HPE Synergy Composer2 Plus

What's new

- HPE Synergy Composer2 Plus management appliance delivers an updated architecture with UEFI (Unified Extensible Firmware Interface) and HPE iLO7.
- Management access to remote systems using HPE iLO enables lights-out operations (iLO remote access) in HPE Synergy Composer2 Plus.
- HPE Synergy management for IPv6-only operations is supported.
- HPE Synergy Composer2 Plus enhances performance for faster lifecycle operations at scale with excellent user interface responsiveness.
- Secure boot in HPE Synergy Composer2 Plus prevents tampering by validating the OS bootloader and OS kernel (and kernel modules and drivers).

Overview

How can data center infrastructure be managed like "infrastructure as code"?

HPE Synergy Composer2 Plus provides native infrastructure management to efficiently match compute, storage, and fabric resources to any workload. "Infrastructure as code" enables on-demand delivery and support of applications and services with consistent governance, compliance, and integration. A software-defined architecture auto-discovers and self-assimilates HPE Synergy resources for immediate use, with template-driven operations. This intelligence increases the speed, efficiency, and reliability of operations. HPE Synergy Composer2 Plus deploys, monitors, and updates the infrastructure from a single interface or via the unified API. HPE Synergy infrastructure supports virtualized, containerized, and bare-metal environments across traditional and cloud environments. Resources can be updated, scaled, and redeployed with minimal service interruptions.

– Secure start in HPE Synergy Composer2 Plus validates HPE iLO7 firmware and UEFI BIOS to enhance attack resilience. Other protections limit access to HPE iLO7 and lock down UEFI BIOS and OS kernel.

Features

One Infrastructure for Any Workload

HPE Synergy Composer2 Plus is a software architecture to the flexible HPE Synergy hardware infrastructure. Software-defined management, powered by HPE OneView, mitigates complexity by quickly matching physical and virtual resources to bare-metal, virtualized and containerized workloads.

Automatically discover the available compute-storage-fabric resources, bring them under monitoring, and display them for use in a single management domain. HPE Synergy Composer quickly organizes all types of infrastructure resources for use—the essence of "infrastructure as code".

Increase productivity and control across a hybrid cloud environment by using HPE Synergy Composer to support both current- and next gen-applications, while accommodating diverse infrastructure requirements and service-level objectives.

Deploy at Cloud-like Speed and Scale

HPE Synergy Composer is a paradigm shift in how to manage infrastructure because it reduces manual interaction and human error, by implementing change operations automatically and capturing the best practices of your experts into templates.

Powerful templates capture best practices and efficiently use resources, including creation of logical infrastructures to provision at near-instant speeds and meet application needs. Templates in HPE Synergy Composer can manage compute, storage, and fabric resources—and even system images!

Scaling is simple and automated. Additional capacity is self-assimilated into larger flexible pools to reduce operational complexity as hardware grows. This capability to quickly add groups of similar physical and logical resources saves time and money as you grow your environment.

Accelerate application and service delivery time by precisely composing and recomposing logical infrastructures at near-instant speeds. Stand up services in minutes with a single line of code and create environments like those of public cloud providers in your own data center on-premises.

Automate Everyday Operations

Simplify IT operations, free stranded capacity, and efficiently manage your environment using the software-defined intelligence of HPE Synergy Composer. Using a single interface for multiple tools allows your administrator or team of administrators to quickly implement lifecycle operational changes.

Mitigate downtime with nondisruptive firmware/driver updates that can update multiple frames to a new baseline while unifying updates for all components. Firmware and OS driver updates are controlled by server profiles and can be staged for activation during a maintenance window to reduce outages.

Updates, from tested releases of component software, are securely handled using a dedicated data network (separate from the management/control network) with redundant path configurations. HPE Synergy out-of-band management offers a dedicated 10 Gbps bandwidth for added security and control.

Server profile templates are powerful software constructs which comprehend compute, storage, and network resources for "infrastructure-as-code" control. Templates "monitor, flag, and remediate" out-of-compliance elements in individual server profiles to aid automation using inheritance properties.

Secure your HPE Synergy system operations beyond mere perimeter security—to prevent, detect, and recover from threats. HPE Synergy Composer2 Plus further helps ensure security by using silicon root of trust from HPE to validate the firmware in use to prevent tampering.

Develop Apps Faster and Smarter

Accelerate your business with a developer-friendly infrastructure that allows you to automate your operations and applications with an extensive partner ecosystem. HPE Synergy Composer is fully programmable to your continuous build, test, and deployment of applications.

Automation is delivered to HPE Synergy Composer by using a unified API. This RESTful API provides simple access for fast policy-based operations—which can include discovery, search, inventory, configuration, provisioning, updates, and diagnosis of the HPE Synergy infrastructure.

Traditional environments can automate processes and design workflows to meet their needs, mitigating multiple time-consuming scripting tools and interfaces. Popular tools such as Microsoft® Systems Center and VMware® vCenter® Server use this fully programmable API to integrate with HPE Synergy.

Operational control and automation of HPE Synergy can be used by applications like Ansible, Chef, and Puppet to achieve productivity for DevOps. Physical resources are presented in the same way as virtual and public cloud resources, so DevOps tools can provision instantly and programmatically.

Developers and users can control HPE Synergy infrastructure programmatically using the unified API to create a hyper-connected data center. Automate operations and workloads, create DevOps-ready infrastructures, construct cloud infrastructure, or deploy containerized micro-service applications.

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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PSN1014963811WWEN, November, 2026.

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