

Executive Summary

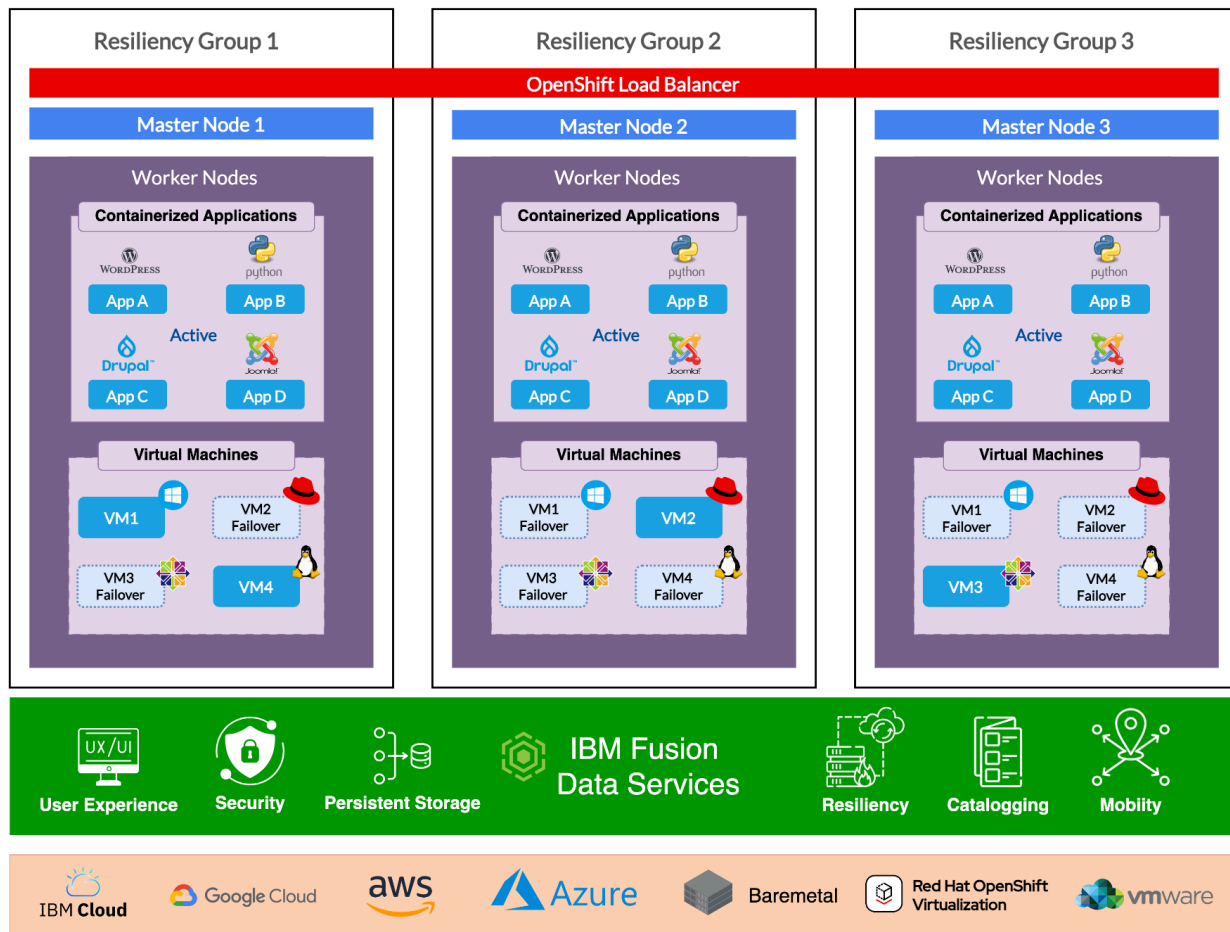
This solution integrates the **Red Hat OpenShift Container Platform (OCP)** with **IBM Fusion Data Services** to deliver a robust, scalable, and highly available infrastructure for managing both virtual machines (VMs) and containerized applications.

