

# **Cloud Computing in Healthcare Market Forecasts to 2034 – Global Analysis By Service Model (Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)), Deployment Model, Component, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Cloud Computing in Healthcare Market is accounted for \$39.6 billion in 2026 and is expected to reach \$149.2 billion by 2034, growing at a CAGR of 18.1% during the forecast period. Cloud Computing in Healthcare refers to the deployment of scalable, on-demand computing infrastructure, platforms, and software services for storing, managing, analyzing, and sharing health data across clinical, administrative, and research functions. It enables healthcare organizations to reduce IT capital expenditure, enhance data interoperability, and support advanced analytics through IaaS, PaaS, and SaaS models.

### **Market Dynamics:**

Driver:

Accelerating adoption of electronic health records and interoperability mandates

Regulatory requirements mandating electronic health record adoption and health information exchange, such as the 21st Century Cures Act in the United States and the European Health Data Space initiative, are compelling healthcare organizations to migrate data management infrastructure to cloud platforms. Cloud-based EHR and clinical information systems offer scalable storage, seamless multi-site access, and

reduced maintenance overhead compared to legacy on-premises systems. As interoperability standards like HL7 FHIR become widely adopted, cloud architectures are increasingly positioned as the preferred foundation for building connected healthcare ecosystems across payers, providers, and pharmaceutical stakeholders.

#### Restraint:

##### Data security concerns and regulatory compliance complexity across jurisdictions

The healthcare cloud market faces persistent headwinds from concerns around patient data security, breach liability, and multi-jurisdictional regulatory compliance. Healthcare organizations operating across borders must simultaneously comply with HIPAA in the United States, GDPR in Europe, and varying national data sovereignty laws, each imposing distinct requirements on data residency, access controls, and audit trails. High-profile healthcare data breaches have elevated board-level scrutiny of cloud adoption decisions. Many smaller healthcare providers lack the internal expertise to evaluate cloud vendor security architectures adequately, creating adoption hesitancy that slows migration timelines and constrains market penetration among community hospitals and independent practices.

#### Opportunity:

##### Growth of AI-driven clinical decision support and healthcare analytics on cloud platforms

The convergence of cloud scalability with artificial intelligence and machine learning capabilities is creating transformative opportunities in healthcare analytics, diagnostics, and personalized medicine. Cloud-hosted AI platforms enable healthcare organizations to train and deploy predictive models for disease risk stratification, readmission prevention, and imaging analysis without substantial on-premises infrastructure investment. Pharmaceutical companies are leveraging cloud-based data lakes for real-world evidence generation and accelerated drug discovery workflows. As AI regulatory frameworks mature, cloud providers offering pre-validated, healthcare-specific AI services are positioned to capture significant value from the growing demand for intelligent clinical decision support solutions.

#### Threat:

##### Vendor concentration risk and escalating cloud infrastructure costs

The healthcare cloud market is dominated by a small number of hyperscale providers, creating significant vendor dependency risks for healthcare organizations that migrate critical workloads. Multi-year contractual lock-in, proprietary data formats, and the complexity of cloud-to-cloud migration make it operationally and financially challenging for healthcare organizations to switch providers. Escalating costs associated with data egress fees, storage scaling, and premium support services are eroding projected cost savings, particularly for data-intensive imaging and genomics workloads. Additionally, service outages at major cloud providers have demonstrated that even brief disruptions can have serious consequences for clinical operations and patient care continuity.

#### Covid-19 Impact:

The COVID-19 pandemic served as a powerful catalyst for cloud adoption in healthcare, compressing years of planned digital transformation into months. Surging demand for telehealth services, remote patient monitoring, and rapid data sharing between public health agencies necessitated scalable cloud infrastructure that on-premises systems could not accommodate. Cloud platforms enabled swift deployment of pandemic tracking dashboards, vaccine management systems, and clinical trial data repositories. Post-pandemic, healthcare organizations that experienced the agility benefits of cloud infrastructure have maintained elevated investment levels, viewing cloud not merely as an IT cost optimization tool but as a strategic enabler of healthcare resilience and innovation.

The software as a service segment is expected to be the largest during the forecast period

The software as a service segment is expected to account for the largest market share during the forecast period, driven by the widespread adoption of cloud-hosted EHR systems, telehealth platforms, revenue cycle management solutions, and healthcare analytics applications. SaaS offerings eliminate upfront software licensing costs and reduce IT management burdens, making them particularly attractive to hospitals, clinics, and payers seeking to modernize clinical and administrative operations without large capital commitments. Continuous feature updates, vendor-managed compliance support, and subscription-based pricing models further reinforce the dominance of the SaaS delivery model across all healthcare organization sizes and geographies.

