

# Migrate VMs to AWS cloud

## Red Hat OpenShift Virtualization in Red Hat OpenShift Service on AWS

*"When you're trying to ensure that your business meets financial obligations and corporate deadlines, a turnkey solution like this impacts the velocity greatly. You're able to set up the infrastructure, move VMs into a highly available, fault-tolerant environment, and migrate applications very quickly, therefore accelerating the modernization journey."*

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Watch the **webinar**

### Find the right home for your VMs in an uncertain IT landscape

With the virtualization landscape in flux, IT leaders are exploring alternatives to their existing infrastructure. They need a platform that not only supports traditional virtual machine (VM) workloads, but also facilitates the development and deployment of new applications across on-premise, cloud, and edge environments. Beyond the ability to simply "lift and shift" VMs, any new technology must also modernize environments to facilitate building and deploying new applications. [Red Hat® OpenShift® Virtualization](#) on [Red Hat OpenShift Service on AWS](#) offers a solution that supports current VMs while also helping your organization benefit from cloud-native technologies.

### Red Hat OpenShift Virtualization on Red Hat OpenShift Service on AWS

OpenShift Virtualization, an included feature of Red Hat OpenShift, allows for migration and management of traditional VMs on a trusted, consistent, and comprehensive hybrid cloud application platform. It is available for self-managed Red Hat OpenShift on premise and on AWS, and on OpenShift Service on AWS for bare metal instances. With OpenShift Virtualization on OpenShift Service on AWS, your organization can migrate VMs off of your current virtualization platform onto a fully managed comprehensive application platform, without having to stand up hardware in your datacenter.

You can use the [migration toolkit for virtualization](#) to migrate your VMs to OpenShift Service on AWS. Once migrated, you can then modernize your VM-based applications at your own pace. Teams can take advantage of cloud-native technologies—such as container-based workloads and event- and serverless-based applications—to accelerate time to value.

OpenShift Service on AWS provides a comprehensive application platform, jointly managed and supported by Red Hat and AWS. IT teams can focus on building and deploying applications instead of infrastructure management. Expert site reliability engineers handle proactive monitoring and maintenance of the underlying platform, Day 2 operations, and automated tasks such as upgrades.

With OpenShift Virtualization on OpenShift Service on AWS, your organization can run your VMs and containers on a familiar Red Hat OpenShift platform and benefit from a consistent operational experience.

## Benefits of running OpenShift Virtualization in an AWS environment

With OpenShift Virtualization on OpenShift Service on AWS, you can:

- ▶ Deploy and manage VMs consistently, on premise and in the cloud.
- ▶ Benefit from the same unified tools, processes, and pipelines for all applications.
- ▶ Migrate your Windows VMs and Linux® VMs with the migration toolkit for virtualization.
- ▶ Refactor VMs on your schedule—choose the applications you want to refactor, or containerize when the time is right.
- ▶ Take advantage of a single unified bill from AWS for both OpenShift and AWS consumption and use your current AWS committed spend.

### Get started

- ▶ Explore the [learning path on OpenShift Virtualization on OpenShift Service on AWS](#).
- ▶ Help your teams build OpenShift Virtualization skills with a [dedicated Red Hat Training course](#). Speak to a Red Hat Training specialist to learn more about our virtualization training and certification offering discounts.
- ▶ Watch a [demonstration](#) to learn about how you can migrate from your current environment to OpenShift Virtualization on OpenShift Service on AWS with the migration toolkit for virtualization.
- ▶ Read more about the advantages of [OpenShift Service on AWS](#).



### 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.

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