drivers and challenges that lead organizations to undergo a digital transformation.

2. The differences between a solution and a product, along with CapEx and OpEx. You also explored infrastructure options, and define network terminology.

3. The differences between IaaS, PaaS, and SaaS, learned about the cloud shared responsibility model, and identified which responsibilities belong to the cloud provider and the customer.

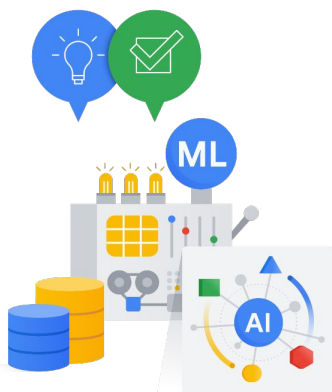# Module 2
Exploring Data Transformation with Google Cloud

01	The value of data
02	Google Cloud data management solutions
03	Making data useful and accessible

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Say: In the second module, titled "Exploring Data Transformation with Google Cloud," you explored:

1. The important role that data plays in an organization's digital transformation

2. Google Cloud data management products and solutions, and how they apply to different business use cases

3. How smart analytics, business intelligence tools, and streaming analytics can add value in different business use cases

Module 3
# Innovating with Google Cloud Artificial Intelligence

01	AI and ML fundamentals
02	Google Cloud's AI and ML solutions

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Say: In the third module, titled "Innovating with Google Cloud Artificial Intelligence," you explored:

1. Fundamental concepts related to artificial intelligence and machine learning, including the benefits they can provide to a business.

2. Four options to build ML models with Google Cloud: BigQuery ML, pre-trained APIs, AutoML, and custom training.

Module 4
## Modernize Infrastructure and Applications with Google Cloud
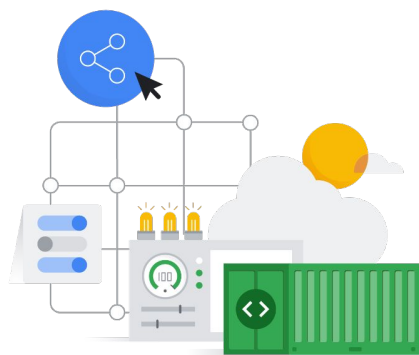
01	Important cloud migration terms
02	Modernizing infrastructure in the cloud
03	Modernizing applications in the cloud

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Say: In the fourth module, titled "Modernize Infrastructure and Applications with Google Cloud," you explored:

1. Important cloud migration terms, like workload, retired, retained, rehosted, life and shift, and replatform.

2. The options for, and advantages of, running compute workloads in the cloud. This included examining containers and the business value of serverless computing.

3. And application modernization and the business value of application programming interfaces (APIs), including the business reasons for choosing hybrid or multi-cloud strategies.

Module 5
Trust and Security with Google Cloud
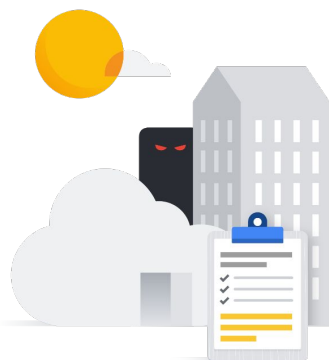
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01	Trust and security in the cloud
02	Google's trusted infrastructure
03	Google Cloud's trust principles and compliance

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Say: In the fifth module, titled "Trust and Security with Google Cloud," you explored:

1. Today's top cybersecurity threats and how they impact businesses, differences between cloud security and traditional on-premises security, and key security terms and concepts.

2. The security benefits of Google's data centers, the role encryption plays in securing data, the difference between authentication, authorization, and auditing, and how Google products can help protect against network attacks.

3. How Google Cloud's trust principles, transparency reports, and independent third-party audits support customer trust. You also explored the importance of data sovereignty and data residency, and how the Google Cloud compliance resource center and Compliance Reports Manager supports industry and regional compliance needs.

Module 6
Scaling with Google Cloud Operations
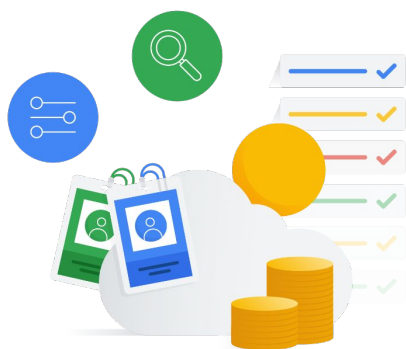
01	Financial governance and managing cloud costs
02	Operational excellence and reliability at scale
03	Sustainability with Google Cloud

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Say: In the sixth and final module, titled "Scaling with Google Cloud Operations," you explored:

1. The essentials of cloud cost management, including cloud financial governance best practices, resource hierarchy access control, and cloud consumption control

2. How to modernize operations with Google Cloud and the importance of designing resilient infrastructure and processes. This included learning about cloud reliability and Google Cloud Customer Care, including the life of a support case.

3. Google Cloud's commitment to sustainability and how it supports organizations' sustainability goals.

Cloud Digital Leader
certification exam

The **Cloud Digital Leader certification** familiarizes you
with cloud concepts, so you can more effectively
collaborate with your engineers and IT teams to achieve
your organization's goals.

Length: 90 minutes

Exam format: Multiple choice and multiple select

For more information to prepare for the exam, visit:
cloud.google.com/certification/cloud-digital-leader

Google Cloud

If you're looking to demonstrate your knowledge of the topics from this course, you're
encouraged to take the Cloud Digital Leader certification exam.

- Length: 90 minutes
- Exam format: Multiple choice and multiple select
- For more information about the exam, including additional resources to help
  continue your preparation (exam guide, sample questions, and a study guide),
  please visit: cloud.google.com/certification/cloud-digital-leader

Thank you

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Say: This brings up to the end of Cloud Digital Leader! Thank you for your time and participation today. See you next time!