

# **Risk-based Authentication Market Report by Component (Solution, Service), Deployment (On-premises, Cloud-based), Application (Fraud Prevention, Cloud Application Security, IoT Security, and Others), End User Vertical (Banking and Financial Services, Retail, IT and Telecommunication, Government, Healthcare, and Others), and Region 2024-2032**

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## **Abstracts**

The global risk-based authentication market size reached US\$ 5.0 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 16.5 Billion by 2032, exhibiting a growth rate (CAGR) of 14% during 2024-2032. The market is growing rapidly driven by increasing cybersecurity threats across the globe, imposition of various stringent regulations, exponential growth in digital transactions across different sectors, rapid technological advancements, and widespread adoption of cloud-based services.

### **Risk-based Authentication Market Analysis:**

**Market Growth and Size:** The market is witnessing stable growth, driven by the increasing demand for advanced security solutions across various industries, rising prevalence of cyber threats, and the growing digital economy, necessitating robust authentication methods.

**Major Market Drivers:** Key drivers influencing the market growth include escalating cybersecurity threats, stringent regulatory compliance needs, the surge in digital transactions, and the adoption of cloud-based services. Additionally, the shift towards remote work and growing awareness about data security among businesses and consumers is contributing to the market growth.

**Technological Advancements:** Recent innovations in artificial intelligence (AI) and machine learning (ML), which has revolutionized risk-based authentication (RBA) capabilities, making it more efficient in risk assessment and fraud detection, is supporting the market growth.

**Industry Applications:** The market is experiencing high product demand in banking and financial services, retail, information technology (IT) and telecommunication, government, and healthcare, to provide dynamic and context aware security measures.

**Key Market Trends:** The key market trends involve the ongoing shift towards cloud-based RBA solutions due to their scalability and ease of implementation. Additionally, the increasing focus on enhancing user experience along with security is bolstering the market growth.

**Geographical Trends:** North America leads the market due to its advanced technological infrastructure and high digital literacy. Other regions are also showing significant growth, fueled by digital transformation initiatives and regulatory compliance requirements.

**Competitive Landscape:** The market is characterized by the presence of key players who are engaging in innovation, strategic partnerships, and global expansion to strengthen their market positions. Furthermore, they are focusing on complying with regional and global regulations, which is critical in the highly competitive RBA market.

**Challenges and Opportunities:** The market faces various challenges, such as the need for continuous technological upgrades and managing the balance between security and user experience. However, the potential for expansion into emerging sectors and the development of more sophisticated and user-friendly RBA solutions are creating new opportunities for the market growth.

#### **Risk-based Authentication Market Trends:**

##### **Increasing cybersecurity threats across the globe**

The rising cybersecurity threats is a primary factor driving the growth of the risk-based authentication (RBA) market. Cyber-attacks are becoming more sophisticated, and organizations face an ever-increasing need to protect sensitive data and systems. RBA presents a dynamic solution by analyzing various risk factors, such as user behavior, device location, and access time, to determine the legitimacy of an access attempt. This proactive approach is vital in detecting and preventing breaches that might otherwise go unnoticed with static security measures. Moreover, RBA systems can adapt by continually updating their risk assessment algorithms, thereby maintaining a high level of security. Besides this, the increasing number of high-profile cyberattacks, which has heightened awareness among organizations about the importance of robust cybersecurity measures, is driving the market growth.

### Imposition of various stringent regulations

Regulatory compliance is a significant factor fueling the growth of the risk-based authentication market. In line with this, the rapid proliferation of data protection laws across the globe, which mandate stringent controls over how organizations handle and protect customer and user data, is driving the market growth. RBA plays a critical role in meeting these requirements by providing an enhanced level of security for accessing sensitive information. It ensures that access to data is granted only after a thorough risk assessment, thereby reducing the likelihood of data breaches and non-compliance penalties. Furthermore, RBA systems can be configured to comply with various regulatory standards, making them adaptable to different legal environments.

