Red Hat

Red Hat Services Solution: Cloud Foundry to OpenShift

Solution overview

▸ **Duration:** 6 weeks

▸ **Red Hat staffing:**
1 part-time architect
1 full-time senior consultant
Project manager

▸ **Customer resourcing:**
Development team avail-
ability for paired delivery

▸ **Delivered:** Developer
readiness to migrate the
Cloud Foundry portfolio
and be productive with
Red Hat OpenShift

Benefits

▸ **Kubernetes jump-start
for Cloud Foundry teams:**
Quickly get application
teams comfortable building
apps on Kubernetes, the
industry-leading container
orchestration technology.

▸ **Developer experience
and efficiency:** Accelerate
developer productivity on an
open hybrid cloud platform.

▸ **Reduce technical debt:**
Ready applications for latest
open source cloud-native
development innovation like
ArgoCD, Istio, and KNative.

Introduction

After years of investment and effort, companies running Cloud Foundry are experiencing limitations and a need for a hybrid cloud platform built on Kubernetes that supports containerizing and modern-izing their existing, stateful applications, as well as new cloud-native development.

Red Hat® OpenShift® provides a complete enterprise hybrid cloud platform on which to build and run production workloads. Customers moving from Cloud Foundry to Red Hat OpenShift have experi-enced these benefits:

▸ Support for both stateless and stateful applications.

▸ Improved productivity with a standardized development environment and self-service provisioning.

▸ Enhanced security with Red Hat Advanced Cluster Security, for continuous infrastructure, container, and workload security and compliance.

▸ Significantly reduced hardware costs by running Red Hat OpenShift on bare metal.

Red Hat Services solution: Cloud Foundry to OpenShift provides organizations a phased approach to migrating from Cloud Foundry, including Pivotal Cloud Foundry and IBM Cloud Foundry, to Red Hat OpenShift. With minimal disruption to apps and teams during migration, and a unified, sim-plified experience for operators, this solution includes:

▸ A 6-week engagement to plan and migrate 1-2 application teams and 1-2 applications from Cloud Foundry to Red Hat OpenShift, establishing repeatable migration patterns.

▸ Training and coaching teams to use those patterns and their experience to migrate their complete portfolio of Cloud Foundry applications self-sufficiently, and maximize their future productivity with Red Hat OpenShift.

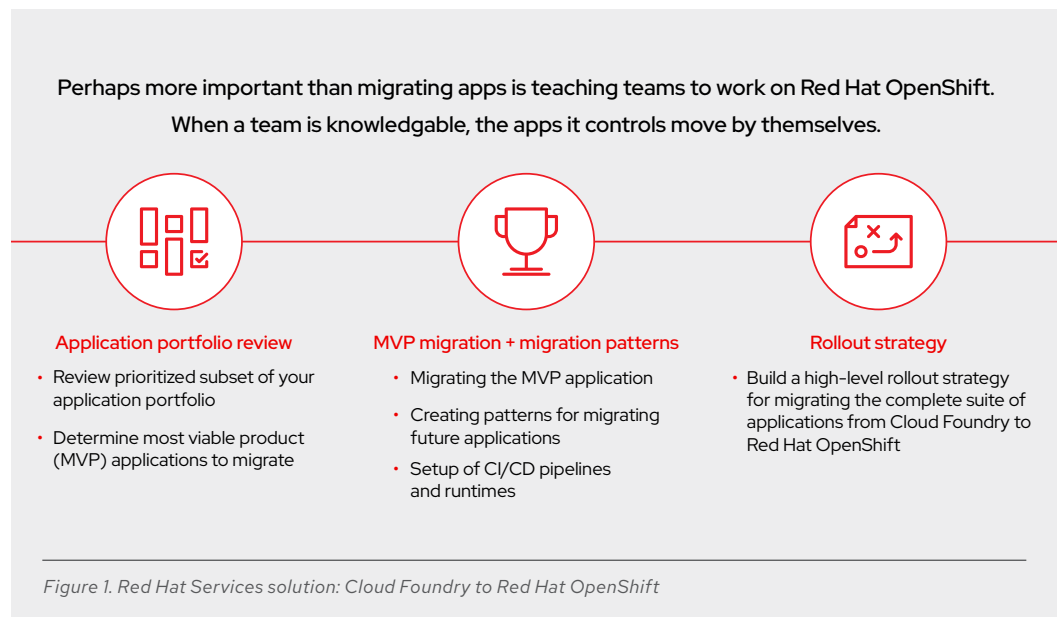▸ Multiple approaches for migrating applications: a stepped, intermediary phase or a direct cutover approach.

Get started with Red Hat Consulting

Red Hat Consulting helps customers quickly, iteratively, and strategically achieve value while build-ing capabilities throughout the enterprise. During a Red Hat Consulting engagement, teams use the technology while learning and adopting the methods and skills needed to sustain success now and into the future.

With extensive experience migrating customer workloads to Red Hat OpenShift, modernizing appli-cations, and best practices for new cloud-native application development, Red Hat Consulting's subject matter experts guide customers through migration, mapping Cloud Foundry middleware to Red Hat OpenShift, providing coaching and mentoring on OpenShift and Kubernetes paradigms and tooling, and pairing with developers to migrate initial applications.

Perhaps more important than migrating apps is teaching teams to work on Red Hat OpenShift. When a team is knowledgable, the apps it controls move by themselves.

Application portfolio review

- Review prioritized subset of your application portfolio
- Determine most viable product (MVP) applications to migrate

MVP migration + migration patterns

- Migrating the MVP application
- Creating patterns for migrating future applications
- Setup of CI/CD pipelines and runtimes

Rollout strategy

- Build a high-level rollout strategy for migrating the complete suite of applications from Cloud Foundry to Red Hat OpenShift

Figure 1. Red Hat Services solution: Cloud Foundry to Red Hat OpenShift

Accelerate capabilities with Red Hat training

Maximize your technology investment and master skills with our lab-intensive, real-world training. Through open enrollment, virtual classrooms, or a Red Hat Learning Subscription, Red Hat Training provides a current approach and practical application of new skills and methods to make the most efficient and effective use of modern technologies.

The Red Hat Consulting difference

Working directly with Red Hat engineering and support organizations, Red Hat Consulting teams bring advanced skills to deliver solutions using Red Hat products and open standards. With exclusive insight into upcoming features and product roadmaps, nobody is better 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 expertise with open source and proprietary systems and application 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 engagements:** Red Hat Consulting's approach gives clients the information and skills they need to move to Red Hat solutions in a safe and efficient manner. Red Hat believes that knowledge must be open and shared, just like source code.

▶ **Crucial, real-world training:** Red Hat Training and Certification develops role-based knowledge through hands-on training covering emerging and foundational open source technologies. It helps build real-world skills that support critical commoditization and transformation projects alike.

Ready to get started? Contact a Red Hatter to talk about your business needs.

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 develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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