

Global Application Security Testing software and Tools Market Research Report 2026(Status and Outlook)

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Abstracts

Application Security Testing Software and Tools are specialized software solutions designed to analyze the security posture of an application throughout its development lifecycle (SDLC). These tools systematically identify, analyze, and report vulnerabilities within an application's code, runtime environment, and supporting components. AST encompasses various methodologies, including Static Analysis (SAST) for code-level defects, Dynamic Analysis (DAST) for runtime flaws, Interactive Analysis (IAST) for hybrid runtime monitoring, and Software Composition Analysis (SCA) for third-party library risks. By automating the process of finding security defects early, AST tools enable developers to "shift left" integrating security into the coding and testing phases thereby significantly reducing the cost of fixing vulnerabilities and enhancing the overall resilience of the application against cyber threats.

Market Development Opportunities & Main Driving Factors

The Application Security Testing (AST) Software market is entering an era of unprecedented opportunity, driven by the dual forces of accelerated digital transformation and the global regulatory mandate for software security accountability. Enterprises are rapidly shifting from monolithic architectures to cloud-native, microservices, and API-driven environments, dramatically expanding the attack surface and rendering traditional point security tools inadequate. Strict governmental mandates concerning software supply chain security, such as US Executive Orders and subsequent agency requirements for SBOMs (Software Bill of Materials), are transitioning AST from an optional measure to a mandatory compliance expenditure. The biggest driver is the industrialization of DevSecOps, where organizations require a unified platform to automate the entire "Shift Left" process, seamlessly integrating SAST, DAST, IAST, and SCA tools, and providing centralized reporting and risk correlation across all assets. For investors, the AST platform market offers a single point of entry to the software security budget and a source of high-

stickiness, high-recurring revenue. Successful platforms are those that leverage AI and machine learning to reduce false positives and deliver real-time feedback optimized for the developer experience, thus securing a dominant position in the competitive landscape.

Market Challenges, Risks, & Restraints

Despite the promising outlook, the AST platform market grapples with the dual challenges of technical complexity and talent scarcity. The primary challenge lies in achieving true platformization and data unification. Many existing offerings are integrated through acquisition, resulting in weak data correlation and inconsistent unified reporting across different modules (like SAST and DAST), making it difficult for users to gain a clear, holistic view of their risks. High initial deployment costs and the lack of specialized personnel are critical factors constraining adoption by SMEs and traditional industries. AST platforms require enterprises not only to purchase the software but also to staff specialized teams with security development and DevOps skills for continuous maintenance and result interpretation, elevating the barrier to entry. Market risks primarily center on the speed of coverage for emerging technologies and the balance between false positives and false negatives. The constant emergence of new technologies like containerization, Serverless computing, and advanced APIs (e.g., GraphQL) demands that platforms continuously and rapidly update their detection engines; meanwhile, high false positive rates severely disrupt developer workflows, while high false negative rates pose catastrophic security risks. Platforms failing to effectively manage this balance between technical depth and user experience will struggle to gain and retain enterprise client trust.

Downstream Demand Trends

Future downstream demand trends will focus on contextual awareness, vulnerability orchestration, and adaptive security. Customers are no longer satisfied with receiving a static list of vulnerabilities; they demand Context-Aware AST platforms that can intelligently prioritize and score thousands of alerts based on their actual exploitability, the sensitivity of the data flow, and the asset's exposure in the production environment. Trend one is vulnerability orchestration and remediation automation. Platforms are required to automatically assign high-risk vulnerabilities to the correct development team, track remediation SLAs, and provide code-level fix recommendations (e.g., code snippets) to minimize security team intervention. Trend two is the native integration of API and Cloud-Native security. As application logic is increasingly exposed via APIs, customers require platforms that natively support API security testing and Infrastructure as Code (IaC) configuration analysis, ensuring security from code inception to runtime. Trend three is the convergence with Runtime Application Self-Protection (RASP) technology, where AST findings and knowledge are fed back into runtime protection mechanisms to form a closed-loop, adaptive security system, maximizing the minimization of the zero-day threat window.

