## Executive Summary

The Li9 OpenShift Virtualization QuickStart is tailored for organizations seeking a high-availability deployment of OpenShift Virtualization. Leveraging Li9's proven expertise, this QuickStart allows customers to rapidly evaluate and adopt virtualization capabilities within an enterprise-grade OpenShift environment.

Implementation Timeline: 2-4 Weeks
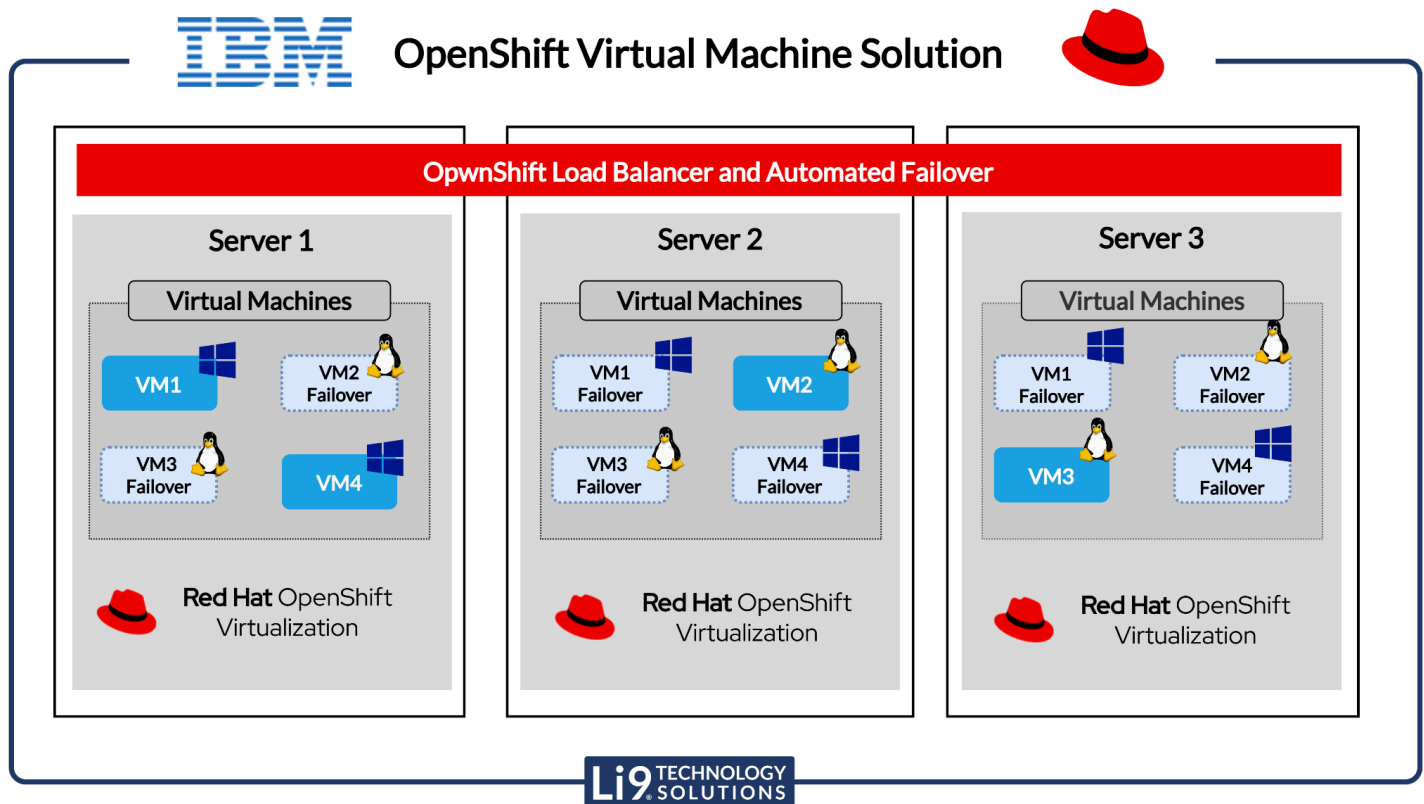
What is OpenShift Virtualization?

