Simplify hybrid cloud with Red Hat Managed OpenShift and HPE GreenLake

Take the time and complexity out of managing a hybrid cloud environment

Developing, managing and maintaining applications across different environments (on-premises, private cloud or public cloud) can deliver a range of challenges. In addition to workload for IT teams, a complex environment can also incur considerable maintenance costs due to the specific skills required to maintain different environments. A lack of compatibility between various elements can mean delays getting innovations to market, and a lack of standardisation can mean reduced agility.

In today's market, many enterprises also lack the skills needed to effectively maintain complex hybrid cloud environments in-house. The burden of ensuring security and compliance can be significant—diverting resources from core business activities. Lack of standardised deployment practices can also hinder consistency and scalability across environments, impacting business continuity and growth.

Discover a simpler, easier way: HPE GreenLake for Red Hat® OpenShift® Container Platform

Hewlett Packard Enterprise and Red Hat have joined forces to offer you the best of both worlds: the flexibility, security and agility of the Red Hat OpenShift Container Platform, with the cloud operating experience offered by HPE GreenLake. You receive a cloud-native container-ready infrastructure that includes the compute, storage, and networking you need to run resource-intensive workloads simultaneously.

Plus, the expert team at HPE will provide seamless and expert management for you at every step, reducing the operational overhead for your IT team. This powerful solution delivers advanced security, compliance and streamlined governance—helping you innovate faster, scale efficiently, and stay competitive in dynamic markets, ultimately driving growth and delivering exceptional customer experiences.experiences.

A powerful, as-a-service hybrid cloud container solution that can help your business:

- Innovate faster and adapt rapidly.
- Increase operational efficiencies.
- Improve security.
- Reduce total solution spend.
- Gain financial transparency.
- Ensure accessibility of data wherever it resides.
- Unleash the value of your data

![Red Hat logo | Hewlett Packard Enterprise logo]

- **Scale quickly and easily** — optimise resource utilisation and efficiently adapt to evolving business needs

- **Accelerate time to market** — enjoy streamlined application deployment and management.

- **Mitigate security risks** — in-built protections safeguard your data and ensure regulatory compliance.

- **Reduce complexity** — simplified integration with your existing infrastructure lowers complexity and enhances interoperability for seamless workflow integration.

- **Save costs** — optimised resource allocation helps minimise expenses associated with hardware, software, and maintenance overheads.

- **Free up internal IT resources** — outsource your infrastructure and OpenShift Container Platform management to a team of professionals from HPE. Re-invest resources into higher valued strategies to deliver business outcomes.

- **Deploy your applications where it suits you** — Red Hat Advanced Cluster Management for Kubernetes means you can deploy your applications easily to either of their OpenShift clusters on-premises, in hosted data centers, on the edge, or even in the public cloud.

Red Hat OpenShift and HPE GreenLake are proven to	Red Hat OpenShift Platform Plus[1] is proven to deliver	HPE GreenLake[2] is proven to enable

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Red Hat OpenShift Platform Plus[1] is proven to deliver

- 203% return on investment
- $4.63M net present value.
- 10% improvement in developer productivity.
- 24 hours per user, per year reduction in application downtime.
- Reduction in DevOps engineer hiring by 5 years.

HPE GreenLake[2] is proven to enable

- 45% TCO savings for infrastructure.
- 80% faster time to value.
- 65% operational savings.
- Improved IT resource efficiency by 60%

HPE GreenLake

- Boost operational and financial flexibility.
- Align costs to business outcomes.
- As-a-service model provides ability to scale according to demand, and deliver elastic capacity.
- Optimise resources for higher value projects.
- Improved sustainability benefits with the ability to monitor energy usage and carbon emissions.
- Free up capital with as-a-service model and convenient pay-per-use billing.
- Enhanced insights due to HPE GreenLake Consumption Analytics Portal

Red Hat OpenShift

- Consolidate your infrastructure across physical data centres, virtual environments, private and public clouds, and edge locations.
- Automate processes, reduce complexity.
- Operate more securely from end to end.
- Code quickly using familiar tools.
- Rapidly deliver code by seamlessly leveraging developer tooling.
- Choose a platform to power the business today.
- Create a hybrid cloud strategy for the future.
- Support innovation without limitation, including the use of AI.

Common use cases for HPE GreenLake for Red Hat OpenShift Container platform

- **Microservices architecture** — Break monolithic applications into smaller, manageable services for agility and scalability.