The global Application Security Testing software and Tools market size was estimated at USD 3247.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 10.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Application Security Testing software and Tools market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Application Security Testing software and Tools market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Application Security Testing software and Tools market.

Global Application Security Testing software and Tools Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse

customer groups.

Key Company

Veracode
Checkmarx
PortSwigger
Micro Focus
Qualys
Invicti Security
Contrast Security
Rapid7
HCL Software
GitLab
Synopsys
CAST
Onapsis
Perforce
Data Theorem
Parasoft
Akamai
Kiuwan (Idera)
ImmuniWeb
Appknox
Fluid Attacks
Black Duck
OpenText
Snyk
SonarSource

Market Segmentation (by Type)

Cloud-Based
On-Premises

Market Segmentation (by Application)

SMEs
Large Enterprises

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Application Security Testing software and Tools Market

Overview of the regional outlook of the Application Security Testing software and Tools Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Application Security Testing software and Tools Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the

market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Application Security Testing software and Tools, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions
Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Application Security Testing software and Tools
- 1.2 Key Market Segments
 - 1.2.1 Application Security Testing software and Tools Segment by Type
 - 1.2.2 Application Security Testing software and Tools Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET OVERVIEW

- 2.1 Global Market Overview
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Application Security Testing software and Tools Product Life Cycle
- 3.3 Global Application Security Testing software and Tools Revenue Market Share by Company (2020-2025)
- 3.4 Application Security Testing software and Tools Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.5 Headquarters, Areas Served, and Product Types of Major Players
- 3.6 Application Security Testing software and Tools Market Competitive Situation and Trends
 - 3.6.1 Application Security Testing software and Tools Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest Application Security Testing software and Tools Players
- Market Share by Revenue
 - 3.6.3 Mergers & Acquisitions, Expansion

4 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS VALUE CHAIN ANALYSIS

- 4.1 Application Security Testing software and Tools Value Chain Analysis
- 4.2 Midstream Market Analysis
- 4.3 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Application Security Testing software and Tools Market Porter's Five Forces Analysis

6 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Application Security Testing software and Tools Market by Type (2020-2025)
- 6.3 Global Application Security Testing software and Tools Market Size Growth Rate by Type (2021-2025)

7 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Application Security Testing software and Tools Market Size (M USD) by Application (2020-2025)

7.3 Global Application Security Testing software and Tools Market Size Growth Rate by Application (2021-2025)

8 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET SEGMENTATION BY REGION

8.1 Global Application Security Testing software and Tools Market Size by Region

8.1.1 Global Application Security Testing software and Tools Market Size by Region

8.1.2 Global Application Security Testing software and Tools Market Size Market Share by Region

8.2 North America

8.2.1 North America Application Security Testing software and Tools Market Size by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Application Security Testing software and Tools Market Size by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Spain

8.4 Asia Pacific

8.4.1 Asia Pacific Application Security Testing software and Tools Market Size by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Application Security Testing software and Tools Market Size by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Application Security Testing software and Tools Market Size by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 Veracode

