RED HAT INFRASTRUCTURE MIGRATION SOLUTION

Accelerate digital transformation by reducing the cost of existing infrastructure

DATASHEET

"Red Hat … has helped us reduce costs while still getting the availability, power, and performance that's required in a clinical environment."

PRODUCT OVERVIEW

The Red Hat® infrastructure migration solution helps organizations accelerate their digital transformation journey without increasing their costs, allowing them to invest in transformative technologies like containers, automation, and multicloud management by reducing the cost of their existing infrastructure investments.

The solution analyzes the cost of the existing infrastructure and provides an alternative virtualization platform for both new growth and existing workloads. New workloads can be delivered on the alternative platform in an automated fashion with self-service, ensuring that IT can quickly recreate the workloads on future platforms, such as public clouds, without a heavy burden. Existing workloads are analyzed and migrated using a proven methodology to ensure all business requirements are satisfied for the workload, such as migrating within proper change control windows and having approvals from needed stakeholders.

A typical migration journey has three phases:

- **Discovery session.** In this first phase, Red Hat Consulting engages with an organization in a complimentary session to fully understand and document the requirements and scope of the migration journey.

- **Migration pilot.** In this phase, the alternative platform is deployed and operationalized and several pilot migrations take place to ensure all requirements are met for a large-scale migration.

- **Migration at scale.** In the final phase, the customer migrates workloads at scale following the documented plan that was created in the previous phases with support from Red Hat Customer Experience and Engagement.

Many of our customers discover they can reduce costs by 40-50% compared to expanding their existing VMware infrastructure.

KEY FEATURES OF THE INFRASTRUCTURE MIGRATION SOLUTION

METHODOLOGY	
Discovery session	A Red Hat Consulting discovery session is a strategic planning activity that clarifies goals and challenges and aligns key stakeholders on the objectives, dependencies, and results of the desired solution. During the infrastructure migration solution discovery session, a comprehensive analysis of the existing virtualization environment is conducted, including operational management and cataloging of applications. Using the output from the analysis, an alternative architecture and detailed plan for migration will be developed and used as the basis for implementation.
Migration pilot	The migration pilot is an 8- to 11-week services-led implementation that includes: • A production-ready Red Hat Virtualization or Red Hat OpenStack® Platform environment. • Deployment of the tooling and framework required to migrate virtual machines (VMs) from the existing virtualization platform to the new environment. • Validation of migrations for a sample set of VMs of the customer's choosing.
Migration at scale	With an alternative platform in operation and a clearly documented plan, customers can begin migrating workloads based on their schedule and application stakeholder needs. Using the migration capabilities available in Red Hat CloudForms®, they can contact Red Hat Customer Experience and Engagement for ongoing migration support.
TRAINING	
Red Hat Learning Subscription	Using the included Red Hat Learning Subscriptions, customers can provide staff with access to all training and development materials offered by Red Hat Training.
MIGRATION CAPABILITIES	
Infrastructure mapping	Mapping your infrastructure allows your virtualization and infrastructure team to define where VMs will be migrated based on their current location. This approach ensures that the appropriate compute, network, and storage resources are available for each migration.
Migration plans	Migration plans allow users to break their VM migrations into manageable groups that can be scheduled when most convenient, such as during application maintenance windows. Migration plans also allow users to control the behavior of migrations, such as the order in which VMs are migrated.
Virtual machine conversion	Using the capabilities within the virt-v2v tool, VMs are converted from VMware ESX to Kernel-based Virtual Machine (KVM) formats. VMs are streamed from VMware and automatically injected directly into your new KVM-based hypervisor. The tooling also ensures the use of appropriate disk format, network interfaces, drivers, and agents to maximize capabilities and performance.

SOLUTION TECHNICAL SPECIFICATIONS

Minimum product versions required to run the solution:

PRODUCT	VERSION
Red Hat CloudForms	4.6.4
Red Hat Virtualization	4.2
Red Hat Enterprise Linux® (Hypervisor)	7.5
VMware vSphere	5.5
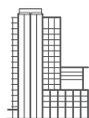
ABOUT RED HAT

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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