

CASE STUDY

AWS Cloud Migration of a Leading American Medical Equipment Manufacturer

Client

The client is a California-based medical equipment company that provides cloud-connectable medical devices for treating respiratory diseases. During the pandemic, they produced over 150,000 ventilators and bilevel devices to help treat patients' respiratory symptoms. They have 7,500 employees in 140+ countries with manufacturing facilities in Australia, Singapore, France, and the USA.



Challenges



To provide a digital platform to its customers and automate operational design, the client was looking for an AWS expert to migrate its six global Data Centers (DC) to the cloud.



Their first DC in Australia was nearing its end of life, and its ~500 servers (comprising of Windows OS and off-the-shelf products) had to be urgently migrated.

LTIMindtree Solution

To resolve the end-of-life and other licensing challenges, we migrated using the lift-and-shift approach, following best practices per the Well-Architected Review Framework.

- Leveraged the AWS landing zone framework with multiple accounts for shared services, security, and logging. Handled automated environment deployments via cloud formation templates.
- LTIMindtree, with the help of proprietary tools like Rapidadopt and Infinity, came up with an uplift migration strategy. It included the lift-and-shift approach but with optimization on right-sized architectures and the AWS Well-Architected Framework around security, performance, cost, operations, and reliability.
- Solution included a high availability, secure 3-tier AWS architecture deployed on a multi-availability zone using CloudEnsure (a cloud governance platform), and an audit manager to integrate and deploy the Well-Architected Review Framework from day one.

Business Benefits



Achieved 30% reduction in costs by right-sizing operations.



Improved operational efficiency by recommending native monitoring and security tools for easier platform management.



Ensured secure, reliable, and scalable access by leveraging managed tools like App Stream as a client desktop solution.

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