

Cloud Infrastructure Automation Software Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Code To Automation, Management And Optimization), By Deployment Model (Cloud, On-Premises), By Application

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Abstracts

The Cloud Infrastructure Automation Software Market is valued at USD 2.6 billion in 2025 and is projected to grow at a CAGR of 13% to reach USD 7.8 billion by 2034. The cloud infrastructure automation software market is experiencing strong growth as organizations increasingly rely on automated tools to manage complex cloud environments. This market includes solutions that streamline the provisioning, configuration, and maintenance of cloud infrastructure, reducing manual interventions and improving operational efficiency. By leveraging automation software, businesses can scale resources on-demand, enforce consistent configurations, and ensure better compliance with policies and standards. As cloud adoption continues to grow, particularly with hybrid and multi-cloud strategies, the demand for automation tools that simplify and optimize cloud operations has become a critical component of enterprise IT strategies. Key trends in this market include the integration of artificial intelligence (AI) and machine learning (ML) into cloud automation tools. These technologies enable predictive analytics, proactive troubleshooting, and intelligent resource allocation, helping businesses to prevent performance issues and minimize downtime. Another trend is the rise of Infrastructure as Code (IaC), which allows IT teams to define and manage infrastructure configurations using code, ensuring consistency and simplifying deployments. Additionally, as organizations embrace DevOps and continuous integration/continuous deployment (CI/CD) practices, cloud automation solutions are evolving to support faster application delivery cycles and more efficient use of cloud resources. Despite its promising growth, the market faces challenges such as ensuring data security, managing the complexity of multi-cloud environments, and navigating

vendor lock-in concerns. While automation reduces manual workloads, businesses must carefully plan and test their automation scripts and configurations to avoid unintended consequences. Furthermore, ensuring seamless integration with existing IT systems and maintaining compliance with regulatory standards can be complex. However, as cloud providers and third-party vendors continue to enhance their offerings and provide more user-friendly solutions, the cloud infrastructure automation software market is poised to expand further, helping organizations streamline operations, reduce costs, and achieve greater agility in the cloud.

Key Insights Cloud Infrastructure Automation Software Market

Increased use of AI and ML for predictive analytics and intelligent resource allocation.

Rising adoption of Infrastructure as Code (IaC) for consistent and repeatable deployments.

Growing integration with DevOps and CI/CD pipelines to accelerate application delivery.

Enhanced focus on policy-driven automation for improved compliance and governance.

Development of multi-cloud automation tools to manage resources across multiple platforms.

Rapid growth of cloud adoption, driving demand for efficient and scalable management solutions.

Need to reduce manual intervention and human error in cloud operations.

Advancements in cloud technologies enabling more sophisticated automation capabilities.

Increasing adoption of DevOps practices, emphasizing faster deployment and continuous delivery.

Ensuring data security and compliance in automated cloud environments.

Managing complexity and avoiding vendor lock-in in multi-cloud scenarios.

Testing and validating automation scripts to prevent configuration errors.

Cloud Infrastructure Automation Software Market Segmentation

By Type

Code To Automation

Management And Optimization

By Deployment Model

Cloud

On-Premises

By Application

Developers

Architects

DevOps Teams

Key Companies Analysed

Amazon.com Inc.

Alphabet Inc.

Microsoft Corporation

Alibaba Group Holding Limited

International Business Machines Corporation

Cisco Systems Inc.

Oracle Corporation

SAP SE

Salesforce Inc.

NEC Corporation

Adobe Inc.

VMware Inc.

ServiceNow Inc.

Workday Inc.

Red Hat Inc.

OpenText Corporation

Citrix Systems Inc.

Rackspace Technology Inc.

Lumen Technologies Inc.

Progress Software Corporation

HashiCorp Inc.

Canonical Ltd.

Puppet Inc.

Qualisystems Ltd.

Nerdio

CFEngine AS

SaltStack Inc.

Cloud Infrastructure Automation Software Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Cloud Infrastructure Automation Software Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Cloud Infrastructure Automation Software market data and outlook to 2034

United States

Canada

Mexico

Europe — Cloud Infrastructure Automation Software market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Cloud Infrastructure Automation Software market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Cloud Infrastructure Automation Software market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Cloud Infrastructure Automation Software market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Cloud Infrastructure Automation Software value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Cloud Infrastructure Automation Software industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Cloud Infrastructure Automation Software Market Report

Global Cloud Infrastructure Automation Software market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Cloud Infrastructure Automation Software trade, costs, and supply chains

Cloud Infrastructure Automation Software market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Cloud Infrastructure Automation Software market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Cloud Infrastructure Automation Software market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Cloud Infrastructure Automation Software supply chain analysis

Cloud Infrastructure Automation Software trade analysis, Cloud Infrastructure Automation Software market price analysis, and Cloud Infrastructure Automation Software supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Cloud Infrastructure Automation Software market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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