RED HAT OPENSHIFT CONTAINER PLATFORM 3.6

DATASHEET

KEY BENEFITS

- Deliver your latest innovation to market faster and stay ahead of your competition.

- Accelerate application development by giving your developers and system administrators the tools they need to get the job done.

- Use a secure, enterprise-grade, container-based platform with no vendor lock-in.

- Support DevOps and department-wide collaboration.

Red Hat OpenShift Online is a public cloud application platform that lets you quickly build, launch, and host applications in the public cloud, operated and supported by Red Hat.

You can sign up at no cost, check out the great features, and start coding and running applications at openshift.com.

RED HAT OPENSHIFT DEDICATED

Bring the power and flexibility of Red Hat OpenShift 3 to your business through the managed public cloud with OpenShift Dedicated.

OVERVIEW

Red Hat® OpenShift Container Platform helps organizations develop, deploy, and manage existing and container-based applications seamlessly across physical, virtual, and public cloud infrastructures. Built on proven open source technologies, Red Hat OpenShift Container Platform helps application development and IT operations teams modernize applications, deliver new services, and accelerate development processes.

RED HAT OPENSHIFT CONTAINER PLATFORM

FOR APPLICATION DEVELOPMENT TEAMS

OpenShift Container Platform provides developers with an optimal platform for provisioning, building, and deploying applications and their components in a self-service fashion. With automated workflows like our source-to-image (S2I) process, it is easy to get source code from version control systems into ready-to-run, docker-formatted container images. OpenShift Container Platform integrates with continuous integration (CI) and continuous delivery (CD) tools, making it an ideal solution for any organization.

FOR I.T. OPERATIONS

OpenShift Container Platform gives IT operations a secure, enterprise-grade Kubernetes that provides policy-based control and automation for applications. Cluster services, scheduling, and orchestration provide load-balancing and auto-scaling capabilities. Security features prevent tenants from compromising other applications or the underlying host. And because OpenShift can attach persistent storage directly to Linux® containers, IT organizations can run both stateful and stateless applications on one platform.
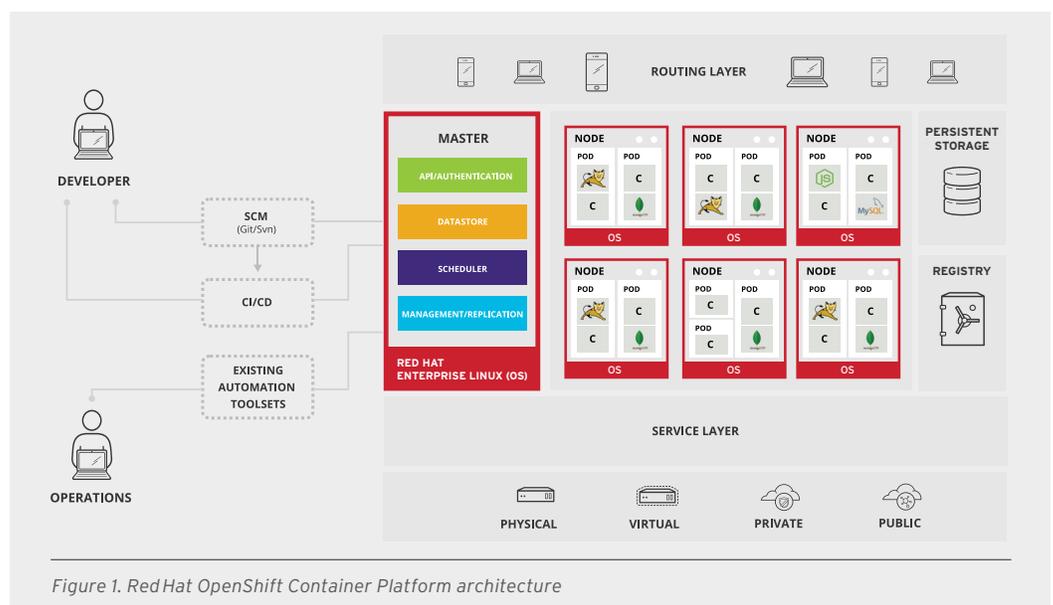

Figure 1. Red Hat OpenShift Container Platform architecture

FEATURES AND BENEFITS

FEATURE	BENEFIT
Open source	Incorporating both docker-formatted Linux containers and Kubernetes in addition to other open source technologies, users are not restricted to the technology or business roadmap of a specific vendor.
Self-service provisioning	Developers can quickly and easily create applications on demand directly from the tools they use most, while still giving operations full control over the entire environment.
Persistent storage	By providing support for persistent storage, Red Hat OpenShift Container Platform allows users to run both stateful applications and cloud-native stateless applications.
Polyglot, multilanguage support	Developers can use various languages, frameworks, and databases all on the same platform with ease.
Automation	Streamlined and automated application builds, deployments, scaling, health management, and more are standard with Red Hat OpenShift Container Platform.
User interfaces	Developers have direct access to a rich set of command-line tools, a multidevice web console, and Eclipse-based integrated development environments such as Red Hat JBoss® Developer Studio.
Operational management	The included Red Hat CloudForms enables users to get real-time visibility into not just the individual container, but the entire infrastructure.
Collaboration	OpenShift allows operators and developers to work more closely together through the use of containers on a single platform.
Scalability	Applications running on OpenShift can easily scale to thousands of instances across hundreds of nodes in a matter of seconds.
Robust ecosystem	An ever-expanding ecosystem of partners provides a wide variety of integrations. Additional storage and network providers, integrated development environment (IDE) and CI integrations, independent sofware vendor (ISV) solutions, and more are provided by these third parties for use with OpenShift.
Container portability	Built around a standardized Linux container model powered by Red Hat application programming interfaces (APIs), applications created on OpenShift can easily run anywhere that supports docker-formatted containers.
Choice of cloud	Users can run applications on top of physical, virtual, public, private, or hybrid cloud infrastructures.

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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