

MODERNIZE APPLICATION DELIVERY WITH CONTAINER PLATFORMS

DATASHEET

- Define strategies across people, processes, and technologies to gain the full benefits of containers
- Establish collaborative IT innovation to align with and achieve business goals
- Develop new practices for designing and delivering responsive business capabilities
- Increase operational efficiency, reliability, and scalability

FACING A COMPETITIVE LANDSCAPE

Businesses are increasingly interested in the value of container adoption. In the next two years, over 90% of organizations will make new investments in containers and other emerging technologies that facilitate DevOps. Seventy-one percent of organizations anticipate using containers for cloud applications or are already using them.¹ These figures can be attributed to the results organizations are already achieving with containers: nearly three quarters of businesses who use them report that they can now ship new software up to 10% faster.²

BUILD AND EXECUTE A COMPREHENSIVE CONTAINER STRATEGY

Successfully introducing containers can be a complex process. Many teams pursue a narrow agenda, focusing on the technology and processes either for operations or for development without creating an integrated approach. These approaches may initially produce results but ultimately isolate teams, hinder adoption, and delay return on investment (ROI). Containers affect tools, groups, and processes across infrastructure, DevOps, and application development—and each must be addressed in parallel to ensure secure, successful adoption.

ENHANCE COLLABORATION FOR BUSINESS ALIGNMENT

Container platform adoption removes traditional barriers between developers and IT operations. Using containers helps developers better understand and define how applications should be designed, deployed, and orchestrated for stability and scalability. Similarly, adopting containers lets IT operations implement standards for security, monitoring, and scaling that align with business priorities.

But creating effective collaboration requires more than adopting new technology. Existing approaches, processes, and communications must be reworked to fully embrace the capabilities of DevOps. Promoting a collaborative culture by establishing responsive container-driven deployment pipelines accelerates feedback and simplifies cause and effect mapping. As a result, organizations can facilitate efficient communication across business, development, testing, and operations groups and deliver software more frequently to match customer demand.

MIGRATE AND EVOLVE APPLICATIONS

Workload migration to container platforms delivers new capabilities and improves efficiency for existing applications. However, effective migration not only requires skilled application development teams, but also informed analysis, prioritization, and execution, including governance that establishes and promotes standards.

Market demands are forcing application development to be more rapid, iterative, continuous, reliable, and collaborative. Other emerging technologies can be implemented in coordination with containers to respond to these challenges. Microservices architecture—which helps applications become more flexible and responsive—requires container platforms to handle the added deployment complexity.



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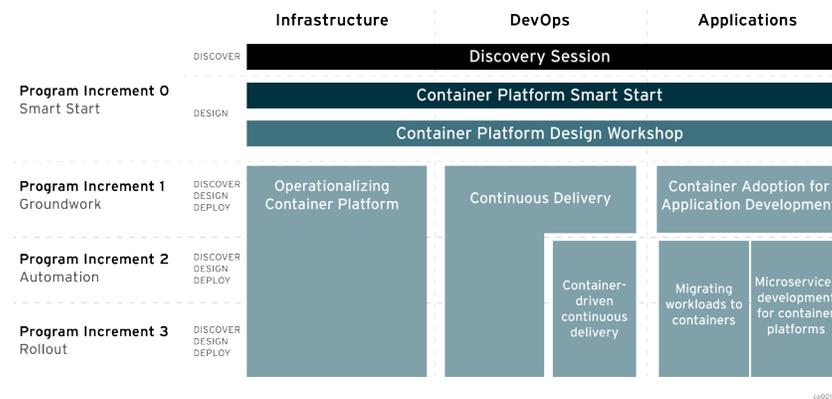
¹ <https://www.redhat.com/en/resources/maximize-container-benefits-top-down-approach>

² <http://www.enterprisetimes.co.uk/2016/05/03/containers-speeding-release-cycles/>

OPERATIONALIZE CONTAINER PLATFORMS

Translating the promise of containers into business value requires creating new, standardized practices related to infrastructure and operations. Organizations must define, deploy, and continually improve processes to ensure system resilience, security, and compliance. Operations must evolve to allocate cost, manage capacity, and fluidly scale capabilities. Establishing operational practices that can easily be modified to meet shifting business requirements while still maintaining standards is key to aligning IT with the needs of the business.