- **DevOps pipeline** — Streamline software development, testing, and deployment workflows for increased efficiency.

- **Hybrid cloud migration** — Seamlessly move applications across on-premises and cloud environments for flexibility.

- **Continuous Integration/Continuous Deployment (CI/CD)** — Automate software delivery pipelines to accelerate release cycles.

- **High-Performance Computing (HPC)** — Enable parallel processing and resource optimization for computationally intensive workloads.

- **AI/ML initiatives** — Resource intensive analytics of data lakes and models to create business value propositions, features and services to the market.

> "For the last 10 years, most enterprises have become what I like to call hybrid by accident, where those that were able to move to the public cloud did so. However, 70% of enterprise workloads remain on-premises, and most of them operate without a cloud-native experience."
>
> Antonio Neri
> HPE CEO

How it works

Customers may start their application transformation and AI journey through a starter three-nodes cluster design, and expand in accordance with their business requirements through various options from bare-metal to virtualised instances on premises, or even on external hosted private clouds or the public cloud—all under HPE's managed services.This is all delivered as a complete monthly pay-as-you-go hosted in a customer's data center or at a colocation partner of their choice.
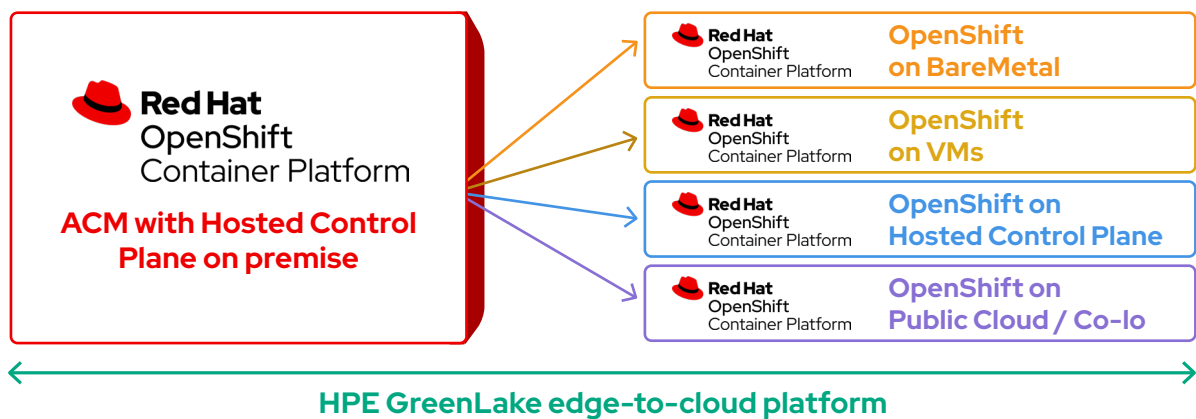

Figure 1. Flexible managed OpenShift expansion options for customers with HPE GreenLake

Time to value
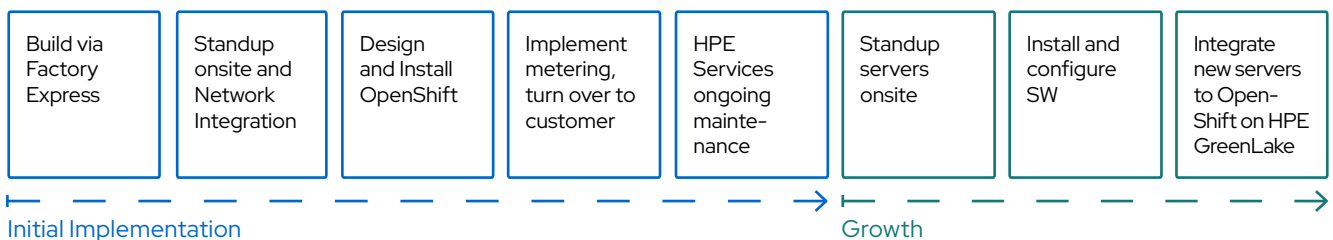
Figure 2. Time to value for each customer varies based on project complexity.

