

# **Deception Technology Market Report by Deception Stack (Data Security, Application Security, Endpoint Security, Network Security), Service (Managed Services, Professional Services), Deployment (Cloud based, On-premises), Organization Size (Small and Medium-sized Enterprises, Large Enterprises), End User (Government, Medical, BFSI, Defense, IT and Telecommunication, and Others), and Region 2026-2034**

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## **Abstracts**

The global deception technology market size reached USD 2.7 Billion in 2025. Looking forward, IMARC Group expects the market to reach USD 7.3 Billion by 2034, exhibiting a growth rate (CAGR) of 11.43% during 2026-2034. The market is rapidly growing mainly driven by the rising incidences of cybersecurity threats, the need for early threat detection, integration with advanced security solutions, and regulatory compliance demands. The widespread adoption of cloud-based solutions and enhanced threat intelligence capabilities are also contributing positively to the market growth.

Deception technology is a cybersecurity defense that works by disseminating a series of traps and decoys throughout the infrastructure of a system to simulate genuine assets. It aims to deceive attackers by virtual and real operating system environment. It enables attackers to gain a foothold on the network by giving them a false sense of security. It offers several advantages including, decreasing attacker dwell time on the network, expediting the average time to detect and remediate threats, reducing alert fatigue, and producing metrics surrounding indicators of compromise (IOCs) and tactics, techniques and procedures (TTPs). As a result, the deception technology finds extensive

applications in government, medical, defense, information technology (IT), telecommunication, and banking, financial services and insurance (BFSI) sectors worldwide.

#### Deception Technology Market Trends:

Due to the surging cyber-attacks, there is a rise in the employment of deception technology in organizations of different industry verticals to detect and mitigate advanced risks to credentials. This, along with the growing utilization of the technology by security teams to focus on real threats of the network, represents one of the key factors driving the market. Moreover, there is an increase in the usage of deception technology by governing authorities around the world to protect critical information provided on their official websites and prevent cybercrime onslaught. This, coupled with the rising integration of artificial intelligence (AI) and machine learning (ML) to reduce operational overheads, is propelling the growth of the market. In addition, the growing number of advanced persistent threat (APT) attacks across the globe is catalyzing the need for deception technology. Furthermore, key market players are focusing on mergers and acquisitions (M&A) to increase their overall profitability.

#### Market Segmentation:

This report provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2026-2034. The report categorizes the market based on deception stack, service, deployment, organization size and end user.

#### Breakup by Deception Stack:

Data Security

Application Security

Endpoint Security

Network Security

#### Breakup by Service:

Managed Services

Professional Services

Breakup by Deployment:

Cloud based

On-premises

Breakup by Organization Size:

Small and Medium-sized Enterprises

Large Enterprises

Breakup by End User:

Government

Medical

BFSI

Defense

IT and Telecommunication

Others

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

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Acalvio Technologies Inc., Allure Security Technology, Attivo Networks, CounterCraft, CyberTrap Software GmbH, Fidelis Cybersecurity Inc., Guardicore Ltd. (Akamai Technologies), Illusive Networks, Logrhythm Inc., Rapid7, Trapx Security Inc. and Zscaler Inc.

#### Key Questions Answered in This Report

1. How big is the deception technology market?
2. What is the future outlook of deception technology market?
3. What are the key factors driving the deception technology market?
4. Which region accounts for the largest deception technology market share?
5. Which are the leading companies in the global deception technology market?

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