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Quick Facts

SAP Solution Brief | PUBLIC
SAP HANA Cloud

Modernize **Your Data Foundation**

THE BEST RUN



Meet database challenges with a modern **all-in-one foundation**

Data is the heart of the intelligent enterprise – and data volumes and diversity increase daily. A cloud-native database solution, SAP HANA® Cloud was built for flexible and efficient data and analytics management. Such advanced technologies as embedded machine learning and integrated data tiering support enhanced services, scalability, and security that foster intelligent data applications and trusted performance at an optimal cost-performance ratio.

SAP HANA Cloud is a database-as-a-service (DBaaS) that delivers a single view of your entire data landscape. It is an all-in-one solution that underpins modern applications and analytics sturdily and cost-effectively. As the cloud-based data foundation for SAP Business Technology Platform, it orchestrates mission-critical applications and analytics across all enterprise data in one complete solution. SAP HANA Cloud seamlessly blends smart multi-model data to power intelligent data applications. Integrated multitier

storage helps you manage data more efficiently and lower your total cost of operations (TCO). And SAP HANA Cloud federates data from your full landscape, including your on-premise and cloud applications and third-party sources. While protecting data with a holistic security framework that includes data anonymization, SAP HANA Cloud provides top-notch analytics performance for all your enterprise data, no matter where it resides.

Meet database challenges with a modern all-in-one foundation

Run intelligent data applications and analytics on **petabytes of data**

SAP HANA Cloud brings you up-to-the-minute services for building and running modern, high-performance transactional applications founded on a modern cloud-native architecture. Developing intelligent data applications with embedded machine-learning capabilities becomes quick work in SAP HANA Cloud. The solution converges your relational, graph, spatial, and JSON document store data into a single powerful system. You can apply enterprise search, machine learning, and predictive analytics techniques to any data from anywhere in your ecosystem. You gain situational awareness by analyzing diverse data in context. And when you capitalize on the high level of scalability in a DBaaS solution, your new applications can support real-time analytics at petabyte scale.

Leveraging a single solution for transactions and analytics lets you streamline data management with database services based on a single source of data. Because you never have to copy transactional data among separate solutions, SAP HANA Cloud lets you derive analytical insights as your operational workloads run. Stakeholders can analyze and act on intelligence as it evolves. You can join other market leaders by delivering immediate insights across your entire data landscape and empowering decision-makers to seize opportunities that less agile organizations miss.

Run intelligent data applications and analytics on petabytes of data

Trust tiered storage and smart multi-model processing for security

Migrate to the cloud at your own speed

Run intelligent data applications and analytics on **petabytes of data**

A recent IDC study¹ found that:

- **65%** of organizations use at least 10 different data engineering and management tools
 - Only **28%** of companies agree that information flow happens at the right speed
 - Only **33%** of organizations say their data and analytics teams respond to business requests within expected time frames
 - **90%** of business intelligence and analytics users reject recommendations from machine learning because they don't trust the data lineage
-

Because SAP HANA® Cloud consolidates mission-critical applications and analytics in one solution, it can replace multiple data management tools. It meets all data needs at proven in-memory speed, helping data and analytics teams meet desired response times. And SAP HANA Cloud helps you create intelligent data applications in which data lineage remains clear, so that users are more likely to trust the data they want to analyze.

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1. IDC Technology Spotlight survey (US48207521), "Digital Enterprise Intelligence: [The Benefits of a Unified Cloud Data Platform](#)," commissioned by SAP in September 2021.

Trust tiered storage and smart multi-model processing for security

Taking advantage of the multiple tiers of storage in SAP HANA Cloud let you keep immediately at hand the data you need frequently, while housing data you need only occasionally in less expensive storage. Whatever the current state of your landscape, multitiering lets you align data storage choices with business priorities – flexibly and securely, at minimum cost for maximum performance.

With SAP HANA Cloud, smart multi-model processing helps you securely power your intelligent data applications. And the solution

provides a holistic security framework, including the tools you need to innovate with confidence in today's business environment. With full security in the data layer itself, built on SAP's decades of experience with enterprise data management, you can easily configure, manage, and monitor data security across your landscape.

Multitiering and smart multi-model processing together simplify data management exponentially, leaving data and analytics experts more time to think strategically in the service of long-term corporate goals.