### Exponential growth in digital transactions across different sectors

The exponential growth in digital transactions is a pivotal factor propelling the market growth. The digital transformation of banking, retail, and other sectors has led to a surge in online transactions. It presents significant security challenges, as it opens up new avenues for cyber fraud and identity theft. RBA addresses these challenges by providing a secure and dynamic way of authenticating users. It evaluates the risk associated with each transaction based on context and behavior, adjusting the authentication process accordingly. Moreover, RBA not only enhances security but also improves the user experience, making digital transactions smoother and more efficient, which is further bolstering the market growth.

### Recent technological advancements in artificial intelligence (AI) and machine learning (ML)

Technological advancements, particularly in machine learning (ML) and artificial intelligence (AI), are significantly contributing to the market growth. They have revolutionized RBA systems, making them more intelligent and effective. Furthermore, AI and ML enable these systems to examine vast amounts of data in real time, identifying patterns that may indicate potential security risks. This capability allows for the continuous improvement of risk assessment models and the detection of sophisticated fraud attempts that would be undetectable by human analysts or traditional systems. Additionally, these technological advancements have made RBA solutions more accessible and cost-effective, encouraging adoption even among smaller organizations.

## Widespread adoption of cloud-based services

The widespread adoption of cloud-based services is a critical factor propelling the market growth. Cloud environments typically involve accessing data and applications over the internet, which can expose organizations to the risk of cyber-attacks and data breaches. RBA offers an effective solution to this challenge by providing enhanced security for cloud-based applications and services. It allows organizations to implement adaptive authentication mechanisms that evaluate the risk level of each access request, ensuring that only legitimate users gain entry. It is especially important given the decentralized nature of cloud computing, where users may access systems from various locations and devices. Furthermore, RBA's ability to dynamically adjust authentication requirements based on contextual factors like user location, device used, and time of access is acting as another growth-inducing factor.

## Risk-based Authentication Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on component, deployment, application, and end user vertical.

### Breakup by Component:

Solution

Service

Solution accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the component. This includes solution and service. According to the report, solution represented the largest segment.

### Breakup by Deployment:

On-premises

Cloud-based

Cloud-based holds the largest share in the industry

A detailed breakup and analysis of the market based on the deployment have also been provided in the report. This includes on-premises. According to the report, on-premises,

cloud-based accounted for the largest market share.

#### Breakup by Application:

- Fraud Prevention
- Cloud Application Security
- IoT Security
- Others

Fraud prevention represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the application. This includes fraud prevention, cloud application security, IoT security, and others. According to the report, fraud prevention represented the largest segment.

#### Breakup by End User Vertical:

- Banking and Financial Services
- Retail
- IT and Telecommunication
- Government
- Healthcare
- Others

IT and telecommunication exhibit a clear dominance in the market

A detailed breakup and analysis of the market based on the end user vertical have also been provided in the report. This includes banking and financial services, retail, IT and telecommunication, government, healthcare, and others. According to the report, IT and telecommunication accounted for the largest market share.

#### Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific
- China
- Japan
- India

South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

North America leads the market, accounting for the largest risk-based authentication market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Broadcom Inc.  
Centrify  
Equifax Inc.  
ForgeRock  
Gurukul  
HID Global (Assa Abloy AB)  
International Business Machines Corporation

Micro Focus International plc  
Okta Inc.  
Oracle Corporation  
Secureauth Corporation  
TransUnion

### Key Questions Answered in This Report

1. What was the size of the global risk-based authentication market in 2023?
2. What is the expected growth rate of the global risk-based authentication market during 2024-2032?
3. What has been the impact of COVID-19 on the global risk-based authentication market?
4. What are the key factors driving the global risk-based authentication market?
5. What is the breakup of the global risk-based authentication market based on the component?
6. What is the breakup of the global risk-based authentication market based on the deployment?
7. What is the breakup of the global risk-based authentication market based on the application?
8. What is the breakup of the global risk-based authentication market based on the end user vertical?
9. What are the key regions in the global risk-based authentication market?
10. Who are the key players/companies in the global risk-based authentication market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL RISK-BASED AUTHENTICATION MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### **6 MARKET BREAKUP BY COMPONENT**

