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IT Infrastructure Automation Market Forecasts to 2034 – Global Analysis By Component (Infrastructure Automation Software, Configuration Management Tools, Network Automation Solutions, Monitoring and Analytics Platforms and Other Components), Infrastructure Type, Deployment Mode, Application, End User and Geography

https://marketpublishers.com/r/I1B347FD3281EN.html
Date: June 2026
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: I1B347FD3281EN

Abstracts

According to Stratistics MRC, the Global IT Infrastructure Automation Market is accounted for $18.5 billion in 2026 and is expected to reach $52.0 billion by 2034 growing at a CAGR of 13.8% during the forecast period. IT infrastructure automation refers to the use of software tools, scripts, and intelligent management platforms to automate the deployment, configuration, monitoring, and maintenance of IT systems and infrastructure. These automated processes reduce manual intervention in tasks such as server provisioning, network management, cloud orchestration, security updates, and backup operations. Infrastructure automation improves operational efficiency, scalability, reliability, and system consistency while reducing downtime and human error. It plays a critical role in modern cloud computing, DevOps, and hybrid IT environments. Increasing digital transformation and complex IT ecosystems are driving adoption of infrastructure automation solutions globally.

Market Dynamics:

Driver:

Rising demand for operational efficiency

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Organizations are seeking to automate repetitive infrastructure management tasks to reduce manual intervention and improve system performance. Automated provisioning and configuration tools are helping IT teams manage complex environments more effectively. Businesses are also focusing on minimizing operational downtime and resource wastage. Growing dependence on cloud computing is increasing the need for automated infrastructure management. In addition, enterprises are prioritizing faster service delivery and improved scalability. These factors are collectively driving market growth.

Restraint:

High implementation and migration costs

Deployment often requires upgrading existing infrastructure and integrating multiple software platforms. Migration from legacy systems can be time-consuming and resource intensive. Organizations may also incur additional expenses related to employee training and system customization. Budget constraints are particularly impactful for small and medium-sized enterprises. Long return-on-investment periods can delay adoption decisions. These financial barriers continue to restrain market expansion.

Opportunity:

AI-driven infrastructure management solutions

Artificial intelligence enables predictive monitoring, intelligent resource allocation, and automated issue resolution across IT environments. This is driving AI-driven infrastructure management solutions as enterprises increasingly deploy machine learning-based operations platforms, predictive maintenance systems, and intelligent workload optimization tools to improve infrastructure reliability, reduce operational complexity, and enhance overall IT performance across hybrid and multi-cloud environments globally. Real-time analytics capabilities are further improving decision-making processes. Growing demand for autonomous IT operations is accelerating adoption.

Threat:

Rapid infrastructure technology evolution

Continuous advancements in cloud platforms, virtualization technologies, and IT

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architectures require frequent updates to automation frameworks. Existing systems may quickly become outdated if not regularly upgraded. Organizations often face compatibility issues when integrating new technologies into established environments. Vendors must continuously invest in innovation to maintain relevance. These factors increase operational complexity and long-term maintenance costs. As a result, technology evolution remains a significant market challenge.

Covid-19 Impact:

The COVID-19 pandemic accelerated the need for automated IT infrastructure management as organizations shifted toward remote and hybrid work models. Demand for cloud-based services increased substantially during the period. IT teams relied on automation tools to maintain system performance and ensure business continuity. Remote monitoring and automated incident response capabilities gained significant importance. Enterprises also accelerated digital transformation initiatives to support changing operational requirements. Post-pandemic, automation remains a strategic priority for infrastructure management.

The data center automation systems segment is expected to be the largest during the forecast period

The data center automation systems segment is expected to account for the largest market share during the forecast period as data centers require continuous monitoring, resource optimization, and automated workload management to maintain operational efficiency and service reliability. Automation solutions help reduce manual administration while improving infrastructure utilization. Increasing growth of cloud services is supporting segment demand. Large enterprises are investing heavily in automated data center operations. Scalability requirements are further strengthening adoption.

The monitoring and analytics platforms segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the monitoring and analytics platforms segment is predicted to witness the highest growth rate due to increasing demand for real-time visibility into infrastructure performance, resource utilization, and operational risks across complex IT environments. This is driving monitoring and analytics platforms segment growth as organizations increasingly implement predictive monitoring solutions, AI-powered analytics engines, and intelligent performance management platforms to optimize

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infrastructure operations, improve service availability, and enhance decision-making across modern enterprise IT ecosystems globally. Growing adoption of hybrid cloud environments is further supporting demand.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to early implementation of advanced IT automation solutions. The region hosts a large concentration of enterprise technology providers and cloud service operators. Continuous investment in digital transformation initiatives supports market expansion. High demand for efficient IT operations further strengthens adoption. Advanced technological infrastructure enables faster deployment of automation platforms. These factors reinforce North America's leading market position.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by expanding cloud infrastructure investments, and growing enterprise adoption of automation technologies across emerging economies. Increasing deployment of data centers is creating strong demand for infrastructure automation solutions. Businesses are modernizing IT environments to improve operational efficiency and scalability. Government-led digital transformation initiatives are supporting technology adoption. Rising investments in cloud computing and telecommunications infrastructure are further accelerating growth.

Key players in the market

Some of the key players in IT Infrastructure Automation Market include IBM Corporation, Microsoft Corporation, Oracle Corporation, Red Hat Inc., BMC Software Inc., ServiceNow Inc., Cisco Systems Inc., HPE Corporation, VMware LLC, Dell Technologies Inc., Amazon Web Services Inc., Google LLC, Broadcom Inc., Puppet Inc. and HashiCorp Inc.

Key Developments:

In October 2025, VMware LLC reported a major software expansion for its VMware Aria automation suite, introducing native multi-cloud governance and declarative provisioning templates tailored for complex sovereign cloud environments. This structural rollout provides global enterprise customers with strict policy-driven control

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over their distributed private and public cloud clusters, automating infrastructure compliance checks and workload placements to satisfy evolving international data security regulations.

In February 2025, IBM Corporation officially finalized its landmark $6.4 billion acquisition of HashiCorp Inc. at $35 per share in cash, absorbing the company's industry-standard infrastructure-as-code and secrets management portfolios. This massive consolidation move establishes a comprehensive, end-to-end hybrid cloud automation platform by combining HashiCorp’s Terraform and Vault systems with IBM’s existing enterprise software infrastructure, aiming to address the scaling demands of a multi-cloud corporate ecosystem.

Components Covered:

- Infrastructure Automation Software
- Configuration Management Tools
- Network Automation Solutions
- Monitoring and Analytics Platforms
- Other Components

Infrastructure Types Covered:

- Server Infrastructure Automation Systems
- Network Infrastructure Automation Systems
- Data Center Automation Systems
- Cloud Infrastructure Automation Systems
- Other Infrastructure Types

Deployment Modes Covered:

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On-Premise Deployment

Cloud-Based Deployment

Applications Covered:

Provisioning Automation Applications

Configuration Management Applications

Workload Scheduling Applications

Incident Response Applications

Other Applications

End Users Covered:

Information Technology Service Providers

Telecommunication Companies

Banking and Financial Institutions

Government Organizations

Other End Users

Regions Covered:

North America

United States

Canada

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- Mexico

Europe

- United Kingdom
- Germany
- France
- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia

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- Thailand
- Malaysia
- Singapore
- Vietnam
- Rest of Asia Pacific

South America

- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East

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- Africa
  - South Africa
  - Egypt
  - Morocco
  - Rest of Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

- Company Profiling
  - Comprehensive profiling of additional market players (up to 3)
  - SWOT Analysis of key players (up to 3)
- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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