



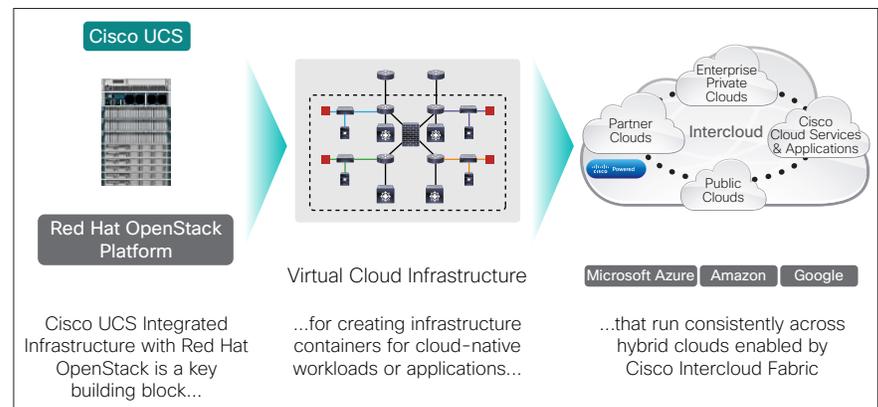
Cisco UCS Integrated Infrastructure for Red Hat OpenStack

Easier Deployment of Enterprise OpenStack Clouds

Expectations are high. IT is in the spotlight. New applications deployed in the cloud will increase productivity, enable new services, and increase customer loyalty. You want to deliver a high-quality solution quickly and limit deployment risk. At the same time, you want to leave your options open and retain flexibility for future needs.

Cisco is teaming with Red Hat, the industry's open source leader, to offer Cisco UCS® Integrated Infrastructure for Red Hat OpenStack Platform. Our integrated solutions will help your organization accelerate cloud deployments, while retaining control and choice over your environment through open and interoperable cloud solutions.

Figure 1. Value of Cisco UCS Integrated Infrastructure for OpenStack Cloud Deployment



Benefits

- **Avoid vendor lock-in** with an open source cloud platform.
- **Reduce CapEx and OpEx** with the exceptional scalability and the centralized management of Cisco UCS® Integrated Infrastructure.
- **Simplify move of applications** across clouds using Cisco® Intercloud Fabric.
- **Simplify deployment** with proven Cisco Validated Designs and preconfigured Cisco UCS Accelerator Paks.
- **Accelerate ROI and reduce risk** using the best practices and expertise of Cisco Professional Services.

Proven and Integrated Solutions from the Industry Leaders

Cisco UCS Integrated Infrastructure for Red Hat OpenStack delivers an exceptional combination of performance and scalability, enterprise stability, portability, and manageability for your open source cloud. Cisco and Red Hat deliver a complete solution with integrated support and a comprehensive set of services including planning, design, and implementation for open hybrid clouds.

The core of the solution is **Cisco UCS Integrated Infrastructure**, Cisco's flagship data center system, which combines computing, storage, networking, management, storage access, and security solutions into a unified and cohesive platform that is designed to automate IT as a service (ITaaS) across both physical and virtual environments.

“We invest in OpenStack to achieve the portability and freedom to migrate cloud services and to build hybrid clouds using services and resources from multiple vendors. This is only achieved using a standard open cloud and has led us to develop solutions around OpenStack.”

Ricardo Fernandes

CTO, Dualtec Cloud Builders,
Brazil

Next Steps

Explore Cisco Validated Designs at [Cisco DesignZone for Cloud Computing](#) and see special ordering options at [Cisco UCS OpenStack Solution Accelerator Paks](#).

For additional information, visit www.cisco.com/go/ucsopenstack.

Cisco and Red Hat have conducted a rigorous joint testing and validation process to produce **Cisco® Validated Designs** and related bills of materials. The documentation offers detailed architectural descriptions and implementation instructions for deploying Cisco UCS Integrated Infrastructure running the Red Hat OpenStack Platform.

Preconfigured **Cisco UCS OpenStack Solution Accelerator Paks** are also available for easier ordering and faster delivery. Configurations for high-density, storage-intensive, and mixed workload environments can be easily upgraded to match memory, storage and I/O requirements.

The joint solutions include integrated solution support and professional services for all stages of cloud planning, design, and implementation. Services are delivered by Cisco Cloud Consulting professionals and certified Cisco partners worldwide.

Cisco UCS Integrated Infrastructure for OpenStack, Starter Edition provides simplified deployment for enterprise private clouds. Starter Edition solution components include:

- Cisco UCS Integrated Infrastructure, available in preconfigured [Cisco UCS OpenStack Solution Accelerator Paks](#)
- Red Hat Enterprise Linux OpenStack Platform
- Cisco and Red Hat Validated Design and bill of materials, jointly developed and tested
- Integrated 24x7 solution support from Cisco
- **Starter Edition Services** include infrastructure provisioning, along with installation and configuration of OpenStack

Cisco UCS Integrated Infrastructure for OpenStack, Advanced Edition adds features such as autoscaling, support for additional storage and server options, hybrid cloud portability, and automated deployment of application-based infrastructure. Advanced Edition also includes:

- Hybrid cloud readiness through integration of [Cisco Intercloud Fabric](#)
- Application-based infrastructure management through integration of [Cisco Application Policy Infrastructure Controller \(APIC\)](#)
- **Advanced Edition Services** address high availability, chargeback, integration with monitoring tools, image management, and customized deployments.



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