RED HAT® OPENSHIFT Container Platform

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RED HAT OPENSHIFT CONTAINER PLATFORM

DATASHEET

KEY BENEFITS

- Greater value from operations and development teams throughout the application life cycle
- Faster application development cycles and more frequent software deployments
- Lower IT operations costs and application portability across hybrid cloud and multicloud footprints

RED HAT OPENSHIFT DEDICATED

Develop and manage containerized applications with your own OpenShift cluster, managed and operated by Red Hat.

RED HAT OPENSHIFT ONLINE

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.

OVERVIEW

Red Hat® OpenShift Container Platform unites developers and IT operations on a single platform to build, deploy, and manage applications consistently across hybrid cloud and multicloud infrastructures. Red Hat OpenShift helps businesses achieve greater value by delivering modern and traditional applications with shorter development cycles and lower operating costs. Red Hat OpenShift is built on open source innovation and industry standards, including Kubernetes and Red Hat Enterprise Linux®, the world's leading enterprise Linux distribution.

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FOR APPLICATION DEVELOPMENT TEAMS

OpenShift Container Platform provides developers with a self-service platform for provisioning, building, and deploying applications and their components. 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 and continuous delivery (CI/CD) tools, making it an ideal solution for any organization.

FOR I.T. OPERATIONS

OpenShift Container Platform gives IT operations secure, enterprise-grade Kubernetes for policy-based controls and automation for application management. 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 Container Platform can attach persistent storage directly to Linux containers, IT organizations can run both stateful and stateless applications on one platform.

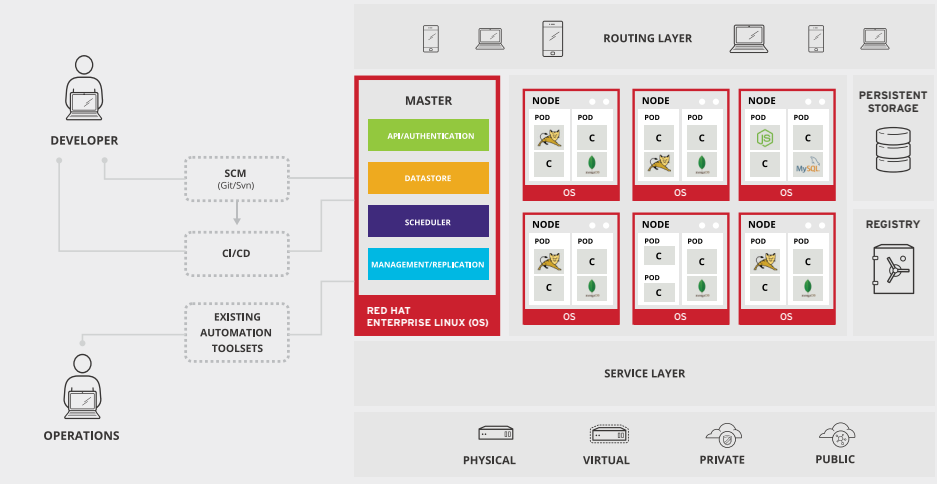

Figure 1. Red Hat OpenShift Container Platform architecture

RED HAT® OPENSHIFT Container Platform

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FEATURES AND BENEFITS

FEATURE	BENEFIT
Open source standards	Incorporates both Open Containers Initiative (OCI)/Docker-formatted containers and Kubernetes for container orchestration, 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 from the tools they use most, while operations retains full control over the entire environment.
Persistent storage	By providing support for persistent storage, 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 on the same platform with ease.
Automation	Streamlined and automated container and application builds, deployments, scaling, health management, and more are standard with 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 (IDEs), such as Red Hat JBoss® Developer Studio.
Operational management	Red Hat CloudForms, included in OpenShift Container Platform, gives users real-time visibility into their containerized application and infrastructure.
Scalability	Applications running on OpenShift Container Platform 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, IDEs and CI integrations, independent software vendor (ISV) solutions, and more are provided by these third-parties for use with OpenShift Container Platform.
Container portability	Built on a standardized Linux container model powered by Red Hat application programming interfaces (APIs), applications created on OpenShift Container Platform can easily run anywhere that supports Docker-formatted containers.

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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