



# CLOUD-LIKE AND ON-PREMISES SAP

A blueprint for SAP deployment from HPE and Red Hat

## Hewlett Packard Enterprise (HPE) and Red Hat—creating a consistent IT foundation for growth.

HPE and Red Hat each have nearly two decades of experience in certifying SAP solutions, including those for SAP HANA and SAP S/4HANA. HPE sells, implements, and supports the Red Hat software stack to run and manage these SAP-certified systems.

HPE services teams are trained to deploy and support a variety of SAP solutions with Red Hat software. Advances in automation, management, and systems technologies have allowed HPE and Red Hat to provide new options for on-premises deployment and lifecycle management and to offer further choice in deployment models, including the ability to automate SAP HANA deployment on- or off-premises.



## WHY PUBLIC CLOUD?

Many companies have moved workloads to the public cloud to capitalize on the following advantages:

- A transition from CAPEX to OPEX
- Enhanced deployment automation
- Time to market
- Scalability

However, this move can also lead to conflicts around key factors such as client-defined security, data sovereignty, and network latency. Companies are therefore seeking to combine the perceived benefits of public cloud with the architectural control and data governance inherent in on-premises approaches.

HPE has led the industry in offering a pay-as-you-go consumption model via HPE GreenLake, complementing this approach with advanced automation features, simplified lifecycle management, and scalability. Many SAP® customers want to deploy SAP HANA® and SAP S/4HANA® in an environment that delivers a public

cloud-like experience with the key capabilities of on-premises solutions.

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## ACCELERATE WITH AUTOMATION

Time to market can be the difference between success and failure in a rapidly changing economy. Those capable of deploying SAP applications and supporting infrastructure quickly will have a natural advantage over those deploying manually. A well-organized and well-engineered approach that automates the undifferentiated heavy lifting and incorporates SAP expertise will accelerate deployment and allow organizations to focus on and achieve their business objectives sooner.

## REIMAGINING THE IDEAL SAP PLATFORM

While the motivations may be clear, the mechanisms for achieving cloud-like ease of use on-premises are less obvious. How do you achieve rapid deployment and operational flexibility when faced with the complexity of managing hardware, virtualization platforms, and application stacks—all while simultaneously satisfying business, reliability, security, and performance objectives? Automation is essential, but where and how? Hardware and software architecture matters, but what matters most?

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**Red Hat Enterprise Linux is the #1 commercial Linux distribution in public cloud environments.**

**Red Hat named HPE's 2019 Technology Partner of the Year**  
HPE named Red Hat the Technology Partner of the Year 2019 for hybrid cloud solutions.

This award recognizes Red Hat's outstanding performance and accomplishments in driving meaningful business results for our shared customers.

Red Hat Ansible Automation is an industry-leading enterprise automation platform trusted by over 1500 customers across multiple verticals and geographies, backed by one of the top 10 open source communities worldwide.

**Comprehensive support**  
98% of inbound support calls are resolved by HPE's more than 4000 Linux service professionals.<sup>1</sup>

<sup>1</sup> HPE internal support data, 2018

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## KEY ATTRIBUTES

Any cloud-like, on-premises infrastructure solution for SAP HANA must possess the following key attributes:

- Scalable, modular pools of hardware
- Automated provisioning of hardware and virtual machines
- Automated deployment and configuration of operating systems and application stacks
- Closed loop and online monitoring of infrastructure health
- Simplified license management
- Reliability features
- A centralized and easy-to-use control plane
- Security-conscious design

## BEST-OF-BOTH-WORLDS SAP

Together, HPE and Red Hat have assembled a blueprint for a solution that unites management technologies from HPE with automation and management from Red Hat and HPE Synergy Composable Infrastructure. This is an ideal platform for powering the SAP application tier as well as equipping service providers because it combines the experience of public cloud with the advantages of on-premises deployment.

By embedding SAP deployment expertise (via Red Hat Ansible® Playbooks for SAP HANA deployment), you can minimize errors and speed deployments. Novel management technologies—such as Red Hat Insights, Red Hat Satellite, and HPE InfoSight—allow you to build reliable and robust infrastructures for SAP HANA that ensure greater uptime while remaining flexible and scalable.

And you can precisely, reliably, and easily match capacity to demand and save costs throughout the operational lifetime of your SAP solution. Your business may wish to use this to benchmark your existing approaches to deployment automation and experience, maintenance requirements, and management costs.

## THE BLUEPRINT

The blueprint for SAP success pairs HPE Synergy Composable Infrastructure with several HPE and Red Hat technologies (listed below) to create an automated, cloud-like infrastructure for SAP deployments. HPE Synergy Composable Infrastructure—optionally with HPE GreenLake—provides you with modular, bladed capacity for storage, compute, and network. Red Hat Virtualization provides the efficient resource allocation benefits of virtual machines.

The blueprint uses Red Hat Enterprise Linux® for SAP Solutions as the operating system. Red Hat Ansible Automation Platform automates many aspects of the blueprint, while HPE OneView, Red Hat Insights, and Red Hat Satellite provide provisioning, predictive maintenance, and subscription management, respectively.

The blueprint's SAP application stack includes SAP components and SAP-powered business applications, such as SAP HANA and SAP S/4HANA.

Beyond initial deployment, this blueprint includes technologies that increase robustness, simplify maintenance, and streamline operations throughout the deployment lifecycle.

The net effect of these tools is a resilient SAP infrastructure monitored at many levels to reduce unnecessary downtime and avoid issues with availability and performance.

## LEARN MORE AT

- To see how this blueprint can help your business contact [sap@redhat.com](mailto:sap@redhat.com).
- To learn more about the alliance between HPE and Red Hat, visit [hpe.com/partners/redhat](https://hpe.com/partners/redhat) and [redhat.com/hpe](https://redhat.com/hpe).