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 IBM 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

OpenShift Container Solution with IBM Fusion Data Services

Red Hat OpenShift Container Platform



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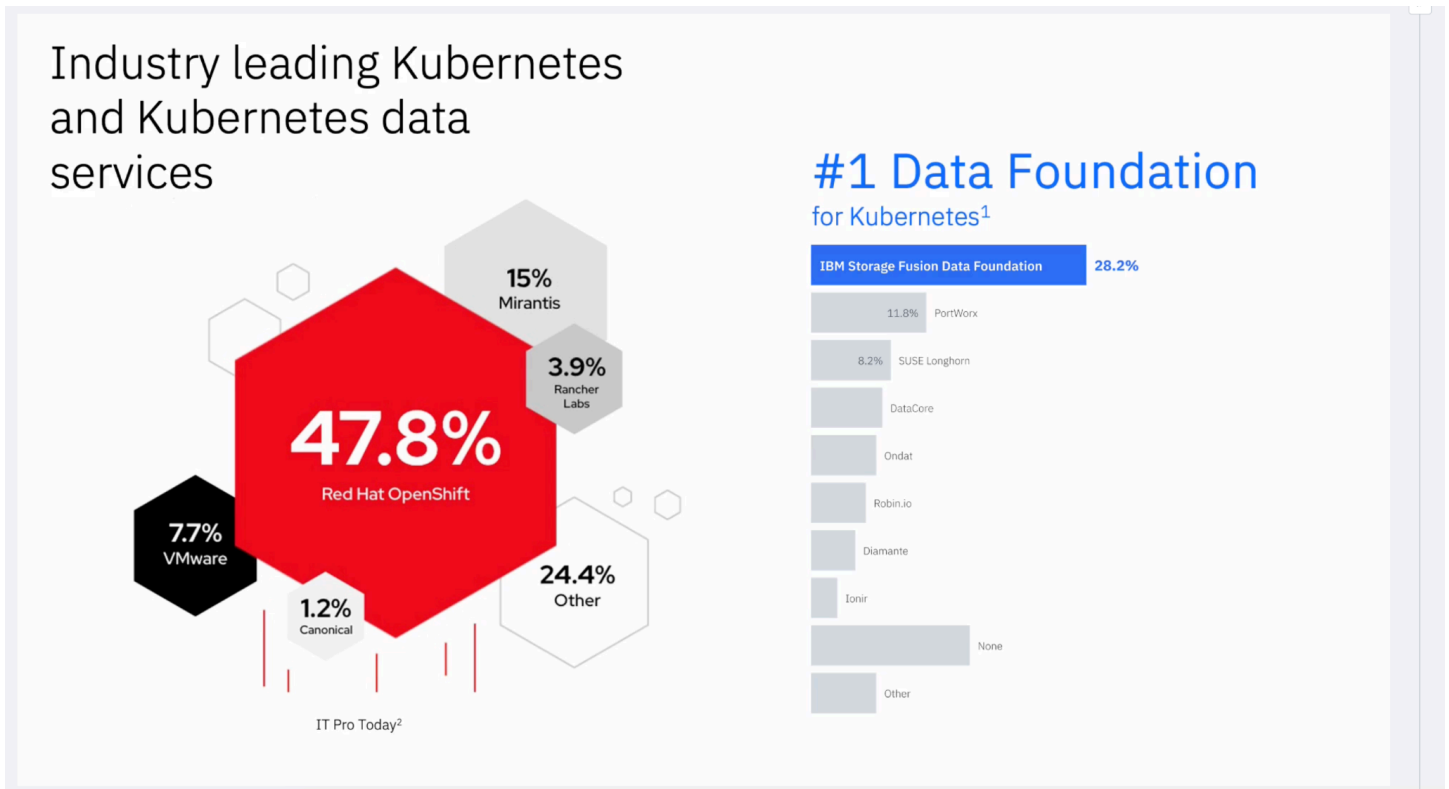
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Why Choose OpenShift as Your Core Platform?

