Red Hat infrastructure migration solution

Customer success: Intermountain Healthcare

The Red Hat infrastructure migration solution helped Intermountain Healthcare:[1]

- Reduce IT deployment time from 2-3 weeks to 4 hours and virtual machine (VM) provisioning from 3 days to 20 minutes.

- Cut IT costs by migrating from costly proprietary solutions to open source software and industry-standard hardware.

- Improve cross-team DevOps collaboration with flexible IT environments and enhanced access control.

Introduction

Combining open source technology, consulting services, and learning subscriptions, the Red Hat® infrastructure migration solution allows customers to migrate from expensive proprietary virtualization infrastructures to modern, flexible alternatives in a safe and methodical manner. Organizations free themselves from long-term contracts and realize cost savings, allowing for the accelerated adoption of container technology, increased automation, and multicloud management.

Reduction in cost and complexity

With the infrastructure migration solution, organizations can escape proprietary vendor lock-in and reduce costs. The savings can be redirected to strategic digital transformation, allowing for increases in customer affinity, competitive advantage, and market share. The solution reduces costs by analyzing the cost of the existing infrastructure and providing an alternative open virtualization platform for new growth and existing workloads. The open platform can deliver new workloads in an automated fashion with self-service, ensuring that IT can quickly recreate the workloads on future platforms, such as public or private clouds. Existing workloads are then analyzed and migrated using a proven methodology to ensure that all business requirements are satisfied, such as migrating within proper change control windows and gaining necessary stakeholder approvals.

Complexity also decreases because the new streamlined infrastructure helps eliminate decades of technical debt, accumulated inadvertently over the years with overlapping technologies, long-forgotten requirements, and "good enough" architectures. In addition, organizations can increase capacity to host workloads and accelerate transformational projects, such as the use of containers, automation, or multicloud management.

Steps to success

For any migration, there are three primary phases for success:

1. **Planning and platform setup.** This phase includes defining the architecture for the alternative platform and operationalizing it, as well as identifying and characterizing VMs that should be migrated.

2. **Migration tooling and approach.** This phase includes configuring the necessary tools and automation to support migrating workloads in a consistent and controlled manner and ensuring that all business and technical requirements are met. For example, organizations should determine who must approve the migration, when migrations are allowed to take place, and how the process will be audited.

3. **Migration execution.** A pilot migration of several representative workloads should take place before the organization moves on to a larger-scale migration of the remaining workloads.

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The Red Hat migration journey

A typical Red Hat migration journey has three main phases:

1. **Red Hat Consulting Discovery Session.** Red Hat Consulting engages with an organization in a complimentary session to fully understand and document the scope of the migration journey. While Red Hat Consulting leads the session, many stakeholders from the customer should participate to help make it successful. The output of the discovery session is a high-level architecture and documented plan for the migration. The session typically takes one to two days, and the customer receives the output shortly afterward.

2. **Migration pilot.** Red Hat Consulting and the customer use the output from the discovery session and subsequent planning sessions to install, configure, and operationalize the alternative platform. During the migration pilot, common management tasks required by the customer can be learned, performed, and documented. Also, workloads on the existing platform are cataloged and prioritized for migration. Red Hat's principal consultant and the customer's virtualization and migration team leaders design and validate an approach to the migration. Finally, the customer performs several migrations with Red Hat's principal consultant to ensure that all requirements are met for a larger-scale migration.

   - **Note:** Prior to this phase, Red Hat recommends that customers use Red Hat Learning Subscription to obtain training on the alternative platform technologies, such as Red Hat Virtualization, Red Hat OpenStack® Platform, Red Hat CloudForms®, and Red Hat Ansible® Automation.

3. **Migration at scale.** The customer begins migrating workloads at scale, following the plan and best practices created collaboratively in the previous two phases. Using the skills acquired through mentoring and formal training, the customer migrates workloads at scale to the alternative platform. If further support is required, the customer may contact Red Hat's Customer Experience and Engagement (CEE) team or Red Hat Services.

How to begin your journey

Get started by using our complimentary VM cost calculator at red.ht/vm-cost. It helps you determine if your organization is a good candidate for the infrastructure migration solution, and it provides a rough estimate of potential savings. The cost calculator asks you several brief questions and then generates a customized summary—the whole process requires less than two minutes.

The next step is a discovery session. To contact Red Hat Consulting to set up a discovery session, visit https://www.redhat.com/en/services/consulting.

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.

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