OpenShift Virtualization is Red Hat's innovative solution that leverages modern container architecture to run virtual machines alongside containers seamlessly within the same OpenShift environment. OpenShift Virtualization simplifies infrastructure management by allowing traditional virtual server workloads to coexist with modern containerized applications, providing flexibility, operational efficiency, and streamlined resource allocation.

Why OpenShift Virtualization for Modern Workloads?

OpenShift Virtualization combines Red Hat's established virtualization expertise with OpenShift's powerful Kubernetes-based container management platform. This unified

approach enables IT teams to reliably deploy and manage diverse virtual workloads, emphasizing resilience, simplicity of operations, and adaptability to modern IT requirements.

OpenShift Virtualization provides intuitive GUI-based administration through the OpenShift Console. The console automatically generates underlying text-based configurations, ensuring all operations performed through the GUI can also be managed via CLI. This capability supports comprehensive Infrastructure as Code (IaC) strategies, enhancing automation, reproducibility, and consistency.

Key Value Propositions

Accelerated Deployment and Modernization

- **Efficient Resource Management:** Optimized workload distribution with automated failover.
- **Unified Platform Operations:** Integrated management simplifies overall infrastructure oversight.

Built-In Security and Compliance

- **Enhanced Security Measures:** Built-in role-based access, comprehensive network policies, and compliance standards tailored to regulated industries.
- **Reliable Infrastructure:** Persistent storage and high availability for continuous critical operations.

Comprehensive Cluster Management

- **Centralized Control with OpenShift Console:** OpenShift Container Platform streamlines operations across multiple clusters.
- **Monitoring and Policy Enforcement:** Integrated monitoring tools and governance features within the OpenShift Console maintain performance and compliance at scale.

Deliverables

- Customized Red Hat OpenShift Virtualization environment
- Virtual machine provisioning demonstration
- OpenShift Container Platform implementation (via OpenShift Console)
- VMware to OpenShift Migration Toolkit deployment
- Detailed environment architecture and configuration documentation
- Knowledge transfer sessions for effective post-engagement management

Project Phases

Discovery

- Stakeholder workshop to identify requirements, infrastructure assessment, and project scope definition.

Design

- Detailed architecture planning, including network topology, security, and storage solutions.

Deployment

- Installation and configuration of OpenShift cluster, enabling virtualization per best practices and client-specific requirements.

Integration

- Deployment and configuration of the VMware to OpenShift Migration Toolkit to facilitate efficient virtual machine migration.

Demonstration and Knowledge Transfer

- Virtual machine provisioning and demonstrations
- Documentation delivery
- Training to empower customer IT teams, covering GUI, CLI, and infrastructure-as-code operations

Platform and Subscription Pricing

Li9 collaborates closely with clients to align platform recommendations with specific solution needs. Flexible provisioning of Red Hat software subscriptions, including traditional and cloud-based private offers, is available.

About Li9

Li9 Technology Solutions specializes in automation and application modernization. Recognized by Red Hat as a leading partner in digital transformation, Li9 expertly aligns technology implementations with strategic business goals across enterprises of all scales and complexities.

Expanded Enterprise Solutions

Li9 offers comprehensive services to extend your initial QuickStart implementation into a fully realized enterprise production environment, including:

- **VMware to OpenShift Migration:** Full migration services from VMware virtual machines.
- **Advanced Security Solutions:** Environment hardening with RBAC, network policies, and SIEM integration.
- **Monitoring and Logging:** Centralized monitoring and logging setup for OpenShift workloads.
- **Disaster Recovery Planning:** Strategic disaster recovery protocols to ensure operational continuity.
- **Performance Optimization:** Fine-tuning virtualization workloads for maximum resource efficiency.
- **Managed Services:** Ongoing operational support and environment management.

Next Steps

Contact Li9 Technology Solutions to schedule your consultation and discover how OpenShift Virtualization can elevate your IT infrastructure.