



FUJITSU PRIMEFLEX for Red Hat OpenStack

Your Reliable Path to OpenStack Private Cloud Deployment

Getting your IT ready for the digital business era

The “digital first” imperative is increasingly becoming a reality in those enterprises seeking to transform business models in order to enable innovation, new revenue streams and a better customer experience. The cloud is the ideal platform because it is agile enough to adapt quickly to the challenges of digital business initiatives. And OpenStack is the fastest growing cloud management platform; it is cost-effective, open, flexible and massively scalable. Specifically designed to support the elastic nature of a true cloud, OpenStack fully satisfies the requirements of next-generation cloud applications. However, there are various risks that can impact time lines and budgets in the implementation phase of a complex private cloud project. You need to make sure that enough skilled resources are on board for the design, build and deployment phases – and later on you also need to take care of maintenance and the ongoing innovation of the complete technology stack.

FUJITSU Integrated System PRIMEFLEX for Red Hat OpenStack

To mitigate those risks, Fujitsu and Red Hat jointly developed a reference architecture for building an integrated infrastructure solution for OpenStack private cloud IaaS deployments. FUJITSU Integrated System PRIMEFLEX for Red Hat OpenStack is comprised of a high-performance and energy-efficient Fujitsu hardware stack, the market leading Red Hat

Enterprise Linux OpenStack Platform, one-stop support and a comprehensive professional service portfolio – all in one solution package. PRIMEFLEX for Red Hat OpenStack is the most reliable way to deploy a highly flexible, open and cost-effective OpenStack private cloud IaaS platform.

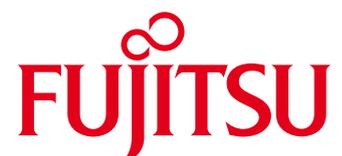
Fujitsu is well-positioned to help optimize your data center infrastructure – it is a leading cloud IaaS service provider with vast experience gained from operating more than 25 cloud data centers worldwide.

Customer Benefits

- Minimize risk in deploying your OpenStack private cloud IaaS environment
- Reduce infrastructure-related design and implementation effort and costs by up to 40%¹
- Increase operational efficiency with the market-leading Red Hat Enterprise Linux OpenStack Platform

¹ Based on internal Fujitsu calculations

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Solution Components

PRIMEFLEX for Red Hat OpenStack includes the following components that are pre-tested in terms of compatibility and functionality:

FUJITSU Server PRIMERGY RX / CX

With the PRIMERGY RX series Fujitsu offers a portfolio of versatile and expandable rack server systems providing best-in-class performance, energy efficiency and business-proven quality with extremely low annual failure rates (well below the market average) to deliver reliable operation with almost no unplanned downtimes. PRIMERGY CX scale-out systems focus on providing large data centers with massive scale-out x86 server performance, while also delivering outstanding server density, low energy consumption, optimized heat control and lower overall operational costs. Thanks to the Fujitsu Cool-safe® advanced thermal design, up to 27% in cooling costs can be saved on top of the comparably low energy consumption.

FUJITSU Storage ETERNUS DX (optional)

By combining the leading performance architecture with automated quality of service management, the ETERNUS DX series aligns storage resources with business priorities, thus enabling higher system utilization and delivering increased system consolidation capabilities with faster ROI. Scalable entry-level and midrange systems, a seamless family concept enabling system upgrades and ETERNUS SF, the unified management suite across the product line, all contribute to lower operational and migration costs.

FUJITSU Storage ETERNUS CD10000 (optional)

By providing hyper-scalable object, block, and file storage for up to more than 50 petabytes of data, the ETERNUS CD10000 is the cost-optimized storage solution for OpenStack users. Integration of the open-source based Red Hat Ceph Storage software, in combination with end-to-end maintenance from Fujitsu, enables IT organizations to fully benefit from open standards without implementation and operational risks.

Brocade VDX6740 Ethernet Switches

The Brocade VDX 6740 series delivers innovative technology to enhance and simplify networks. In addition, it offers a rich set of advanced networking features, making the Brocade VDX 6740 an ideal platform for traditional Top-of-Rack (ToR) switch deployments. Brocade VCS Fabric technology enables organizations to build data center Ethernet fabrics, thus revolutionizing the design of Layer 2 networks and providing an intelligent foundation for cloud-optimized data centers.

Red Hat Enterprise Linux OpenStack Platform

The Red Hat Enterprise Linux OpenStack Platform provides an integrated basis for creating, deploying and scaling a secure and reliable public or private OpenStack cloud. The Red Hat Enterprise Linux OpenStack Platform combines the world's leading Enterprise Linux and the fastest-growing cloud infrastructure platform to give you the agility to scale and quickly meet customer demands without compromising on availability, security,

or performance. What's more, Red Hat Enterprise Linux is the foundation for this OpenStack solution, thus all hardware and software certifications apply.

FUJITSU Software Enterprise Service Catalog Manager (optional)

With Systemwalker Service Catalog Manager, IT organizations can easily provide a self-service portal for automated delivery of private and public cloud services to their enterprise users. Features like chargeback and integrated approval improve IT governance in a hybrid cloud ecosystem.

FUJITSU Professional Services and Support

PRIMEFLEX for Red Hat OpenStack includes an optimized deployment service to get your OpenStack cloud environment up and running smoothly. Additional professional services, such as assessment, design and customized integration, are available on request. Fujitsu provides a single point of contact for support of configurations based on the aforementioned solution components.

FUJITSU Financial Services

As financing is a key element of your private cloud infrastructure investment decision, Fujitsu Financial Services offers you a complete portfolio of IT leasing and financing solutions, as well as Trade-In and Buy-Back options. These solutions deliver benefits at every stage of the transition to your new private cloud infrastructure – from the removal of the old IT equipment, to the gradual implementation of the new systems, right through to a Tech Refresh option a few years down the line.

Summary

Fujitsu and Red Hat support you in every phase of your transition to a cloud platform that meets the requirements of your digital business initiatives. This support includes the following:

- High-performance and energy-efficient Fujitsu hardware stack capable of hosting demanding workloads
- Market-leading Red Hat Enterprise Linux OpenStack Platform for stable and secure operation of a production-ready cloud
- Modular building block concept that allows you to adapt configurations at your own pace
- An optimized deployment service that reduces implementation risk and offers fast time to production while reducing infrastructure-related tasks and costs by up to 40%¹
- One-stop support for recommended configurations
- Integration in the overall OpenStack ecosystem to support a multi-cloud approach (private or hybrid) of a customer

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