Red Hat
OpenStack Platform

Upgrade Red Hat OpenStack Platform 13 to 16 with Red Hat Services

Simplify upgrades between long-life releases

Benefits

▸ Adopt new Red Hat OpenStack Platform capabilities

▸ Increase efficiency of upgrades

▸ Reduce complexity in life cycle operations

▸ Adopt a long-life supported Red Hat OpenStack Platform release

Introduction

Red Hat® OpenStack® Platform allows businesses to build an on-premise cloud infrastructure to accelerate time to market, innovate faster, and empower IT teams with on-demand services. Traditionally, organizations reduce system changes and bypass updates to avoid interruptions in day-to-day operations. However, older software versions can become more susceptible to security and stability risks over time, and businesses miss opportunities for new features to improve performance, scale, and manageability. A new strategy is needed to ensure performance and reliability—one that prioritizes controlled evolution over static environments.

The move from Red Hat OpenStack Platform 13 to 16 represents a significant achievement—balancing technology advancement with long-life stability. Support for multistack deployments and live migrations with single root input/output virtualization (SRIOV) delivers new capabilities and scalability, while the available fast-forward upgrade expedites in-place upgrades. Nonetheless, the production upgrade of a Red Hat OpenStack Platform environment can be complex.

Red Hat Consulting partners with customers to balance the evolution and stability of the product, standardize services, and streamline upgrades. Experienced Red Hat subject matter experts develop a strategic framework that uses the long-life release path while reducing risk and mentoring teams on proven upgrade methods. With this stable, scalable, and efficient Red Hat OpenStack Platform strategy, customers can adopt technology improvements and capabilities in new releases without the strain on time and effort.

Get started with Red Hat Consulting

Red Hat Consulting helps customers quickly, iteratively, and strategically achieve value while building enterprise-wide capabilities. During a Red Hat Consulting engagement, teams are mentored on the technology while they learn to adopt the methods and skills needed to sustain success into the future.

Across the following stages, Red Hat Consulting experts apply a set of products and services in an eight-week engagement to help customers design, build, and scale a transition strategy that meets their unique business needs.

Design	▸ Conduct full architectural review of the existing Red Hat OpenStack Platform 13 and Red Hat Ceph® Storage environments
	▸ Provide upgrade plan based on customer constraints and requirements and a high-level view of the upgrade process

Deploy	▶ Test Red Hat OpenStack Platform upgrade methodology and plan in customer lab environment
	▶ Modify templates to support fast-forward upgrade to Red Hat OpenStack Platform 16
	▶ Support the upgrade of one lab environment to Red Hat OpenStack Platform 16
	▶ Validate upgraded lab environment
Enable	▶ Demonstrate backup and recovery of a Red Hat OpenStack Platform cloud for roll-back
	▶ Demonstrate successful life-cycle upgrade for Red Hat OpenStack Platform 13 to 16 in lab
	▶ Provide side-by-side mentoring throughout the engagement
	▶ Deliver and review architectural and operational documentation

About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

Red Hat Services

Working directly with Red Hat engineering and support, Red Hat Services teams bring advanced skills to deliver solutions using Red Hat products and open standards. With exclusive insight into upcoming features and product roadmaps, Red Hat Services is uniquely positioned to align teams, streamline processes, and make enterprise systems and applications work together using open source and proprietary technologies.

Straight from the source: Red Hat Consulting teams communicate directly with Red Hat support and product development organizations. Many of our consultants are also active contributors to the upstream open source communities behind Red Hat technologies, so they bring unparalleled expertise.

Diverse technical experience: Red Hat Consulting maintains deep knowledge of open source and proprietary systems and applications platforms. Our comprehensive understanding of the technology market helps us provide clients with a complete view of their environment. Our guidance is based on a holistic understanding of building enterprise systems, not just our own products.

Mentor-based approach: Red Hat Consulting's approach gives clients the information and skills they need to move to Red Hat solutions safely and efficiently. Red Hat believes that knowledge must be open and shared, just like source code.

Real-world training: Red Hat Training and Certification develops role-based knowledge. Through hands-on training in emerging and foundational open source technologies, you can build real-world skills that support critical commoditization and transformation projects alike.

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