

DbProtect Vulnerability Management

VULNERABILITY MANAGEMENT

The Vulnerability Management module is the foundation of AppSec's DbProtect, offering unparalleled database assessment. DbProtect's agentless solution locates, examines, reports on, and fixes security holes and misconfigurations in any database. Vulnerability Management is backed by the SHATTER knowledgebase, the most extensive set of database vulnerability and misconfiguration checks and rules on the market. AppSec's ASAP Update mechanism ensures protection remains current. As new vulnerabilities and exploits are identified and database patches are released, DbProtect is systematically updated to ensure the latest protection for critical database assets. Vulnerability Management consists of:

- Database Discovery
- Penetration Testing
- Security and Configuration Auditing
- Reporting and Analytics
- Policy Development
- SHATTER Knowledgebase

5 Key Steps to Ensuring Database Security

In order to effectively secure their databases, organizations must address five critical requirements:

- 1. Isolate Sensitive Databases:** Maintain an accurate inventory of all databases deployed across the enterprise and identify all sensitive data residing on those databases.
- 2. Eliminate Vulnerabilities:** Continually assess, identify and remediate vulnerabilities that expose the database.
- 3. Enforce Least Privileges:** Identify user entitlements and enforce user access controls and privileges to limit access to only the minimum data required for employees to do their jobs.
- 4. Monitor for Deviations:** Implement appropriate policies and monitor any vulnerabilities that cannot be remediated for any and all activity that deviates from authorized activity.
- 5. Respond to Suspicious Behavior:** Alert and respond to any abnormal or suspicious behavior in real-time to minimize risk of attack.



DbProtect's Complete Enterprise Solution

COLLECT

DbProtect collects data detailing an organization's database ecosystem through an automated discovery process.

ANALYZE

DbProtect analyzes the data to highlight areas where risks and vulnerabilities reside and where database security process improvements are needed.

REMEDiate

Based on this analysis, DbProtect provides tools and detailed remediation instructions to eliminate database vulnerabilities.

ENFORCE

DbProtect enforces database security processes by monitoring and responding to deviations from authorized behavior.

Database Discovery

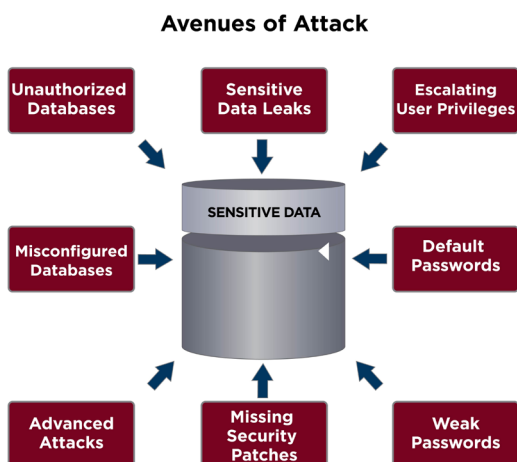
The first step to effective database security process control is to maintain an accurate inventory of all databases deployed across the enterprise. Over time, enterprises can lose track of their database inventory and become populated with forgotten and unauthorized databases. These "rogue" databases typically fall outside of IT control and are rarely configured or secured properly. As a result, they create a security risk by giving attackers an easy target to gain a foothold on the network and find access to other databases containing sensitive data. DbProtect solves this problem by maintaining a complete inventory of all databases on the corporate network, including:

- Production databases
- Test databases
- Authorized temporary databases
- Unauthorized databases

DbProtect identifies every database by IP address, database type, platform and version.

Sensitive Data Discovery

DbProtect's Sensitive Data Discovery (optional) takes your database inventory to the next level by locating and identifying sensitive data stored in each database. Sensitive Data Discovery quickly analyzes your data, classifying the sensitive information it finds according to regulatory and risk impact. It reports sensitive data location down to the column level. This helps organizations develop more granular and precise policies to restrict access to sensitive data, prioritize remediation plans and focus monitoring operations. DbProtect Sensitive Data Discovery combined with Database Discovery allows any organization to easily and automatically isolate their sensitive databases.



