Building a Robust. Cloud :Based Infrastructure for JA Hyogo with Fujitsu Enterprise Postgres

Case study

JA Hyogo Information Center is working to renew the management and economic system infrastructure for JAs _Japan Agricultural Cooperatives– in the Hyogo Prefecture. to enhance operational reliability and leverage the latest IT technologies

The organization migrated from a traditional on :premises environment to a cloud#housing setup. adopting Fujitsu's OSS :based database Fujitsu Enterprise Postgres. which includes advanced operation and management features

We spoke with project leaders at the company about the background. implementation process. and their experiences after the system went live

Challenge	Value of **Fujitsu Enterprise Postgres**
Improving business continuity	**PostgreSQL designed for hybrid and multi :cloud environments** that meet business critical requirements.
Concerns about response time in case of issues	**True Open standard** ensures stable operations achieved with OSS-based management tools. **24#7 Fujitsu support** included in the annual license.

Renewing JA Hyogo's Management and Economic System

With the Ministry of Agriculture, Forestry and Fisheries' announcement of the *Agriculture DX (Digital Transformation) Concept* in March 2021, the agricultural sector is being called to drive innovation through digital technology. This shift is key to addressing challenges such as labor shortages, insufficent new entratns, and the need to boost competitiveness.

Amid discussions happening at JAs nationwide, JA Hyogo Information Center—which maintains and manages the shared computer system used by JAs across the Hyogo prefecture—began planning a new infrastructure platform.

Background behind the implementation

The focus was the Management and Economic System that supports JA operations: handling the distribution of agricultural and livestock products, procurement of production materials and daily goods, and managing internal operations like accounting and payroll.

> "We had been running this system on-premises, but in recent years, we began considering a **move to the cloud**. This was to **improve business continuity** in the event of a disaster, and to **reduce the burden of daily system maintenance**."
>
> **Project lead**
> JA Hyogo

As cloud use became the central focus for infrastructure, they also re-evaluated their database environment with migration and long-term maintenance in mind. Fujitsu Enterprise Postgres was selected due to its strong track record in data migration and the added benefit of Fujitsu's reliable support—an important factor when using open-source solutions.

Why Fujitsu¡ : Fujitsu delivers a globally proven OSS database solution

Fujitsu Enterprise Postgres is built on PostgreSQL, a widely adopted open-source database, enhanced with enterprise-grade features such as improved security, performance, reliability, and support from Fujitsu.

PostgreSQL is highly compatible with cloud environments and offers the benefits of open-source flexibility and minimal hardware dependence. Its extensive set of interfaces enables easy integration with other OSS tools, supporting data coordination and system expansion.

After Fujitsu conducted a preliminary assessment, the migration project officially began in January 2022.

Given the scale and storage requirements of the system, a hybrid cloud-housing environment was selected—combining cloud capabilities with data center housing. The database server, built with Fujitsu Enterprise Postgres, was deployed within the data center and configured for access via cloud service (see diagram). The business applications remained internally managed, as before.
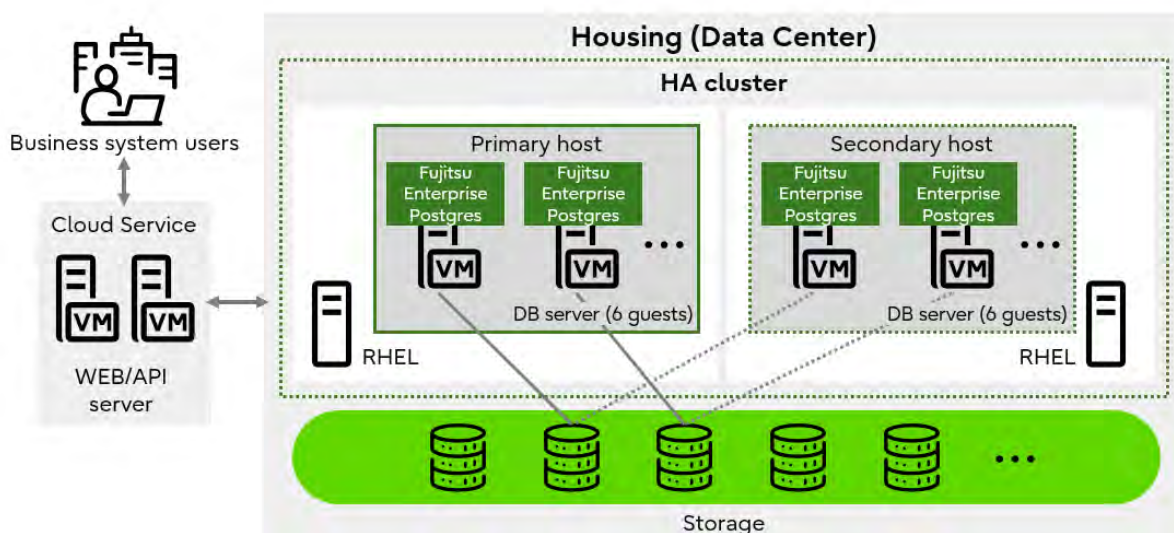
Although the preliminary assessment helped identify and narrow down incompatibilities with the existing environment, the migration process still presented unexpected challenges. These were addressed by reinforcing the migration team and developing new tools as needed.

For data migration, the team evaluated several publicly available open-source tools, as well as custom tools based on those. Through repeated rehearsals, they refined the migration procedure and completed the transition as planned.

Post :implementation insights

About one year after going live, the organization has fully adapted to the new environment, and the system is operating smoothly.

> "The cloud-housing environment has eliminated risks associated with hardware failures and system outages caused by routine infrastructure events such as inspections. We're also able to continue providing 24/7 public services without interruption. **We expect this stability to continue moving forward**."

Benefits and future outlook : stable operation and advanced regional data utilization

JA Hyogo Information Center will continue to operate a secure and reliable management and economic system while embracing cutting-edge technologies such as AI for more sophisticated data usage.

Looking ahead, the organization aims to further develop its systems to support the digital transformation and continued competitiveness of JAs across Hyogo Prefecture.

Why Fujitsu Enterprise Postgres?

PostgreSQL for multi and hybrid cloud

High availability

True Open standard

24 x 7 x 365 supported included in the annual license

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Business summary	Development and operation of information systems for JAs within Hyogo Prefecture.

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