The platform as a service segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the platform as a service segment is predicted to witness the highest growth rate, fueled by escalating demand for cloud-native application development environments tailored to healthcare use cases. PaaS enables healthcare innovators and digital health startups to build, test, and deploy clinical applications and AI models without managing underlying infrastructure. Major cloud providers are expanding their healthcare-specific PaaS offerings with pre-built FHIR APIs, de-identification tools, and compliance-ready development environments. As digital health application development accelerates globally, PaaS adoption is expected to surge among pharmaceutical companies, health systems, and health-tech firms pursuing rapid innovation cycles.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest market share, driven by the region's mature health information technology ecosystem and well-established cloud service provider presence. The United States accounts for the majority of regional revenues, driven by large-scale EHR cloud migrations, expanding telehealth adoption, and significant federal investment in health data interoperability. A highly developed payer network with sophisticated data analytics requirements creates consistent demand for enterprise cloud platforms. Canada's growing digital health strategy further contributes to regional market strength, reinforcing North America's leadership across all cloud service model categories.

### **Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by rapid digitization of healthcare systems, growing government investment in national health information networks, and the expanding presence of global cloud hyperscalers in regional data centers. India, China, Japan, and South Korea are at the forefront of healthcare cloud adoption, with national digital health missions promoting interoperable EHR platforms and telemedicine infrastructure. The region's large population base, combined with rising healthcare spending and increasing smartphone penetration, positions Asia Pacific as the most dynamic growth frontier for cloud computing in healthcare.

### **Key players in the market**

Some of the key players in Cloud Computing in Healthcare Market include Amazon Web Services Inc., Microsoft Corporation, Google LLC, Oracle Corporation, IBM

Corporation, Salesforce Inc., Siemens Healthineers AG, Dell Technologies Inc., VMware Inc., athenahealth Inc., Epic Systems Corporation, eClinicalWorks LLC, CareCloud Inc., Koninklijke Philips N.V., and NTT DATA Corporation.

### **Key Developments:**

In February 2026, Microsoft Corporation announced a major expansion of its Azure Health Data Services platform, introducing enhanced FHIR R4 capabilities and new AI-powered clinical analytics modules designed for large health systems. The update also includes expanded data sovereignty features to support healthcare customers in Asia Pacific and European markets subject to strict national data residency regulations.

In January 2026, Amazon Web Services Inc. announced the launch of a dedicated healthcare AI accelerator program offering pre-configured cloud environments, de-identified health data sets, and compliance-ready machine learning pipelines to pharmaceutical companies and digital health developers. The program targets accelerating AI model development for clinical decision support and population health management applications on AWS infrastructure.

### **Service Models Covered:**

Infrastructure as a Service (IaaS)

Platform as a Service (PaaS)

Software as a Service (SaaS)

### **Deployment Models Covered:**

Public Cloud

Private Cloud

Hybrid Cloud

Community Cloud

### Components Covered:

Hardware

Software

Services

### Applications Covered:

Clinical Information Systems

Non-Clinical Information Systems

Telemedicine

Digital Health & Mobile Health

Medical Imaging & PACS

Data Storage & Backup

Healthcare Analytics

Patient Engagement Solutions

Population Health Management

### End Users Covered:

Hospitals & Health Systems

Clinics & Physician Practices

Healthcare Payers

Pharmaceutical & Biotechnology Companies

Diagnostic & Imaging Centers

Research & Academic Institutes

Contract Research Organizations (CROs)

Regions Covered:

North America

United States

Canada

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

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

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)

### Competitive Benchmarking

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

## Contents

### **1 EXECUTIVE SUMMARY**

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

### **2 RESEARCH FRAMEWORK**

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
  - 2.4.1 Data Collection (Primary and Secondary)
  - 2.4.2 Data Modeling and Estimation Techniques
  - 2.4.3 Data Validation and Triangulation
  - 2.4.4 Analytical and Forecasting Approach

### **3 MARKET DYNAMICS AND TREND ANALYSIS**

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

### **4 COMPETITIVE AND STRATEGIC ASSESSMENT**

- 4.1 Porter's Five Forces Analysis
  - 4.1.1 Supplier Bargaining Power
  - 4.1.2 Buyer Bargaining Power
  - 4.1.3 Threat of Substitutes
  - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

## **5 GLOBAL CLOUD COMPUTING IN HEALTHCARE MARKET, BY SERVICE MODEL**

- 5.1 Infrastructure as a Service (IaaS)
- 5.2 Platform as a Service (PaaS)
- 5.3 Software as a Service (SaaS)

