

# 4 ways to scale and modernize with Red Hat solutions on AWS

Using Red Hat solutions on Amazon Web Services (AWS) provides a flexible, consistent foundation that helps organizations deliver high-quality, innovative applications in cloud environments. By combining Red Hat's open source technologies with the scalability of AWS, you can navigate the changing landscape of virtualization and AI with confidence.

## 1 Adopt and scale AI workloads effectively

Support gen AI adoption with a consistent platform that mitigates risk and streamlines deployment. Whether running Red Hat® Enterprise Linux® on AWS, Red Hat OpenShift® AI, or Red Hat AI Inference Server, organizations can build, deploy, and scale AI applications with the same trusted tools powering traditional workloads across the hybrid cloud.

- ▶ **Integrate AWS AI tools.** Access the AWS suite of AI tools via Red Hat OpenShift Service on AWS to combine managed services with flexible model deployment. Use Red Hat Ansible® Automation Platform to manage and configure AWS AI services to maintain consistent deployment and configuration.
- ▶ **Scale to meet business needs.** Develop AI models and agents once and deploy them anywhere using OpenShift AI and the scalability of AWS or Red Hat Enterprise Linux for AWS as a consistent, AI-ready platform.
- ▶ **Improve business insights.** Optimize the AI/machine learning (ML) journey with hardware acceleration support and collaboration tools for data scientists and developers available on OpenShift AI and Red Hat OpenShift Service on AWS.
- ▶ **Optimize cloud resources.** Streamline model inference with AI Inference Server to serve more users and agents within existing cloud spend. Use broad hardware accelerator support to maximize the available graphics processing units (GPUs) on AWS.

## 2 Migrate VMs with confidence and modernize at any pace

Red Hat OpenShift Virtualization, an included component of Red Hat OpenShift Service on AWS, helps organizations accelerate the migration of their virtual machines (VMs) to a fully managed application platform with minimal disruption. Red Hat OpenShift Service on AWS provides a unified environment that supports both VMs and containers, allowing you to maintain operational consistency while paving the way for future modernization.

- ▶ **Accelerate VM migration.** Simplify implementations using migration toolkit for virtualization and Ansible Automation Platform, which is designed for cloud compatibility and full automation from Day 1.
- ▶ **Minimize setup time.** Abstract post-migration complexities, such as networking and load balancing, while using Ansible Automation Platform to automate configuration and migration at scale.
- ▶ **Modernize efficiently.** Run containers and VMs on a single, unified platform, inheriting cloud-native capabilities such as microsegmentation, modernization with AI, and Infrastructure as Code (IaC) without refactoring applications.

### 3 Enhance agility and optimize cloud costs

Benefit from the capabilities of Red Hat OpenShift Service on AWS, Red Hat Enterprise Linux, and the elastic capacity of AWS to respond quickly to changing business demands. Flexible consumption models allow IT leaders the capability to free up valuable resources and prioritize budget for modernization.

- ▶ **Scale on demand.** Use autoscaling capabilities for compute and high availability across AWS global regions to handle fluctuating workloads.
- ▶ **Maximize committed spend.** Purchase [Red Hat solutions directly from the AWS Marketplace](#) to draw down on your AWS Private Pricing Agreement (PPA) commitments.
- ▶ **Pay-as-you-go.** Benefit from on-demand consumption and hourly billing to optimize cloud costs and avoid paying for idle infrastructure scaling up and down to meet customer demand.
- ▶ **Increase GPU availability and scalability.** By using Red Hat OpenShift Service on AWS, IT teams can prereserve GPUs and quickly spin-up GPU-enabled clusters for short-term projects, paying only for what is used.

[Learn more about the partnership](#)

[Discover how](#) Red Hat and AWS help organizations accelerate innovation with a comprehensive hybrid cloud platform.

### 4 Strengthen security posture across the hybrid cloud

Mitigate risk in operations by layering security-focused Red Hat technologies onto AWS infrastructure. This partnership offers a trusted software supply chain and integrated security tools to help build, deploy, and run applications anywhere with enhanced focus on security.

- ▶ **Integrate multilayer security.** Proactively identify and remediate threats with Red Hat Lightspeed (formerly Red Hat Insights) and run applications on dedicated Amazon Elastic Compute Cloud (EC2) infrastructure with built-in security features.
- ▶ **Improve governance.** Automate compliance checks and security policy enforcement across hybrid environments using Ansible Automation Platform.
- ▶ **Decrease risk.** Use Red Hat Advanced Cluster Security for Kubernetes to operationalize security for your supply chain and workloads across AWS services.

[Try Red Hat solutions on AWS](#)

Experience the combined power of Red Hat and AWS with a flexible, consistent foundation in cloud environments. [Learn how to get started.](#)



#### 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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