- 6.1 Solution
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Service
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast



## **7 MARKET BREAKUP BY DEPLOYMENT**

### **7.1 On-premises**

#### **7.1.1 Market Trends**

#### **7.1.2 Market Forecast**

### **7.2 Cloud-based**

#### **7.2.1 Market Trends**

#### **7.2.2 Market Forecast**

## **8 MARKET BREAKUP BY APPLICATION**

### **8.1 Fraud Prevention**

#### **8.1.1 Market Trends**

#### **8.1.2 Market Forecast**

### **8.2 Cloud Application Security**

#### **8.2.1 Market Trends**

#### **8.2.2 Market Forecast**

### **8.3 IoT Security**

#### **8.3.1 Market Trends**

#### **8.3.2 Market Forecast**

### **8.4 Others**

#### **8.4.1 Market Trends**

#### **8.4.2 Market Forecast**

## **9 MARKET BREAKUP BY END USER VERTICAL**

### **9.1 Banking and Financial Services**

#### **9.1.1 Market Trends**

#### **9.1.2 Market Forecast**

### **9.2 Retail**

#### **9.2.1 Market Trends**

#### **9.2.2 Market Forecast**

### **9.3 IT and Telecommunication**

#### **9.3.1 Market Trends**

#### **9.3.2 Market Forecast**

### **9.4 Government**

#### **9.4.1 Market Trends**

#### **9.4.2 Market Forecast**

### **9.5 Healthcare**

- 9.5.1 Market Trends
- 9.5.2 Market Forecast
- 9.6 Others
  - 9.6.1 Market Trends
  - 9.6.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

- 10.1 North America
  - 10.1.1 United States
    - 10.1.1.1 Market Trends
    - 10.1.1.2 Market Forecast
  - 10.1.2 Canada
    - 10.1.2.1 Market Trends
    - 10.1.2.2 Market Forecast
- 10.2 Asia-Pacific
  - 10.2.1 China
    - 10.2.1.1 Market Trends
    - 10.2.1.2 Market Forecast
  - 10.2.2 Japan
    - 10.2.2.1 Market Trends
    - 10.2.2.2 Market Forecast
  - 10.2.3 India
    - 10.2.3.1 Market Trends
    - 10.2.3.2 Market Forecast
  - 10.2.4 South Korea
    - 10.2.4.1 Market Trends
    - 10.2.4.2 Market Forecast
  - 10.2.5 Australia
    - 10.2.5.1 Market Trends
    - 10.2.5.2 Market Forecast
  - 10.2.6 Indonesia
    - 10.2.6.1 Market Trends
    - 10.2.6.2 Market Forecast
  - 10.2.7 Others
    - 10.2.7.1 Market Trends
    - 10.2.7.2 Market Forecast
- 10.3 Europe
  - 10.3.1 Germany

- 10.3.1.1 Market Trends
- 10.3.1.2 Market Forecast
- 10.3.2 France
  - 10.3.2.1 Market Trends
  - 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
  - 10.3.3.1 Market Trends
  - 10.3.3.2 Market Forecast
- 10.3.4 Italy
  - 10.3.4.1 Market Trends
  - 10.3.4.2 Market Forecast
- 10.3.5 Spain
  - 10.3.5.1 Market Trends
  - 10.3.5.2 Market Forecast
- 10.3.6 Russia
  - 10.3.6.1 Market Trends
  - 10.3.6.2 Market Forecast
- 10.3.7 Others
  - 10.3.7.1 Market Trends
  - 10.3.7.2 Market Forecast
- 10.4 Latin America
  - 10.4.1 Brazil
    - 10.4.1.1 Market Trends
    - 10.4.1.2 Market Forecast
  - 10.4.2 Mexico
    - 10.4.2.1 Market Trends
    - 10.4.2.2 Market Forecast
  - 10.4.3 Others
    - 10.4.3.1 Market Trends
    - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
  - 10.5.1 Market Trends
  - 10.5.2 Market Breakup by Country
  - 10.5.3 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