9.1.1 Veracode Basic Information

9.1.2 Veracode Application Security Testing software and Tools Product Overview

9.1.3 Veracode Application Security Testing software and Tools Product Market Performance

9.1.4 Veracode SWOT Analysis

9.1.5 Veracode Business Overview

9.1.6 Veracode Recent Developments

9.2 Checkmarx

9.2.1 Checkmarx Basic Information

9.2.2 Checkmarx Application Security Testing software and Tools Product Overview

9.2.3 Checkmarx Application Security Testing software and Tools Product Market Performance

9.2.4 Checkmarx SWOT Analysis

9.2.5 Checkmarx Business Overview

9.2.6 Checkmarx Recent Developments

9.3 PortSwigger

9.3.1 PortSwigger Basic Information

9.3.2 PortSwigger Application Security Testing software and Tools Product Overview

9.3.3 PortSwigger Application Security Testing software and Tools Product Market Performance

9.3.4 PortSwigger SWOT Analysis

9.3.5 PortSwigger Business Overview

9.3.6 PortSwigger Recent Developments

9.4 Micro Focus

9.4.1 Micro Focus Basic Information

9.4.2 Micro Focus Application Security Testing software and Tools Product Overview

9.4.3 Micro Focus Application Security Testing software and Tools Product Market

Performance

9.4.4 Micro Focus Business Overview

9.4.5 Micro Focus Recent Developments

9.5 Qualys

9.5.1 Qualys Basic Information

9.5.2 Qualys Application Security Testing software and Tools Product Overview

9.5.3 Qualys Application Security Testing software and Tools Product Market

Performance

9.5.4 Qualys Business Overview

9.5.5 Qualys Recent Developments

9.6 Invicti Security

9.6.1 Invicti Security Basic Information

9.6.2 Invicti Security Application Security Testing software and Tools Product

Overview

9.6.3 Invicti Security Application Security Testing software and Tools Product Market

Performance

9.6.4 Invicti Security Business Overview

9.6.5 Invicti Security Recent Developments

9.7 Contrast Security

9.7.1 Contrast Security Basic Information

9.7.2 Contrast Security Application Security Testing software and Tools Product

Overview

9.7.3 Contrast Security Application Security Testing software and Tools Product

Market Performance

9.7.4 Contrast Security Business Overview

9.7.5 Contrast Security Recent Developments

9.8 Rapid7

9.8.1 Rapid7 Basic Information

9.8.2 Rapid7 Application Security Testing software and Tools Product Overview

9.8.3 Rapid7 Application Security Testing software and Tools Product Market

Performance

9.8.4 Rapid7 Business Overview

9.8.5 Rapid7 Recent Developments

9.9 HCL Software

9.9.1 HCL Software Basic Information

9.9.2 HCL Software Application Security Testing software and Tools Product Overview

9.9.3 HCL Software Application Security Testing software and Tools Product Market

Performance

9.9.4 HCL Software Business Overview

9.9.5 HCL Software Recent Developments

9.10 GitLab

9.10.1 GitLab Basic Information

9.10.2 GitLab Application Security Testing software and Tools Product Overview

9.10.3 GitLab Application Security Testing software and Tools Product Market

Performance

9.10.4 GitLab Business Overview

9.10.5 GitLab Recent Developments

9.11 Synopsys

9.11.1 Synopsys Basic Information

9.11.2 Synopsys Application Security Testing software and Tools Product Overview

9.11.3 Synopsys Application Security Testing software and Tools Product Market

Performance

9.11.4 Synopsys Business Overview

9.11.5 Synopsys Recent Developments

9.12 CAST

9.12.1 CAST Basic Information

9.12.2 CAST Application Security Testing software and Tools Product Overview

9.12.3 CAST Application Security Testing software and Tools Product Market

Performance

9.12.4 CAST Business Overview

9.12.5 CAST Recent Developments

9.13 Onapsis

9.13.1 Onapsis Basic Information

9.13.2 Onapsis Application Security Testing software and Tools Product Overview

9.13.3 Onapsis Application Security Testing software and Tools Product Market

Performance

9.13.4 Onapsis Business Overview

9.13.5 Onapsis Recent Developments

9.14 Perforce

9.14.1 Perforce Basic Information

9.14.2 Perforce Application Security Testing software and Tools Product Overview

9.14.3 Perforce Application Security Testing software and Tools Product Market

Performance

9.14.4 Perforce Business Overview

9.14.5 Perforce Recent Developments

9.15 Data Theorem

9.15.1 Data Theorem Basic Information

9.15.2 Data Theorem Application Security Testing software and Tools Product

Overview

9.15.3 Data Theorem Application Security Testing software and Tools Product Market Performance

9.15.4 Data Theorem Business Overview

9.15.5 Data Theorem Recent Developments

