

IBM FlashSystem

Designed to Protect, Engineered to Adapt,
Built to Perform.



Highlights

Enhance operational resilience with rapid detection and reliable recovery

Adapt intelligently with FlashSystem.ai and predictive operations

Scale non-disruptively across environments with FlashSystem grid

Deliver sustained performance, density, and efficiency for modern workloads

Enterprises continue to confront complex cyber risks, rapidly changing workload demands, and persistent skills shortages—all of which place new pressure on storage infrastructure. The latest research shows global data breach costs now average **USD 4.44 million**, with attackers increasingly using AI to scale and sharpen their methods.¹ At the same time, prolonged breach lifecycles remain costly: events that take more than 200 days to identify and contain average **USD 5.01 million**, compared with significantly lower costs for faster-resolved incidents.¹ With data spread across on-premises, hybrid, and multi-cloud environments, organizations need storage that protects proactively, adapts intelligently, and performs consistently.

IBM FlashSystem® brings together intelligent cyber-resilience, adaptive operations, and sustained performance in a cohesive all flash array storage solution designed for modern enterprise demands. It uses drive-level telemetry to identify anomalous, ransomware-like behavior in **under 60 seconds**, helping organizations reduce the likelihood of widespread corruption and the rising costs associated with prolonged breach detection.² When recovery is required, FlashSystem supports isolated, immutable recovery points and orchestrated response that shortens the time to identify and contain disruptive events—key factors shown to dramatically lower breach costs.³ At the same time, **FlashSystem.ai** is capable of understanding your business intent, amplifies the expertise of your Storage Operations team, and is capable of dynamically adjusting to shifting workload demands, enabling teams to respond faster, manage storage more efficiently, and maintain predictable performance as business needs evolve.

53%

Customer PII was compromised in 53% of breaches, underscoring the need for early anomaly detection.

USD 5M

Breaches taking over 200 days to contain cost USD 5.01M on average—making fast recovery essential.

Enhance operational resilience with rapid detection and reliable recovery

IBM FlashSystem uses hardware-assisted, drive-level analysis to detect early indicators of ransomware and data corruption. This sub-minute detection window helps organizations respond before attackers elevate their impact, especially as hostile use of AI grows—now present in 16% of breaches, often through highly convincing AI-generated phishing or deepfake attacks.⁵ Faster identification limits exposure and helps curb escalating costs tied to extended breach durations.¹

In the event of corruption or compromise, FlashSystem's immutable and logically isolated recovery points help ensure clean, trustworthy data states that can be restored with confidence. This aligns with findings that faster containment and recovery—as enabled by strong automation and clear recovery workflows—directly contributes to lower breach costs, with extensive AI-enabled security reducing average costs by USD 1.9 million compared to organizations not using AI.¹ FlashSystem is designed to accelerate these processes to help maintain business continuity.

Optimize operations with predictive intelligence and efficient management

As workloads grow more diverse and distributed, FlashSystem.ai helps operations teams adapt without adding complexity. FlashSystem.ai interprets operator intent, provides contextual recommendations, and automates routine tasks to help teams do more with less—a critical need given that **48% of organizations report high levels of security skills shortages**. By amplifying human expertise, FlashSystem.ai helps teams respond quickly to change, manage risk proactively, and maintain service consistency.

IBM FlashSystem integrates intelligence throughout the environment to anticipate performance needs, identify resource constraints, and streamline administrative workflows. This proactive posture aligns with data showing that organizations using AI and automation throughout the lifecycle shorten threat detection and containment by **80 days**, significantly reducing downstream cost and operational disruption.¹ FlashSystem helps ensure that teams spend less time reacting and more time optimizing.

Enterprise-class high-density flash storage that drives efficiency and delivers consistent performance. IBM FlashSystem can help you consolidate workloads, cut energy use, and keep mission-critical applications running smoothly.



Figure 1. IBM FlashSystem 9600 delivers up to 3.37Pb raw capacity in a 2U enclosure using our 5th generation FlashCore Module.

Scale with confidence. Perform without compromise.

Scale non-disruptively across environments with FlashSystem grid

FlashSystem grid unifies management across as many as **32 systems**, enabling teams to balance performance, shift workloads and adjust capacity without disrupting applications. Its use of independent storage partitions and non-disruptive mobility helps organizations adapt quickly as workloads evolve—an important advantage given that data spread across multiple environments is associated with longer and more complex breach containment cycles.

FlashSystem grid also supports flexible modernization, allowing hardware generations and configurations to coexist while maintaining distinct update and failure domains. This minimizes risk during upgrades and helps ensure consistent availability as environments grow or change. Together, these capabilities give enterprises a resilient, adaptable foundation for long-term operational evolution.

Deliver sustained performance, density, and efficiency for modern workloads

FlashSystem is engineered to provide consistent performance for latency-sensitive, analytics-heavy and AI-assisted workloads, all while reducing footprint and power consumption. High-density flash configurations, such as those delivering **1.1 PB raw in just 2U** with significantly lower energy use, allow organizations to consolidate storage, lower operational cost and support the increasing scale of data-driven applications. Sustainably engineered flash with enhanced endurance—supporting **5.5× more write cycles** than typical QLC flash—helps ensure predictable performance across a wide range of workloads.



IBM FlashSystem: AI-Driven Dynamic Storage.

Conclusion

IBM FlashSystem helps organizations protect critical data, adapt with speed and confidence, and sustain the performance needed to keep business moving forward. With sub-minute anomaly detection, dependable recovery options, intelligent workload adaptation and efficient flash designs, FlashSystem strengthens resilience while simplifying daily operations. As enterprises face increasing data volume, evolving workloads and rising security pressure, FlashSystem provides a unified way to reduce risk, stay agile and deliver consistent service quality across the environments they depend on.

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Why IBM

IBM brings decades of innovation in storage engineering, data resilience and intelligent operations, supported by global research, deep industry expertise and proven leadership in AI-driven security. With a broad ecosystem of partners, IBM provides the experience, scale and trusted guidance needed to help enterprises deliver modern solutions with confidence and achieve long-term resilience in an increasingly complex digital world.

For more information

To learn more about IBM FlashSystem, contact your IBM representative or IBM Business Partner, or visit ibm.com/products/flashsystem.

1. *Cost of a Data Breach Report 2025*, IBM & Ponemon Institute.
2. *IBM FlashCore Module (FCM) Release Notes*, IBM, 2024.
3. *IBM FlashSystem Safeguarded Copy Implementation Guide*, IBM Redbooks, 2024.

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