Infrastructure automation made simple
HPE OneView
Build a foundation for a software-defined infrastructure

Make your complex hybrid cloud infrastructure simple to deploy and manage. HPE OneView is the foundation for a software-defined infrastructure—increasing the speed of IT delivery for new applications and services, while still efficiently managing your traditional IT.

Facing new challenges, new requirements, and new operating models
Businesses are managing and consuming IT services across a hybrid infrastructure that combines traditional IT along with private, managed, and public clouds. Managing this type of infrastructure is complex and time-consuming, because common tools and automation are lacking. Many IT administrators often waste countless hours on manual tasks that are prone to errors. On top of that, they must respond to constant change requests, which typically require manual intervention and specialized skills to adjust their on-premises infrastructure.

Complicated lifecycle operations make it difficult for businesses to support current IT tasks, much less new ideas and applications across a hybrid and multi-cloud infrastructure. Today’s IT must be more agile—providing developers and lines of business with more simplified and automated solutions that increase speed, productivity, and innovation.

HPE OneView meets all of these needs and many more. With HPE OneView, you can:

• Transform to software defined infrastructure
  – Deploy infrastructure faster
  – Simplify lifecycle operations
  – Increase productivity

• Compose for any workload
  – Use infrastructure like code
  – Automate and increase agility
  – Enable predictability and compliance

• Connect from core to cloud
  – Provision turnkey private cloud infrastructure
  – Integrate with preferred platforms
  – Deliver projects and outcomes
Transform with software defined infrastructure

Transform on-premises infrastructure by automating complex tasks with software. IT organizations want to spend less time deploying and managing hardware and more time delivering IT services. Software-defined automation in HPE OneView enables IT administrators to deploy infrastructure faster, simplify lifecycle operations, and increase productivity.

Using HPE OneView, IT administrators create a catalog of workload optimized infrastructure templates, which allows generalists to rapidly and reliably provision compute, storage, and fabric resources. These templates can quickly provision physical, virtual, and containerized host systems including BIOS settings, local RAID configuration, firmware baseline, and shared storage and more. Software-defined intelligence enables automated provisioning with repeatable templates that ensure high reliability, consistency, and control, which all lead to lower operating expenses.

HPE OneView simplifies lifecycle management across the entire infrastructure. IT can apply firmware and driver updates within the template that provides a reliable and non-disruptive way to firmware updates. A consolidated and easy to use interface in HPE OneView provides a unified view of the health of servers, profiles, enclosures, storage, and networking. IT administrators can also proactively monitor the health of the entire infrastructure, sending alerts before issues create any downtime.

The HPE OneView Global Dashboard extends this unified view across multiple data centers anywhere in the world, providing a simple, efficient, and unified view of the shared storage pools and the health status of servers, profiles, and enclosures.

Plug-ins connect HPE OneView with VMware vCenter® and Microsoft® Systems Center. IT administrators can perform routine physical infrastructure management tasks like updating firmware and expanding clusters without leaving the tools they are familiar using.

Compose for any workload

Once processes have been software-defined with HPE OneView, IT administrators can easily compose on-premises physical infrastructure. The physical infrastructure of the data center is defined using software, which makes it programmable and able to be managed as code through one unified API. Using software templates, a single line of code can fully describe and compose all the physical resources required for an application, a virtual host, or a container infrastructure. This capability eliminates time-consuming scripting, allowing users to reduce the time it takes to compose new infrastructure.

A growing list of automation partners are taking advantage of the unified API in HPE OneView, providing IT administrators with a wide range of automation tools, including Ansible by Red Hat®, Chef Software, Puppet, PowerShell, Python, Terraform, and VMware vRealize® Orchestration™ (VRO). Using the unified API in conjunction with these popular tools, IT administrators can rapidly deploy and update servers, storage, and networking simultaneously. Composing new infrastructure is not only faster and more agile, it is also predictable because automation reduces human error.
HPE OneView enables IT administrators the ability to connect their software-defined infrastructure from core to cloud by provisioning turnkey private cloud infrastructure with a diverse partner ecosystem. IT organizations can leverage the partner ecosystem to integrate HPE OneView within their existing management frameworks with their preferred platforms. These capabilities allow teams to deliver projects consistently while meeting desired outcomes for key stakeholders.

