



Hybrid Cloud as a Service

Drive innovation and achieve long-term success
with Red Hat and NTT Data



Key benefits of using Red Hat OpenShift in a hybrid cloud environment:

Unified management

OpenShift provides a single pane of glass for managing applications across on-premises and cloud environments, simplifying operations.

Consistent development environment

Developers can build and test applications in containers on their local machines and deploy them to any cloud environment without modifications.

Enhanced resource utilization

By leveraging the container orchestration capabilities of OpenShift, organizations can achieve better resource utilization and reduce overhead.

Scalability and flexibility

OpenShift's ability to run on multiple cloud environments allows businesses to scale their operations dynamically based on demand.

In the rapidly evolving landscape of IT infrastructure, hybrid cloud and containerization have emerged as pivotal technologies driving efficiency, scalability, and flexibility. NTT DATA brings this value to customers with cloud optimization and modernization services leveraging Red Hat technology.

- ▶ Hybrid cloud offers the best of both worlds by integrating private and public cloud environments.
- ▶ Containerization provides a lightweight, portable way to deploy and manage applications.

The hybrid cloud model

A hybrid cloud combines private cloud (on-premises or hosted) and public cloud services, allowing data and applications to be shared between them. This model provides businesses with greater flexibility and more deployment options.

- ▶ **Scalability:** Hybrid cloud enables organizations to scale workloads seamlessly by using public cloud resources during peak demand periods while keeping sensitive data on private clouds for security.
- ▶ **Cost efficiency:** By leveraging the public cloud for non-sensitive tasks and reserving private cloud for critical operations, businesses can optimize costs.
- ▶ **Disaster recovery:** Hybrid cloud ensures robust disaster recovery solutions by distributing data across multiple environments.

Containerization and virtualization: game-changers for business

Containerization packages an application and its dependencies into a lightweight, portable, resource-optimized container, ensuring consistent operation across different computing environments. With virtualization, virtual machines can be migrated into pods using open-source technology such as Kubevirt, supporting a transformation toward a microservice-based architecture.

- ▶ **Isolation:** Containers isolate applications from the underlying system, reducing conflicts and enhancing security.
- ▶ **Portability:** Containers can run consistently across various environments, from a developer's local machine to on-prem production servers and clouds.
- ▶ **Efficiency:** Containers share the host system's kernel, making them more efficient than traditional virtual machines.



NTT DATA and Red Hat partner together to provide cloud technology solutions that enable clients, as well as society, to move confidently into the digital future.

[Learn more about our collaborative partnership.](#)

Hybrid cloud as a Service: NTT Data and Red Hat bridge the gap

The OpenShift platform, developed by Red Hat and built on Kubernetes, is a comprehensive enterprise-grade platform that facilitates container orchestration. It enables developers to build, deploy, and manage applications consistently across hybrid cloud environments. With additions such as data sovereignty tools and software-defined memory, OpenShift provides a unique offering that supports data governance while ensuring infrastructure is efficiently optimised.

Hybrid cloud and containerization are reshaping the IT landscape by offering unparalleled scalability, efficiency, and flexibility. Moving applications and services to a cloud environment can be complex. A consistent experience across the hybrid cloud from Red Hat OpenShift and state-of-the-art cloud technology services from NTT Data empowers clients with the tools and support needed to thrive in a hybrid cloud environment.

Strategic Value of adopting Hybrid Cloud and OpenShift Containerized services

- ▶ **Portability:** Move workloads between on-prem and clouds, as part of operational resilience strategies.
- ▶ **Exit strategy compliance:** Free ties to particular hosting frameworks, providing the capability to migrate services elsewhere and align with regulatory compliance requirements.
- ▶ **Business value:** Control infrastructure expenditure by scaling workloads up or down to adapt flexibly to changing business demands.
- ▶ **Technology value:** Use out-of-the-box, stable, certified, and supported application services and operating systems.
- ▶ **Assured services:** Take advantage of extensive global support capabilities to proactively assist in platform management and provide service insights.
- ▶ **Integrated services:** Benefit from OpenShift, RHEL, and Ansible integrations that deliver a proven, industry-compatible IAC framework for stability, reliability, automation, and delivery tooling.



About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. [A trusted adviser to the Fortune 500](#), Red Hat provides [award-winning](#) support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

f facebook.com/redhatinc
X twitter.com/RedHat
in linkedin.com/company/red-hat

redhat.com

North America	Europe, Middle East, and Africa	Asia Pacific	Latin America
1 888 REDHAT1 www.redhat.com	00800 7334 2835 europe@redhat.com	+65 6490 4200 apac@redhat.com	+54 11 4329 7300 info-latam@redhat.com