## **6 GLOBAL CLOUD COMPUTING IN HEALTHCARE MARKET, BY DEPLOYMENT MODEL**

- 6.1 Public Cloud
- 6.2 Private Cloud
- 6.3 Hybrid Cloud
- 6.4 Community Cloud

## **7 GLOBAL CLOUD COMPUTING IN HEALTHCARE MARKET, BY COMPONENT**

- 7.1 Hardware
- 7.2 Software
  - 7.2.1 Electronic Health Record (EHR) Solutions
  - 7.2.2 Telehealth & Remote Monitoring Software
  - 7.2.3 Revenue Cycle Management Software
  - 7.2.4 Clinical Information Systems
  - 7.2.5 Healthcare Analytics Platforms
  - 7.2.6 Medical Imaging Information Systems
- 7.3 Services

## **8 GLOBAL CLOUD COMPUTING IN HEALTHCARE MARKET, BY APPLICATION**

- 8.1 Clinical Information Systems
- 8.2 Non-Clinical Information Systems
- 8.3 Telemedicine
- 8.4 Digital Health & Mobile Health
- 8.5 Medical Imaging & PACS
- 8.6 Data Storage & Backup
- 8.7 Healthcare Analytics

- 8.8 Patient Engagement Solutions
- 8.9 Population Health Management

## **9 GLOBAL CLOUD COMPUTING IN HEALTHCARE MARKET, BY END USER**

- 9.1 Hospitals & Health Systems
- 9.2 Clinics & Physician Practices
- 9.3 Healthcare Payers
- 9.4 Pharmaceutical & Biotechnology Companies
- 9.5 Diagnostic & Imaging Centers
- 9.6 Research & Academic Institutes
- 9.7 Contract Research Organizations (CROs)

## **10 GLOBAL CLOUD COMPUTING IN HEALTHCARE MARKET, BY GEOGRAPHY**

- 10.1 North America
  - 10.1.1 United States
  - 10.1.2 Canada
  - 10.1.3 Mexico
- 10.2 Europe
  - 10.2.1 United Kingdom
  - 10.2.2 Germany
  - 10.2.3 France
  - 10.2.4 Italy
  - 10.2.5 Spain
  - 10.2.6 Netherlands
  - 10.2.7 Belgium
  - 10.2.8 Sweden
  - 10.2.9 Switzerland
  - 10.2.10 Poland
  - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
  - 10.3.1 China
  - 10.3.2 Japan
  - 10.3.3 India
  - 10.3.4 South Korea
  - 10.3.5 Australia
  - 10.3.6 Indonesia
  - 10.3.7 Thailand

- 10.3.8 Malaysia
- 10.3.9 Singapore
- 10.3.10 Vietnam
- 10.3.11 Rest of Asia Pacific
- 10.4 South America
  - 10.4.1 Brazil
  - 10.4.2 Argentina
  - 10.4.3 Colombia
  - 10.4.4 Chile
  - 10.4.5 Peru
  - 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
  - 10.5.1 Middle East
    - 10.5.1.1 Saudi Arabia
    - 10.5.1.2 United Arab Emirates
    - 10.5.1.3 Qatar
    - 10.5.1.4 Israel
    - 10.5.1.5 Rest of Middle East
  - 10.5.2 Africa
    - 10.5.2.1 South Africa
    - 10.5.2.2 Egypt
    - 10.5.2.3 Morocco
    - 10.5.2.4 Rest of Africa

## **11 STRATEGIC MARKET INTELLIGENCE**

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

## **12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES**

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

## 13 COMPANY PROFILES

13.1 Amazon Web Services, Inc.

13.2 Microsoft Corporation

13.3 Google LLC

13.4 Oracle Corporation

13.5 IBM Corporation

13.6 Salesforce, Inc.

13.7 Siemens Healthineers AG

13.8 Dell Technologies Inc.

13.9 VMware, Inc.

13.10 athenahealth, Inc.

