Bring your own cloud and

Run your apps anywhere

BROCHURE
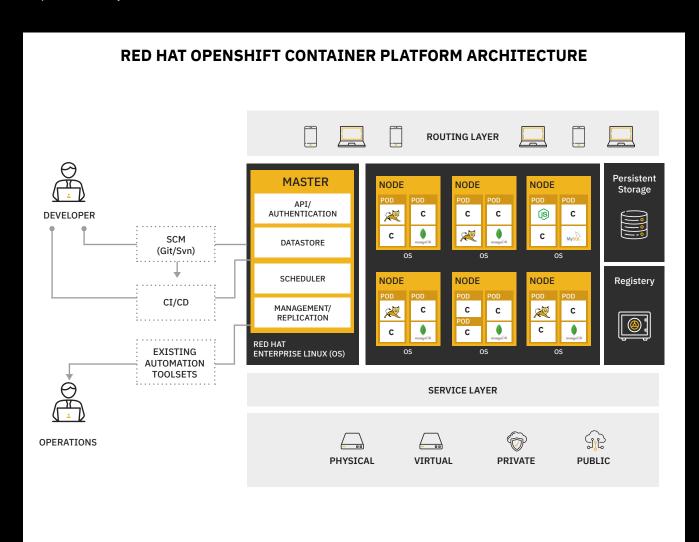
Overview

If you are looking for consistency across the cloud infrastructure, then you need a steady platform like OpenShift for managing your cloud-native applications, which will enable you to run them on any cloud environment.
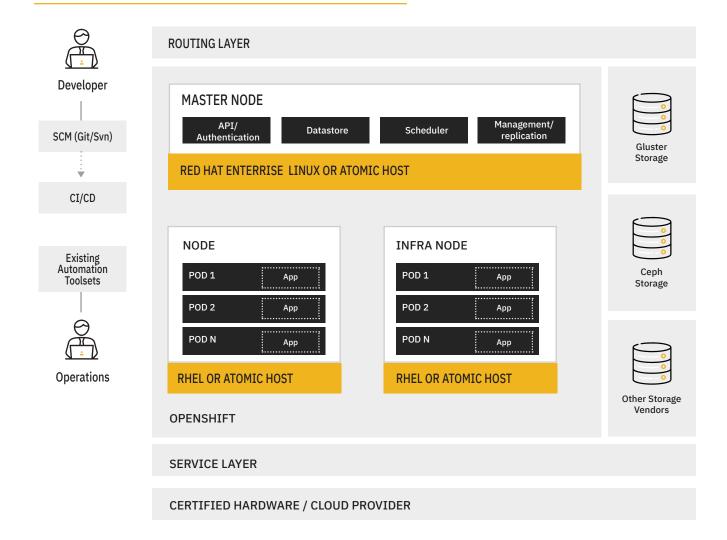
By providing a shared abstraction layer across your infrastructure, OpenShift ensures commonality in packaging, deploying, and managing your applications, which allows you to run them using similar operational models. The simplified approach can help you minimize complexity and improve efficiency.

Our Solution

Using the Red Hat OpenShift Container Platform, our solution enables your development as well as operation teams to run containerized applications with ease and efficacy. The enterprise-grade Kubernetes for container orchestration guarantees optimal performance, while the scale-out design of the solution allows you to start small and eventually scale out your resources. You can even scale them independently of one another depending on the requirement of your workload.

RED HAT OPENSHIFT CONTAINER PLATFORM ARCHITECTURE

Solution **Framework**

Developer

SCM (Git/Svn)

CI/CD

Existing Automation Toolsets

Operations

ROUTING LAYER

MASTER NODE

| API/ Authentication | Datastore | Scheduler | Management/ replication |

RED HAT ENTERRISE LINUX OR ATOMIC HOST

NODE

POD 1	App
POD 2	App
POD N	App

RHEL OR ATOMIC HOST

INFRA NODE

POD 1	App
POD 2	App
POD N	App

RHEL OR ATOMIC HOST

OPENSHIFT

SERVICE LAYER

CERTIFIED HARDWARE / CLOUD PROVIDER

Gluster Storage

Ceph Storage

Other Storage Vendors

OpenShift **Features**

Red Hat OpenShift allows operations teams to manage workloads efficiently, while enabling developers to deploy code the way they want to. The teams get to enjoy a consistent user experience as they need to learn and master a single platform to deploy and scale digital products and services.
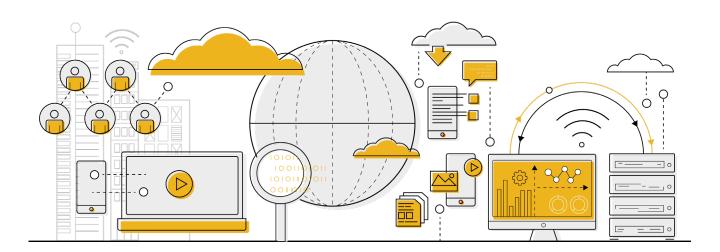
1
Simplified upgrade mechanism using push buttons

2
Single consistent Kubernetes platform for on-premise and public cloud workloads

3
Developer-friendly workflows for quick development and deployment

4
Source-to-image capability to go straight from application code to container

5
Self-service options for application teams to access approved services and infrastructure with centralized management and administration

6
Unified console across all OpenShift clusters for implementing and enforcing policies across multiple teams

7
Automatic platform updates for the container host, Kubernetes cluster, and application services running on the cluster

8
User-friendly console to view and manage all clusters with enhanced visibility across multiple deployments

Benefits

Our services help our clients:

Improved agility
The Platform provides a consistent working architecture that is validated to provision containers at scale, which allows complex production environments to be quickly created and configured.

Immediate returns
Can be configured quickly once assembled. A variety of automation solutions can be used for configuration of hardware and software, quickly provision, and deploy a containerized environment at scale.

Increased efficiency
Combined with a variety of automation tools, it can simplify IT provisioning and provide the right mix of virtual, traditional, and container resources for optimal efficiency and performance.

Automation at scale
Brings software-defined intelligence at every level which delivers an intuitive physical and virtual infrastructure that is quick to configure, easy to maintain, and perfect for managing large-scale deployments of containerized applications.

Persistent storage for containers
Leverages Kubernetes, which allows advanced policy-based storage provisioning and data protection through storage classes. Storage classes empower the administrator to provide advanced data services to the end-user, who can confidently deploy stateful applications with maximum uptime.

Differentiators

Transform legacy applications to free up resources – NSEIT being a Red Hat Partner offer services and solutions to help you migrate and transform your legacy apps for the Red Hat OpenShift Container Platform

Container advisory and implementation services by NSEIT – NSEIT Centre of Excellence can work with you to understand your AS-IS unique characteristics, define the enterprise-grade solution to support your workloads, take you forward from proof of concept to production, automate and secure deployment of your applications in production in line with governance and compliance policies

About **NSEIT**

NSEIT Limited is a digital native technology company that engineers world-class solutions to help our global customers accelerate their digital transformation journeys. Our key service pillars are Application Modernization, Business Transformation, Data Analytics, Infrastructure & Cloud Services, and Cybersecurity, through which we create intuitive digital experiences and tangible business impact. For over two decades, our innate drive for excellence has made us the partner of choice for global organizations. At NSEIT, we fuel digital progress.

For more information, visit us at nseit.com

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