

Brochure

Fast-track to cloud

HP CloudSystem



Accelerate your journey to the cloud

Why choose HP CloudSystem? It's all about the value.

The industry's most complete, integrated, and open solution for building and managing clouds, HP CloudSystem offers a fast, simple path to the cloud.

- Make all cloud users more productive through a consumer-inspired interface
- Gain control of hybrid cloud from a single platform with the broadest support of virtualization technologies and public clouds
- Get up and running quickly—install and deploy in hours, create cloud services in minutes
- Grow as you need with a built-in upgrade path from basic infrastructure cloud services to the most advanced application cloud services

The cloud promises big things—improved innovation, increased agility, and reduced costs. But to realize these important benefits, you need to deploy the right cloud platform from the right vendor. If the time is now for your organization to look to the cloud to deliver more business value, HP CloudSystem can get you there—with greater consistency, choice, and confidence.

Ready for the new style of IT?

For decades, IT followed a component-focused model, integrating an ever-growing number of elements into the data center, including hardware, storage, networking, and applications. This drove down component costs, but put the burden of integration on IT. Virtualization improved resource utilization through system consolidation and resource pooling, but added to the management complexity.

Now cloud has emerged, empowering users with automated self-service access to a range of services. To fully capitalize on cloud, IT needs to change the way it operates—transitioning to a new model that delivers IT as a service.

But how do you get to this “new style of IT,” and get there fast? Enter HP CloudSystem—your fast, easy on-ramp to the cloud.

Revealing an exciting new face of cloud

Offering more consistency, choice, and confidence as you transform IT, CloudSystem is HP's flagship solution for building and managing clouds. You can run services on premise in your private cloud, and you can manage off-premise services, creating a hybrid cloud.

Designed to meet the needs of enterprises and service providers, HP CloudSystem redefines the face of cloud. It is based on a consumer-inspired experience that is designed to make all cloud users more productive. CloudSystem enables your transition to cloud from previously virtualized non-cloud environments, or to start your journey from scratch with a new cloud environment. It leverages optimized HP CloudSystem that are easy to buy, manage, and support—accelerating your time to cloud value.

Leveraging the experience gained from more than 1,100 customers worldwide, the newest generation of HP CloudSystem empowers your organization to deliver cloud infrastructure and application services. You can use CloudSystem to get to the cloud quickly and cost-effectively, while supporting future growth and flexibility.

HP—the cloud leader



“HP leads the pack”

HP was recognized as the “sole private cloud leader,” whose “combined solution scored highest in the evaluation for its current offering” in Forrester Research, Inc.’s, “The Forrester Wave™: Private Cloud Solutions, Q4 2013.”



“The overall leader”

HP was identified as the leader in an assessment of 11 vendors in the “Ovum Decision Matrix: Selecting a Virtualization and Cloud Management Solution, 2013–14.”

HP Cloud OS—enterprise-grade OpenStack® technology

HP has invested heavily in the OpenStack project. HP CloudSystem, powered by HP Cloud OS, includes numerous OpenStack components, including Nova, Cinder, Neutron, Keystone, Glance, and Horizon. With CloudSystem, you’ll benefit from consistent, open application programming interfaces (APIs) for hybrid cloud for integration and portability; flexible, plug-in technology to accelerate time-to-market; a dynamic community and ecosystem; and attractive economies of scale.

Consistency empowered

Increase productivity with a consumer-inspired experience

The cloud is all about self-service access to a wide array of services. But too often, cloud platforms are not designed with the consumer of the service in mind, making the services cumbersome to use. You need IT systems that enable your users to get more done in less time. That’s why HP designed CloudSystem with all-new, simplified, and consistent user experiences across all environments. The interface used by every role—cloud service consumers, service architects, and cloud administrators—has been designed with those users in mind. These consistent, easy-to-use interfaces can significantly boost productivity.

With consistency built into HP CloudSystem

- Cloud consumers can use the service marketplace to easily select and customize all the services they need in minutes, regardless of where they run in a hybrid cloud environment.
- Cloud service architects can easily design services for consumers. The drag-and-drop designer enables architects to create and publish new multi-tier services quickly and easily.
- Cloud administrators can seamlessly manage cloud resource pools and the underlying infrastructure with an administration console aligned with HP OneView.

Choice simplified

Avoid lock-in with the most open hybrid cloud solution available today

At HP, we’re about choice, which is why we based all of HP Converged Cloud solutions, including HP CloudSystem, on a common architecture powered by HP Cloud OS—HP’s enterprise-grade OpenStack implementation.