13.11 Epic Systems Corporation

13.12 eClinicalWorks LLC

13.13 CareCloud, Inc.

13.14 Koninklijke Philips N.V.

13.15 NTT DATA Corporation

## List Of Tables

### LIST OF TABLES

Table 1 Global Cloud Computing in Healthcare Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Cloud Computing in Healthcare Market Outlook, By Service Model (2023-2034) (\$MN)

Table 3 Global Cloud Computing in Healthcare Market Outlook, By Infrastructure as a Service (IaaS) (2023-2034) (\$MN)

Table 4 Global Cloud Computing in Healthcare Market Outlook, By Platform as a Service (PaaS) (2023-2034) (\$MN)

Table 5 Global Cloud Computing in Healthcare Market Outlook, By Software as a Service (SaaS) (2023-2034) (\$MN)

Table 6 Global Cloud Computing in Healthcare Market Outlook, By Deployment Model (2023-2034) (\$MN)

Table 7 Global Cloud Computing in Healthcare Market Outlook, By Public Cloud (2023-2034) (\$MN)

Table 8 Global Cloud Computing in Healthcare Market Outlook, By Private Cloud (2023-2034) (\$MN)

Table 9 Global Cloud Computing in Healthcare Market Outlook, By Hybrid Cloud (2023-2034) (\$MN)

Table 10 Global Cloud Computing in Healthcare Market Outlook, By Community Cloud (2023-2034) (\$MN)

Table 11 Global Cloud Computing in Healthcare Market Outlook, By Component (2023-2034) (\$MN)

Table 12 Global Cloud Computing in Healthcare Market Outlook, By Hardware (2023-2034) (\$MN)

Table 13 Global Cloud Computing in Healthcare Market Outlook, By Software (2023-2034) (\$MN)

Table 14 Global Cloud Computing in Healthcare Market Outlook, By Electronic Health Record (EHR) Solutions (2023-2034) (\$MN)

Table 15 Global Cloud Computing in Healthcare Market Outlook, By Telehealth & Remote Monitoring Software (2023-2034) (\$MN)

Table 16 Global Cloud Computing in Healthcare Market Outlook, By Revenue Cycle Management Software (2023-2034) (\$MN)

Table 17 Global Cloud Computing in Healthcare Market Outlook, By Clinical Information Systems (2023-2034) (\$MN)

Table 18 Global Cloud Computing in Healthcare Market Outlook, By Healthcare

Analytics Platforms (2023-2034) (\$MN)

Table 19 Global Cloud Computing in Healthcare Market Outlook, By Medical Imaging Information Systems (2023-2034) (\$MN)

Table 20 Global Cloud Computing in Healthcare Market Outlook, By Services (2023-2034) (\$MN)

Table 21 Global Cloud Computing in Healthcare Market Outlook, By Application (2023-2034) (\$MN)

Table 22 Global Cloud Computing in Healthcare Market Outlook, By Clinical Information Systems (2023-2034) (\$MN)

Table 23 Global Cloud Computing in Healthcare Market Outlook, By Non-Clinical Information Systems (2023-2034) (\$MN)

Table 24 Global Cloud Computing in Healthcare Market Outlook, By Telemedicine (2023-2034) (\$MN)

Table 25 Global Cloud Computing in Healthcare Market Outlook, By Digital Health & Mobile Health (2023-2034) (\$MN)

Table 26 Global Cloud Computing in Healthcare Market Outlook, By Medical Imaging & PACS (2023-2034) (\$MN)

Table 27 Global Cloud Computing in Healthcare Market Outlook, By Data Storage & Backup (2023-2034) (\$MN)

Table 28 Global Cloud Computing in Healthcare Market Outlook, By Healthcare Analytics (2023-2034) (\$MN)

Table 29 Global Cloud Computing in Healthcare Market Outlook, By Patient Engagement Solutions (2023-2034) (\$MN)

Table 30 Global Cloud Computing in Healthcare Market Outlook, By Population Health Management (2023-2034) (\$MN)

Table 31 Global Cloud Computing in Healthcare Market Outlook, By End User (2023-2034) (\$MN)

Table 32 Global Cloud Computing in Healthcare Market Outlook, By Hospitals & Health Systems (2023-2034) (\$MN)

Table 33 Global Cloud Computing in Healthcare Market Outlook, By Clinics & Physician Practices (2023-2034) (\$MN)

Table 34 Global Cloud Computing in Healthcare Market Outlook, By Healthcare Payers (2023-2034) (\$MN)

Table 35 Global Cloud Computing in Healthcare Market Outlook, By Pharmaceutical & Biotechnology Companies (2023-2034) (\$MN)

Table 36 Global Cloud Computing in Healthcare Market Outlook, By Diagnostic & Imaging Centers (2023-2034) (\$MN)

Table 37 Global Cloud Computing in Healthcare Market Outlook, By Research & Academic Institutes (2023-2034) (\$MN)

Table 38 Global Cloud Computing in Healthcare Market Outlook, By Contract Research Organizations (CROs) (2023-2034) (\$MN)

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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