OROCK SECURE CONTAINERS AS A SERVICE WITH RED HAT OPENSHIFT
Solution Overview

ACCELERATE APPLICATION DELIVERY WITH CONTAINERS

Containers solve the problem of getting software to run reliably and efficiently from one computing environment to another. They bundle together an application's entire Runtime environment into one package that is easily moved and managed while consuming fewer system resources. By bringing together an application's code, libraries, configuration files, and dependencies, containers enable applications to run as isolated processes with their own resources while abstracting the differences across operating systems and infrastructure environments.

The benefits of containers are tangible: increased resource utilization, greater flexibility, simplified application management and updates, easier deployment of microservices, lower server costs, and fewer hours spent by your development team to debug environments and fix problems. Unfortunately, deploying containers without the appropriate expertise can be difficult, costly, and time consuming. In fact, 75% of enterprise users cited complexity of implementation and operations as the top obstacles to container adoption in one recent study.

Manage and Deploy Containers as a Service

ORock Secure Containers as a Service with Red Hat OpenShift is a comprehensive Platform as a Service (PaaS) offering that is hosted in a FedRAMP Moderate cloud and fully managed by US citizens operating in ORock's US-based NOC and SOC. It combines best-in-class infrastructure, cloud management, and container management services and tools for fast, frictionless access to the capabilities your developers need for streamlined application development and innovation.

Delivered and consumed as an OpEx service within ORock's FedRAMP Moderate boundary, this end-to-end solution from ORock and Red Hat helps you capitalize on the power and flexibility of containers by incorporating:

- **Red Hat OpenShift:** An enterprise-grade open source container platform built on Kubernetes Orchestration Engine and Docker containers

- **ORockCloud:** A secure, high-performance, FedRAMP-compliant environment for hosting the OpenShift platform and your containerized applications and workloads

- **Services:** Simplified setup, deployment, management, and maintenance of the OpenShift platform and the ORockCloud infrastructure

SOLUTION BENEFITS

Designed for DevSecOps Teams
Automate the container application life cycle and integrate security into the container pipeline

Fully-Managed PaaS Solution
Manage your applications, not the underlying platform

Self-Service Provisioning
Create applications on demand from the tools you use the most, while giving operations full control over the environment

Persistent Storage
Run both existing stateful applications and cloud-native stateless applications

Application Automation & Scalability
Scale to hundreds of instances across thousands of self-healing nodes in seconds

Container Portability
Red Hat APIs allow applications created on OpenShift to easily run anywhere that supports containers

RED HAT
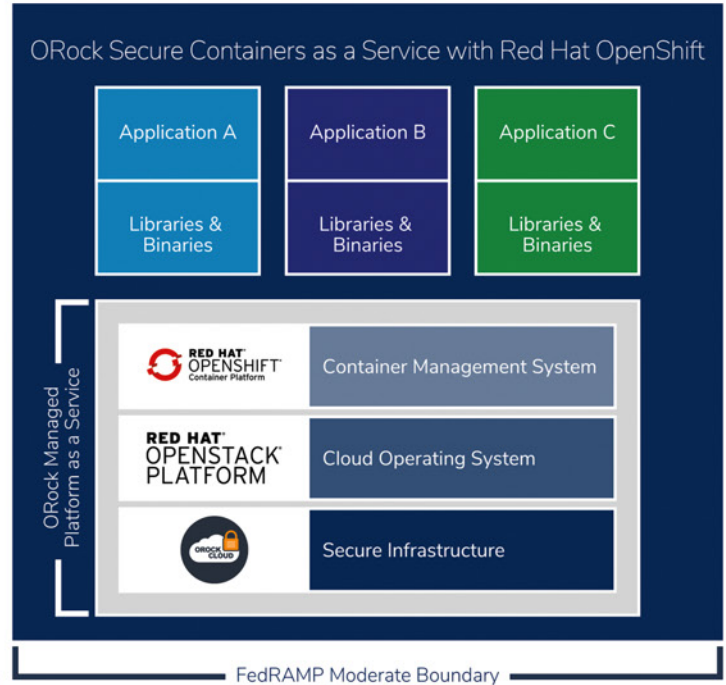OPENSHIFT
Container Platform

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FedRAMP

A COMPREHENSIVE CONTAINER SOLUTION DELIVERED AS A SERVICE

Red Hat OpenShift: Open Source Innovation in a Fully-Supported Platform

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, OpenShift Container Platform helps application development and IT operations teams modernize applications, deliver new services, and accelerate development processes.

Red Hat OpenShift has emerged as a leading open source platform to bring together Docker containers and the Kubernetes Orchestration Engine. It delivers automated operations to manage hybrid cloud and multi-cloud deployments and is optimized for developer productivity and frictionless innovation. Red Hat OpenShift runs on Red Hat Enterprise Linux, the most deployed commercial Linux operating system in use.

ORock Secure Containers as a Service with Red Hat OpenShift

Application A	Application B	Application C
Libraries & Binaries	Libraries & Binaries	Libraries & Binaries

ORock Managed Platform as a Service

RED HAT OPENSHIFT Container Platform	Container Management System
RED HAT OPENSTACK PLATFORM	Cloud Operating System
OROCK CLOUD	Secure Infrastructure

FedRAMP Moderate Boundary

ORockCloud Hosting: The Enterprise-Grade Open Source Cloud

ORock hosts and manages all solution components in ORockCloud, a multi-tenant, FedRAMP Moderate cloud with 325+ security controls. Built from the ground up on a private fiber-optic backbone network for compliant, high-performance data operations, ORockCloud is deployed in Tier III secured data centers and built on HPE hardware with industry-leading security features including Silicon Root of Trust and HPE's supply chain security assurance. It is the first and only FedRAMP authorized cloud to integrate Red Hat OpenStack platform and Red Hat OpenShift.

Services: White-Glove Support from US-Based Engineers

ORock's included services eliminate the need for you to install and maintain the OpenShift platform, or the underlying cloud infrastructure, on your own. Our NOC and SOC simplify the complexity of container adoption by providing the services required to install, deploy, harden, and operate the OpenShift container platform to meet your specifications.

Beginning with pre-sales IT resources to evaluate your needs, ORock engages with your engineers in detailed architecture reviews to determine the best platform fit for your specific requirements. We work hand-in-hand to guide you through the migration process and ensure your environments are up and running. US citizens manage every aspect of platform security, patches, maintenance and monitoring from the networks and data center components up to the OS and Runtime tier.

The result? Your staff only needs to focus on the application and data tiers, allowing you to redirect resources to application development and maintenance instead of platform management.

OROCK TECHNOLOGIES

Accelerate your container adoption.
Contact us at (571) 386-0201 or sales@orocktech.com

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