Opening the door to choice, HP CloudSystem enables you to:

- Gain greater control—One cloud management platform lets you manage all your cloud services—existing services in your own cloud, new services you choose to build, and services you get from public clouds.
- Meet demand, at any time, at any scale—Burst to external clouds to access the on-demand resources you need to support uneven or unexpected workloads. Your hybrid cloud environment can include HP Public Cloud, Amazon Web Services, Microsoft® Windows® Azure, bursting-certified HP CloudAgile service providers, and even other CloudSystem clouds, owned and operated by you or your managed service provider.
- Simplify integration—Use OpenStack resources and APIs to extend your cloud environment. Protect your investments with support for the vast majority of the infrastructure hardware and operations management tools currently used by enterprises worldwide.

HP CloudSystem supports a wide range of operating systems and virtualization technologies, including VMware, Microsoft Hyper-V, and Red Hat® KVM. You’ll benefit from improved performance and ensured reliability because CloudSystem is optimized for HP Converged Infrastructure. This fully integrated solution works easily with HP and third-party hardware and software, so you can preserve your investment in existing infrastructure, tools, and processes.

Confidence accelerated

Get fast time-to-value with an easy on-ramp to cloud

Once you decide to move to cloud, you want to put the process in motion immediately—and you can do it with HP CloudSystem. Start with a fully integrated cloud solution built on an HP ConvergedSystem—an integrated platform designed to be easy to buy, manage, and support. Or you can upgrade your existing virtual environments to cloud in just hours. Begin with any type of cloud services—from basic infrastructure services to advanced application services—and grow seamlessly at your own pace.

- Reduce service delivery time from days to minutes using automated provisioning
- Quickly build service catalogs with a wide range of mainstream applications from Microsoft, SAP, Oracle, and many other vendors, using pre-defined HP Cloud Maps

Right-start, right-fit offerings

If your organization is just starting the journey to cloud, you can begin by deploying a platform that supports basic cloud infrastructure services—such as the easy-to-deploy **HP CloudSystem Foundation**. With CloudSystem Foundation, you benefit from:

- Delivering simple infrastructure services within minutes, powered by HP Cloud OS, the common enterprise-grade OpenStack cloud architecture from HP
- Open APIs for both administrative and cloud service functions, including OpenStack APIs, enabling highly automated cloud delivery
- Fast and easy installation via software appliance delivery model
- Simple administration aligned with the HP OneView console
- Ability to seamlessly upgrade to HP CloudSystem Enterprise

If you need a more comprehensive cloud solution, you're ready for **HP CloudSystem Enterprise**. This hybrid cloud platform is designed to deliver advanced infrastructure services, as well as platform and application services. The enterprise solution provides all the capabilities and value of CloudSystem Foundation plus:

- Delivering advanced infrastructure and application services in minutes
- Enterprise-class lifecycle management for hybrid cloud services
- Service marketplace, making it easy for consumers to request cloud services
- Drag-and-drop designer for rapidly defining new multi-tier cloud services
- Pre-defined service catalog entries (HP Cloud Maps) for 200+ common applications
- Integrated capacity planning, disaster recovery, and bursting to public clouds
- Investment protection for HP CloudSystem Matrix users; manage new Cloud OS resource pools alongside your existing CloudSystem Matrix resource pools

HP CloudSystem is a fully integrated solution in the HP ConvergedSystem portfolio, which follows holistic design principles and is engineered from the ground up for cloud. Optimized for HP Converged Infrastructure, CloudSystem leverages the unique HP capabilities of HP BladeSystem, HP OneView, HP 3PAR StoreServ, and HP networking solutions.

CloudSystem can also be implemented as a software-only solution using your existing infrastructure. Whichever offering you choose, you receive the same consistency, choice, and confidence that HP offers in its complete range of ConvergedSystem solutions.

Cloud experts you can rely on

HP provides a wide range of HP Cloud Professional Services to help you implement the CloudSystem offering—allowing your organization to move to the cloud quickly and leverage the benefits of the cloud effectively. These experts can advise, transform, and manage your cloud journey and investments. With an end-to-end lifecycle approach, we can work together to address your needs in the areas of people, process, and technology.

- Start with the HP Converged Cloud Workshop to understand opportunities and risks of cloud to accelerate business outcomes.
- Accelerate your cloud initiatives with advice and practical experience.
- Build confidence in an implementation driven by standard practices, tooling, processes, and frameworks.
- Lower risk of deployments and optimize cost and quality with HP Converged Cloud Services.
- Drive efficient cloud operations with proactive monitoring, preventative maintenance, tuning, management, support, and optimization of your hybrid cloud environment using HP Proactive Care and HP Datacenter Care.
- Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment, with HP Financial Services; if you prefer, you can move to the metered, pay-per-use model with HP Flexible Capacity Service.

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