Through HPE OneView integrations with composable ecosystem partners, IT administrators can link HPE OneView as a physical infrastructure provider into Open Source DevOps or Cloud tools. Operations of large scale production environments are streamlined because IT administrators no longer need to spend valuable time writing, debugging, and updating custom scripts. HPE OneView customers can now transform their infrastructure, compose every workload, and connect from core to cloud while still working with the composable ecosystem partners such as Morpheus, Micro Focus, and CANCOM.

HPE Composable Infrastructure ecosystem

A growing list of ISV partners are taking advantage of the unified API in HPE OneView to automate solutions for customers. These partners range from large software suites like VMware vCenter, Microsoft System Center, to focused solutions providers like Chef, Docker, Ansible, Arista, Chef, Densify.com, Docker, Eaton, FS, a NiLyte, Puppet, Schneider Electric, Terraform, and many others. HPE is continuing to work with ISV partners to further enhance and expand the HPE Composable Ecosystem. By integrating with the unified API in HPE OneView, ISVs can provide solutions that reduce the time their customers spend managing their environments. Recently introduced integrations with HPE OneView include:

- **Chef Software**: Chef Automate gives you a full-stack continuous deployment pipeline, automated testing for compliance and security, as well as visibility into everything that’s happening along the way.
- **ServiceNow**: HPE OneView integration with ServiceNow allows IT operators to detect problems and provide ease of troubleshooting for their HPE infrastructure.
- **Red Hat OpenShift**: HPE OneView integration with OpenShift allows IT operations and application development teams deliver applications faster.

For more information, please refer to [hpe.com/info/composableprogram](http://hpe.com/info/composableprogram).

HPE Composable Ecosystem Partner Integrations

- **Microsoft System Center integration** provides support for HPE ProLiant, and HPE Synergy Gen10, Integrity Superdome Flex, Synergy Composer with HPE OneView, as well as firmware and driver support from the latest SPP.
- **HPE OneView for Microsoft Azure Log Analytics** provides hybrid cloud infrastructure management for on-premises HPE hardware and firmware inventory, health status, and alert analysis using cloud-based Microsoft Azure Log Analytics.
- **VMware** integration adds integrated VMware ESXi™ deployment for ProLiant Gen9 and Gen10 servers, rolling cluster firmware updates directly from the VMware vSphere® client, and enhanced cluster consistency checking and reporting.
- **HPE OneView of VMware vRealize Orchestrator** provides an easy-to-use, drag and drop access to automation of HPE OneView managed hardware deployment and firmware updates, including new workflows for iLO Virtual Media ESXi OS installation, online firmware updates, and import hosts and clusters using vRealize Orchestrator.
- **Support for VMware vRealize® Operations Manager™ 6.7**, including support for HPE Synergy D3940 storage enclosures, more detailed alert descriptions, and HPE OneView Remote Support alerts.

### Connect from core to cloud

**HPE Pointnext**

- **HPE OneView Installation & Startup Services**.
- **HPE OneView Startup Installation and Configuration Service (fixed, U1V78E, Flex, H6K67A1)** includes an orientation session on how to use the software.
- **HPE OneView Installation and HPE BladeSystem c7000 Migration Service (fixed, U1V79E, Flex, H6K68A1)** assists you in transitioning to HPE OneView from VCEM, as well as accelerating and simplifying deployment.
- **HPE Startup BladeSystem c7000 Infrastructure Service (fixed, U602E, Flex, HA114A1#5FY)** is a c7000 hardware installation service that allows you to also install and configure HPE OneView at the same time as the hardware installation.

