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STRENGTHENING DB2 DATA SECURITY

Securing your mission critical workloads, together.

As organisations embrace hybrid cloud strategies, AI-driven innovation, and large-scale digital transformation, the need to secure confidential assets - financial data, intellectual property, and personal information - has become a top priority.

Enterprises worldwide rely on IBM Db2 to manage complex workloads while safeguarding critical data and ensuring strict compliance with regulatory and privacy standards. Db2 is engineered with powerful, built-in security features that protect against unauthorised access, shield sensitive data from exposure, and provide the audit trails necessary to meet compliance requirements. Still, evolving risks such as insider threats, costing businesses an average of \$5 million per incident, and the rising theft of valid credentials, which increased 71% year-over-year, demand an even stronger defence strategy.

That's where IBM Guardium Data Protection delivers additional value.

Designed to work seamlessly with Db2, Guardium adds advanced visibility, automation, and proactive security intelligence. Together, they form a layered defense to protect sensitive data against modern threats.





3 Key Benefits of Guardium for Db2

- **Privileged user monitoring:** Extend Db2's access controls with real-time detection of abnormal activity, helping identify insider misuse or compromised credentials.
- **Automated compliance readiness:** Accelerate audit preparation with preconfigured templates for GDPR, CCPA, SOX, HIPAA, and more, reducing compliance complexity.
- **Proactive risk assessment:** Performs automated scans to spot vulnerabilities like missing patches or misconfigured permissions, with remediation guidance to further secure Db2.



Why Db2? 5 Market-leading Strengths

- **Workload versatility:** A unified engine for transactional, analytical, and mixed workloads, supporting modern data formats like Iceberg, Parquet, JSON, AVRO, ORC, and CSV.
- **AI-optimised performance:** Industry-first AI-powered optimiser boosts query efficiency by up to 3x, enabling next-generation AI applications.
- **Efficiency at scale:** Intelligent management reduces admin overhead, lowers operational costs, and maximises developer productivity.
- **Resilient operations:** High availability and disaster recovery, including Db2 pureScale, deliver industry-best 99.999% uptime.
- **Cloud-ready deployment:** Flexible across on-premises, cloud, or fully managed services—ensuring agility, portability, and cost-effectiveness.

Guardium + Db2 = Best-in-Class Security

Integrating Guardium with Db2 creates a best-in-class approach to data security and compliance by offering:

- **Accelerated audits:** Pre-built workflows and long-term retention simplify compliance.
- **Centralised oversight:** Unified policy management across hybrid and multi-cloud environments.
- **Real-time threat detection:** Continuous monitoring of sensitive data access and privileged activity.
- **Scalable efficiency:** Flexible deployments to fit business needs while reducing overhead.
- **Seamless integration:** Purpose-built Guardium module for Db2 provides unmatched visibility into both encrypted and non-encrypted data.

