

OPENSIFT ENTERPRISE: AN ON-PREMISE, PRIVATE PaaS BY RED HAT

DATASHEET

KEY BENEFITS

- Gives application developers access to self-service platform for building and running applications in the cloud.
- Gives IT operations a cloud platform with automated provisioning and scaling of applications.
- Provides full suite of programming languages and developer tools for streamlining development processes.
- Allows IT to build and launch applications faster to better meet the needs of the business.

OPENSIFT ONLINE is Red Hat's hosted public PaaS service, available at openshift.redhat.com and built on the same technology as OpenShift Enterprise.

- OpenShift Online runs in the public cloud.
- Developers can currently **sign up for free**, check out all the great features and capabilities, and start coding and running applications on OpenShift today.
- For access to additional resources and full technical support from Red Hat, OpenShift Online users can upgrade to the Silver tier of service.

OPENSIFT ENTERPRISE BY RED HAT

OpenShift Enterprise by Red Hat® is a cloud computing Platform-as-a-Service (PaaS) solution designed for on-premise or private cloud deployments.

While Infrastructure-as-a-Service (IaaS) provides on-demand access to raw compute resources, and Software-as-a-Service (SaaS) provides on-demand access to a complete application, OpenShift Enterprise PaaS enables on-demand access to a cloud-based application platform. This lets enterprises easily build the applications they need and run them in a cloud architecture.

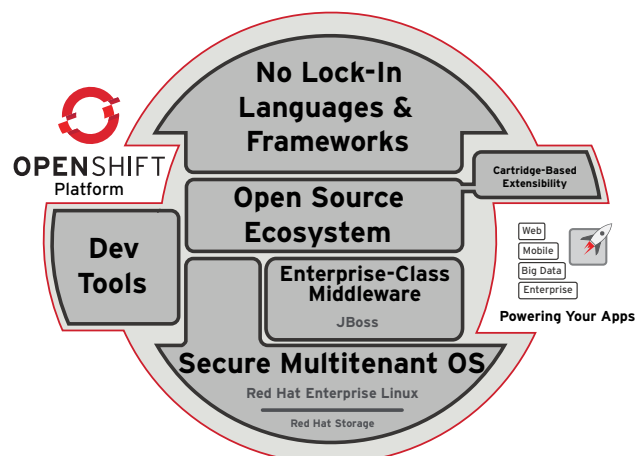
OpenShift Enterprise automates much of the provisioning and systems management of the application platform stack. This allows IT operations teams to more easily meet the growing demand for new application services coming from the business.

OpenShift Enterprise provides an on-demand, elastic, scalable, and fully configured application development, testing, and hosting environment for application developers so they can focus on coding those new application services. Once installed in a datacenter or a private cloud, OpenShift Enterprise provides a self-service capability to developers. This allows developers to easily create scalable applications in the PaaS environment with their choice of programming languages and middleware, and begin coding applications from their favorite development environments.

HOW OPENSIFT ENTERPRISE WORKS

OpenShift Enterprise enables developers to easily and quickly develop an application. Using either the web console, command-line tooling, or Eclipse-based IDE, a developer simply requests an application instance from OpenShift Enterprise. This instantiates the application in the supporting cloud and provides necessary access information to the developer so they can begin coding immediately.

The developer pushes code updates to the cloud-based application via the Git source code control system and Git protocol secured with ssh. It also includes, and makes available, development tools such as Maven for build management and Jenkins for continuous integration, all configured automatically in the PaaS environment. Once the application coding is complete, OpenShift Enterprise hosts the application and elastically scales it as needed.



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FEATURE	BENEFIT
Polyglot - multiple languages supported	Includes built-in support for Java(TM), Ruby, Python, PHP, and Perl. This provides developers with the ability to choose the most appropriate programming languages based on their own skills or the nature of the programming tasks.
Multiple interaction models	Provides multiple interaction models with the PaaS enabling developers to use a rich set of command-line tools, a powerful multi-device web console, or an Eclipse-based Integrated Development Environment such as JBoss® Developer Studio.
Auto-scaling	Enables applications to be scaled automatically to handle increased traffic and demand on the applications.
Application portability	Built with standard language and middleware runtimes such that any application written on OpenShift Enterprise can easily be moved to another environment that supports the same languages, which prevents lock-in.
Open source	Allows adopters to control implementation and doesn't restrict them to the technology of a specific vendor. This provides visibility into the technology on which they're basing their business. Open source also enables users to collaborate with communities and companies to help drive innovation.
Choice of cloud infrastructure	Designed for users to choose their choice of infrastructure, OpenShift Enterprise is deployed on top of and run on Red Hat Enterprise Linux®. There are no other specific requirements for the infrastructure layer. To that end, OpenShift Enterprise customers have a choice to run it on top of public, private, or hybrid cloud infrastructure. This gives IT the freedom to deploy OpenShift Enterprise in a way that best fits within existing infrastructure.

ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 70 offices spanning the globe, empowering its customers' businesses.

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TECHNICAL SPECIFICATIONS

OpenShift Enterprise is deployed on the Red Hat Enterprise Linux operating system. The Red Hat Enterprise Linux instances that support OpenShift Enterprise can be provisioned using a variety of infrastructure technologies and the underlying hardware will be sized based on the estimated capacity requirements for OpenShift.

Operating system requirements:

- Red Hat Enterprise Linux 6

Hardware requirements:

- Minimum hardware = 2 Intel x64 servers each with 2 core & 4GB RAM
- Actual sizing subject to capacity requirements

Provisioning platform options:

- Physical hardware
- Virtualization (Red Hat Enterprise Virtualization, VMware vSphere, etc.)
- IaaS (Red Hat Hybrid IaaS, OpenStack®, etc.)
- Red Hat CloudForms
- Red Hat Certified Public Cloud Providers

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