

# **Database Security Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Software and Services), By Business Function (Marketing, Sales, Finance, Operations and Others), By Deployment Model (On-Premises and Cloud), By Vertical (Banking, Financial Services, & Insurance, Healthcare & Life Sciences, Telecommunications & IT, Government & Defense, Manufacturing and Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Database Security Market is projected to expand from USD 11.17 Billion in 2025 to USD 29.86 Billion by 2031, registering a CAGR of 17.81%. Database security involves a comprehensive set of technical controls and procedural measures aimed at shielding database management systems from unauthorized access, malicious attacks, and data breaches, thereby guaranteeing the confidentiality and integrity of information. The market is largely driven by the massive accumulation of sensitive enterprise data and the strict enforcement of global privacy laws that require rigorous protection protocols. Additionally, the widespread migration of operations to cloud environments fuels the demand for scalable security architectures designed to defend information against ransomware and internal vulnerabilities.

According to the Identity Theft Resource Center, the number of data breach victim notices surged by 312 percent in 2024 compared to the previous year, impacting over 1.7 billion individuals. Despite the evident necessity for robust defense mechanisms, the

market is hindered by a significant obstacle: a widening cybersecurity skills gap. The scarcity of qualified professionals skilled in managing complex hybrid security environments limits the effective deployment and ongoing maintenance of these essential protection systems.

### **Market Driver**

The increasing frequency and sophistication of cyberattacks serve as a primary catalyst for the Global Database Security Market, forcing organizations to strengthen their defenses against financial and operational disruptions. As threat actors utilize advanced techniques to evade traditional perimeters, the financial impact of breaches has become a major concern for enterprise leadership. IBM's 'Cost of a Data Breach Report 2024' indicates that the global average cost of a data breach hit a record USD 4.88 million in July 2024, highlighting the severe economic consequences of inadequate protection. This rising cost burden accelerates the adoption of comprehensive database security solutions that offer real-time threat detection and mitigation to preserve organizational integrity.

Concurrently, the rapid shift toward cloud-based and hybrid database infrastructures stimulates market growth by creating complex environments that demand specialized security architectures. Cloud migration expands the attack surface, introducing vulnerabilities linked to misconfigurations and shared responsibility models that legacy on-premises tools cannot address. CrowdStrike's '2024 Global Threat Report' noted a 75 percent rise in cloud environment intrusions in February 2024, emphasizing the urgent need for cloud-native security measures. Furthermore, the volatile threat landscape necessitates continuous investment in security posture; Check Point Software Technologies' 'Mid-Year Security Report' revealed a 30 percent increase in global cyber attacks in the second quarter of 2024, reinforcing the demand for robust database protection strategies across all sectors.

### **Market Challenge**

The widening cybersecurity skills gap stands as a critical impediment to the growth of the Global Database Security Market. As organizations increasingly adopt complex hybrid and cloud-native database environments, the demand for professionals with specialized expertise in data protection, regulatory compliance, and threat mitigation has surged. Unfortunately, the supply of qualified personnel has failed to keep pace with this demand. This shortage forces enterprises to delay the implementation of essential security architectures, as investing in advanced tools proves futile without a competent

workforce to effectively configure, monitor, and maintain them.

Consequently, the inability to fully operationalize security investments slows the adoption rate of new database security technologies. According to ISC2, the global cybersecurity workforce gap reached 4.8 million professionals in 2024, with 90% of organizations reporting skill shortages within their security teams. This deficit leaves critical database systems exposed to exploitation and compels organizations to prioritize immediate operational stability over the deployment of comprehensive security upgrades, thereby directly stifling market growth and limiting revenue potential for security vendors.

## **Market Trends**

The adoption of Zero Trust Architecture in database environments is fundamentally transforming access control paradigms by eliminating the concept of a trusted internal network. Instead of relying on static perimeter defenses, this architectural approach requires continuous identity verification and strict least-privilege access for every database interaction, regardless of the user's location. This shift effectively mitigates the risk of lateral movement by malicious actors who have breached the outer network, ensuring that sensitive repositories remain isolated and secure. The urgency to implement these granular controls is reflected in recent industry adoption rates; Entrust's '2024 State of Zero Trust & Encryption Study' found that 61 percent of organizations are beginning their Zero Trust journey to combat expanding attack surfaces and protect critical assets.

Simultaneously, the integration of Artificial Intelligence for proactive threat detection is revolutionizing how enterprises identify and neutralize vulnerabilities before they can be exploited. By utilizing advanced machine learning algorithms, modern security platforms can analyze vast datasets of user behavior in real-time to detect subtle anomalies indicating SQL injection attempts or credential theft, far surpassing the capabilities of traditional rule-based systems. This technological evolution is critical for automating incident response and reducing the operational burden on security teams facing increasingly complex threats. According to Cisco's '2024 Cybersecurity Readiness Index,' 55 percent of organizations plan to invest in AI-driven technologies over the next two years to bolster their defense capabilities and close security gaps.

## **Key Market Players**

Fortinet, Inc.

Oracle Corporation

International Business Machines Corporation

Trustwave Holdings, Inc.

Thales Group

Imperva, Inc.

Innovative Routines International, Inc.

McAfee, LLC

Micro Focus International plc

HexaTier Ltd.

## **Report Scope**

In this report, the Global Database Security Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Database Security Market, By Component

Software and Services

Database Security Market, By Business Function

Marketing

Sales

Finance

Operations and Others

## Database Security Market, By Deployment Model

On-Premises and Cloud

## Database Security Market, By Vertical

Banking

Financial Services

& Insurance

Healthcare & Life Sciences

Telecommunications & IT

Government & Defense

Manufacturing and Others

## Database Security Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Database Security Market.

## **Available Customizations:**

*Database Security Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Compon...*

Global Database Security Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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