RED HAT® OPENSHIFT Container Platform

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RED HAT OPENSHIFT CONTAINER PLATFORM 3.3

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.
- Gain a secure, enterprise-grade, container-based platform with no vendor lock-in.
- Enable DevOps and department-wide collaboration.

WHAT'S NEW IN VERSION 3.3

- Built on the latest stable releases of Kubernetes 1.3 and Docker 1.10
- Expanded developer productivity with new delivery pipelines, dashboards, metrics, improved application creation workflows, and much more
- Enhanced enterprise scalability and stability to thousands of self-healing nodes per cluster
- Greater security with new registry enhancements that provide access policies for users, teams, and their projects

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

Red Hat 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's 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 delivery tools, making it an ideal solution for any development team.

FOR I.T. OPERATIONS

OpenShift Container Platform gives IT operations a secure, enterprise-grade environment that provides policy-based control and automation for container-based applications in production. Cluster services, scheduling, and orchestration based on Kubernetes all provide load-balancing and auto-scaling capabilities. Security features prevent tenants from compromising other containers 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.

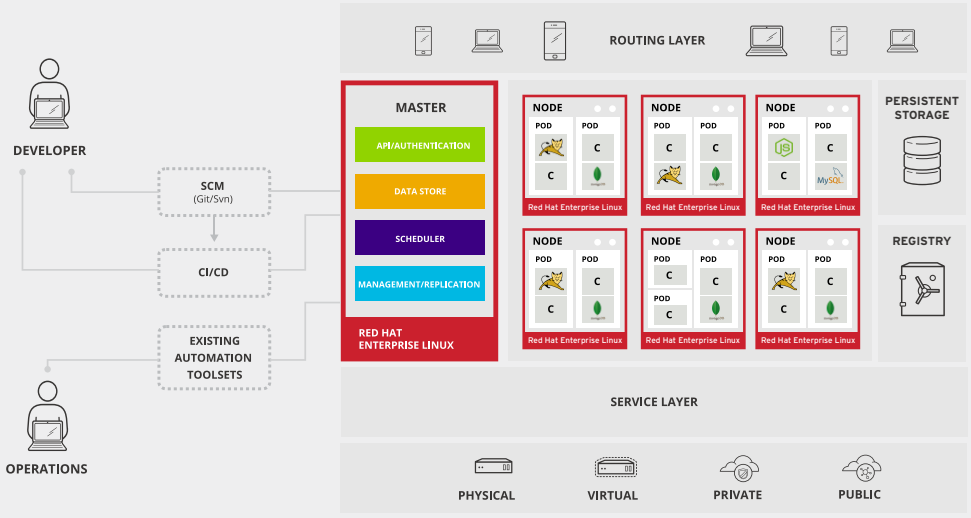

Figure 1. Red Hat OpenShift Container Platform architecture

RED HAT® OPENSHIFT Container Platform

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OpenShift Online is Red Hat's public cloud-based application platform available at openshift.com that lets you:

- Quickly build, launch, and host applications in the public cloud, operated and supported by Red Hat.
- Sign up at no cost, check out all the great features, and start coding and running applications on OpenShift today.
- Bring the power and flexibility of OpenShift 3 to your business through the managed public cloud with OpenShift Dedicated.

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.

FEATURE	BENEFIT
Open source	With native integrations of both Docker and Kubernetes, users have the freedom of open source and aren't 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	Only with OpenShift Container Platform can users run both existing stateful applications and cloud-native stateless applications, because of its ability to use persistent storage.
Polyglot, multilanguage support	Developers can run multiple 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 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.
Built-in operational management	By directly implementing Red Hat CloudForms into the product, users get real-time visibility into not just the individual container, but the entire infrastructure.
Collaboration	Users can easily pull different resources directly from the platform itself to maintain project and initiative schedules.
Scalability	Applications running on OpenShift can easily scale to hundreds of instances across thousands of self-healing nodes in a matter of seconds.
Robust ecosystem	By collaborating with our ever-expanding community of partners, users can employ different types of persistent storage as well as pluggable networking solutions.
Container portability	Built around a standardized container model powered by Red Hat application programming interfaces (APIs) for Docker, 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.

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