## **13 PORTERS FIVE FORCES ANALYSIS**

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

15.1 Market Structure

15.2 Key Players

15.3 Profiles of Key Players

15.3.1 Broadcom Inc.

15.3.1.1 Company Overview

15.3.1.2 Product Portfolio

15.3.1.3 Financials

15.3.1.4 SWOT Analysis

15.3.2 Centrifify

15.3.2.1 Company Overview

15.3.2.2 Product Portfolio

15.3.3 Equifax Inc.

15.3.3.1 Company Overview

15.3.3.2 Product Portfolio

15.3.3.3 Financials

15.3.3.4 SWOT Analysis

15.3.4 ForgeRock

15.3.4.1 Company Overview

15.3.4.2 Product Portfolio

15.3.5 Gurukul

- 15.3.5.1 Company Overview
- 15.3.5.2 Product Portfolio
- 15.3.6 HID Global (Assa Abloy AB)
  - 15.3.6.1 Company Overview
  - 15.3.6.2 Product Portfolio
- 15.3.7 International Business Machines Corporation
  - 15.3.7.1 Company Overview
  - 15.3.7.2 Product Portfolio
  - 15.3.7.3 Financials
  - 15.3.7.4 SWOT Analysis
- 15.3.8 Micro Focus International plc
  - 15.3.8.1 Company Overview
  - 15.3.8.2 Product Portfolio
  - 15.3.8.3 Financials
- 15.3.9 Okta Inc.
  - 15.3.9.1 Company Overview
  - 15.3.9.2 Product Portfolio
  - 15.3.9.3 Financials
- 15.3.10 Oracle Corporation
  - 15.3.10.1 Company Overview
  - 15.3.10.2 Product Portfolio
  - 15.3.10.3 Financials
  - 15.3.10.4 SWOT Analysis
- 15.3.11 Secureauth Corporation
  - 15.3.11.1 Company Overview
  - 15.3.11.2 Product Portfolio
- 15.3.12 TransUnion
  - 15.3.12.1 Company Overview
  - 15.3.12.2 Product Portfolio
  - 15.3.12.3 Financials
  - 15.3.12.4 SWOT Analysis

## List Of Tables

### LIST OF TABLES

Table 1: Global: Risk-based Authentication Market: Key Industry Highlights, 2023 & 2032

Table 2: Global: Risk-based Authentication Market Forecast: Breakup by Component (in Million US\$), 2024-2032

Table 3: Global: Risk-based Authentication Market Forecast: Breakup by Deployment (in Million US\$), 2024-2032

Table 4: Global: Risk-based Authentication Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Risk-based Authentication Market Forecast: Breakup by End User Vertical (in Million US\$), 2024-2032

Table 6: Global: Risk-based Authentication Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Risk-based Authentication Market: Competitive Structure

Table 8: Global: Risk-based Authentication Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Risk-based Authentication Market: Major Drivers and Challenges

Figure 2: Global: Risk-based Authentication Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Risk-based Authentication Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 4: Global: Risk-based Authentication Market: Breakup by Component (in %), 2023

Figure 5: Global: Risk-based Authentication Market: Breakup by Deployment (in %), 2023

Figure 6: Global: Risk-based Authentication Market: Breakup by Application (in %), 2023

Figure 7: Global: Risk-based Authentication Market: Breakup by End User Vertical (in %), 2023

Figure 8: Global: Risk-based Authentication Market: Breakup by Region (in %), 2023

