

## IBM Data Security Services for activity compliance monitoring and reporting— database vulnerability management



---

### Highlights

---

- **Locate, remediate and report on database security issues to reduce the risk of a security exposure and protect your corporate brand and reputation**
- **Bolster compliance posture and help reduce costs resulting from non-compliance by creating a repeatable and demonstrable security framework**
- **Leverage market-leading database vulnerability technologies, services expertise and proven methodologies to deploy and manage an integrated security solution**
- **Benefit from lower total cost of ownership, accelerated deployment and simplified management through an extensible platform and scalable solutions**

### Curbing the high cost of data loss

Individual databases are an integral part of any enterprise, necessary to manage and economically store information. Data centers contain your company's most valuable information, including financial transactions, critical intellectual property and sensitive personal information—information that if unprotected could result in huge costs, both direct and indirect, to your business. With the costs of losing sensitive information higher than ever, a focus on database security is required.

Effective database security cannot be achieved by simply increasing your database administrators' workloads. Already overburdened database administrators are consumed with the day-to-day responsibility of supporting your business-critical operations, and as a result, security may be overlooked. IBM recognizes the critical nature of your databases and can help your organization balance daily database operations with effective database security. As a result, your brand is protected, and your employees can focus on their core job responsibilities.

## **Fusing compliance requirements with database vulnerability management**

Compliance, a key benchmark by which corporate security frameworks are measured, requires organizations to employ database safeguards. In fact, more than 90 percent of databases contain information affected by compliance regulations. A comprehensive data security solution helps reduce the likelihood that your organization will be subject to financial or organizational penalties for regulatory non-compliance.

The risks associated with compliance are not theoretical. Over the past two years, data breaches have resulted in more than 200 million records containing personal information being compromised. These records represent the crown jewels of an organization where personal information and critical business data reside. To secure this data, IBM offers a database vulnerability management solution that helps you discover database applications within your infrastructure and assess their security strength, keeping you on top of your database security initiatives within the parameters of your compliance and audit requirements.

## **Supporting collaboration and compliance while securing your data**

Organizations must protect data throughout its lifecycle—while in use, in motion and at rest. Sharing and portability increase the value contribution of an organization's

most valuable assets, yet information at rest is also a target for security infractions. Therefore, effective organizations promote a collaborative business model that ensures data is protected at each point in the information lifecycle. Increasingly, database security is required for regulatory compliance and to compete in today's market. As part of a focus on security throughout the information lifecycle, IBM's database vulnerability management solution ensures that you can collaborate while mitigating risk.

IBM implements database vulnerability management solutions with your needs in mind to:

- *Establish an enterprise database vulnerability framework for your organization.*
- *Deploy market-leading technology using a proven implementation methodology.*
- *Translate and enforce corporate data management policies.*
- *Provide discovery, audit and reporting capabilities in support of your database security posture.*
- *Define and deliver reliable management and support services.*

IBM Data Security Services addresses the challenges associated with deploying a comprehensive solution by managing cost and scope, accelerating implementation, leveraging IBM's information security expertise and eliminating the need for additional headcount.

## **Improving the operational and management efficiencies that drive your database security**

Today, administrators that manage database security are scattered across organizations. Database security often ends up without centralized management, focus or direction. Additionally, most database security requires manual effort, skilled resources and valuable time to be effective. With the IBM database vulnerability management solution, skilled database administrators can leverage centralized database security management, allowing them to focus on the critical activities required to keep the business running. The IBM solution provides operational and management efficiencies as well as consistent data security methodologies that can scale to meet unique company needs as they emerge and evolve.

IBM delivers a comprehensive database vulnerability management solution that includes key enterprise-class features:

- *Agent-less architecture to support distributed engines*
- *Intuitive user interface*
- *Regular and frequent updates to protect against newly discovered threats*
- *Industry's most extensive vulnerability knowledgebase with the ability to test across all major platforms*

This database vulnerability management solution supports multiple database platforms:

- Oracle®
- Oracle® Application Server
- Microsoft® SQL Server®
- Sybase®
- IBM DB2®
- MySQL®
- IBM Lotus® Notes®/Domino®

IBM partners with Application Security, Inc. to combine professional and managed security services with comprehensive technology for complete database vulnerability management. This partnership ensures that every step of the solution lifecycle is backed by proven experience and market-leading technology.

### Supporting your reporting and audit requirements

Achieving ongoing successful compliance policies requires organizations to remain current with regulatory policy changes. You need to continually review and update regulatory policies, install repeatable processes and establish audit trails. While this can be achieved internally, cost efficiencies can be obtained by having IBM security specialists manage these tasks. IBM's database vulnerability management solutions are designed for your specific business environment.

