

RED HAT OPENSTACK PLATFORM ON HPE PROLIANT DL SERVERS

A private cloud solution from Red Hat and Hewlett Packard Enterprise

DATASHEET

INTRODUCTION

To compete in a fast-paced business climate, enterprises need a modern infrastructure that delivers elastic, massively scalable capabilities in compute, networking, and storage. Private cloud technologies help IT organizations meet rapidly changing business and market requirements. However, building a private cloud yourself can be a complex and costly process. You need cloud infrastructure expertise to research, test, integrate, and validate many components. You must maintain and support IT environments to guarantee high user availability, and you have to constantly audit new products and technology to keep your cloud environment from becoming obsolete before generating a return on investment.

As the demand for accessible cloud continues to grow, many organizations are compelled by the benefits of private cloud, but worry that the costs associated with maintaining their own servers might exceed their resources. The Red Hat® OpenStack® Platform and Hewlett Packard Enterprise (HPE) ProLiant DL Servers solution is a fully integrated private cloud offering that is ideal for first-time, entry-level deployments. With a validated deployment architecture, this secure solution gives organizations access to the latest cloud technologies and reduces total cost of ownership (TCO). In a dense landscape of deployment possibilities, the Red Hat OpenStack Platform on HPE ProLiant DL Servers architecture provides one proven, secure solution.

FEATURES + BENEFITS

RED HAT AND HEWLETT PACKARD ENTERPRISE

Red Hat and HPE work together to provide market-leading, industry-standard alternatives to proprietary operating environments. Red Hat and HPE jointly engineered solutions are uniquely open source and modular and deliver greater cost efficiency and flexibility than traditional, proprietary cloud platforms. Building on a Red Hat and HPE open platform leads to massive cost savings without compromising security, performance, or scalability. And more importantly, it frees customers from vendor lock-in. Together, Red Hat and HPE deliver:

- A comprehensive portfolio of physical and virtual application development and deployment infrastructure solutions.
- A unique blend of open technology, price/performance efficiency, and enterprise credibility.
- An ongoing manageable and predictable software cost model.

TECHNICAL SPECIFICATIONS

THE SOLUTION ARCHITECTURE AT A GLANCE

Comprised of several customizable HPE ProLiant rack servers configured for high-availability clustering and monitoring by Red Hat OpenStack Platform, this HPE OpenStack architecture is a complete, open solution that simplifies and accelerates deployment so that organizations can take advantage of the benefits of cloud sooner and with less risk. Validated, integrated components combined with expert services and support help you build an agile, scalable, enterprise-grade



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OpenStack cloud environment tailored to your business needs. HPE and Red Hat verify this solution as stable, reliable, secure, and interoperable, so that enterprises can deploy with confidence and flexibility. Through documented designs, deployment guidelines, and purpose-engineered configurations, the Red Hat OpenStack on HPE ProLiant DL Servers solution for entry-level deployments of private cloud incorporates these elements into a unified architecture framework:

Red Hat OpenStack Platform

Red Hat OpenStack Platform is a production-ready cloud foundation that delivers performance, scalability, and security. It's co-engineered with Red Hat Enterprise Linux® for enterprise functionality that increases performance and stability. An integrated director offers live system upgrades and updates, giving you access to new innovation. You get an integrated, optimized, and managed foundation for production-ready clouds.

HPE ProLiant DL380 Servers

HPE's family of ProLiant rack servers provide the most comprehensive portfolio of versatile, high-performance, multiworkload compute hardware for the enterprise. HPE ProLiant DL380 servers deliver the flexibility and data-center standardization required for intensive, critical workload compute capabilities.

