

3 benefits of moving to Red Hat OpenShift Virtualization on OCI

Changing virtualization needs, along with the emergence of cloud-native and AI-powered applications, has created a need for a platform that can help organizations reduce organizational complexity while also supporting their modernization initiatives. This checklist details 3 key benefits of migrating your virtual machines (VMs) to Red Hat® OpenShift® Virtualization on Oracle Cloud Infrastructure (OCI).

1 Accelerate VM migration and deployment at scale

Migrating VMs to a new platform can be a lengthy and costly process if not properly executed. This becomes more pronounced when the migration includes thousands of VMs, which increases risk of migration-related inconsistencies or errors.

OpenShift Virtualization on OCI accelerates the migration of existing VM workloads at scale, while maintaining operational continuity and consistency, through features that include:

- ▶ Migration Toolkit for Virtualization (MTV), which provides step-by-step guidance to help streamline migration and mitigate errors.
- ▶ Integration with Red Hat Ansible® Automation Platform, which can orchestrate the move of large numbers of VMs, perform pre- and post-migration checks, and coordinate networking, storage, and other dependencies, including OCI services.
- ▶ Support for live migration to keep your VMs running, reducing downtime and helping you transition workloads onto OCI efficiently.

2 Optimize operations with integrated automation, tools, and workflows

Operating in a hybrid or multicloud environment can increase the complexity of your day-to-day operations and management processes, especially when not supported by the right platform and tools.

OpenShift Virtualization on OCI helps reduce your management burden by offering access to automation capabilities (through Ansible Automation Platform) and Kubernetes management tools that are preintegrated with operational tooling and infrastructure services from Red Hat and OCI. This allows you to:

- ▶ Create and manage consistent automation workflows across domains, including OCI infrastructure and environments.
- ▶ Automate the management and scaling of your OCI deployments, to reduce day-to-day operational complexity and support your hybrid or multicloud automation strategy.
- ▶ Further streamline the management of partner applications with Kubernetes Operators and Helm charts optimized for integration with OCI.

3 Support a phased modernization journey

Migrating to a new virtualization platform is often just the initial step in a broader modernization strategy. This should be supported with unified management for both traditional and modernized workloads, as well as access to innovative tooling and development approaches.

OpenShift Virtualization on OCI helps your organization modernize confidently and at its own pace by providing support for both virtualized and containerized applications, comprehensive developer and operations tooling, and a foundation for cloud-native and AI-powered application development. This platform allows you to:

- ▶ Manage both your virtualized and containerized applications with a unified and consistent set of tools and workflows, reducing management complexity and allowing your teams to continue using their existing skills.
- ▶ Maintain existing virtualization investments while concurrently modernizing traditional workloads and infrastructure with the use of cloud-native architectures, streamlined management workflows, Infrastructure-as-Code (IaC) practices, and modern application development approaches.
- ▶ Further support your application and infrastructure modernization with full integration into OCI-native services, such as Autonomous Database, AI Services, Object Storage, and other innovative IT tools.

Learn more about Red Hat and OCI

Explore [the Red Hat and OCI partnership](#) to learn more about the benefits of our joint solutions and how OpenShift Virtualization on OCI can support your organization’s VM migration and application modernization journeys.



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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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