Google Cloud

Google Cloud's data storage and management tools

So far, you've learned that cloud-based data storage tools are cloud solutions for hosting data. Along with cloud hosting tools, you'll likely encounter other data management tools in your data analytics career. Data management tools are cloud-based tools that can manage your data throughout the data analysis process. In this reading, you'll learn more about storage and management tools, and how to use them effectively.

Tool summary

Selecting data storage and management tools will depend on your project, budget, and the needs of your organization. Review the chart for an overview of some of the tools you'll likely use in your career as a data analyst:

Data Tools	Description	Uses
BigQuery	Serverless enterprise data warehouse that works across clouds and scales with your data	- Brings data together from multiple sources - Analyzes data - Integrates AI and ML
Google Cloud Storage	Managed service for storing unstructured data	- Backs-up and archives data - Data lakes and big data analytics
Dataproc	Managed, scalable service for running Apache Hadoop, Apache Spark, and 30+ open source tools and frameworks	- Data lake modernization - Data science
Dataflow	Managed serverless stream and batch data processing service	- Stream analytics - Log processing
Cloud Data Fusion	Managed, cloud-native data integration service	- Low code ETL - Takes data from various sources into various data sinks

Key takeaways

From cloud storage to cloud management, there are many tools available to streamline your data analysis work. So, selecting environments to host and manage your data from available cloud resources is integral to any data analysis projects.

Resources for more information

To learn more about the tools discussed in this reading, check out these links:
- Google Cloud provides product descriptions for data storage and management tools: https://cloud.google.com/