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Oracle Cloud Infrastructure (OCI) for Healthcare



Healthcare challenges in the modern digital world

Since the start of the digital age, technology has evolved to increase the value of healthcare. Electronic health records (EHRs), electronic medical records (EMRs), Internet of Things devices, and digital monitoring have increased accessibility while improving transparency. However, numerous logistical challenges remain.

Disparate and siloed data sources

Providers, insurers, publicly available information, academic researchers, and hospital departments all provide data that can be consolidated.

Fragmented televisit infrastructure

Televisits have become a key health service, but widespread adoption—beyond simple telephone correspondence—and the development of underlying infrastructure support have both been relatively slow.

Global supply chain

Today obtaining healthcare resources, managing medical supplies, and delivering goods and services to providers and patients all require global orchestration, increasing the need for a single source of truth and greater visibility into the overall supply chain.

Regulatory compliance

The dynamic nature of healthcare regulations creates high stakes for healthcare enterprises, and the industry is becoming more heavily regulated following the COVID-19 pandemic.

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Why choose OCI for healthcare

OCI helps healthcare organizations adapt to modern challenges, from internal operations to patient care. With solutions such as a data lakehouse, artificial intelligence (AI), and machine learning (ML), EHR data is no longer siloed, televisits can be utilized at scale, and organizations can rapidly respond to changes in supply and regulations.



“Though Africa has coped well with COVID-19, it still needs to be part of international efforts to control the disease, including for international travel...requiring the highest quality data system so that everyone’s vaccine experience is recorded. Oracle can provide that system with data securely stored and owned by each country and is prepared to do so as part of a global philanthropic partnership.”

Tony Blair, Tony Blair Institute for Global Change

“Oracle offers excellent performance and have up-to-date hardware and software, excellent technical support, a superior user interface, and priceless flexibility. A typical numerical simulation will take around 30 days with a small computer that already has a GPU. With Oracle, we can do the same simulation in about five days.”

Pablo Galaviz, Children’s Medical Research Institute

Get to know Oracle Cloud Infrastructure

OCI offers a complete range of innovative features and services to meet healthcare needs, including:

Flexible cloud environments

OCI supports public cloud, multicloud, hybrid cloud, and government regions.

Data consolidation

Create a single source of truth by consolidating data into a data warehouse or data lakehouse with near real-time access.

Security

OCI minimizes risk with security that is automated, always on, and built in.

AI and ML capabilities

Automatically identify risks and anomalies to stop problems before they start.

High performance computing (HPC)

HPC supports powerful simulations to improve clinical quality, patient experience, safety, and cost.

How OCI Benefits Healthcare Enterprises



Modernization: OCI consolidates data from disparate sources (for example, insurers, providers, EHRs, and so on) into a data lakehouse, creating a single source of truth. Its underlying infrastructure is future-proof, supporting the continued scaling of telehealth while simplifying logistics for chatbots and intake forms.



Regulatory compliance: OCI connects and consolidates data to stay on top of compliance and regulation changes. OCI participates in leading compliance and audit programs such as HIPAA, GDPR, SOC, HITRUST, and others. AI and ML analysis accelerates data intake and processing to highlight anomalies, noncompliance, and safety signals.



Research: Scientists and providers all over the world collaborate to make new medical discoveries. OCI expedites breakthroughs by consolidating data while providing AI, ML, and analytics tools to process data and generate insights.



Supply chain: By consolidating data from disparate data sources and creating actionable insights, the supplier network can be expanded to maximize the possibilities for lean manufacturing and just-in-time delivery. Tracking and real-time status updates drive agile solutions when disruptions arise.



Custom apps: Many healthcare organizations use custom apps for both internal and patient-facing tools. With low-code and no-code capabilities and a suite of built-in tools, custom apps can quickly be developed for tailor-made data solutions. OCI also supports the migration of legacy custom apps, ensuring continuity across organizational processes while expanding capabilities.



Internal operations: With cloud infrastructure, data is unified in a single source of truth that's accessible to the entire healthcare enterprise, allowing for insights that ultimately impact all departments—from operations and finance to HR. OCI and Oracle's healthcare apps power a central decision-making resource, including business apps, analytics, ERP, HCM, and advertising.

“Oracle helps us manage the Covid-19 healthcare crisis by streamlining data management activities. The dashboard helps our clinical leaders interpret the data so they can make informed decisions about where augmented staff should be deployed to optimize patient care.”

Elina Petrillo, Northwell Health



With Oracle Cloud Infrastructure, healthcare enterprises can improve operational and financial efficiency, supply chain visibility, and patient care.

Learn more about OCI solutions for healthcare.
oracle.com/industries/healthcare/cloud

Start your free trial of OCI today.

oracle.com/cloud/free

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