Healthcare Cloud Computing - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-07-01 | 130 pages | Mordor Intelligence

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Report description:

Healthcare Cloud Computing Market Analysis

The Healthcare Cloud Computing market size reached USD 54.69 billion in 2025 and is forecast to grow to USD 93.41 billion by 2030, reflecting an 11.3% CAGR. The expansion is propelled by health systems shifting away from legacy servers toward scalable, AI-ready cloud platforms that can handle real-time analytics, genomic workloads, and telehealth traffic. Regulatory pushes for data sharing, notably the EU's Health Data Space rules, add urgency to modernize infrastructure, while the end of data-egress charges at the largest hyperscale providers improves total cost of ownership. Hospitals gain from cloud elasticity during seasonal surges, and payers lower claims adjudication costs by running revenue-cycle automation in multicloud environments. Clinicians increasingly rely on cloud-based AI for radiology triage and ambient documentation, which drives incremental demand for high-performance computing capacity.

Global Healthcare Cloud Computing Market Trends and Insights

Increased Adoption of IT Across Healthcare Settings

Hospitals, clinics, and diagnostic networks now treat digital transformation as a core strategic lever rather than a crisis response. Modern cloud platforms replace aging on-premise data centers, bringing built-in redundancy, instant provisioning, and automated patching that small provider IT teams could rarely support. Pandemic-era investments in telehealth evolved into full-scale virtual-care ecosystems that depend on scalable video, storage, and AI triage running in the cloud. Health systems restructure

clinical workflows around real-time dashboards, IoMT device feeds, and predictive models that surface sepsis or deterioration alerts at the bedside. Smaller rural hospitals use multitenant SaaS EHRs to access decision-support tools that once required academic-center budgets. Integrated delivery networks pursue common data fabrics so that clinicians see unified longitudinal records during cross-facility consults.

Cost-Saving and Scalability Advantages of Cloud

Removing capital-intensive hardware refresh cycles and shifting to pay-as-you-go compute reduces budget pressure in a period of margin contraction for US hospitals. The major hyperscale providers canceled egress fees in 2024, lowering multicloud exit barriers and giving CIOs stronger negotiating leverage. Elastic infrastructure absorbs traffic spikes during mass vaccination drives or claims-submission peaks without overprovisioning. Outsourced patching, backup, and high-availability architecture free internal staff for higher-value data-science work. Payers cut adjudication turnaround when cloud-native rules engines process tens of thousands of claims per minute, leading to faster member reimbursements. Cloud cost savings also manifest in energy reduction and data-center real-estate divestments, which align with provider sustainability objectives.

Data-Security and Integrity Concerns

Cyberattacks against hospitals surged, with ransomware crews targeting misconfigured object storage and unpatched APIs. Breaches trigger HIPAA fines, class-action lawsuits, and board-level scrutiny, prompting security audits before cloud migration approvals. CIOs wrestle with the shared-responsibility model and sometimes underestimate their role in hardening identity management, logging, and encryption. Insurance premiums spike after large breaches, adding hidden costs to transformation budgets. Regulators respond with tighter audit trails and incident-reporting timelines, increasing compliance overhead for smaller community providers that lack dedicated cybersecurity talent.

Other drivers and restraints analyzed in the detailed report include:

Easier Access to Advanced Analytics and ML Tools / FHIR-Based API Push Enabling Cloud-Native Interoperability / Lack of Interoperability and Standards /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Clinical Information Systems represented nearly half of total 2024 spending, reflecting the centrality of EHR, PACS, and radiology workflows to patient safety. The Healthcare Cloud Computing market size for clinical workloads benefited from federal stimulus that required certified EHR technology and set quality-reporting thresholds. Cloud-hosted EHRs provide instant upgrades and integrated clinical-decision plugins, improving physician satisfaction scores. Imaging departments route CT and MR studies to cloud AI services that flag critical findings, cutting turnaround times.

Non-clinical applications expand as finance departments seek cloud-based revenue-cycle analytics that cut denial rates. Health systems deploy SaaS billing platforms that scale during open enrollment, ensuring claims adjudication keeps pace with member growth. HR teams use cloud scheduling and payroll engines to manage traveling nurses and remote coders with geofenced compliance. Predictive supply-chain dashboards in the Healthcare Cloud Computing market forecast drug shortages and optimize just-in-time inventory, freeing cash for clinical programs.

Private Cloud maintains majority share because many providers place PHI-heavy workloads in single-tenant environments with hardware-level isolation. Institutions running genomic research clusters or intensive care telemetry choose dedicated

infrastructure to meet sovereign-data rules. Customizable firewalls and on-premise adjunct nodes let CISOs enforce granular policies.

Public Cloud accelerates fastest after providers grow confident in HITRUST, GDPR, and HDS certifications offered by hyperscalers. The removal of egress fees and arrival of confidential-computing chipsets ease vendor-lock concerns. Many IDNs adopt a hybrid pattern: surgical video and telemetry stream into local private clouds for low latency, while anonymized research datasets replicate to public clouds for AI model training. This balanced approach keeps critical workloads close while exploiting hyperscale economics for secondary analytics.

The Healthcare Cloud Computing Market Report is Segmented by Application (Clinical Information Systems, Non-Clinical Information Systems), Deployment (Private Cloud, Public Cloud, and Hybrid Cloud), Service (Software-As-A-Service (SaaS), and More), End User (Healthcare Providers and Healthcare Payers), and Geography (North America, Europe, Asia-Pacific, and More). The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

North America's 48.75% share reflects long-standing EHR mandates and the presence of all top hyperscalers with healthcare-focused compliance toolkits. US health systems increasingly shift disaster-recovery to the cloud, freeing on-premise floor space for revenue-generating clinical units. Canadian provinces deploy centralized imaging archives on sovereign hyperscale regions to support teleradiology across vast distances.

Europe benefits from the European Health Data Space Regulation, which prescribes interoperable standards and patient access rights. Cloud providers respond by opening additional EU-based availability zones certified to C5 and GDPR codes, allowing hospitals to consolidate silos without breaching residency laws. German public-private consortiums pilot FHIR-based cancer registries hosted in private clouds that federate across Lander, improving research data depth. Scandinavian systems leverage high renewable-energy grids to power carbon-neutral cloud data centers that align with national climate targets.

Asia-Pacific registers the fastest 19.45% CAGR due to rising healthcare spend and smartphone penetration. India's national ABDM digital-health stack rides on domestic cloud exchanges that enable small clinics to issue interoperable electronic health records. In Southeast Asia, private hospital chains launch virtual-first insurance plans that rely on public cloud tele-consult engines. Australia's My Health Record integrates lab and imaging results via cloud FHIR services, raising data completeness and patient engagement. Regional unevenness persists though, as bandwidth constraints in rural Indonesia and data-localization rules in China shape bespoke deployment topologies.

List of Companies Covered in this Report:

Amazon Web Services (AWS) / Microsoft / IBM / Google Cloud / Oracle / Dell Technologies / Siemens Healthineers / Koninklijke Philips / ClearDATA / athenahealth / CareCloud / ZYMR / OSP Labs / Euris / Google Cloud (Alphabet) / Salesforce / SAP / Cisco Systems / Medidata Solutions /

Additional Benefits:

 The market estimate (ME) sheet in Excel format /
3 months of analyst support /

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