

IBM FlashSystem

Efficient, policy-based data resilience
for all your storage needs

Highlights

Simplifies data replication
services for businesses
of all sizes

Provides resilient
data protection and
threat detection

Offers quick data
recovery for backup
and security platforms

Enables data mobility
and compliance
business requirements

Provides AI-powered
observability
and advisories

Today, businesses of all sizes are challenged to do more with less and adhere to high-performance standards that meet critical business needs and comply with regulations. Properly building your enterprise data storage infrastructure is critical today and into the future. However, data storage complexities and nuances often complicate the storage landscape.

IBM FlashSystem® provides mission-critical performance through advanced data resiliency capabilities that help simplify your IT operations—whether protecting against, detecting or recovering from any data-loss risks and threats. Designed to provide resilient data storage in the event of failure scenarios—especially cyberattacks—IBM FlashSystem offers AI and machine learning (ML) capabilities to detect threats early and recover fast. Easily deploy and manage the solution with enterprise data replication services, 2-site high availability that enables active-active configurations, including the new 3-site data replication feature. Together, these provide a comprehensive data resilience offering that can support the data resilience needs of all businesses.



IBM FlashSystem 9500



IBM FlashSystem 7300

The data resiliency capabilities of IBM FlashSystem include 2-site replication, active-active high availability, 3-site replication, immutable safeguarded copies and ransomware threat-detection options. These capabilities help your business maintain operations in the event of a cyberattack, system failure or natural disaster and are designed to be simple yet impactful. Built-in policies automatically deploy high availability (HA) and disaster recovery (DR). Policy-based HA provides a zero recovery point objective (RPO) solution for two storage systems with synchronous replication across metro-area distances and active-active access for servers at both sites with seamless failover for zero recovery time objective (RTO). Additionally, 3-site replication increases the data resilience capabilities of IBM FlashSystem for the most critical business workloads.

IBM FlashSystem provides several critical operational resilience benefits.



Simplified data replication services for business of all sizes

Get easy-to-configure policy-based replication that supports a full offering of data replication services: 2-site replication, 2-site high availability and 3-site replication. Replicate data across locations, enabling delivery of RPO and RTO based on the needs of your storage architecture. With 2-site HA, both sites can be active at the same time, ensuring no loss of application availability even when one site goes down. And with 3-site replication, even higher service levels can be delivered when 2-site HA is connected to a third DR site.



Resilient data protection and threat detection

By providing integrated AI and ML ransomware threat detection combined with immutable, safeguarded copies of your data, IBM FlashSystem protects stored data from cyberattacks. This combination of capabilities allows you to recover immutable copies of protected data within 60 seconds.¹ IBM® FlashCore® modules have industry-leading capabilities that scan every I/O for threats, with no impact to system performance.¹



Quick data recovery for backup and security platforms

Integrate our storage offering with your IT infrastructure security and backup platforms to quickly isolate and recover clean copies in case of a failure. Rapid recovery is always critical in today's world. As data breaches and cyberattacks continue to rise, integration across IT silos that results in better visibility and response is more critical to your organization than ever.



Data mobility and compliance business requirements

Simplify data mobility while leveraging IBM FlashSystem policy-based replication, and move data volumes or partitions across your environment with IBM's flash grid. The flash grid helps simplify moving data partitions within your storage environment, optimize workload placement and support efforts aimed at meeting regulatory and business compliance standards.



Provides AI-powered observability and advisories

Quickly understand the resiliency posture of your IBM FlashSystem portfolio with IBM Storage Insights, which uses simple dashboards to provide at-a-glance status of workload protection, ransomware anomalies, performance deviations and more. AI-driven advice on workload placement and capacity planning obtained through Storage Insights makes it simple to help ensure that you meet performance and uptime SLAs and fully optimize your IT assets.

IBM FlashSystem drives better operational resilience when it comes to your organization's primary data storage. It provides for a wide variety of enterprise workloads, including block storage, analytics, IT modernization, application consolidation, virtualization and data protection. With ransomware threat detection that scans all incoming I/O to identify anomalies that might indicate the start of a cyberattack, IBM FlashSystem provides a security-based line of defense when writing data on drives. This data resiliency innovation enables IBM FlashSystem to protect, detect and respond, while helping ensure rapid recovery of critical business data.

IBM offers a broad portfolio of hardware, software and services to help organizations cost-effectively address their IT infrastructure needs. These include robust data storage solutions to enable always-on, trustworthy storage and help expedite recovery from disasters. Because business needs shift, IBM solutions emphasize interoperability and the integration of new use cases or approaches, from analytics to multisite backup to near-instant recovery.

For more information

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1. Internal experimentation by IBM Research® has demonstrated detection of ransomware within 1 minute of the ransomware starting its encryption process. This experiment was done on an IBM FlashSystem 5200 with 6 IBM FlashCore Modules with the 4.1 firmware load. The 5200 had 8.6.3 GA-level software loaded. The host connected to the 5200 was running Linux® with the XFS file system. In this particular case, the IBM ransomware simulator called WannaLaugh was used. Underlying system must be compatible with IBM FlashCore Module 4.1 and version 8.6.3 GA-level software loaded in order to receive results obtained.

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IBM Corporation
New Orchard Road
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Produced in the
United States of America
August 2024

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