IBM Fusion

Accelerate time to value by leveraging cloud-native infrastructure for your applications on virtual machines and containers on Red Hat OpenShift.

Highlights
Support multiple OpenShift clusters

OpenShift Virtualization

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Data Services

Containerization has become increasingly important for businesses operating within cloud-native frameworks. While many organizations have successfully implemented containers on traditional virtual machine infrastructures, they often face challenges related to cost, performance, and business continuity. The key challenge is to find ways to accelerate the integration of containerization and cloud-native practices while managing expenses, upholding governance standards, and ensuring uninterrupted business operations. This requires leveraging existing skill sets and finding solutions that address these concerns effectively.

An integrated application platform for OpenShift.
IBM Fusion offers a revolutionary application platform that seamlessly blends infrastructure, OpenShift on bare-metal, sophisticated data services for stateful apps, and comprehensive system lifecycle management. This meticulously engineered solution promises rapid deployment in under a week and often in a day or two, ensuring your enterprise accelerates its digital transformation journey. Simplify complexity and elevate efficiency with standardized cluster operations, all while enjoying the flexibility of high-performance bare-metal clusters and the versatility of virtualized environments for your development, testing, and production needs.

Figure 1. Fusion HCI

Benefits of IBM Fusion

Multiple OpenShift Clusters
IBM Fusion empowers you to effortlessly create multiple OpenShift clusters within a single Fusion HCI. Customize each cluster to match your specific workload needs, optimizing CPU and storage for reduced overall cluster costs. With Fusion, you gain a unified view and seamless control of clusters, ensuring consistent deployment, monitoring, and secure application management across your entire infrastructure. In addition, you can provision a cluster in as little as 30 minutes, streamlining your operations and accelerating your productivity.

OpenShift Virtualization
Fusion empowers users to harness the advantages of containerization by seamlessly integrating Windows and Linux VMs. This integration ensures data resilience and performance within virtualized infrastructures. It enables organizations to optimize their application deployment processes and efficiently manage their data in a hybrid cloud environment.

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Discover the power of IBM Fusion for accelerating AI workloads with watsonx and infrastructure modernization with Red Hat OpenShift. IBM Fusion is an integrated application platform for OpenShift that delivers everything you need to deploy and operate watsonx in mission critical applications. OpenShift is seamlessly integrated in a high-performance hyper-converged solution along with data resiliency so that applications are hardened against disasters and data is protected. Fusion software makes operations and maintenance easy with automated patch and update management. With watsonx.data relying on Red Hat OpenShift, IBM Fusion provides a comprehensive solution to meet your data requirements and drive innovation in your organization.

Data Services
IBM Fusion simplifies data availability and resilience across your organization. It delivers fundamental components to protect against hardware failures, accidents, and cyber threats, ensuring that your data is always available and accurate. With advanced disaster recovery features, IBM Fusion ensures that your organization can continue operations, even in the face of a major disaster. This hybrid cloud platform supports public cloud, private cloud, on-premises, off-premises, and edge deployments, enabling seamless data mobility and flexibility. Additionally, Fusion enables organizations to identify and catalog their data for easier discovery, empowering businesses to respond quickly to trends and maintain a competitive advantage

Conclusion
Fusion is the integrated application platform for OpenShift that offers quick deployment of a complete application platform, supporting containers and virtual machines with high-quality application-centric data services. It provides a redundant and resilient hardware architecture, dedicated storage network, redundant data paths, and day-2 operations services, all supported by IBM. With multi-cluster support, Fusion allows tailored clusters, resulting in reduced overall cost per cluster and enabling unified view and control of clusters. Fusion also empowers users to seamlessly integrate Windows and Linux VMs, optimizing application deployment processes and efficiently managing data in a hybrid cloud environment. With advanced disaster recovery features and support for various cloud deployments, IBM Storage Fusion ensures data resilience and availability, empowering businesses to maintain a competitive advantage.

To learn more about IBM Fusion, contact your IBM representative or IBM Business Partner, or visit IBM Fusion.

IBM Fusion Solution brief