Initial Implementation

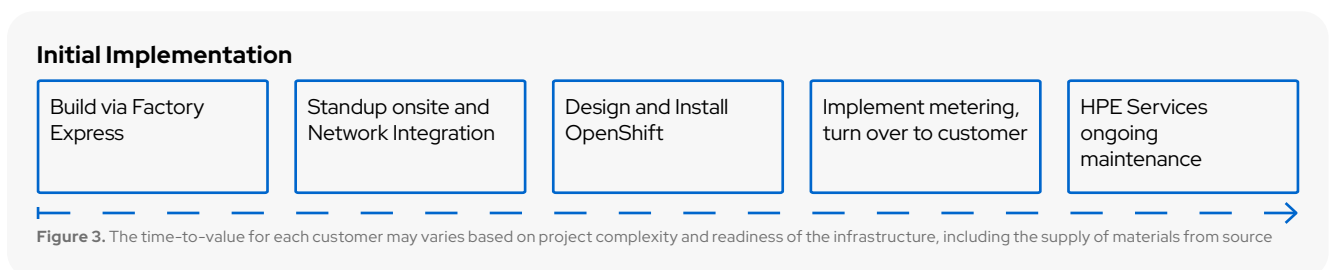| Build via Factory Express | Standup onsite and Network Integration | Design and Install OpenShift | Implement metering, turn over to customer | HPE Services ongoing maintenance |

Figure 3. The time-to-value for each customer may varies based on project complexity and readiness of the infrastructure, including the supply of materials from source
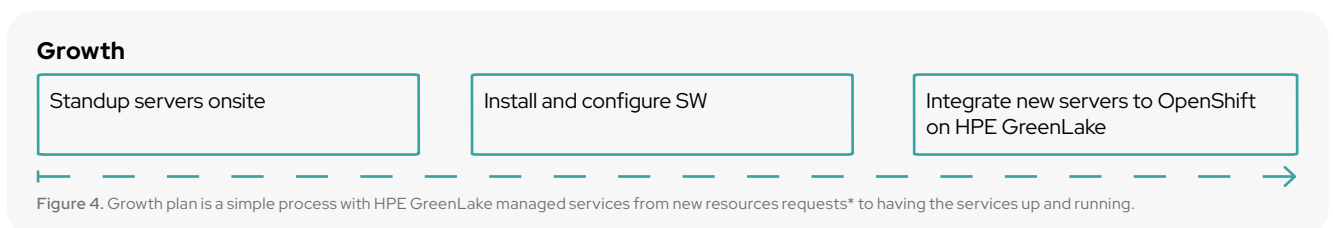
Growth

| Standup servers onsite | Install and configure SW | Integrate new servers to OpenShift on HPE GreenLake |

Figure 4. Growth plan is a simple process with HPE GreenLake managed services from new resources requests* to having the services up and running.

* Timeline of availability depends on global supplies and may impact the overall project readiness timeline (if any)

HPE | Solutions Overview

Overview

To help your organization capitalize on the extensive benefits of containers—portability, efficiency, agility, faster app delivery and startup, improved security, easier management, and greater flexibility—HPE and Red Hat® deliver HPE GreenLake for Red Hat® OpenShift® Container Platform.

This as-a-service hybrid cloud container solution is designed to help you:

- Innovate faster and adapt more quickly to change
- Increase operational efficiencies
- Improve security
- Reduce total solution spend
- Gain financial transparency that directly associates cost to consumption
- Ensure accessibility of data wherever it resides
- Unleash the value of your data so you can create rich experiences, accelerate decision velocity, and continue innovation to move your business forward

How a Japanese banking firm accelerated innovation with HPE and Red Hat

A major Japanese Tier 1 banking institution recently made the shift to HPE GreenLake for Red Hat OpenShift Container Platform – as part of an overall banking modernisation project. The bank wanted to adopt a future-ready architecture that would enable them to adapt quickly to changes in their market. They were looking for a standard container platform that could not only provide high availability and security, but also provide a seamless unified managed experience on public cloud as an on-premise deployment.

With HPE GreenLake for Red Hat OpenShift Container Platform, the bank has been able to accelerate the modernisation of its applications, divesting their resources from platform management to focus on improving their developers' team experience. This means they can run highly secured and available banking applications, leveraging the benefits of the hybrid cloud, which has considerable flow-on benefits for customers.

Find out more

The team at HPE Services can deliver a range of services to help you identify your infrastructure requirements and determine the next steps for your business. This may include a TCO analysis, sustainability assessment, cloud transformation workshop, 'right mix' advisory workshop, or a demo of Red Hat OpenShift Container Platform.

Contact us on apac.greenlake@hpe.com to learn more.