DBHawk®

Zero Trust Database Access

WITH UNIFIED WEB-BASED IDE

Few Gold Standard Database Security Best Practices for 2025

The database should be a secure repository for all sensitive information your business processes every day. With this in mind, it makes sense to ensure secure databases at all times! Otherwise, you could put your data at risk of being stolen, lost, or compromised, and that could negatively impact your company's reputation. Knowing the gold standards in database security practices should help you in ensuring that your data is always secure and accessible only to authorized users. Here's what you need to consider:

1. Database Activity Monitoring (DAM)

Constant monitoring of activities can help secure databases. It should log all forms of user activity, including IP addresses, user IDs, time, database username, SQL queries, and wrong login attempts. This way, you can easily determine who accessed a particular data and when and why they did it. DAM also simplifies regulation compliance when you have plenty of end-users. Consider a web-based platform for database monitoring, so you can easily access it from any browser.

2. Secure Authentication Practices

Keep your database secure by implementing a Single Sign-On solution like Okta. It will let your database users to log in without sharing usernames and passwords. Moreover, enable two-factor authentication (2FA) with LDAP integration and SSL for secure user authentication without exposing passwords. Make sure passwords expire and that there are time-sensitive logins.

3. Database Object Access Control

This allows you to secure databases without the need to assign roles or rely on database permissions every time. It will enable secure access to data without compromising on database security, and making it a good addition to environments like sales and human resources.

4. Data Masking

Dynamic data masking will enable administrators to provide access to only the necessary data for end users. This way, there is no need to make a separate database and attaining GDPR data protection will be easier.

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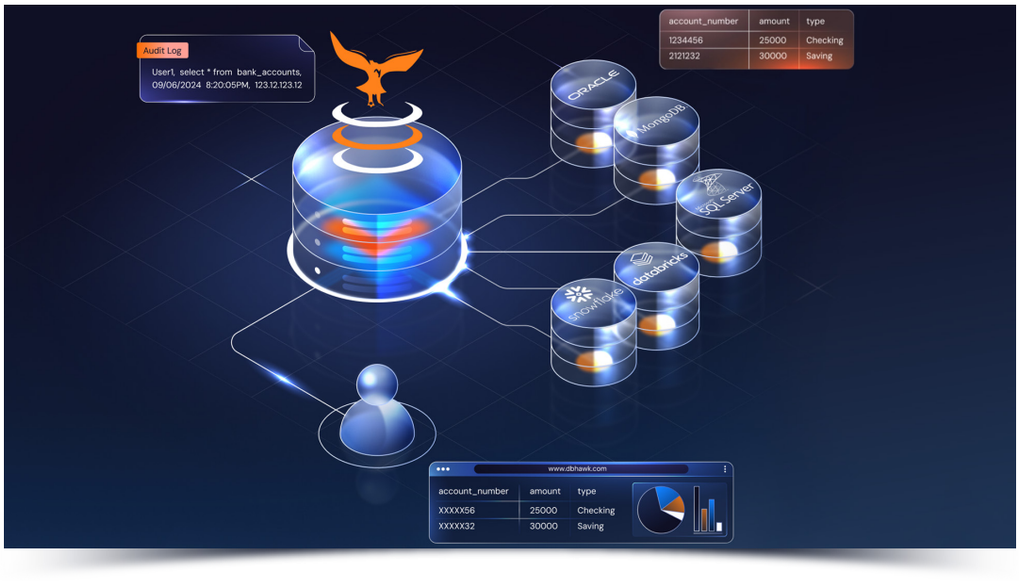
5. Manage Metrics and Logs

Secure databases more effectively by integrating third-party log and metrics management software like Splunk and Sumologic. The database management tool can deliver the log files to the software, which will continuously oversee data access and identify problems.



6. Regularly Update Patches

Regularly applying upgrade patches to SQL tools is crucial for maintaining security and performance, but traditional desktop-based tools often pose logistical challenges. DBHawk's web-based architecture significantly simplifies this process, eliminating the need for individual client installations and patch deployments. Updates are centrally managed on the server, ensuring all users instantly access the latest features and security enhancements without any manual intervention. This centralized approach reduces administrative overhead, minimizes downtime, and guarantees consistent security across the entire organization, a benefit inherent to DBHawk's web-based design.

7. User Authentication

Traditional database user authentication typically involves managing separate sets of credentials directly within the database, leading to password sprawl, increased administrative overhead, and potential security vulnerabilities. In contrast, DBHawk streamlines access through Single Sign-On (SSO) and LDAP integration, leveraging existing enterprise identity providers.

This approach eliminates the need for managing individual database logins, centralized authentication, enforces consistent security policies across the organization, and simplifies user onboarding and offboarding. By integrating with established identity systems, DBHawk enhances security, simplifies administration, and provides a more seamless and efficient user experience compared to traditional database authentication methods

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