4 reasons to run applications on Red Hat OpenShift Service on AWS

Red Hat and Amazon Web Services (AWS) deliver a jointly engineered, operated, and supported ready-to-use application platform that saves time and effort in the modernization journey. This cloud service combines Red Hat® OpenShift®, the AWS infrastructure, and an expert site reliability engineering (SRE) team to deliver a reliable foundation for innovation.

This checklist offers 4 reasons to run applications on Red Hat OpenShift Service on AWS. Realize the benefits.

1 Accelerate time to value

Unlock business value by allowing DevOps teams to focus on core, innovative priorities rather than ongoing platform management. With Red Hat OpenShift Service on AWS, DevOps teams can:

- Streamline DevOps. Build and deploy applications in less time on a production-ready application platform without the need to learn new technologies or manage integrations.
- Integrated tools and services. Boost developer productivity with built-in operational tools that allow teams to maintain a consistent workflow from code to production.
- Connect applications to the extensive range of AWS services, like AI/ML, databases, and analytics, through a unified management console. This integration allows for rapid scaling and feature expansion without the complexity of manual configuration.

2 Manage workloads consistently across the hybrid cloud

Red Hat OpenShift Service on AWS provides a consistent user experience no matter where it is deployed—on-premise, in a cloud, or at the network edge. When managing workloads across hybrid cloud environments, you get:

- **Operational flexibility.** Scale and shift workloads to AWS without uninterruptions as business needs evolve, avoiding the operational overhead of mastering different platforms.
- **DevOps efficiency.** Allow DevOps teams to focus on business-differentiating priorities instead of mastering fragmented tool sets and processes.
- **Accelerated AI/machine learning (ML) innovation.** Build and scale intelligent applications with a platform optimized for AI workloads, offering consistent integration with native AWS services like Amazon Bedrock.
- **Standardized operations.** Eliminate isolated team structures by applying the same security, networking, and compliance policies across various workload types, reducing the complexity and risk.

3 Migrate and modernize virtual machines

Red Hat OpenShift Virtualization, a built-in capability of Red Hat OpenShift Service on AWS, allows organizations to run both virtual machines (VMs) and containers consistently on a fully managed application platform. Users benefit from 1 interface, 1 toolset, and 1 set of operational practices across all workloads while creating a path toward application modernization. Benefits include:

- Streamlining implementations using the migration toolkit for virtualization and Red Hat Ansible® Automation Platform, designed for cloud compatibility and comprehensive automation from Day 1.
- Abstracting post-migration complexities such as networking and load balancing while using Ansible Automation Platform to automate configuration and migration at scale.
- Running containers and VMs on a single, unified platform, inheriting cloud-native capabilities such as microsegmentation, modernization with AI workloads, and Infrastructure as Code (IaC) without refactoring applications.
- Increasing cost efficiency with better resource use. OpenShift Virtualization supports hardware overcommit in cloud environments, allowing more VMs to run on fewer instances and reducing overall cloud costs.

4 Optimize cloud costs

Red Hat OpenShift Service on AWS helps organizations optimize costs through flexible consumption and simplified procurement. Consolidate spend into a single AWS bill that covers both Red Hat services and infrastructure, while maximizing existing committed spend. Options for customizing costs include:

- **Pay-as-you-go options.** Benefit from on-demand consumption and hourly billing to optimize cloud costs and avoid paying for idle infrastructure scaling up and down to meet demand.
- **Reduced infrastructure use.** Deploy Red Hat OpenShift Service on AWS with hosted control planes to reduce the overall infrastructure use, eliminating the need for provisioning the infrastructure and leading to lower operational costs.
- **Streamlined billing and procurement.** Receive a single bill from AWS for both the Red Hat OpenShift service and AWS infrastructure consumption, streamlining the billing and procurement process to reduce complexity.
- **Maximize AWS committed spend.** Optimize budget by using AWS committed spend, negotiated discounts, and entitlements to procure Red Hat OpenShift Service on AWS.

Red Hat OpenShift Service on AWS

Discover more about the details and benefits of Red Hat OpenShift Service on AWS.

Read KDDI's Red Hat OpenShift Service on AWS adoption story that led to reduced costs and increased productivity.

Start your application modernization

Read this e-book to learn about migrating VMs to Red Hat OpenShift Service on AWS.

About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.

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