9.16 Parasoft

9.16.1 Parasoft Basic Information

9.16.2 Parasoft Application Security Testing software and Tools Product Overview

9.16.3 Parasoft Application Security Testing software and Tools Product Market Performance

9.16.4 Parasoft Business Overview

9.16.5 Parasoft Recent Developments

9.17 Akamai

9.17.1 Akamai Basic Information

9.17.2 Akamai Application Security Testing software and Tools Product Overview

9.17.3 Akamai Application Security Testing software and Tools Product Market Performance

9.17.4 Akamai Business Overview

9.17.5 Akamai Recent Developments

9.18 Kiuwan (Idera)

9.18.1 Kiuwan (Idera) Basic Information

9.18.2 Kiuwan (Idera) Application Security Testing software and Tools Product Overview

9.18.3 Kiuwan (Idera) Application Security Testing software and Tools Product Market Performance

9.18.4 Kiuwan (Idera) Business Overview

9.18.5 Kiuwan (Idera) Recent Developments

9.19 ImmuniWeb

9.19.1 ImmuniWeb Basic Information

9.19.2 ImmuniWeb Application Security Testing software and Tools Product Overview

9.19.3 ImmuniWeb Application Security Testing software and Tools Product Market Performance

9.19.4 ImmuniWeb Business Overview

9.19.5 ImmuniWeb Recent Developments

9.20 Appknox

9.20.1 Appknox Basic Information

9.20.2 Appknox Application Security Testing software and Tools Product Overview

9.20.3 Appknox Application Security Testing software and Tools Product Market Performance

- 9.20.4 Appknox Business Overview
- 9.20.5 Appknox Recent Developments
- 9.21 Fluid Attacks
 - 9.21.1 Fluid Attacks Basic Information
 - 9.21.2 Fluid Attacks Application Security Testing software and Tools Product Overview
 - 9.21.3 Fluid Attacks Application Security Testing software and Tools Product Market Performance
 - 9.21.4 Fluid Attacks Business Overview
 - 9.21.5 Fluid Attacks Recent Developments
- 9.22 Black Duck
 - 9.22.1 Black Duck Basic Information
 - 9.22.2 Black Duck Application Security Testing software and Tools Product Overview
 - 9.22.3 Black Duck Application Security Testing software and Tools Product Market Performance
 - 9.22.4 Black Duck Business Overview
 - 9.22.5 Black Duck Recent Developments
- 9.23 OpenText
 - 9.23.1 OpenText Basic Information
 - 9.23.2 OpenText Application Security Testing software and Tools Product Overview
 - 9.23.3 OpenText Application Security Testing software and Tools Product Market Performance
 - 9.23.4 OpenText Business Overview
 - 9.23.5 OpenText Recent Developments
- 9.24 Snyk
 - 9.24.1 Snyk Basic Information
 - 9.24.2 Snyk Application Security Testing software and Tools Product Overview
 - 9.24.3 Snyk Application Security Testing software and Tools Product Market Performance
 - 9.24.4 Snyk Business Overview
 - 9.24.5 Snyk Recent Developments
- 9.25 SonarSource
 - 9.25.1 SonarSource Basic Information
 - 9.25.2 SonarSource Application Security Testing software and Tools Product Overview
 - 9.25.3 SonarSource Application Security Testing software and Tools Product Market Performance
 - 9.25.4 SonarSource Business Overview
 - 9.25.5 SonarSource Recent Developments

10 APPLICATION SECURITY TESTING SOFTWARE AND TOOLS MARKET

FORECAST BY REGION

10.1 Global Application Security Testing software and Tools Market Size Forecast

10.2 Global Application Security Testing software and Tools Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe Application Security Testing software and Tools Market Size Forecast by Country

10.2.3 Asia Pacific Application Security Testing software and Tools Market Size Forecast by Region

10.2.4 South America Application Security Testing software and Tools Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Sales of Application Security Testing software and Tools by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

11.1 Global Application Security Testing software and Tools Market Forecast by Type (2026-2035)

11.1.1 Global Application Security Testing software and Tools Market Size Forecast by Type (2026-2035)

11.2 Global Application Security Testing software and Tools Market Forecast by Application (2026-2035)

11.2.1 Global Application Security Testing software and Tools Market Size (M USD) Forecast by Application (2026-2035)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Application Security Testing software and Tools Market Size by Type (M USD)

Table 4. Global Application Security Testing software and Tools Market Size by Application

Table 5. Application Security Testing software and Tools Market Size Comparison by Region (M USD)

Table 6. Global Application Security Testing software and Tools Revenue (M USD) by Company (2020-2025)