OpenShift provides a comprehensive Kubernetes-based solution that empowers developers and IT teams to rapidly deliver modern applications while managing containerized and virtualized workloads on a single, consistent platform. It offers built-in security, scalability, and cloud-native automation tools that make it the first choice for enterprises looking to drive digital transformation.

Enhancing OpenShift with IBM Fusion Data Services

Recognized as the **#1 top data service for Kubernetes** by The Evaluator Group¹, IBM 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.



Key Value Propositions:

Accelerate Application Modernization with OpenShift

- **Streamlined Development:** Leverage OpenShift’s tools and automation to speed up cloud-native application delivery.
- **Unified Management:** Seamlessly manage workloads across on-premises, public, and multi-cloud environments.

- **Built-In Security:** Ensure robust protection with OpenShift's RBAC, network policies, and compliance features.

IBM Fusion Enhances OpenShift's Core Capabilities

- **Persistent Storage:** Add resilient storage for stateful applications with Fusion's integrated data services.
- **Automated Data Protection:** Benefit from built-in backup and disaster recovery, enhancing resilience.
- **Flexible Multi-Cloud Deployment:** Easily manage data across hybrid and multi-cloud setups.

Reduce Costs and Simplify Infrastructure

- **Lower TCO:** Eliminate the need for separate storage and backup solutions, reducing overall costs.
- **Efficient Resource Use:** Simplify management with a unified platform for storage and data protection.

Scale Confidently Across Hybrid Cloud

- **Effortless Scalability:** Expand seamlessly across cloud providers and on-premises with Kubernetes orchestration.
- **High Availability:** Achieve business continuity with integrated resilience and data protection features.

Deliverables

- **Architecture Design:** Development of a detailed architecture plan, including configuring OpenShift clusters with resiliency groups, network topology, and security settings.
- **OpenShift Platform Setup:** Installation and configuration of a Red Hat OpenShift environment tailored to your organization's needs.
- **IBM Fusion Data Services Integration:** Deployment and configuration of IBM Fusion Data Services for seamless data management across hybrid environments.
- **User and Security Integration:** Implement role-based access control (RBAC) and other security measures to protect workloads and access.
- **Documentation:** Documentation covering architecture & configuration.
- **Knowledge Transfer:** Training sessions for your teams to manage and expand the OpenShift environment.

Project Phases

1. **Discovery:** Collaborative workshop with customer stakeholders to gather requirements, assess existing infrastructure, and define the deployment scope.
2. **Design:** Development of a detailed OpenShift architecture plan, including network topology, security considerations, and storage solutions.
3. **Deployment:** Installation and configuration of the OpenShift cluster, adhering to best practices and customer-specific requirements.
4. **Integration:** Configure basic user group integration, and establish necessary security measures.
5. **Demo and Knowledge Transfer:** Deploy a sample application, and provide hands-on training, and thorough documentation to enable customer proficiency.

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.

About Li9

Li9 are experts in automation and application modernization and have proven their ability to leverage best practices combined with customer requirements to allow customers to achieve business and technology goals.

Red Hat has designated Li9 as a Red Hat Partner who is an industry expert in digital transformation. Li9 has demonstrated its ability to help envision, shape, and execute digital transformation roadmaps for customers of all sizes and complexities.

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. **Advanced Security Features:** Implementation of role-based access control (RBAC), network policies, and security integration with your existing systems.
2. **Monitoring and Logging:** Centralized monitoring and logging solutions for all workloads, ensuring visibility and control.
3. **Disaster Recovery:** Design and implementation of disaster recovery strategies with built-in backup and replication features provided by IBM Fusion.
4. **CI/CD Pipelines:** Configuration of continuous integration/continuous deployment pipelines to streamline application delivery.

5. **Performance Tuning:** Optimization of the OpenShift environment and workloads for maximum efficiency and scalability.
6. **Managed Services:** Ongoing management of your OpenShift and IBM Fusion environments, ensuring continuous operation and efficiency.
7. **Application Migration:** Assistance in migrating existing applications to OpenShift for a smoother transition to a cloud-native architecture.

Next Steps: Start Your OpenShift and Fusion 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.



OpenShift
Red Hat Container Platform

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>