RED HAT CLOUD SOLUTIONS
OPENSHIFT ENTERPRISE PAAS SOLUTION

A Comprehensive Enterprise Development Platform for the Cloud

BENEFITS

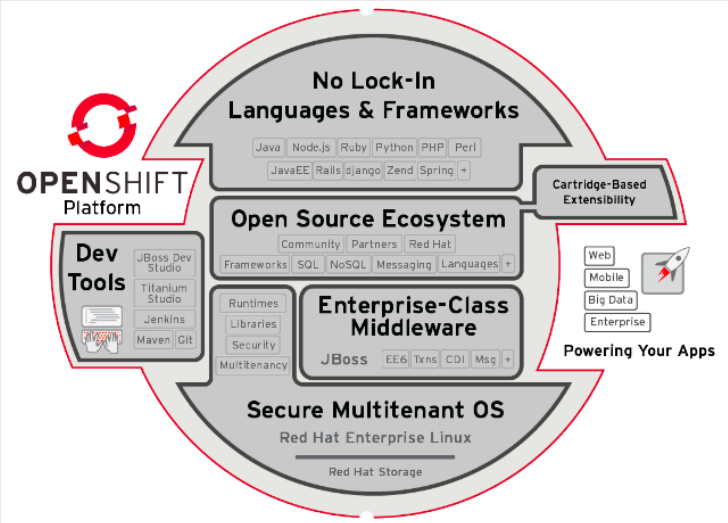
- Enterprise-class application platform that supports both new and existing applications
- Flexible operational model that fits existing enterprise IT governance requirements today and in the future
- Choice of cloud deployment models to address enterprise security and compliance needs
- Enterprises can confidently migrate application development and deployment to the cloud at their own pace

OpenShift Enterprise PaaS Solution from Red Hat is an enterprise cloud application platform that enables organizations to leverage the agility and efficiency of the cloud, while addressing real-world governance and operational requirements of the enterprise. OpenShift provides a comprehensive development and execution platform for enterprise applications, delivered in a choice of cloud deployment and operational management models. OpenShift Enterprise PaaS Solution can be deployed as both a hosted and an on-premise solution, which can support both a traditional IT operations (ITOps) driven operational model as well as rapidly emerging development operations (DevOps) models.

REVOLUTIONIZING ENTERPRISE APPLICATION DEVELOPMENT

Platform-as-a-Service (PaaS) is a cloud service model that is revolutionizing application development, providing developers with tremendous agility and flexibility. PaaS provides a pre-configured, auto-scaling, and self-managing application platform in the cloud that allows developers to easily develop, deploy, and run their applications. By removing the challenges of procuring and configuring infrastructure, installing application software and patches, and managing server and application environments, PaaS allows developers to focus on what they care about most: building applications.

For the enterprise, PaaS can help drive innovation and enable faster time-to-market for new services and applications. PaaS can help organizations reduce costs and make more efficient use of infrastructure resources. By improving business innovation and increasing operational efficiency, enterprises can drive business transformation with PaaS.



REAL-WORLD CHALLENGES FOR PAAS IN THE ENTERPRISE

Enterprise developers need a PaaS that is built on technology that provides the required performance, security, robustness, and application portability to enable easy and sustained adoption. In addition to the technology stack, enterprise architects have to worry about a variety of other influencing factors such as compliance, enterprise architecture standards (including ITIL or other methodologies), IT governance, security, data and compute locality and more. And, finally, the enterprise IT operations team needs to worry about where and how the PaaS will operate. Will it be in the public cloud, private cloud, or hybrid cloud? How they will ensure and manage service-level agreements (SLAs) to the business? For real adoption in the enterprise, a PaaS must be able to address these concerns.

OPENSHIFT DELIVERS

- The OpenShift platform – an enterprise-class application platform stack built on a proven technology stack from Red Hat
- Multiple cloud deployment options – allows enterprises to run their PaaS in private, public or hybrid clouds based on their needs
- Flexibile management and operational models - to adapt to enterprise governance or operational requirements

OPENSHIFT ENTERPRISE PAAS SOLUTION

OpenShift Enterprise PaaS Solution from Red Hat delivers PaaS benefits to the enterprise while providing the flexibility to meet enterprise business requirements. OpenShift Enterprise PaaS Solution is a bundled offering for enterprise application development and execution in the cloud.

It includes the following components:

- **Red Hat® CloudForms** – an on-premise cloud management framework to build open hybrid clouds, manage cloud application life cycles, and enable governed self-service deployment for end users
- **JBoss® Enterprise Application Platform (JBoss EAP) managed** – a cloud-ready, enterprise-class, JEE6 certified application middleware platform for running enterprise Java applications
- **Red Hat Enterprise Linux®** - a secure, scalable, and reliable operating system platform for hosting cloud application environments
- **Red Hat Enterprise Virtualization** - an powerful virtualization solution that combines the KVM hypervisor with enterprise virtualization management
- **OpenShift hosted** - a fully managed public PaaS to develop and deploy applications in the public cloud at OpenShift.com

This solution helps Red Hat customers build on-premise private or hybrid PaaS environments for developers. This ITOps PaaS environment brings agility to application development, while addressing enterprise IT needs and ensuring governance, security, and compliance objectives. CloudForms allows administrators to build a cloud infrastructure leveraging multiple providers including Red Hat Enterprise Virtualization, VMWare vSphere, and Amazon EC2. They can then create rich application blueprints in CloudForms, leveraging Red Hat Enterprise Linux and JBoss EAP as well as other Red Hat and third-party components. These application blueprints can then be added to an application catalog and deployed via a self-service portal. Administrators control which application blueprints developers have access to and where they are allowed to run, enabling self-service with governance.

The OpenShift Enterprise PaaS Solution also provides users with access to capacity on the OpenShift hosted PaaS at OpenShift.com. This lets users complement their private or hybrid PaaS environment with a fully hosted PaaS service.

In the future, Red Hat will also include an option for full DevOps PaaS capabilties on-premise through the integration of the OpenShift Origin source code . This will provide customers with the choice of a full DevOps PaaS experience or a more controlled ITOps PaaS environment.

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