Table 7. Global Application Security Testing software and Tools Revenue Share by Company (2020-2025)

Table 8. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Application Security Testing software and Tools as of 2025)

Table 9. Headquarters, Areas Served, and Product Types of Major Players

Table 10. Product Type of Major Players

Table 11. Global Application Security Testing software and Tools Company Market Concentration Ratio (CR5 and HHI)

Table 12. Mergers & Acquisitions, Expansion Plans

Table 13. Midstream Market Analysis

Table 14. Downstream Customer Analysis

Table 15. Key Development Trends

Table 16. Driving Factors

Table 17. Application Security Testing software and Tools Market Challenges

Table 18. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 19. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 20. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 21. Global Application Security Testing software and Tools Market Size by Type (M USD)

Table 22. Global Application Security Testing software and Tools Market Size (M USD) by Type (2020-2025)

Table 23. Global Application Security Testing software and Tools Market Share by Type (2020-2025)

Table 24. Global Application Security Testing software and Tools Market Size Growth Rate by Type (2021-2025)

Table 25. Global Application Security Testing software and Tools Market Size by Application

Table 26. Global Application Security Testing software and Tools Market Size by Application (2020-2025) & (M USD)

Table 27. Global Application Security Testing software and Tools Market Share by Application (2020-2025)

Table 28. Global Application Security Testing software and Tools Market Size Growth Rate by Application (2021-2025)

Table 29. Global Application Security Testing software and Tools Market Size by Region (2020-2025) & (M USD)

Table 30. Global Application Security Testing software and Tools Market Size Market Share by Region (2020-2025)

Table 31. North America Application Security Testing software and Tools Market Size by Country (2020-2025) & (M USD)

Table 32. Europe Application Security Testing software and Tools Market Size by Country (2020-2025) & (M USD)

Table 33. Asia Pacific Application Security Testing software and Tools Market Size by Region (2020-2025) & (M USD)

Table 34. South America Application Security Testing software and Tools Market Size by Country (2020-2025) & (M USD)

Table 35. Middle East and Africa Application Security Testing software and Tools Market Size by Region (2020-2025) & (M USD)

Table 36. Veracode Basic Information

Table 37. Veracode Application Security Testing software and Tools Product Overview

Table 38. Veracode Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 39. Veracode SWOT Analysis

Table 40. Veracode Business Overview

Table 41. Veracode Recent Developments

Table 42. Checkmarx Basic Information

Table 43. Checkmarx Application Security Testing software and Tools Product Overview

Table 44. Checkmarx Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 45. Checkmarx SWOT Analysis

Table 46. Checkmarx Business Overview

Table 47. Checkmarx Recent Developments

Table 48. PortSwigger Basic Information

Table 49. PortSwigger Application Security Testing software and Tools Product

Overview

Table 50. PortSwigger Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 51. PortSwigger SWOT Analysis

Table 52. PortSwigger Business Overview

Table 53. PortSwigger Recent Developments

Table 54. Micro Focus Basic Information

Table 55. Micro Focus Application Security Testing software and Tools Product Overview

Table 56. Micro Focus Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 57. Micro Focus Business Overview

Table 58. Micro Focus Recent Developments

Table 59. Qualys Basic Information

Table 60. Qualys Application Security Testing software and Tools Product Overview

Table 61. Qualys Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 62. Qualys Business Overview

Table 63. Qualys Recent Developments

Table 64. Invicti Security Basic Information

Table 65. Invicti Security Application Security Testing software and Tools Product Overview

Table 66. Invicti Security Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 67. Invicti Security Business Overview

Table 68. Invicti Security Recent Developments

Table 69. Contrast Security Basic Information

Table 70. Contrast Security Application Security Testing software and Tools Product Overview

Table 71. Contrast Security Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 72. Contrast Security Business Overview

Table 73. Contrast Security Recent Developments

Table 74. Rapid7 Basic Information

Table 75. Rapid7 Application Security Testing software and Tools Product Overview

Table 76. Rapid7 Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 77. Rapid7 Business Overview

