FUJITSU

Digital Health Enterprise Interoperability Platform

Fujitsu led the implementation of a cloud hosted Enterprise Interoperability Platform (EIP) for a large Government agency responsible for the management of the public health system. The EIP enables the accurate and prompt exchange of data between applications used by doctors, nurses and administrative staff in over 180 public hospitals.

Challenge

Fujitsu has a long history of providing technology services and solutions to the Health sector. We couple technical excellence with business and clinical expertise to deliver better outcomes. Fujitsu balances system modernisation with value for money to optimise cloud-based services and legacy applications. In this program, the Government agency had been a national leader in the establishment of digital hospitals and needed to remediate a complex and outdated application integration technology.

Fujitsu identified ...

"the architecture had multiple, bespoke, point-to-point interfaces which no longer met the needs of the users. The volume of data exchange was rising and non-enterprise applications were used with multiple methods of messaging data loads. As system components were approaching end of life, they needed to replace the legacy middleware and transform the exchange of data with a staged approach to ensure continued stability and continuity of services."

Solution

The solution was achieved by combining a proven, health system integration platform with Fujitsu's Cloud Transformation methodology for architecting, designing, building and operating cloud hosted enterprise services.

Fujitsu advised, *"accelerating cloud-native innovation of modern applications and services meant that the Government agency is better able to manage the risks posed by legacy middleware on business operations and workforce mobility."*

For Health services, security and privacy within a cloud environment is imperative. Recognising this vital necessity, Fujitsu used its regional data centre site to create a secure Fujitsu Virtual Private Cloud (FVPC) IaaS to host the EIP. The FVPC provides robust security and strict privacy without compromising scale, speed or functionality.

Fujitsu also used the SAP Toolkit for enterprise resource planning (ERP) integration to HR and Finance system modules from SAP. The SAP Toolkit enabled communication between the EIP and the SAP server by executing Remote Function Calls (RFCs).
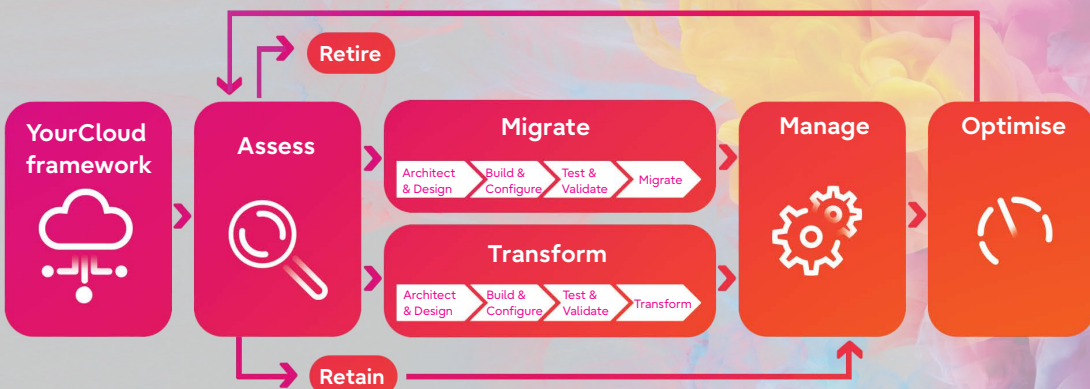
ResultsChain
Building your business case | Forecasting future benefits

Fujitsu Multi-Cloud Transformation - Click to explore

YourCloud framework

Retire

Assess

Migrate
Architect & Design | Build & Configure | Test & Validate | Migrate

Transform
Architect & Design | Build & Configure | Test & Validate | Transform

Retain

Manage

Optimise

YOURCLOUD FRAMEWORK	Assess	Migrate	Transform	Manage	Optimise

YourCloud Framework

- Understand your business challenges, drivers and outcomes and define your cloud strategy using Fujitsu's Results Chain.

- Define a plan to align your business, people and culture, governance platforms, security and service operations to the strategy

Outcomes

The EIP is now used by health services in metropolitan and regional areas to integrate applications and share clinical and operational data, resulting in improved productivity for front-line health workers and better health outcomes for patients.

Fujitsu notes, *"There is now better quality patient information and sharing of patient care insights. Clinical information can be combined with additional data sources such as claims, genomic and consumer data which was previously in the too hard basket."*

The resilience and availability of Fujitsu's cloud-based solution means minimal downtime, so clinicians can access applications and data anywhere, any time with the appropriate security and access prerequisites.

With some applications already in the cloud, the agency benefits from the elastic architecture of multi-cloud, where public, private and hybrid cloud solutions are designed to deliver reliability, security and business agility without compromising value for money.

As the agency's digital transformation evolves, they now have the opportunity to move on-premise applications and platforms to cloud environments, enabling a future-proofed and resilient workforce and patient experience.

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