Figure 9: Global: Risk-based Authentication (Solution) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Risk-based Authentication (Solution) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Risk-based Authentication (Service) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Risk-based Authentication (Service) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Risk-based Authentication (On-premises) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Risk-based Authentication (On-premises) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Risk-based Authentication (Cloud-based) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Risk-based Authentication (Cloud-based) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Risk-based Authentication (Fraud Prevention) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Risk-based Authentication (Fraud Prevention) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Risk-based Authentication (Cloud Application Security) Market: Sales

Value (in Million US\$), 2018 & 2023

Figure 20: Global: Risk-based Authentication (Cloud Application Security) Market  
Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Risk-based Authentication (IoT Security) Market: Sales Value (in  
Million US\$), 2018 & 2023

Figure 22: Global: Risk-based Authentication (IoT Security) Market Forecast: Sales  
Value (in Million US\$), 2024-2032

Figure 23: Global: Risk-based Authentication (Other Applications) Market: Sales Value  
(in Million US\$), 2018 & 2023

Figure 24: Global: Risk-based Authentication (Other Applications) Market Forecast:  
Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Risk-based Authentication (Banking and Financial Services) Market:  
Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Risk-based Authentication (Banking and Financial Services) Market  
Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: Risk-based Authentication (Retail) Market: Sales Value (in Million  
US\$), 2018 & 2023

Figure 28: Global: Risk-based Authentication (Retail) Market Forecast: Sales Value (in  
Million US\$), 2024-2032

Figure 29: Global: Risk-based Authentication (IT and Telecommunication) Market: Sales  
Value (in Million US\$), 2018 & 2023

Figure 30: Global: Risk-based Authentication (IT and Telecommunication) Market  
Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: Risk-based Authentication (Government) Market: Sales Value (in  
Million US\$), 2018 & 2023

Figure 32: Global: Risk-based Authentication (Government) Market Forecast: Sales  
Value (in Million US\$), 2024-2032

Figure 33: Global: Risk-based Authentication (Healthcare) Market: Sales Value (in  
Million US\$), 2018 & 2023

Figure 34: Global: Risk-based Authentication (Healthcare) Market Forecast: Sales  
Value (in Million US\$), 2024-2032

Figure 35: Global: Risk-based Authentication (Other End User Verticals) Market: Sales  
Value (in Million US\$), 2018 & 2023

Figure 36: Global: Risk-based Authentication (Other End User Verticals) Market  
Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: North America: Risk-based Authentication Market: Sales Value (in Million  
US\$), 2018 & 2023

Figure 38: North America: Risk-based Authentication Market Forecast: Sales Value (in  
Million US\$), 2024-2032



Figure 39: United States: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: United States: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Canada: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Canada: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Asia-Pacific: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Asia-Pacific: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: China: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: China: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Japan: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Japan: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: India: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: India: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: South Korea: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: South Korea: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: Australia: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: Australia: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: Indonesia: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: Indonesia: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Others: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 58: Others: Risk-based Authentication Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 59: Europe: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Europe: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Germany: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Germany: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: France: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: France: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: United Kingdom: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: United Kingdom: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Italy: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Italy: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Spain: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Spain: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Russia: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Russia: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Others: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Others: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 75: Latin America: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 76: Latin America: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 77: Brazil: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 78: Brazil: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 79: Mexico: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 80: Mexico: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 81: Others: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 82: Others: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 83: Middle East and Africa: Risk-based Authentication Market: Sales Value (in Million US\$), 2018 & 2023

Figure 84: Middle East and Africa: Risk-based Authentication Market: Breakup by Country (in %), 2023

Figure 85: Middle East and Africa: Risk-based Authentication Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 86: Global: Risk-based Authentication Industry: SWOT Analysis

Figure 87: Global: Risk-based Authentication Industry: Value Chain Analysis

Figure 88: Global: Risk-based Authentication Industry: Porter's Five Forces Analysis

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