

# IBM Fusion

IBM Fusion is an application data platform that automates AI, virtual machines, and containers, empowering organizations to simplify and modernize their systems.



## Highlights

Modernize at your own pace

Unify applications and data needs faster

Reduce operational complexity and increase agility

Managed Data Services

In today's digital landscape, organizations are challenged to deploy and manage IT architectures that effectively integrate AI capabilities, virtual machines, and containerized workloads, all while maintaining robust self-service delivery.

This transformation is particularly demanding as IT teams struggle with limited expertise in modern architectures and insufficient resources to effectively manage increasingly complex hybrid environments.

IBM Fusion is available as software and as Hyper-Converged Infrastructure (HCI).

- IBM Fusion software enables deployment across diverse platforms including x86, IBM Power, or IBM Z systems, giving organizations the autonomy to maximize their current hardware investments. This flexibility extends to both public and private cloud environments, allowing organizations to implement a true hybrid cloud strategy.
- IBM Fusion HCI (Hyper-Converged Infrastructure) is a turnkey solution that combines virtualization, compute, storage, and networking into a unified platform. It serves as the foundation for deploying and managing both traditional workloads and AI-driven applications, with native support for various AI accelerators including AMD Mi210, NVIDIA L40S, and NVIDIA H100 NVL.

Fusion enables businesses to modernize at their own pace while following enterprise architecture best practices. Fusion's pre-integrated services, tested applications, and customizable blueprints significantly reduce operational complexity and bridge skill gaps, allowing IT teams to focus on strategic initiatives rather than managing infrastructure.

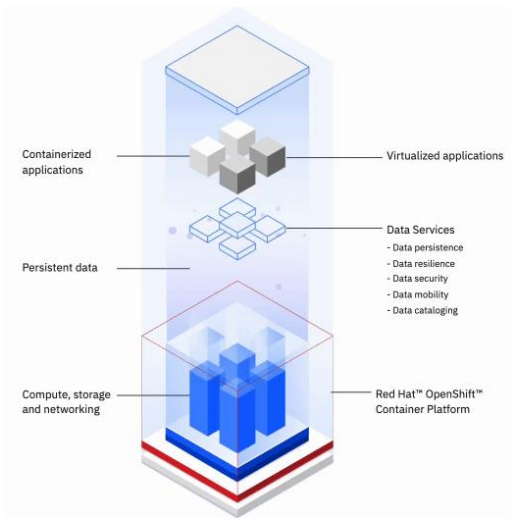


Figure 1. Fusion HCI

## Features

### Fusion Control Tower

IBM Fusion Control Tower revolutionizes enterprise application management through comprehensive self-service capabilities. The platform provides technical teams, from developers to data scientists, with autonomous control of their development environment. Its intelligent automation controls the full lifecycle of containerized applications, virtual machines, and AI solutions, de-provisioning unused resources automatically, without the need for manual cleanup. The end-to-end automation enhances operational efficiency and resource usage, which is key for modern enterprise development.

### Fusion Access

IBM Fusion Access offers enterprise storage integration capabilities that enable organizations to leverage their existing fiber channel and iSCSI storage infrastructure with ease. This platform enables enterprises to maintain their current storage design and operational model while transitioning away from virtual machine environments, effectively saving infrastructure investments and personnel expertise.

### Fusion Resilience

IBM Fusion Resilience offers an integrated solution set that is designed to enhance data resilience for AI workloads, virtual machines, and containers. It features embedded time-based snapshots, which cater to precise data recovery points, and provides seamless backup and recovery functionality optimized for both container and virtualized environments. The disaster recovery feature of the platform is robust, with regional DR solutions optimized for cost-effective protection over long distances to ensure business continuity and control total cost of ownership (TCO). Fusion Resilience also includes metro DR solutions delivering lowest possible Recovery Time Objectives (RTO) and Recovery Point Objectives (RPO) to offer rapid recovery and minimum data loss for mission-critical workloads.