Run intelligent data applications and analytics on petabytes of data

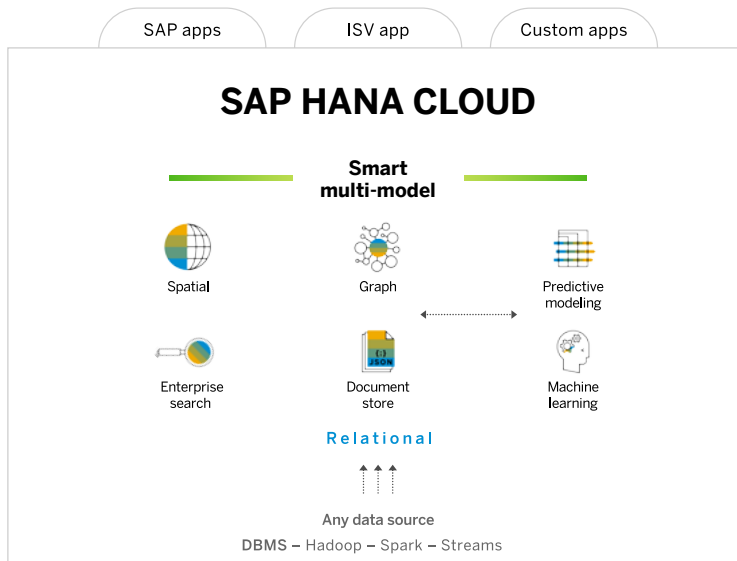
Trust tiered storage and smart multi-model processing for security

Migrate to the cloud at your own speed

With SAP HANA Cloud, organizations can deploy new databases **89% faster** as the result of a **60% improvement** in their database management team's productivity.¹

1. IDC Technology Spotlight survey (US48207521), "Digital Enterprise Intelligence: [The Benefits of a Unified Cloud Data Platform](#)," commissioned by SAP in September 2021.

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Run intelligent data applications and analytics on petabytes of data

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Migrate to the cloud at your own speed

Figure: Array of Data Types in Smart Multi-Model Processing

Migrate to the cloud at **your own speed**

Wherever you are in your data and analytics journey and however fast you're transforming to the cloud, SAP HANA Cloud can match your stride. By supporting hybrid systems and all major public clouds, SAP HANA Cloud sets you free to move to the cloud at your own speed without locking into a single cloud vendor. You can begin the transformation by moving a workload to the cloud to relieve the burden on a local process, or by extending a solution to the cloud with elastic on-demand resource allocation, for example. A self-service migration tool can help with additional steps on your journey.

The smart multi-model database helps you democratize intelligent data applications: even users with limited development and data management skills can create them. In a single solution, SAP HANA Cloud lets you harness all your data from on-premise solutions, cloud systems, hybrid deployments, and third-party sources to deliver comprehensive business insights in real time. You can arm your decision-makers to act with ease at the speed of market change, while you reduce stress on your data management team.

Run intelligent data applications and analytics on petabytes of data

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Innovate flexibly and securely at **optimized cost**

As a cloud-native DBaaS, SAP HANA Cloud makes provisioning new instances simple, so you can control costs by activating and deactivating new instances on demand. And you can avoid deploying extra databases to handle expanding data volumes.

Integrated multitier storage features, including a relational data lake, help you keep frequently used data in memory and other data in more cost-effective storage. You can scale computing and storage resources separately – and elastically. Federation across your full landscape keeps developers and business decision-makers unconcerned about the location of the data they want to

use. You avoid extract-transform-load costs and data duplication, maximizing security and minimizing cost. And SAP HANA Cloud supports consumption-based pricing, with charges based on actual use of resources and services.

With a holistic security framework, SAP HANA Cloud also lets you capitalize on the value of all your enterprise data without violating data safety and privacy. You can draw insights from anonymized data while protecting your organization's reputation through compliance with internal and external regulatory requirements.

**Innovate flexibly and securely
at optimized cost**

SAP HANA Cloud customers have reported such benefits as **78%** less operational downtime, **66%** less IT TCO, and **77%** accuracy explaining abnormal events.

Summary

SAP HANA® Cloud is the single database-as-a-service (DBaaS) for modern applications and analytics across all enterprise data, serving as the cloud-based data foundation for SAP Business Technology Platform. With SAP HANA Cloud, you can handle mission-critical data at proven in-memory speed and deliver real-time analytics that perform at petabyte scale. And you can develop intelligent data applications that embed machine learning – all while protecting data privacy.

Objectives

- Build and run intelligent data applications and services
- Provide one gateway to all data, avoiding data duplication
- Blend multi-model data seamlessly to enrich business processes
- Deliver trusted performance for all users of enterprise data

Solution

- In-memory, smart multi-model, cloud-native DBaaS
- Mission-critical applications and data management in one solution
- Relational, graph, spatial, and document store data in a single database
- Smooth federation of data across on-premise and cloud sources

Benefits

- Harness multitier storage for efficient data management and lower TCO
- Deploy integrated database and data management across your landscape
- Gain deeper insights through machine learning and predictive analytics
- Process transactions and analytics at once with no data duplication
- Journey to the cloud at your own pace without vendor lock-in

Learn more

For details on SAP HANA Cloud, visit the [Web site](#), see [customer stories](#), ask for the [free tier option](#), or explore the [road map](#).



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