# IBM Storage Defender

## Simplify data resilience for enterprise data storage

**Highlights**

Early detection of internal and external threats

Accelerate business operations recovery

Integration with your existing SecOps tools and processes

Resource Units simplify purchasing and licensing management

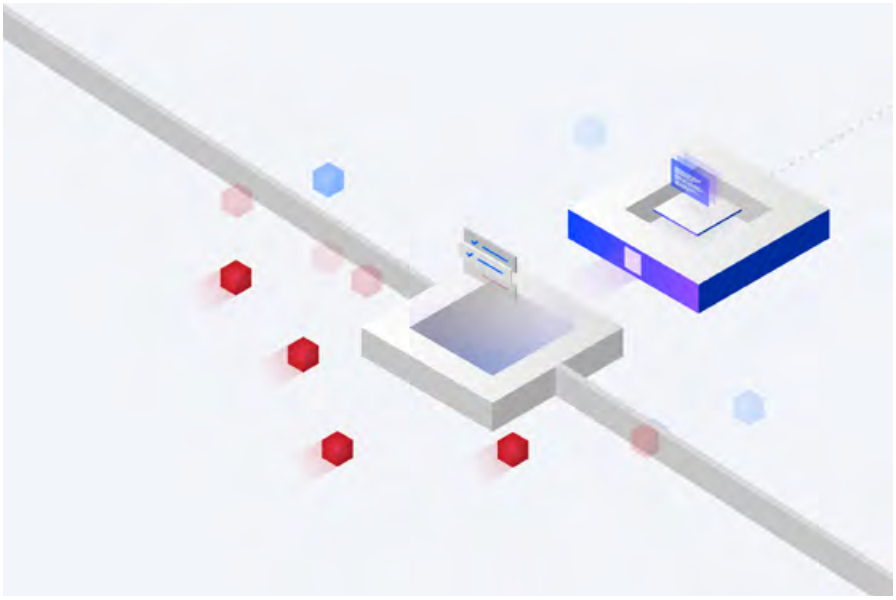
Business leaders today are faced with a multitude of potential threats to their organization's data. Incidents of enterprise data loss can be due to hardware failure, user error or sabotage by a malicious insider. Meanwhile, ransomware, data exfiltration and other destructive attacks continue to proliferate, increasing the risk of data loss to the business. All these threats can result in potential data loss that can lead to business disruption and damage to your organization's brand and customer relationships.

As noted in the 2022 edition of the IBM Cost of a Data Breach report, 83% of organizations that took part in the study have had more than one data breach. So, for most every organization, it's not a question of "if" but "when" you'll be faced with the consequences of a data breach. As the report goes on to note, on average it took more than nine months for affected organizations to identify and contain a data breach.

IBM® Storage Defender is an application that helps reduce these data loss risks to your organization with powerful capabilities that can identify, protect, detect, respond and recover data across your hybrid cloud storage infrastructure. The application also provides a simple, consolidated view of data protection and cyber resilience status with integration into your security dashboards.

IBM Storage Defender can make life much simpler for executives and teams charged with preventing disruption to business operations. It combines the performance and capabilities of both primary and backup data storage, incorporating many of the features that have made IBM data protection products so successful. IBM Storage Defender also introduces advanced capabilities such as accelerated threat detection and safe recovery to enhance the resilience of your data. Clean-room isolation, anomaly and malware detection, immutable backups, and recovery orchestration can accelerate recovery of business-critical data in hours instead of days.

IBM Storage Defender delivers its capabilities through an integrated SaaS-based management platform that is optimized for personas based on their specific roles across storage, backup and SecOps.



**Early detection of internal and external threats**
IBM Storage Defender is designed to leverage sensors across primary and secondary workloads to detect threats and anomalies from backup metadata, array snapshots and other relevant threat indicators. Signals from all available sensors are aggregated by IBM Storage Defender, whether signals originate from hardware (FCM) or software (file system or backup based detection). This proactive capability helps you detect and address an array of threats before they can impact your data. It now also includes an AI powered Trust Index that provides you with a score to indicate the relative trustworthiness of your copies by combining signals from existing solutions and new detection methodologies developed by IBM Research unique to Storage Defender.

Consider one way this could improve your operational resilience. IBM Storage Defender can detect anomalies in an SAP HANA database as data is written to primary or secondary storage, then leverage that knowledge when creating copies of the data to ensure that the data being copied is not compromised.

**Accelerate business operations recovery**
While IBM Storage Defender seeks to eliminate the threats to your data, there are a myriad of ways your data could still be impacted, such as through user or administrator error. Your primary concern is how fast you can recover that data to keep your business running smoothly without disruption. IBM Storage Defender includes copy data management tools to manage and orchestrate application integrated copies of data. It makes copies available when and where users need them for almost instant data recovery, or for data reuse, by cataloging and managing copy data across hybrid cloud infrastructures. Additional automation has been built in to the latest release of IBM Storage Defender that further accelerates safe recovery of your mission critical workloads.

Consider another scenario that further illustrates how IBM Storage Defender can improve your operational resilience. An anomaly in your data can be detected by examining the changes in your databases like Oracle or SAP HANA. This action triggers an IBM Storage Defender alert that can then be used to initiate a recovery from the latest clean, immutable hardware snapshot. This information can be used to recover safely because IBM Storage Defender knows which copy is the latest clean copy based on its awareness of the anomalies it has detected. Additionally, by using on-premises and cloud clean rooms, IBM Storage Defender can provide a place to conduct safe additional validation of the data before restoring it to production.

**Integration with your existing SecOps tools and processes**
IBM Storage Defender can integrate security tools like SIEM and SOAR security solutions that are likely already in use in your organization. This integration allows you to build a bidirectional alert and response system between your SecOps and storage teams to establish a set of processes that can reduce the complexity and cost of managing data storage systems.

An example of how this could work in practice is allowing IBM Storage Defender to use its bidirectional integration with your SIEM solution to automatically examine user activity and audit logs for suspicious activity, then issue alerts. This integration helps your SOC team respond to the threat and the storage team to begin recovery if needed.

**Resource Units simplify purchasing and licensing management**
IBM Storage Defender introduces the concept of “Resource Units” or RUs, that lets you purchase and allocate only the specific data resilience capabilities that meet your needs. This simplified software acquisition and licensing approach makes it easier to manage what previously might have been an array of software capabilities spread over several licensable software solutions.

**Conclusion**
IBM Storage Defender provides multiple layers of data resilience, including data protection, data immutability and data isolation. It enables early detection of threats including risk from ransomware, disasters, sabotage, accidental deletion and other sources of disruption. It also provides rapid recovery across your hybrid cloud storage infrastructure, while providing a simple, consolidated view of data protection and cyber resilience status with integration into security dashboards. Using Resource Units to deliver capabilities, you can streamline your software acquisition and license management by purchasing a single license that provides only the data resilience resources you need.

**Why IBM?**
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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Produced in the
United States of America
October 2023