

Benefits of cloud data analytics

Throughout your journey, you've explored the world of cloud data analytics and learned more about how organizations use cloud data analytics tools. As a professional in the field, it's important to consider the benefits of moving to new tools and exploring new platforms. In this reading, you'll learn more about the benefits of cloud data analytics, and compare these features to more traditional on-premises data analytics. By evaluating the advantages that cloud tools can offer, you can better apply what you've learned to your future career.

Cloud data analytics versus on-premises

Cloud data analytics makes ingesting and storing different data types from multiple sources more efficient, and makes it easier for users to access the data they need at any time. To showcase more of the benefits of cloud data analytics, review the chart to compare some of the key features with on-premises analytics.

Feature	Cloud data analytics	On-premises data analytics
Scalability	Cloud storage and resources are easily scalable to fit changing organizational needs. Because these resources don't need to be established in the physical space, updates can be easily made.	Scaling on-premises resources is a very involved process. In order to add more storage or better processing hardware, updates have to be made to the physical computer system.
Cost	Not having to invest in physical space, hardware, and software for a physical computer makes the cloud a cost-effective solution for organizations of different sizes.	On-premises data analytics require physical space, utility, on-premise security, and initial investment to build computers that can support an organization's analytics needs.
Flexibility	Being able to pick and choose what services your organization needs at any given time gives you a lot of flexibility. With cloud data analytics, you can adjust your strategy as needed.	When designing an on-premise system, it's necessary to decide on what services and functions it can perform ahead of time. If new needs are discovered, it will take a lot of time to change them.
Accessibility	Cloud data analytics allows organizations to access the data they	On-premises data analytics tools are more challenging to access, and

	need when they need it, even if team members aren't on-premises. Data can also be made available to stakeholders wherever they are.	require more management.
Maintenance	Cloud data analytics platforms are typically lower maintenance. They don't require the physical maintenance upkeep on-premises systems require because the physical infrastructure is managed by the cloud provider.	Along with database maintenance, on-premises computer systems require IT teams to keep them updated and functional.

Key takeaways

Cloud data analytics offers a variety of benefits that traditional on-premises data analytics can't deliver, including scalability, lower cost, flexibility, accessibility, and lower maintenance. As you reflect on these advantages, consider how you can integrate them into your upcoming projects, or utilize them in your future career.