Table 78. Rapid7 Recent Developments

Table 79. HCL Software Basic Information
Table 80. HCL Software Application Security Testing software and Tools Product Overview
Table 81. HCL Software Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)
Table 82. HCL Software Business Overview
Table 83. HCL Software Recent Developments
Table 84. GitLab Basic Information
Table 85. GitLab Application Security Testing software and Tools Product Overview
Table 86. GitLab Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)
Table 87. GitLab Business Overview
Table 88. GitLab Recent Developments
Table 89. Synopsys Basic Information
Table 90. Synopsys Application Security Testing software and Tools Product Overview
Table 91. Synopsys Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)
Table 92. Synopsys Business Overview
Table 93. Synopsys Recent Developments
Table 94. CAST Basic Information
Table 95. CAST Application Security Testing software and Tools Product Overview
Table 96. CAST Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)
Table 97. CAST Business Overview
Table 98. CAST Recent Developments
Table 99. Onapsis Basic Information
Table 100. Onapsis Application Security Testing software and Tools Product Overview
Table 101. Onapsis Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)
Table 102. Onapsis Business Overview
Table 103. Onapsis Recent Developments
Table 104. Perforce Basic Information
Table 105. Perforce Application Security Testing software and Tools Product Overview
Table 106. Perforce Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)
Table 107. Perforce Business Overview
Table 108. Perforce Recent Developments
Table 109. Data Theorem Basic Information
Table 110. Data Theorem Application Security Testing software and Tools Product

Overview

Table 111. Data Theorem Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 112. Data Theorem Business Overview

Table 113. Data Theorem Recent Developments

Table 114. Parasoft Basic Information

Table 115. Parasoft Application Security Testing software and Tools Product Overview

Table 116. Parasoft Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 117. Parasoft Business Overview

Table 118. Parasoft Recent Developments

Table 119. Akamai Basic Information

Table 120. Akamai Application Security Testing software and Tools Product Overview

Table 121. Akamai Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 122. Akamai Business Overview

Table 123. Akamai Recent Developments

Table 124. Kiuwan (Idera) Basic Information

Table 125. Kiuwan (Idera) Application Security Testing software and Tools Product Overview

Table 126. Kiuwan (Idera) Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 127. Kiuwan (Idera) Business Overview

Table 128. Kiuwan (Idera) Recent Developments

Table 129. ImmuniWeb Basic Information

Table 130. ImmuniWeb Application Security Testing software and Tools Product Overview

Table 131. ImmuniWeb Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 132. ImmuniWeb Business Overview

Table 133. ImmuniWeb Recent Developments

Table 134. Appknox Basic Information

Table 135. Appknox Application Security Testing software and Tools Product Overview

Table 136. Appknox Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 137. Appknox Business Overview

Table 138. Appknox Recent Developments

Table 139. Fluid Attacks Basic Information

Table 140. Fluid Attacks Application Security Testing software and Tools Product

Overview

Table 141. Fluid Attacks Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 142. Fluid Attacks Business Overview

Table 143. Fluid Attacks Recent Developments

Table 144. Black Duck Basic Information

Table 145. Black Duck Application Security Testing software and Tools Product Overview

Table 146. Black Duck Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 147. Black Duck Business Overview

Table 148. Black Duck Recent Developments

Table 149. OpenText Basic Information

Table 150. OpenText Application Security Testing software and Tools Product Overview

Table 151. OpenText Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 152. OpenText Business Overview

Table 153. OpenText Recent Developments

Table 154. Snyk Basic Information

Table 155. Snyk Application Security Testing software and Tools Product Overview

Table 156. Snyk Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 157. Snyk Business Overview

Table 158. Snyk Recent Developments

Table 159. SonarSource Basic Information

Table 160. SonarSource Application Security Testing software and Tools Product Overview

Table 161. SonarSource Application Security Testing software and Tools Revenue (M USD) and Gross Margin (2020-2025)

Table 162. SonarSource Business Overview

Table 163. SonarSource Recent Developments

Table 164. Global Application Security Testing software and Tools Market Size Forecast by Region (2026-2035) & (M USD)

Table 165. North America Application Security Testing software and Tools Market Size Forecast by Country (2026-2035) & (M USD)

