



CASE STUDY | Business Intelligence Technologies

UNLOCKING THE POWER OF CLOUD COMPUTING

3iCare



Business Intelligence Technologies Deploys Appistry CloudIQ Platform to Increase Computing Efficiency for Its 3iCare Health Informatics Solutions

Business Intelligence Technologies

Headquarters

Australia, Suite 7A, 493
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Victoria

Industry

Healthcare & Life sciences

Solution

3iCare Patient Manager and
Scanned Medical Record
software

3iCare Suite & Business Intelligence Technologies Company overview

Business Intelligence Technologies (BIT) delivers integrated platforms for Healthcare, Life Sciences, Telecommunications, Banking / Finance and Retail segments.

3iCare is a Suite of Health Informatics applications comprise of:

- 3iCare PACS – Picture Archival and Communications System
- 3iCare Patient Management System – Patient Information Management System for Hospitals
- 3iCare HIS – Hospital Information System
- 3iCare – Scanned Medical Records

Exchanging patient data in emergency disaster situations in which command & control units and first responders must communicate quickly and effectively even when they each have different data needs and when the data sharing is unreliable.

Running Scanned Medical Record application and point of service function allows for more efficient scanning, storing and managing the patient legacy records by which today's manual records are not often maintained at the point of service

To enable doctors access patient data from across all facilities, thus speeding up treatment and services.

Situation overview

The data generated in healthcare operations are huge, be it patient demographics, clinical investigation or medical images. The power of computing measured in terms of tens of trillions of computations per second is now required to deliver personalized medical information, computational chemistry and biology any time anywhere for a better treatment and better decision making. Providing remote access to imaging data stored locally. Organizations typically don't have the IT staff required to support new technologies.

Challenges

Taking security into account, use cases for the cloud computing architecture include:

- Providing access to browser-based EHRs and EMRs with end-to-end encryption in either:
 - Tightly controlled private clouds
 - Non-private clouds *only if* the patient identifiers are stored in encrypted data files (in the cloud or in local storage).
- Storing de-identified patient data in centralized databases for public access or for restricted access by authorized persons (e.g., for research purposes).
- Storing practice guidelines in public clouds.
- Home monitoring, whereby data from measurement devices are streamed to a provider's private cloud with end-to-end encryption.
- Hosting Web conferences to dispersed audiences.
- Enabling real-time collaboration in private clouds with patient data encrypted end-to-end or in public clouds with de-identified patient data only.

Appistry Solution

After exploring a variety of commercial and open-source offerings, 3iCare team chose Appistry CloudIQ Platform for delivery and management of their cloud-based applications.

The 3iCare team selected Appistry as their cloud management platform because it operates at a level above the underlying cloud infrastructure and provides more flexible configuration options for launching servers. This meant less time devoted to instance administration and configuration and more time on actual research projects.

Benefits the company has seen:

By automating our cloud computing deployments with Appistry, we accomplished our goal to significantly reduce overall administrative and management requirements of our Health informatics research cloud computing resource – and increased the time we devote to Healthcare & pharmacogenomics research projects.

Result

As a result of its Appistry CloudIQ Platform deployment, Business Intelligence Technologies has been able to provide its vendors in scaling up real-time availability of patient information for doctors, nursing staff and other support services not within the state but possibly across various states as medical professionals can access encrypted patient information from any internet enabled device without installing any software. In the scenario of SMR software Patient information are located in the central server and not on the users or computer by increasing its computing power and ensuring information security during transaction.

Patient information and data can be accessed globally and resources can be shared by a group of hospitals rather than each hospital having a separate IT infrastructure.

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