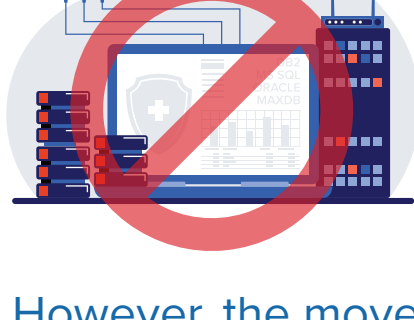


Migrating to SAP HANA

An Opportunity for Modernizing Your Environment

By 2027, SAP Will Cease Supporting Its Applications on the SAP NetWeaver Platform¹



Support also ends for databases such as DB2, MS SQL, Oracle, and MaxDB.

Businesses on a non-SAP HANA database will not be able to utilize new SAP integrations and innovations.

However, the move to SAP HANA or SAP S/4HANA can be lengthy, costly, and complex, especially for large, customized landscapes that run on older, siloed hardware.



To date, more than

34,000 BUSINESSES²

have migrated to SAP HANA.

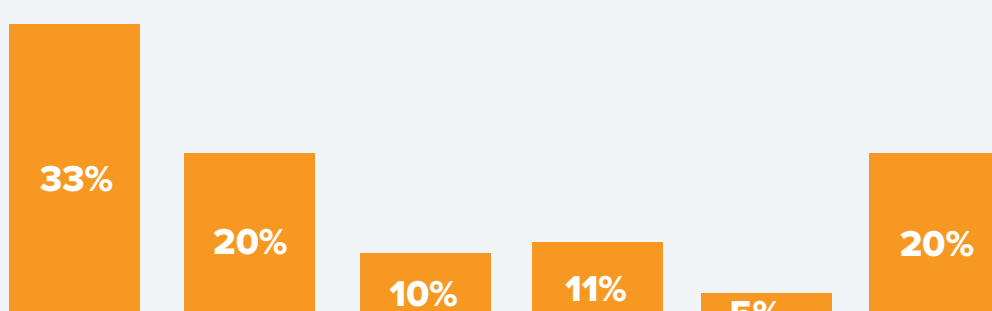
SAP reported in January 2021 that there were

~16,000

customers with SAP S/4HANA.

Expected Year When Migrating to SAP HANA or SAP S/4HANA

Migrating to SAP HANA is a carefully planned process often conducted in multiple orchestrated steps.



Source: IDC

SAP Has Promoted the Cloud As a Preferred Deployment Strategy

There are various cloud options:

Infrastructure-as-a-service at one of the SAP HANA-certified public cloud service providers, such as AWS, GCP, IBM Cloud, and Microsoft Azure.

Hosted infrastructure from managed service providers.

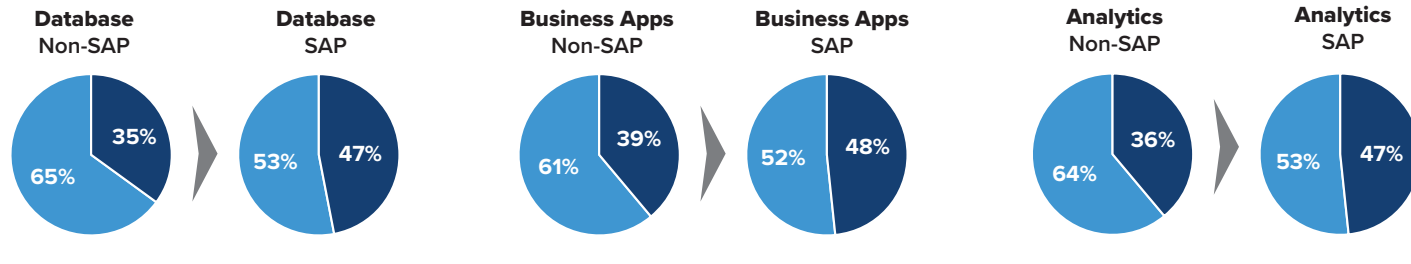
Software-as-a-service platforms, including SAP's own cloud offerings.



Businesses moving to SAP software plan to deploy SAP HANA and other SAP software to a greater extent in the cloud than they did with their non-SAP database.

