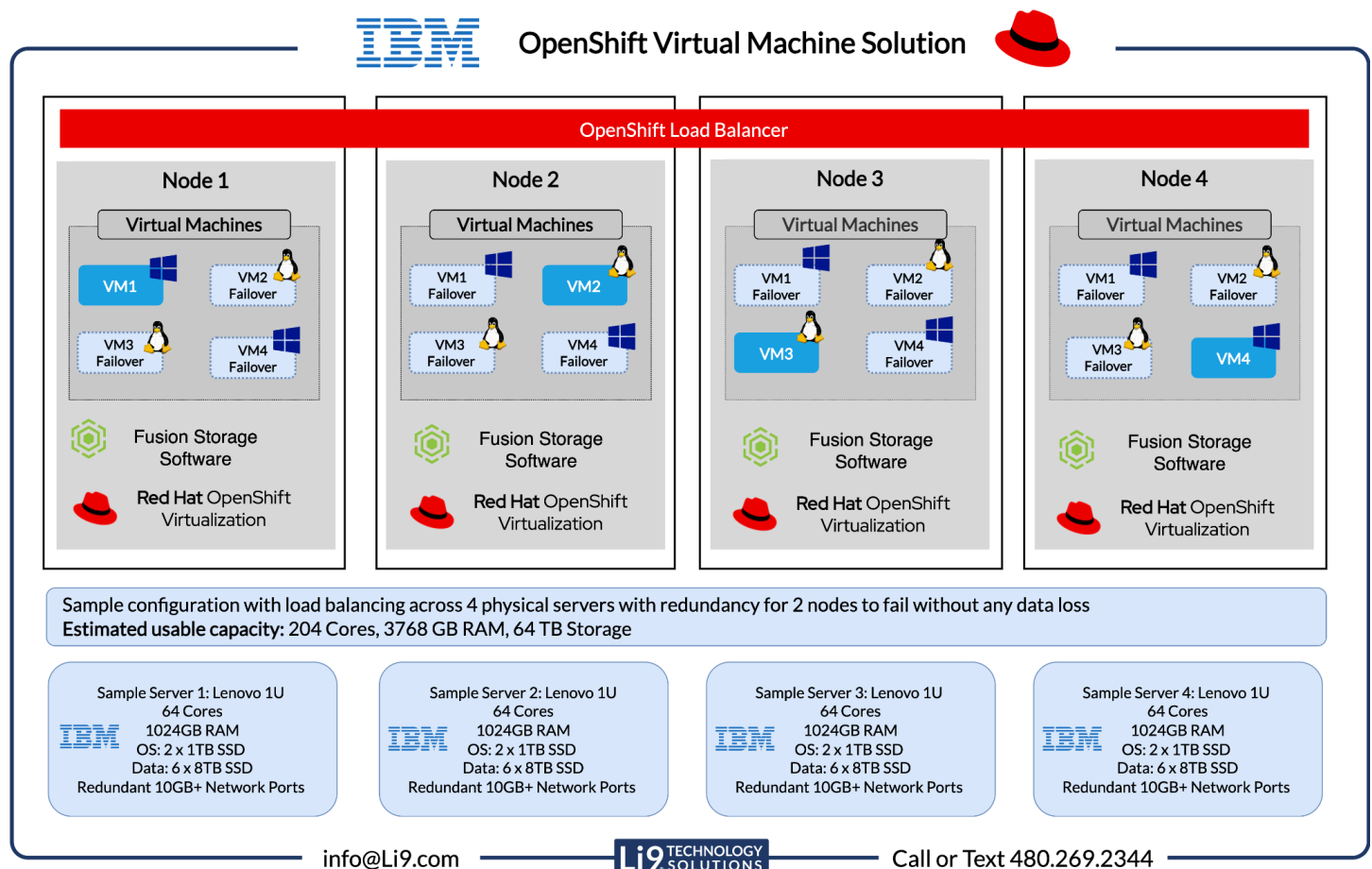


## Executive Summary

This solution integrates the **Red Hat OpenShift Virtualization with Fusion Storage Software** to deliver a robust, scalable, and highly available infrastructure for managing virtual machines.

Red Hat OpenShift is the industry-leading Kubernetes platform for automating the deployment, management, and scaling of applications across hybrid and multi-cloud environments. Our Quickstart solution takes it a step further by integrating Fusion to enhance storage and data protection capabilities. This approach enables you to fully harness the power of OpenShift while streamlining your infrastructure and optimizing costs.

## Timeline: 2-4 Weeks



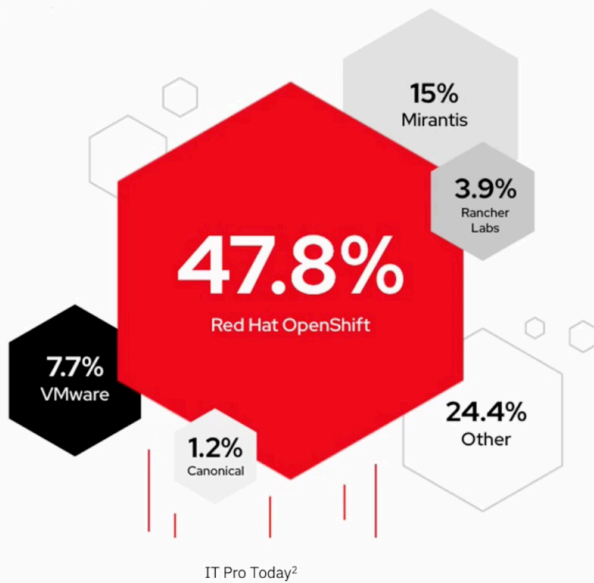
## Why Choose OpenShift as Your Core Platform?