Table 166. Europe Application Security Testing software and Tools Market Size Forecast by Country (2026-2035) & (M USD)

Table 167. Asia Pacific Application Security Testing software and Tools Market Size Forecast by Region (2026-2035) & (M USD)

Table 168. South America Application Security Testing software and Tools Market Size Forecast by Country (2026-2035) & (M USD)

Table 169. Middle East and Africa Application Security Testing software and Tools Market Size Forecast by Country (2026-2035) & (M USD)

Table 170. Global Application Security Testing software and Tools Market Size Forecast by Type (2026-2035) & (M USD)

Table 171. Global Application Security Testing software and Tools Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Industry Chain of Application Security Testing software and Tools

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Application Security Testing software and Tools Market Size (M USD), 2025-2035

Figure 5. Global Application Security Testing software and Tools Market Size (M USD) (2020-2035)

Figure 6. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 8. Evaluation Matrix of Regional Market Development Potential

Figure 9. Application Security Testing software and Tools Market Size by Country (M USD)

Figure 10. Company Assessment Quadrant

Figure 11. Global Application Security Testing software and Tools Product Life Cycle

Figure 12. Global Application Security Testing software and Tools Revenue Share by Company in 2025

Figure 13. Application Security Testing software and Tools Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 14. The Global 5 and 10 Largest Players: Market Share by Application Security Testing software and Tools Revenue in 2025

Figure 15. Value Chain Map of Application Security Testing software and Tools

Figure 16. Global Application Security Testing software and Tools Market PEST Analysis

Figure 17. Global Application Security Testing software and Tools Market Porter's Five Forces Analysis

Figure 18. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 19. Global Application Security Testing software and Tools Market Share by Type

Figure 20. Market Share of Application Security Testing software and Tools by Type (2020-2025)

Figure 21. Global Application Security Testing software and Tools Market Size Growth Rate by Type (2021-2025)

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global Application Security Testing software and Tools Market Share by Application

Figure 24. Global Application Security Testing software and Tools Market Share by Application (2020-2025)

Figure 25. Global Application Security Testing software and Tools Market Share by Application in 2024

Figure 26. Global Application Security Testing software and Tools Market Size Growth Rate by Application (2021-2025)

Figure 27. Global Application Security Testing software and Tools Market Size Market Share by Region (2020-2025)

Figure 28. North America Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 29. North America Application Security Testing software and Tools Market Size Market Share by Country in 2024

Figure 30. U.S. Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 31. Canada Application Security Testing software and Tools Market Size (M USD) and Growth Rate (2020-2025)

Figure 32. Mexico Application Security Testing software and Tools Market Size (M USD) and Growth Rate (2020-2025)

Figure 33. Europe Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 34. Europe Application Security Testing software and Tools Market Share by Country in 2024

Figure 35. Germany Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 36. France Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 37. U.K. Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 38. Italy Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 39. Spain Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 40. Asia Pacific Application Security Testing software and Tools Market Size and Growth Rate (M USD)

Figure 41. Asia Pacific Application Security Testing software and Tools Market Size Market Share by Region in 2024

Figure 42. China Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 43. Japan Application Security Testing software and Tools Market Size and

Growth Rate (2020-2025) & (M USD)

Figure 44. South Korea Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 45. India Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 46. Southeast Asia Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. South America Application Security Testing software and Tools Market Size and Growth Rate (M USD)

Figure 48. South America Application Security Testing software and Tools Market Size Market Share by Country in 2024

Figure 49. Brazil Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 50. Argentina Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 51. Columbia Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 52. Middle East and Africa Application Security Testing software and Tools Market Size and Growth Rate (M USD)

Figure 53. Middle East and Africa Application Security Testing software and Tools Market Size Market Share by Region in 2024

Figure 54. Saudi Arabia Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 55. UAE Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 56. Egypt Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. Nigeria Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 58. South Africa Application Security Testing software and Tools Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. Global Application Security Testing software and Tools Market Size Forecast by Value (2020-2035) & (M USD)

Figure 60. Global Application Security Testing software and Tools Market Share Forecast by Type (2026-2035)

Figure 61. Global Application Security Testing software and Tools Market Share Forecast by Application (2026-2035)

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