IBM Fusion HCI

## Benefits of IBM Fusion

### **Modernize at your own pace**

Competitive solutions only deliver parts of the solution, IBM Fusion is a comprehensive unified platform that supports for VM's, containers and AI workloads as equal first-class citizens, enabling businesses to modernize at their own pace with one unified platform.

### **Unify applications and data with OpenShift**

IBM Fusion provides a clear path to modernization through the industry's deepest OpenShift integration. Fusion unifies application and data needs while seamlessly bridging legacy and future infrastructure. Experience complete self-service deployment of virtualized, containerized, and AI workloads—all at the pace of business.

### **Reduce operational complexity and increase agility**

Unlike the competition this platform elevates beyond self-service with intelligent orchestration that streamlines resource provisioning and decommissioning. Automated over-the-air updates eliminate the complexity of maintaining applications, platform, and infrastructure—ensuring everything stays current.

### **Streamline 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. Fusion enables organizations to identify and catalog their data for easier discovery, empowering businesses to respond quickly to trends and maintain a competitive advantage

## Use Cases

### **Virtual Machine modernization**

Fusion provides a powerful and cost-effective solution for running virtual machines (VMs) and containers on a unified cloud-native hyperconverged platform. This integration allows organizations to simplify operations and has been known to reduce total cost of ownership by up to 83% and gradually modernize infrastructure while maintaining legacy applications. With Fusion, enterprises can lift and shift existing workloads, run them alongside containerized applications, and manage everything from a single interface. IBM Fusion Access further enhances this environment by enabling seamless SAN integration, enterprise-grade performance, and a datastore-equivalent experience, making it an ideal solution for organizations transitioning from traditional Virtual Machine environments to a modern, scalable, and resilient hybrid cloud infrastructure.

### **IBM Fusion HCI and watsonx Revolutionize Enterprise AI**

IBM Fusion HCI and watsonx create a powerful ecosystem for enterprise AI transformation, delivering secure on-premises AI capabilities with unprecedented efficiency. This integrated solution accelerates watsonx deployment from weeks to days. Organizations can confidently scale their AI initiatives with flexible GPU integration, automated management, and ironclad data control, maintaining complete infrastructure control and data sovereignty. Enhancing this robust foundation, IBM's Content-Aware Storage (CAS) technology adds another dimension of intelligence through data vectorization and seamless RAG integration, enabling automated extraction of insights from unstructured data through NVIDIA GPU acceleration, while providing universal enterprise data searchability and faster time-to-insights for GenAI inferencing—making it a truly comprehensive platform for modern enterprise AI needs.

### **Application Modernization**

IBM Fusion transforms application modernization by providing a unified, intelligent platform that enables enterprises to seamlessly evolve legacy systems into cloud-native solutions across hybrid cloud environments. By tightly integrating data and infrastructure, IBM Fusion streamlines modernization efforts, significantly reducing complexity, costs, and operational overhead. Its deep integration with Red Hat OpenShift empowers modern DevOps practices—such as CI/CD and microservices—while built-in automation and observability optimize workflows, enhance resource utilization, and deliver predictive insights that reduce downtime. With the ability to rapidly deploy highly available OpenShift container platforms on bare metal in just hours, Fusion accelerates time to value. Unlike traditional approaches, IBM Fusion supports both legacy and modern workloads, allowing organizations to modernize incrementally without disruptive re-architecture. This flexible, cost-effective approach mitigates risk, reduces technical debt, and ensures consistency across environments—making IBM Fusion a strategic foundation for digital transformation, AI readiness, and long-term enterprise agility.

To learn more about IBM Fusion, contact your IBM representative or IBM Business Partner, or visit [IBM Fusion](#).

© Copyright IBM Corporation 2025  
IBM Corporation  
New Orchard Road  
Armonk, NY 10504

Produced in the  
United States of America  
March, 2025

IBM, the IBM logo, and [IBM Trademarks List](#) are trademarks or registered trademarks of International Business Machines Corporation, in the United States and/or other countries. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on [ibm.com/trademark](http://ibm.com/trademark).

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