**HPE Education Services**

- **HPE OneView training** from HPE Education Services includes a broad range of courses that help you develop skills on your journey to composable infrastructure:
  - **HPE OneView Overview and Configuration for Synergy WBT (Course # H0LN3AAE)** is a two-hour online course that demonstrates key solution elements to help you get started.
  - **HPE OneView Administration (Course # H4C04S)** is a three-day instructor-led course that covers deeper-level HPE OneView administration with Virtual Connect network and storage configurations, scripting skills, and performing day-to-day administration and troubleshooting tasks. This can be delivered on-site face-to-face or virtually using our award winning Virtual Instructor-Led Training methodology.
  - A wealth of supporting eLearning for the HPE OneView Ecosystem with short self-paced sessions on HPE OneView integration with VMware vCenter, Microsoft System Center and other technologies.

For more information, visit [hpe.com/ww/learnconvergedsystems](http://hpe.com/ww/learnconvergedsystems).
# New features in HPE OneView v5.0

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<tr>
<th>New features</th>
<th>Description</th>
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<tbody>
<tr>
<td>New Firmware Compliance Dashboard for all HPE OneView Appliances</td>
<td>HPE OneView generates a new Firmware Compliance view. HPE OneView will compare the installed firmware versions of the managed hardware with the new component versions in the added SPP and will generate this compliance report. Additionally, this feature allows the user to apply various filter views and export into excel and CSV formats.</td>
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<td>Automated provisioning for SAN volumes for HPE ProLiant DL and Apollo servers</td>
<td>This feature provides a simple way to automate SAN volume provisioning in HPE OneView via server profiles and templates.</td>
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<td>New User Interface</td>
<td>HPE OneView v5.0 continues to advance software-defined intelligence with a new updated user interface for provisioning, updating, and integrating compute, storage, and networking infrastructure.</td>
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<td>HPE OneView Global Dashboard 1.8</td>
<td>Users can now troubleshoot alerts and view core inventory data across as many as 75 HPE OneView appliances or HPE Synergy Composers, 150 HPE Hyper Converged, and 25 HPE SimpliVity clusters. An upgraded user interface provides an improved menu structure for better navigation and easy access to common tasks.</td>
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Real-life results

HudsonAlpha is one of America's leading genome research institutes. To meet its requirements for a robust and versatile platform capable of managing and analyzing massive volumes of data, HudsonAlpha implemented a testing regime for HPE Synergy with HPE Synergy Composer powered by HPE OneView and HPE Synergy Image Streamer. The solution supports HudsonAlpha's high-impact research by:

- Delivering the resources researchers need for their life-saving research
- Enabling HudsonAlpha to conduct its work with finite resources
- Accelerating IT service delivery
- Providing an infrastructure automation engine with automated workflows
- Streamlining provisioning and lifecycle management across compute, storage, and fabric
- Enabling resources to be controlled through a unified API

Porsche Informatik needed to ensure its business-critical apps remained highly available 24x7 and to drive 100% accuracy of its business outcomes. This global automotive manufacturer chose HPE Synergy and HPE OneView to help them meet these goals. Today, Porsche Informatik benefits from:

- 90% faster new-configuration deployment times
- 50% less administrator and engineer management time
- 50% faster detection of routing problems
- 30% better system availability, ensuring the delivery of business-critical applications
- Support for the company's commitment to shaping digitalization of the automobile industry
- Freeing IT staff from routine tasks, enabling them to react more quickly to business requirements and work on customer service improvements
Let’s get started

Contact your HPE sales representative to schedule a live demonstration of the unique capabilities of HPE OneView. View the HPE OneView online demos to discover more about the benefits the solution offers. And when you are ready, download HPE OneView free of charge for 60 days. Discover how HPE OneView’s breakthrough capabilities can change your business—forever.

Learn more at hpe.com/info/hpeoneview