

HCLTech |  Red Hat

# HCLTech SmartPaaS powered by Red Hat OpenShift

# Overview

In today's volatile market, cloud adoption has become imperative to help enterprises accelerate innovation. The new reality has forced many organizations to adopt resilient and responsive business models that leverage cloud-native services across hybrid and multicloud environments. To supercharge their cloud transformation, businesses must adopt a modern, efficient and automated platform to support faster innovation cycles and more productive teams, focusing on continuous modernization and sustainable growth. SmartPaaS, powered by Red Hat OpenShift, combines state-of-the-art enterprise services and solutions for hybrid multicloud PaaS adoption and modernization, helping enterprises optimize resources and technology costs. SmartPaaS for OpenShift is powered by platform modernization services using Red Hat OpenShift Virtualization and GenAI capabilities. This will help enterprises adopt gradual application modernization at pace with a single tool and platform for VM and containers — that is, by running virtual machines as first-class citizens of Kubernetes and harnessing Generative AI's potential by simplifying the deployment and management of LLM models using its built-in features of OpenShift.



## Key Challenges Faced by Enterprises



### Lack of K8/OpenShift skills

- Legacy Linux/Unix teams managing OpenShift environments in a traditional way
- Design flaws in existing OpenShift environment



### Technical debt

- Complexity in running hybrid workloads
- Critical applications still running on older versions of OpenShift
- Lack of control over app components



### Modernization complexity

- Uncertainty about adopting emerging technologies and hosting platform
- Struggling to migrate or modernize legacy apps in an automated manner

# HCLTech's SmartPaaS powered by RedHat OpenShift

HCLTech SmartPaaS Red Hat OpenShift is a comprehensive offering with robust modernization capabilities that help enterprises power their transformation journey. OpenShift reduces the friction of developing, modernizing, deploying, running and managing applications. It supports even the most demanding workloads including AI/ML, LLM models, edge and more.

Right from application development to integration, data management and analytics, SmartPaaS leverages Red Hat technologies such as OpenShift, Ansible, Red Hat Enterprise Linux (RHEL), Red Hat OpenShift AI, Red Hat OpenShift Virtualization, etc. to provide a powerful and mature platform for enterprise adoption. The solution contains platform services across all architectural layers including cluster services, middleware or data platform services. These services are integrated with the ecosystem, infrastructure and management services using several Red Hat products such as the OpenShift platform, OpenShift Virtualization, Data Services, Advanced Cluster Security (ACS), Advanced Cluster Management (ACM) and ActiveMQ streams to deliver services for adoption of Red Hat OpenShift across the various architectural layers. The offering comprises end-to-end consulting, implementation, modernization and integration services.



#### **Advisory services:** Involves consulting around

- OpenShift adoption strategy and roadmap
- Architectural and design aspects
- OpenShift security, automation, ecosystem tools and DevOps



#### **OpenShift design and build:**

- Core platform design and automated build for all OpenShift flavors (Managed OpenShift, OpenShift Virtualization, MicroShift, etc)
- Embedded security and ecosystem tools Integration including RedHat ACM and ACS



#### **OpenShift adoption**

- Deep app/Infra Analysis, Wave group/Migration planning
- Application migration to OpenShift
- Legacy Middleware to CP4A, JBoss on OCP, etc.



#### **OpenShift Modernization**

- OpenShift upgrades (3.x to 4.x) / Virtualization
- Migration from any Kubernetes Platform/Cloud Foundry to OpenShift
- OpenShift Virtualization
- Deployment/ management of data and model pipelines for Red Hat OpenShift AI or other LLM Models running on the OpenShift platform

With SmartPaaS for OpenShift, enterprises can modernize at scale, optimize resources, reduce technology debt and accelerate their transformation. HCLTech, a global advanced Red Hat partner has vast experience delivering digital transformation services to large enterprises globally.

Please write to us at [contact.hyc@hcltech.com](mailto:contact.hyc@hcltech.com) to get started on your modernization journey.

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