Penetration Testing and Security & Configuration Auditing

The second step to effective database security process control is to identify and fix vulnerabilities and misconfigurations that expose databases continually. Default and weak passwords, missing security patches, disabled security features, and improper access controls provide avenues of attack to sensitive data.

DbProtect provides unparalleled database vulnerability assessment allowing organizations to eliminate vulnerabilities and fix misconfigurations that put their sensitive data at risk. Vulnerability Management collects, analyzes and remediates vulnerabilities in any database. DbProtect's ASAP Update feature ensures that database protection remains current.

Policy Development

Vulnerability Management is driven by DbProtect's powerful policy development engine. It allows organizations to develop effective and fine-tuned policies customized to their database ecosystem. DbProtect's policy development is facilitated by an easy-to-use wizard that guides users through a simple three step process which allows organizations to define any privileged activities that need to be monitored, any access to sensitive data that must be audited and any suspicious activities that may require an Active Response.

DbProtect begins the policy development process with proven templates based on a validated library of rules. Templates include SOX, PCI-DSS, NIST 800.53, DISA STIG, HIPAA and many others. To facilitate the creation of filters and business rules, the policy wizard presents a catalog of all database objects. It allows organizations to identify specific tables and columns of interest and to assign risk. This approach allows organizations to look for all modifications to specific objects down to the column level, providing a more granular policy and eliminating any false positives and negatives.

SHATTER Knowledgebase

DbProtect's SHATTER knowledgebase sets the industry standard for comprehensive vulnerability and threat detection. It is supported by TeamSHATTER, the world's largest and most experienced database vulnerability research organization. DbProtect's ASAP Update feature ensures the SHATTER knowledgebase is updated monthly with the latest database vulnerabilities and threat signatures, keeping coverage current with the most advanced SQL injection and advanced persistent threat-based attacks.

The SHATTER knowledgebase is developed to provide rapid vulnerability mitigation and remediation. Each check provides detailed and easy-to-understand information that enables a common understanding between DBAs, IT Security and other organizations. In addition, each check provides clear and detailed remediation instructions.

Risk Analysis

DbProtect Risk Analysis (optional) helps organizations to prioritize vulnerability remediation plans to ensure that the most immediate threats are addressed quickly. Risk Analysis provides a “risk score” for database vulnerabilities based on exploitability, susceptibility and business impact. In this way database vulnerabilities can be mapped to IT risks helping organizations to properly prioritize their remediation efforts.

Reporting and Analytics

DbProtect Analytics and Reporting provides a consolidated picture of vulnerabilities, threats, and compliance efforts across heterogeneous database environments found in

today’s enterprises. An easy-to-use interface composed of interactive dashboards and reports summarize data gathered by the system and offer extensive filtering, sorting and drill through capabilities for a dynamic reporting experience. This feature allows executives to quickly ascertain where and how resources should be applied to most effectively reduce risk and implement compliance requirements around the database. Drill downs and detail reports offer a complete picture of each individual database or group of databases. DBAs and IT Security Analysts are provided with the level of detail they require, without burdening managers and executives with unnecessary details.

DbProtect Analytics and Reporting offers built-in and customizable compliance reports, risk reports, inventory reports, policy reports and user activity reporting. Reports can be scheduled and automatically emailed to the appropriate personnel as required.

ABOUT APPLICATION SECURITY, INC. (APPSECINC)

AppSec is a pioneer and leading provider of database security, risk and compliance (SRC) solutions for the enterprise. By providing strategic and scalable software-only solutions – AppDetectivePro for auditors and IT advisors, and DbProtect for the enterprise – AppSec supports the database lifecycle for some of the most complex and demanding environments in the world across more than 2,500 commercial and government customers.

Leveraging the world’s most comprehensive database security knowledgebase from the company’s renowned team of threat researchers, TeamSHATTER, AppSec products help customers achieve unprecedented levels of data security from nefarious or accidental activities, while reducing overall risk and helping to ensure continuous regulatory and industry compliance.

For more information, please visit: www.appsecinc.com | www.teamshatter.com

For a free database vulnerability assessment visit: <http://www.appsecinc.com/downloads/appdetectivepro>

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