

Expand your AWS public cloud to hybrid to meet business needs

HPE Helion: Hybrid Infrastructure for AWS

Move apps and data between the AWS public cloud and your private cloud to improve security, performance and costs

Optimized to meet business demands

- Improve security and compliance controls for more sensitive applications and data
- Speed app development and performance with private cloud resource flexibility
- Control costs using existing hardware resources for longer running applications

Open, AWS-compatible cloud architecture

- Build a hybrid cloud with seamless app portability between the AWS public cloud and your own private cloud
- Use existing AWS management tools with hybrid cloud management

The right mix for your business

- Meet the specific needs of the business with a choice of deployment options



Investment protection and flexibility to meet needs

Meeting the unique cost, capability, and compliance requirements of each workload requires that organizations look for the right mix of public and private clouds. You need to protect your existing investments in AWS public cloud standards, while adding flexibility to enable workloads to flow seamlessly across public and private cloud boundaries as requirements evolve.

Developing and deploying apps in the Amazon Web Services (AWS) public cloud often falls short of business policies or government regulations. Private clouds help meet security controls for more sensitive apps, ensure data is stored in country, and control the costs for stable, long-running apps. Private clouds can also leverage specialized resources for greater performance. As a result, 68 percent of current hosting and cloud customers have either migrated apps from a public cloud to a private cloud, or plan to do so in the future.¹

But it's difficult to find a private cloud that works seamlessly with—and leverages—existing AWS investments, and moving apps from AWS to a private cloud usually requires some re-writing and re-tooling.

An AWS-compatible private cloud for your hybrid needs

Hewlett Packard Enterprise Helion enables the creation of hybrid infrastructure for AWS that allows you to use your existing tools and processes to move apps and data between the AWS public cloud and your own private cloud. It enables you to achieve the right mix of cloud services to meet compliance requirements, control costs by balancing use of existing CapEx and OpEx investments, and dramatically accelerate development and performance cycles.

¹ 2016 Microsoft Cloud and Hosting Summit Survey, 451 Research

“By creating a pool of hardware that’s flexible and allowing faculty to use it for labs, classes, simulations, data analytics—whatever they want—you’re creating an economy of scale and scope that lets the institution as a whole leverage that investment. And you’re optimizing your capital expenditures. That’s really the key.”

– David Lifka, Director, Cornell University Center for Advanced Computing

“The AWS skills definitely come in handy [on Eucalyptus]. However, we also found that working with Eucalyptus makes us appreciate the AWS API even more and make use of it more often.”

– Hutch Kolozyan, Director, Nava Solutions

Build and run a true hybrid infrastructure for AWS

HPE Helion is the only solution portfolio that provides all four of the critical capabilities you need to run a true hybrid infrastructure for AWS in a single solution.

The benefits can be significant. By moving some workloads from a public to a private cloud, enterprises have dramatically sped innovation development and releases while controlling costs and maintaining the compliance and security controls needed.²

Seamless application mobility

Move application virtual machines (VMs) seamlessly between the AWS public cloud and your own private cloud via AWS application programming infrastructure (API) support without any changes to existing tools and processes. The popular AWS development tools your team depends on are also supported, so you can use them across your entire cloud infrastructure.

Hybrid cloud management

Use your existing tools for AWS public cloud management to manage your private cloud region for simplified hybrid cloud management.

Security and compliance controls

The right set of compliance policy and security controls help you meet data governance requirements for your more sensitive applications and data in your private cloud.

Resource flexibility and utilization

Accelerate performance and time-to-market with an automated private cloud infrastructure that can be optimized for specialized app performance and to utilize existing hardware and tool investments.

The value of an open architecture

Innovate and integrate by leveraging the Hewlett Packard Enterprise’s commitment to open standards. HPE Helion solutions provide the right control you need while preventing vendor lock-in with support for both HPE and non-HPE platforms and API integration with your existing management tools.

Delivering the right mix for your business

HPE Helion offers a choice of deployment options to deliver the capabilities you require.

- HPE Helion Eucalyptus is AWS-compatible private cloud software with support for AWS APIs and development tools you can deploy and manage on your own infrastructure.
- HPE Helion Managed Eucalyptus Service allows you take advantage of HPE experts to manage your AWS-compatible private cloud with an OPEX investment service model. It removes the complexity and expense of managing your private cloud, allowing you to focus on your key business objectives.
- And to give you the support you need, HPE Helion Professional Services offers the experts you need to meet your unique workload use case requirements or specialized cloud management, and fill in any skill set or expertise gaps you may have.

Accelerate your hybrid results

Delivering the performance your business needs means choosing the right cloud for each workload or application. The HPE Helion portfolio offers the only way to meet all four of the critical capabilities you need to run a true hybrid infrastructure for AWS as a single solution. It also provides proven solutions for operating and extending hybrid cloud as your needs grow and mature.

So build your seamless AWS-compatible private cloud and give your business the hybrid flexibility it needs. Contact your Hewlett Packard Enterprise sales or partner representative to discuss what you need to deliver your hybrid infrastructure for AWS today.

Learn more at hpe.com/cloud/usecases

² Hewlett Packard Enterprise case study: [Cornell University, Nava Solutions](#)



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