- **Database Discovery** – *Identifies the databases you have in your environment.*

- **Penetration Testing** – *Provides an in-depth security test to identify how intruders can access your system. Pen Tests take an “outside-in” approach, simulating how attackers can exploit vulnerabilities on your system to break in from the “outside.”*
- **Vulnerability Scanning** – *Examines configurations and potential security holes within applications. Uses audits to determine how unauthorized users can obtain elevated privileges, or circumvent application security controls and mechanisms from the “inside.”*
- **Reporting** – *Delivers audit reports that show which vulnerabilities were found and offers recommendations for remediation.*

### Speeding deployment and reducing costs of adopting database security

IBM understands data security at the enterprise level, through interaction with customers and utilization of data security solutions in our own internal networks. Our consultants and specialists have experience with a wide range of industry solutions and IT architectures to help you adopt a holistic database vulnerability management solution. Our professional security services will:

- **Conduct a Requirements and Planning Workshop** to help you define your environment, business, compliance and IT requirements, prepare for implementation of controls, and develop an all-encompassing

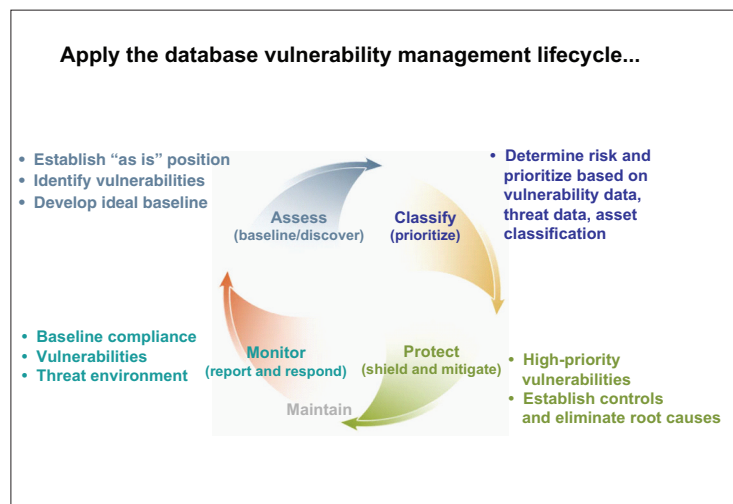


Diagram 1: IBM framework for database security

*approach for planning and implementing a data loss prevention solution.*

- *Perform **Policy Design**, which includes translation of regulatory and internal policies and the definition of any custom policies as required. Policies are used during the testing and implementation phases.*
- *Support the **Implementation** aspects of a successful deployment including:*
  - *Implementation planning and project management*
  - *Solution architecture and design*
  - *Installation of primary components*
  - *Role and privilege definition*
  - *Testing of primary components*
  - *Pilot deployments*
  - *Product updates*
  - *Project documentation*
  - *Help desk deployment assistance*
  - *Technical training and skills transfer*
  - *Project close-out and hand-off.*
- *Ensure a single point of contact for technical assistance with a **Support Desk** for all database vulnerability products licensed and deployed in the solution, including escalation to Application Security Inc. for break/fix or other business critical issues. IBM Support Desk will own and help manage, track and resolve problems related to the database vulnerability solution.*

## **Managing ongoing database vulnerabilities with IBM Managed Security Services**

IBM offers ongoing managed services to help you derive optimum value from your solution.

- ***Ongoing Remediation and Policy Enforcement** for day-to-day operational support from an IBM hosting center to run and manage your deployed database vulnerability solution. IBM will:*
  - *Assess found vulnerabilities and recommend fixes, patches and/or updates, enabling your database administrators to quickly and responsibly react.*
  - *Concurrently manage policies and maintain solutions to keep your organization current with the latest regulations and mandates.*
  - *Enforce required modifications on existing policies or activate new policies as corrective action and track associated remediation efforts.*
  - *Provide day-to-day operational support to operate and manage solution after deployment.*
- ***Ongoing Monitoring, Response and Reporting** to ensure continued solution viability and effectiveness. IBM will:*
  - *Schedule and manage periodic penetration tests, security audits and discovery assessments.*
  - *Respond to ad hoc requests for penetration tests and discovery assessments*
  - *Review audit, discovery and penetration reports and recommend corrective action as needed.*

- *Monitor and update software associated with solution.*
- *Supervise creation, distribution and storage of reports.*

IBM combines refined methods and extensive skills to help you realize the full value of your technology investment. Our services help optimize productivity, manageability and cost-effectiveness within your IT organization.

## **Why IBM and Application Security, Inc.?**

Together IBM and Application Security, Inc. join their experience and expertise to deliver comprehensive database vulnerability management. Application Security, Inc. software discovers database applications within your infrastructure and assesses their security strength. It locates, examines and fixes security issues and misconfigurations, enabling enterprises to proactively harden their database applications, strengthen their security operations and provide demonstrable regulatory compliance.

IBM Global Services security experience, global reach and scale help you to quickly and confidently deploy Application Security, Inc.'s best-in-class software, integrated with IBM services and tools. IBM solutions provide you with an end-to-end integrated database vulnerability management solution that uses a lifecycle-based approach to reduce compliance costs and complexity and

automate processes. Through ongoing monitoring and reporting supported by security experts, IBM can help you stay current with your compliance initiatives and reduce the cost of hiring and retaining security experts.

### **For more information**

To learn more about IBM Data Security Services for database vulnerability management, contact your IBM representative or visit:

**[ibm.com/services](http://ibm.com/services)**



© Copyright IBM Corporation 2008

IBM Corporation  
New Orchard Road  
Armonk, NY 10504  
U.S.A.

Produced in the United States of America  
04-08  
All Rights Reserved

IBM, the IBM logo and [ibm.com](http://ibm.com) are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. Application Security, Inc. and the Application Security, Inc. logo are registered trademarks of Application Security, Incorporated. Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both. Other company, product and service names may be trademarks or service marks of others. References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.