I.T. AUTOMATION THROUGH CONTAINER PLATFORM ADOPTION



ESTABLISH A FOUNDATION FOR SUCCESS

Linux containers have the potential to transform IT, but this potential can only be realized by taking a step back and accounting for the impact of containers across the entire IT organization. That may mean revisiting processes, plans, roles, and skills in every phase of software delivery.

Red Hat® Consulting applies a set of products, offerings, and custom engagements for container adoption to help customers:

- Establish a unified culture and strategy to extend the value of containers across development, operations, and business groups.
- Construct environments and continuous delivery (CD) pipelines and align workloads to maximize efficiency gains from containers.
- Design microservices and containerized applications and define managed life cycles for containers.
- Establish and adapt security, compliance, scaling, and monitoring standards for containers to support business priorities.
- Improve operational efficiency, scalability, and flexibility by taking advantage of containers and Platform-as-a-Service (PaaS) capabilities.

Using a solution delivery framework (SDF), Red Hat experts help customers achieve value early and often. This SDF provides a simple yet powerful framework that can be adjusted and scaled as needed. It consists of three stages that deliver clear value with each iteration: Discover, Design, and Deploy.

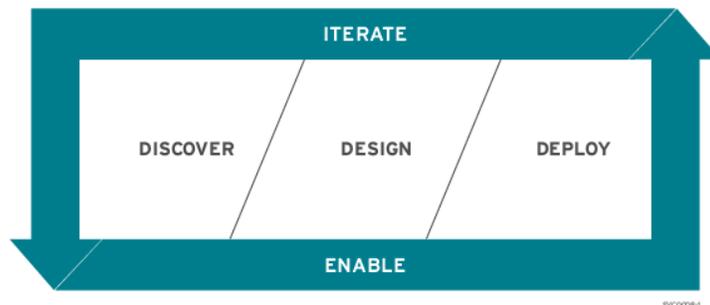


Figure 1. Red Hat Consulting solution delivery framework.

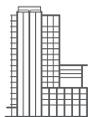
RED HAT CONSULTING MODERNIZE APPLICATION DELIVERY WITH CONTAINER PLATFORMS SOLUTION DELIVERY FRAMEWORK

SOLUTION PHASE	DESCRIPTION
Discover	<p>Discuss goals, solution approaches, and next steps to:</p> <ul style="list-style-type: none"> • Identify challenges and potential issues, as well as viable approaches and technologies, necessary participants, and desired outcomes. • Outline current state, target state, and opportunities for change.
Design	<p>Develop an intelligent plan that involves:</p> <ul style="list-style-type: none"> • Analysis of the current state architecture and organizational practices for container adoption. • Strategy across people, processes, and technologies. • Architecture definition that addresses target environments.
Deploy	<p>Work with Red Hat’s subject matter experts, who will integrate with and guide your team to:</p> <ul style="list-style-type: none"> • Collaborate across departments to enable teams and accelerate innovation. • Adapt existing applications and build new applications and microservices to provide the full benefits of container platforms. • Deliver secure, resilient new environments and practices to efficiently deploy, manage, and scale workloads that align with business needs.

THE RED HAT CONSULTING DIFFERENCE

With exclusive insight into upcoming features and product roadmaps, no consultant is better positioned to align teams, streamline processes, and make enterprise systems and applications work together using open source and proprietary technologies. Red Hat Consulting teams offer:

- **Communication straight from the source:** Consultants—many of whom are also active contributors to the upstream open source communities behind Red Hat technologies—work directly with Red Hat support and product development organizations, resulting in unparalleled expertise.
- **Diverse technical experience:** Consultants provide guidance based on a holistic understanding of building enterprise systems—not just Red Hat products.
- **Mentor-based approach:** Red Hat believes that knowledge must be open and shared, just like source code. Consultants give clients the information and skills to safely and efficiently migrate to Red Hat solutions.



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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NORTH AMERICA
1 888 REDHAT1

EUROPE, MIDDLE EAST,
AND AFRICA
00800 7334 2835
europe@redhat.com

ASIA PACIFIC
+65 6490 4200
apac@redhat.com

LATIN AMERICA
+54 11 4329 7300
info-latam@redhat.com