**OpenShift** provides a comprehensive Kubernetes-based solution that empowers developers and IT teams to rapidly deliver modern applications on a single, consistent platform. It offers built-in security, scalability, and cloud-native automation tools.

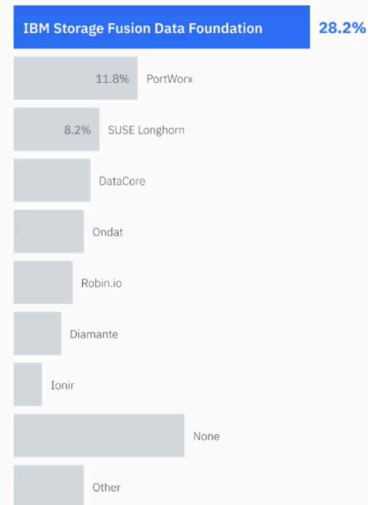
## Enhancing OpenShift with Fusion Storage Software

Recognized as the **#1 top data service for Kubernetes** by The Evaluator Group<sup>1</sup>, Fusion adds value by delivering integrated storage and data protection capabilities. By consolidating storage, backup, recovery, and management in one simple-to-use platform, this combination allows you to unify your infrastructure and replace traditional storage and backup solutions like Veeam, Data Domain, etc.

### Industry leading Kubernetes and Kubernetes data services



### #1 Data Foundation for Kubernetes<sup>1</sup>



## IBM Fusion

Delivering a multi-dimensional consistent experience

	Infrastructure supported	Provisioning modes		Persistence		Raw block RBD	File RWX	Block RWO	Object S3	Multicloud gateway
		Dynamic	Static	Zone	Multi-zone					
Fusion	Any	✓	✓	✓	✓	✓	✓	✓	✓	✓
NFS	Any	✗	✓	✗	✗	✗	✓	✗	✗	✗
EBS	AWS only	✓	✓	✓	✗	✗	✓	✓	✗	✗
vSphere Volume	VMware only	✓	✓	✗	✗	✗	✓	✓	✓ (3rd party)	✗



## Deliverables

1. **Architecture Design:** High-level design of customers' overall OpenShift environment.
2. **OpenShift Cluster:** A fully functional cluster adhering to best practices.
3. **Persistent Volumes:** CSI-compliant file, block, and object storage with remote storage acceleration, ensuring high-performance access to datasets.
4. **Security & Identity Setup:** Basic security policies and identity management.
5. **Sample Application Deployment:** Demonstration of OpenShift functionality.
6. **Documentation & Knowledge Transfer:** Overview of architecture, configuration, and operational guidance.

## Platform and Subscription Pricing

Li9 can work closely with customers to make platform recommendations based on the solution requirements and can provide any necessary Red Hat Software through traditional subscriptions or Private Offers on Cloud Platforms.

## Additional Services for a Full Production Enterprise Solution

Li9 can provide additional services to expand this solution into a full production OpenShift environment, including:

1. **Monitoring and Logging:** Centralized monitoring and logging solutions for all workloads, ensuring visibility and control.
2. **CI/CD Pipelines:** Configuration of continuous integration/continuous deployment pipelines to streamline application delivery.
3. **Managed Services:** Ongoing management of your OpenShift and Fusion environments, ensuring continuous operation and efficiency.
4. **Manage backup policies as code:** Store policies in source code repositories, manage with toolchains.
5. **Automated Backup and Disaster Recovery Policies:** Integration of policy-based backup and restore workflows, including snapshots and application-consistent backup, ensuring compliance and data protection.
6. **High Availability and Disaster Recovery (HA/DR) Implementation:** Deployment of synchronous or asynchronous replication mechanisms for data resilience.
7. **Monitoring & Logging:** Deployment of centralized monitoring for workloads and storage performance analytics.
8. **Enterprise-Wide Data Cataloging & Compliance:** Implementation of data indexing, tagging, and searchability to enable governance tracking.

## Next Steps: Start Your OpenShift Virtualization Journey

Contact Li9 Technology Solutions today! We invite you to schedule a consultation with Li9 to discuss your goals and explore how OpenShift can transform your IT operations.



**Red Hat** OpenShift  
Virtualization

Contact Li9 to schedule a consultation, demonstration or workshop. Let's get your OpenShift journey started!

[Click Here](#)

### References:

1. <https://community.ibm.com/community/user/storage/blogs/pete-brey/2023/02/24/ibm-and-red-hat-lead-the-industry-for-kubernetes-d>
2. <https://www.itprotoday.com/containerization/who-s-winning-in-the-container-software-market>