

# SAP HANA on IBM Power Systems virtualized in the IBM Cloud



*Gain flexibility, reliability, security and performance*

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## Highlights

- **Flexibility:** Scale without disruption up to 24 TB, one terabyte at a time
  - **Reliability:** Gain high infrastructure reliability using IBM® Power Systems™; support IBM Cloud™ for SAP Applications Enterprise-class service-level agreements
  - **Security:** Safeguard your data with managed services that address security from the data center to SAP applications
  - **Expertise:** Tap into extensive resources and deep SAP HANA management expertise
  - **Built for business:** Support mission-critical SAP workloads with Power Systems
  - **Performance:** Capitalize on Power Systems with IBM Storwize® all-flash storage delivered in a cloud managed service
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Across a wide range of industries, organizations are moving mission-critical workloads to SAP HANA environments. To maximize the value of this in-memory database, organizations must run on robust infrastructure that offers the right combination of strong performance, exceptional resiliency and flexible scalability. At the same time, many want ways to reduce management complexity so their IT groups can stay focused on core business initiatives.

Whether your organization is planning to refresh your infrastructure, expand your SAP HANA environment or conduct an initial migration to SAP HANA, it might be time to consider managed cloud services.

IBM offers an SAP-certified cloud managed service designed to meet all your requirements for SAP HANA. By choosing SAP HANA on IBM Power Systems virtualized in the IBM Cloud, you gain the benefits of running SAP HANA on the Power Systems platform with all-flash IBM Storwize storage. And once you are on the IBM Cloud, you can tap into artificial intelligence (AI), Internet of Things (IoT), IBM Watson and blockchain solutions to extend the value of your SAP data.



## Generate fast results

Power Systems provide a robust foundation for the IBM Cloud platform. Running SAP HANA workloads on Power Systems enables you to analyze growing volumes of data and produce results rapidly. IBM POWER8® processors also allow you to scale up within a single memory space rather than having to cluster across multiple servers. Power Systems servers provide the memory capacity and bandwidth needed for the in-memory SAP HANA database.

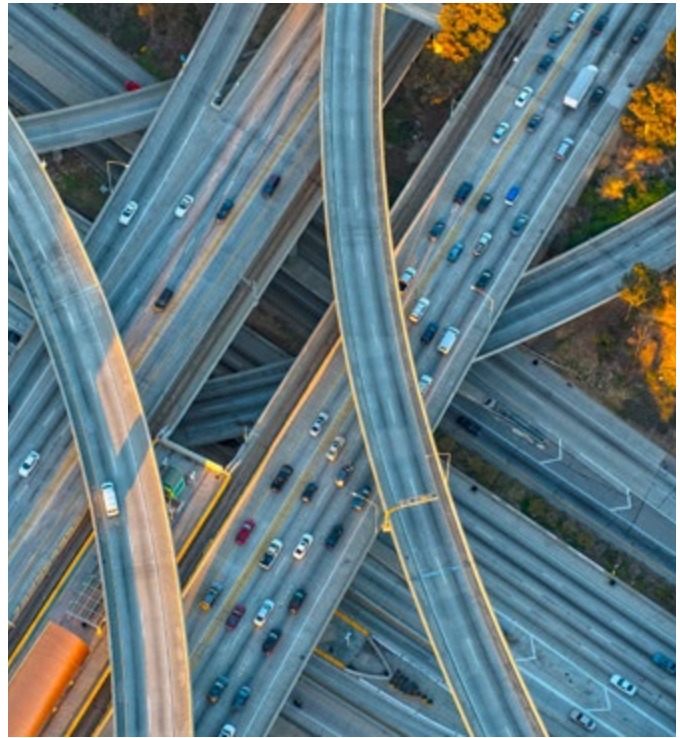
The all-flash IBM Storwize storage solution augments in-memory operation of SAP HANA. With Storwize, the SAP HANA environment can read and write data to the storage system at speeds on par with in-system memory. And by consolidating data into a relatively small footprint, Storwize helps keep costs of the managed service low.

IBM Cloud helps you achieve strong performance no matter where you do business, and the SAP HANA service uses IBM Cloud data centers located across the globe. Unlike other providers, IBM offers high-speed network connections and does not charge for data transferred within the network.

## Maintain uptime for mission-critical workloads

The Power Systems platform offers strong resiliency and high availability for mission-critical SAP HANA workloads. Advanced self-monitoring and predictive failure capabilities help pre-emptively migrate applications before failures occur. IBM PowerVM® virtualization capabilities further bolster availability—using a virtual machine (VM) as a failover target accelerates failover and minimizes interruptions.

The reliable all-flash Storwize storage solution complements the Power Systems platform. This SAP-certified solution offers proven, enterprise-class technology that helps maintain availability for your key workloads.



IBM is committed to further enhancing availability and business continuity in the future. High availability and disaster recovery services (expected by the end of 2018) will enable you to strengthen availability while avoiding the costs of deploying additional systems and data centers.

## Gain the flexibility for change

SAP HANA on IBM Power Systems virtualized in the IBM Cloud gives you the flexibility to adjust your environment as business requirements change. To accommodate growing data volumes, you can scale your database from 128 GB up to 24 TB.<sup>1</sup> Other solutions scale to this size only through custom configurations that chip away at the cost and quality-of-service advantages of a standardized offering.



Unlike on-premises deployments that require you to purchase capacity based on projected needs, IBM Cloud-based managed service enables you to scale up simply and incrementally, one terabyte at a time. Scaling back is just as simple.

SAP HANA on IBM Power Systems virtualized in the IBM Cloud gives you the agility to make changes rapidly. When you are ready to expand your environment, you can deploy a new partition—complete with the operating system, database software, up-to-date security patches and everything else you need—within a few hours.

IBM Cloud also lets you tap into new, cutting-edge technologies. Use extensions to AI, IoT, cognitive and blockchain capabilities without having to work with an outside vendor.

### **Protect data and sustain compliance**

SAP HANA on IBM Power Systems virtualized in the IBM Cloud helps you safeguard data. IBM Cloud provides access to a full stack of security services plus a security team dedicated to supporting more than 12,000 customers in 133 countries. IBM Cloud also helps ensure you meet strict regulations through a variety of global compliance and trust certifications such as HIPAA, PCI, ITAR and more.

### **Control costs and access deep expertise**

SAP HANA on IBM Power Systems in the IBM Cloud lets you avoid large capital expenditures. You gain a fully integrated solution with IBM hardware, software and services while taking advantage of the convenience of an operational expenditure model.

By choosing SAP HANA on IBM Power Systems virtualized in the IBM Cloud, you can also access extensive resources and deep expertise. IBM SAP consultants draw on wisdom gained through a 40-year IBM-SAP relationship.

### **For more information**

To learn more about SAP HANA on IBM Power Systems in the IBM Cloud, contact your IBM sales representative or IBM Business Partner, or visit: [ibm.com/cloud/sap/managed](https://ibm.com/cloud/sap/managed)

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<sup>1</sup> One database within an organization's environment must be 8 TB or larger.



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