

PRESIDIO & RED HAT

Simplify IT with Red Hat OpenShift Virtualization



KEY TAKEAWAY:

Red Hat OpenShift Virtualization, included with Red Hat OpenShift, unifies virtual machine (VM) and container management on a single platform, reducing complexity and accelerating innovation. It offers a path to modernization while preserving existing virtualization investments. The Presidio team is here to help augment, lead, or be part of your execution team.

INTRO:

Recent changes in the virtualization vendor landscape are significantly impacting enterprise virtualization deployment strategies by causing significant price increases, forcing a shift to subscription-based licensing, simplifying product bundling, and altering partner relationships, leading many businesses to re-evaluate their virtualization needs and potentially exploring alternative platforms due to concerns about cost and flexibility under the new regime. This brief explores a viable virtualization option—Red Hat OpenShift Virtualization, leveraging KubeVirt and KVM, an open-source project that allows VMs and containerized workloads to coexist in Kubernetes clusters.

ENTERPRISE VIRTUALIZATION CHALLENGES

- ◆ **Barriers to innovation:** Existing solutions hinder app modernization and development, impacting developer productivity
- ◆ **Rising virtualization costs:** Increasing costs associated with existing virtualization and infrastructure
- ◆ **Slow delivery:** Slow application deployments delay business value and frustrate teams
- ◆ **Managing multiple platforms:** Balancing investments and training across new platforms while maintaining existing infrastructure and applications

RED HAT OPENSIFT VIRTUALIZATION TO THE RESCUE

- ◆ **Migrate now:** With Red Hat Migration Toolkit for Virtualization (MTV) you can migrate VMs at scale to OpenShift in a few steps.
- ◆ **Begin modernizing today and innovating tomorrow:** Modernize VM-based applications by leveraging Red Hat OpenShift's modern management principles.
- ◆ **Consistent management:** Simplify VM, container, and serverless management with a unified view and consistent set of tools with Red Hat OpenShift.
- ◆ **Enhanced operational efficiency:** Improve time to production with self-service options for rapid VM deployment. Integrate VMs with automation and development pipelines for continuous integration/continuous deployment (CI/CD) capabilities.
- ◆ **Bring cloud-native to VMs:** Apply cloud-native operational practices to VMs for faster time to value. Manage VMs and containers with the same tools on a single platform.

15 BENEFITS OF RED HAT OPENSIFT VIRTUALIZATION

1. **Unify VMs and containers:** Run both on a single platform for streamlined management and operations.
2. **Simplify IT operations:** Eliminate complexity with a single platform for VMs, containers, and serverless workloads.
3. **Operate consistently across hybrid cloud:** Deploy and manage VMs consistently across hybrid and multicloud environments for optimal resource use.
4. **Consolidate virtualization platforms:** Simplify VM migration with pre-validation and warm migration capabilities.
5. **Modernize applications on your schedule:** Strategically modernize applications by combining modern development tools with mixed workloads (VMs, containers).

Simplify IT with Red Hat OpenShift Virtualization

- 6. Self-service VM deployment:** Empower users to rapidly deploy pre-approved VMs without IT intervention.
- 7. Integrate VMs into development pipelines:** Increase development team consistency and speed with standardized VM environments for coding, testing, and debugging.
- 8. Production-ready hypervisor technology:** Leverage the security, stability, and performance of the KVM hypervisor included in Red Hat Enterprise Linux.
- 9. Boost VM performance:** Achieve near linear boot times for large numbers of VMs, ensuring critical applications remain available.
- 10. Accommodate multiple guest operating systems:** Support diverse workloads, applications, and services on shared infrastructure.
- 11. Reduce risk with advanced security features:** Strong isolation technologies and adherence to security best practices enhance VM security.
- 12. Simplify live VM migration:** Maintain continuous operations with live migration capabilities during infrastructure changes.
- 13. Back up and restore VMs:** Minimize disruptions with frequent VM backups and quick restoration capabilities.
- 14. Scale infrastructure as workloads change:** Dynamically scale infrastructure up or down as workloads change to ensure optimal performance and resource use.
- 15. Support a collaborative, open-source model:** Benefit from continuous innovation, open standards, and open APIs for flexible integration with open-source technologies.

WHY PRESIDIO AND RED HAT?

- ◆ Presidio can help bridge the gap between traditional virtualization and modern virtualization platforms like OpenShift.
- ◆ We offer assistance in all stages of the Virtualization journey, from process adoption to platform deployments like Red Hat OpenShift.
- ◆ Our team has knowledge and experience with Red Hat OpenShift and other modern on-premises and cloud technologies. Regardless of your choice, Presidio experts are here to help augment, lead, or be part of your execution team.

EMBRACE THE FUTURE WITH RED HAT OPENSIFT VIRTUALIZATION

- ◆ Reduce operational complexity with a unified, modern platform.
- ◆ Modernize VMs and prepare for a cloud-native future.
- ◆ Experience Red Hat OpenShift Virtualization with a Presidio Demo, Workshop, or POC. Contact us today for more details.

Partner with Presidio to simplify your IT environment and unleash the power of Red Hat OpenShift Virtualization.

[Contact Presidio](mailto:shameezaali@presidio.com) [shameezaali@presidio.com]