HPE ProLiant DL360 Servers

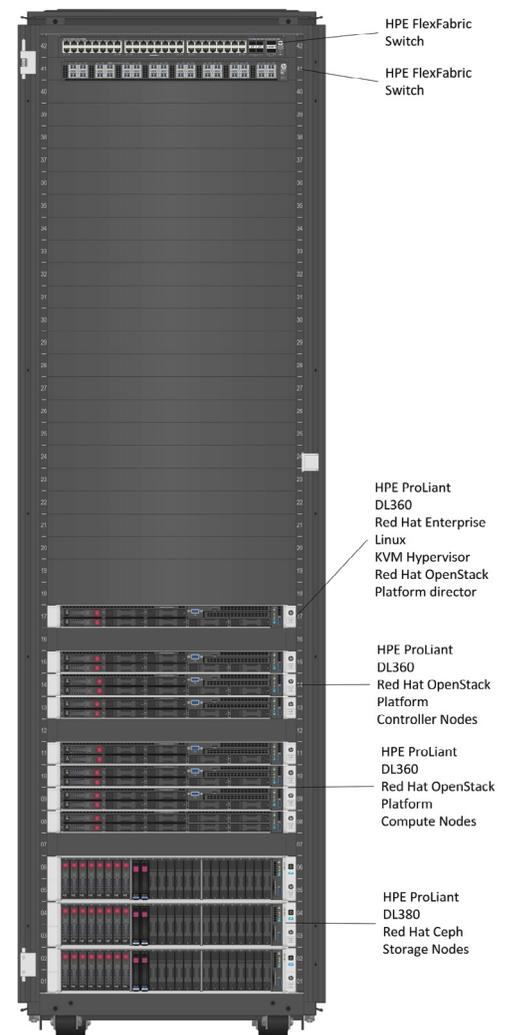
HPE ProLiant DL360 servers provide dense performance with ideal memory and input/output expandability for multiworkload compute capabilities within the datacenter.

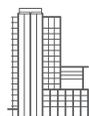
Red Hat Ceph Storage

Red Hat Ceph Storage is an open, software-defined storage platform that unifies management and operations across container, virtual, and private and public cloud resources running on standard servers and disks. Red Hat Ceph Storage provides block, object, and file storage in a flexible, self-healing, and self-managing platform with no single point of failure.

HPE FlexFabric

HPE FlexFabric is a high-density, ultra-low latency HPE FlexFabric 5930 switch used to converge datacenter appliances delivering rapid provisioning capabilities in the multitenant cloud environment.





ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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RED HAT OPENSTACK PLATFORM AND HPE PROLIANT SERVERS BENEFITS

By deploying Red Hat OpenStack Platform on HPE ProLiant DL servers, organizations benefit from the unparalleled performance, scalability, and reliability of a proven, tier-one private cloud solution. Founded on industry-leading products and award-winning services, Red Hat and HPE private cloud offerings incorporate principal open source technologies and industry best practices. Deploying Red Hat OpenStack Platform on HPE ProLiant DL servers has these advantages for the enterprise:

Entry-level deployment

Allows simplified deployment with a lightweight architecture optimized for enterprises building their first private cloud

Greater IT efficiency

Optimizes on-premise private cloud IT by controlling resource utilization

Superior IT agility

Accelerates time to market with self-service capabilities that streamline operations

Better IT reliability

Maximizes uptime to facilitate more productive development cycles

Improved scalability

Scales out as required to meet elastic demand

Faster time to value

Eliminates single-vendor lock-in and removes the risk of deployments to provide a cost-effective solution

Transformed IT provisioning

Delivers a proven, modular, open source architecture that relies on the appliances and software of industry-trusted vendors

Award-winning support

Provides extended enterprise life-cycle support that covers all software and appliances

LEARN MORE

OpenStack cloud technologies can give you a competitive advantage in a quickly evolving market. With integrated, certified components, fast deployment, and enterprise support, the Red Hat OpenStack Platform HPE ProLiant DL Servers private cloud solution delivers the agility, efficiency, and control you need to transform your IT organization into a valuable business asset.

Learn more:

- [Deploying Red Hat OpenStack Platform 10 on HPE ProLiant DL Servers reference architecture](#)
- [Strategic Alliance: Red Hat and Hewlett Packard Enterprise](#)
- [Hewlett Packard Enterprise | Red Hat Alliance](#)