



NEXGEN CLOUD PLATFORM USES REDHAT OPENSIFT TO MODERNIZE LEGACY SYSTEM

BUSINESS VALUES

- 531% Average 5 Years ROI
- 66% Faster Application Development Lifecycle
- 38% lower cost of IT infrastructure & development platform per application

The client is one of the biggest non-profit healthcare organizations based in the US offering integrated healthcare solutions with patient-focussed & knowledge-driven approaches. Catering to urban, suburban, and rural communities, the customer has a chain of 15 hospitals and a large number of community health centers. Their healthcare services include workplace health, primary care, long-term care, hospice, rehabilitation, community mental health, home health, inpatient & outpatient care, and wellness.



BUSINESS INDUSTRY

HEALTHCARE

MORE THAN

31,510 EMPLOYEES

INTEGRATED BUSINESS BENEFITS

- Boosted app release time from months to days.
- Established scalable & hassle-free governance for multiple applications.
- Strengthen the API security of the legacy system & third-party interoperability.
- Auto-scaled the deployment configuration based on real-time metrics.
- Established a seamless patient care system with integrated flawless operations.
- Simplified and streamlined clinical disruption to offer best-in-class healthcare support.

IMPLEMENTED TECHNOLOGIES

- Redhat OpenShift Platform
- Microsoft Azure
- Spark AL & ML Tool
- Docker
- Terraform
- Datadog
- Nagios
- Jenkins

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PROBLEM OUTLINE:

The client was facing difficulties from the slow speed of a legacy platform where every tool was calling for immediate standardization. The healthcare industry was evolving at a fast pace and the old-school tools were unable to meet the modern-day standards of patient care. Hence, a modernization strategy was an essential call of the hour. The key problem areas were:



OBSOLETE LEGACY SYSTEM

The IT infrastructure was obsolete and creating a hindrance in upscaling the business. It was hard to maintain legacy architecture while using analytics for secure data mining. Moreover, the old IT infrastructure was creating problems in serving the patients seamlessly.



MONOLITH ARCHITECTURE

The client was using monolith architecture for their application development and maintenance. As a result, the client needed to update the whole application for minor changes. It was taking a lot of time and effort.



DATA SECURITY

A large chunk of approximately 28 TB sensitive data was stored in more than 20 data repositories. Such separated data storage was creating serious threats to data security.



SILOED TEAMS

The client was suffering from fragmented data repositories and it was affecting the team collaboration. It was also repeating processes and hampering overall productivity and growth.



POOR GOVERNANCE

With fragmented data storage, it was difficult to trace the data usage and as a result, this was affecting the whole governance.

The client wanted to resolve all these problems at any cost. Hence, we proposed a new-age open-source container application development platform called OpenShift by Redhat. Fundamentally created on Docker containers and orchestrated utilizing Kubernetes for cluster management, OpenShift allows automates installation and upgrade processes of a containerized application with an unbelievably faster software development lifecycle. Being a trusted Redhat partner, we implemented the complete legacy modernization plan via the NexGen Cloud Platform powered by the OpenShift for a continuous delivery process to set a cloud-based infrastructure embedded with microservice architecture for optimum data security and improved scalability.

NEXGEN CLOUD PLATFORM

NexGen Cloud Platform is a new-age cloud computing platform empowered with the OpenShift container orchestration platform by Redhat. This is a cutting-edge enterprise distribution of Kubernetes, an advanced solution for continuous development & multi-tenant deployment. Moreover, it speeds up application development time and offers long term maintenance of team & app life-cycle.

Parkar designed an avant-garde digital transformation platform with modular technologies for a rapid transformation of business models and technology ecosystems.

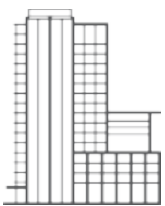
PARKAR SOLUTIONS MODERNIZED THE IT ECOSYSTEM

- **A Sustainable Digital Transformation Platform:** With Redhat OpenShift, we crafted a substantiated digital transformation approach by modernizing the legacy system. We built a modular technology infrastructure to address modern healthcare needs. It has revamped the obsolete healthcare management system with a secure and integrated data repository by protecting sensitive data against any threat or cyber attack.
- **Container Orchestration:** We automated the deployment, scaling, and managing the containerized application of the customer with the Redhat OpenShift platform. Also, we encapsulated applications and enabled rapid deployment and scalability on the Azure cloud.
- **DevOps Implementation:** We implemented DevOps to automate software testing & deployment, track errors, and monitor the overall project. With continuous delivery and continuous integration, software development lifecycle became faster.
- **API Data Store:** Provided storage for runtime metadata related to exposed APIs that support data access
- **Optimized Security:** We encrypted and monitored the internal access to sensitive medical data and infrastructure while allowing trusted external users to securely access this platform. Also, we provided a single data access point and a centralized logging system to manage data requests from external sources.



- **Good Governance:** With digital transformation & legacy system modernization, we were able to create good governance with more synchronized & collaborative teamwork. With a faster & harmonious process, the client was able to manage all operations flawlessly.
- **A Customer-Centric Approach:** We created a customer-centric approach to deliver seamless and high-quality health care. As a result, we simplified clinical disruption and physician-patient communication and enhanced patient care.
- **Intelligent Health Analytics:** We developed AI & ML algorithms to predict intelligently health analytics and personalized services. Our smart solution made it easy to scan the history of each patient with optimum data security. Moreover, we applied AI algorithms especially to analyze a huge amount of data to help the client make insightful decisions.

ABOUT: PARKAR DIGITAL



Parkar Digital, a Gold Certified Microsoft Azure partner, provides technology solutions for Digital Healthcare, Digital Retail & CPG. Our solutions are powered by the Parkar platforms built using Cloud, Opensource and Customer experience technologies. Our goal is to empower a customer-first approach with digital technologies to deliver human-centric solutions for the clients.