Migrating to SAP Software Means Deploying More on Cloud

■ Cloud ■ On premises

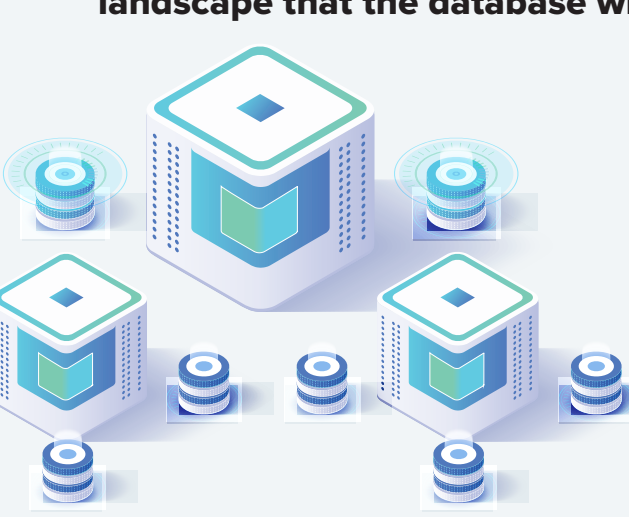


Source: IDC

Migrating To SAP HANA Offers Ample Opportunity To Optimize

Consolidation occurs on a new platform with more memory, performance, and partitioning capabilities, or on a converged appliance.

Streamlining the Linux-based SAP HANA database with the landscape that the database will enable provides for:

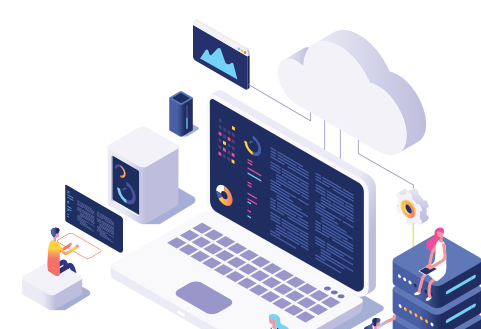


- **Datacenter efficiency** (fast deployment and change management, downtime prevention, and automation)
- **Hybrid cloud management** (hybrid cloud simplicity, governance, policy-based control, self-service functionalities, and automation)
- **Integration** (integrating SAP and non-SAP applications and data for higher data quality and greater business insights)
- **New solution development** (SAP Data Intelligence combines integration, orchestration, metadata management, and connectivity with SAP AI Business Services machine learning in the cloud)

SAP is reengineering many of its applications toward containerization, and SAP Data Intelligence and SAP Commerce Cloud are containerized today.

Considerations When Outlining An SAP HANA Migration Strategy

The operating system (OS) should provide for:



A seamless ecosystem that enables:

- Migrating from bare metal or virtualized servers to private, hybrid, or public cloud
- Harmonizing SAP and non-SAP workloads

- A performance boost through OS optimizations
- Support for Intel Optane Persistent Memory
- Integration with SAP Business Technology Platform
- High availability and data recovery solutions
- Seamless upgrades, live patches, and fixes
- OS-specific reference architectures and optimizations from server OEMs
- OS-driven predictive analytics to prevent issues

- Virtualization
- Enhanced security for containerized applications
- Hybrid cloud environments
- Support for emerging data persistence technologies
- Support for software-defined storage
- Automation of provisioning, application life-cycle management, and network operations

Modernize the Entire Environment

Choosing a platform for SAP workloads is one of many decisions in an SAP HANA migration.

Businesses should look beyond the immediate OS and consider the entire platform their SAP workloads will be running on or interacting with.

This platform should be a **consistent ecosystem** for private, hybrid, public, and multicloud that delivers interoperability, orchestration, and automation.

Many businesses are making SAP landscape and larger IT environment decisions today for the next 10 or more years.



The opportunity is to modernize the entire environment and take advantage of data and application integration capabilities.

Message from the Sponsor

Red Hat helps SAP enterprises standardize on a single, open platform and build on a foundation that sets them up for a future of innovation with a rich portfolio of flexible solutions.

From standards-based solutions for automation, management, and integration, to app containerization and open hybrid cloud, Red Hat's SAP portfolio supports any on-premise or cloud environment with freedom from vendor lock-in.

Not just an operating system, Red Hat solutions are driving intelligent enterprises through optimized stability, scalability, and security for SAP deployments. Red Hat is a market leader in Linux, multicloud container development, and infrastructure automation, with a rich history in the open source community.

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¹ Innovation Commitment for SAP S/4HANA until 2040

² SAP: The World's Largest Provider of Enterprise Application Software