



## Cloud-based IT system for medical service innovation

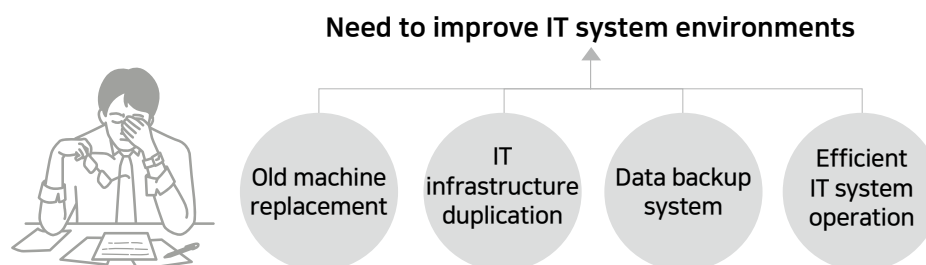
Case of improving availability and reliability of IT infrastructure

### Challenge

Established in 1990, this medical institution provides over 4,000 examination services such as diagnostic medical examination, molecular diagnostic examination and pathological examination to hospitals nationwide.

The foundation had built an integrated information system based on IBM mainframe, but it needed to scale up its system for business expansion. However, it was not easy to update the system to include new medical IT technologies while ensuring reliable operation in the case of failure. An interruption in the examination causes critical loss to the business and therefore the service has to be provided rapidly and reliably 24/7.

The institution wanted to improve its overall IT system by replacing old machines, duplicating IT infrastructure, constructing data backup system and creating large enough architecture to accommodate future business expansion.



### SDS Cloud Service

### SDS Cloud Infrastructure

Samsung SDS provides highly available and secure private cloud service optimized for enterprises.

- High-performance cloud: dedicated resources customized for the consumers
- Strong security system: Maximum reliability by 24X7 security control and real-time monitoring
- Classified operation service for the customer business: Gold, Silver, Bronze+, Bronze
- Operation service differentiated from global CSPs  
: integrated failure management, dedicated technical support, IT infrastructure management, etc.

※ Main Services

- **Compute:** Virtual Server, Container, Bare Metal Server, GPU Server
- **Storage:** Block Storage, File Storage, Object Storage, Backup

- **Network:** CDN, Load Balancer, WAN
- **Security:** Anti-DDoS Monitoring, IDS Monitoring, WAF, Firewall

## Solution

### Improve reliability and availability by duplicated architecture

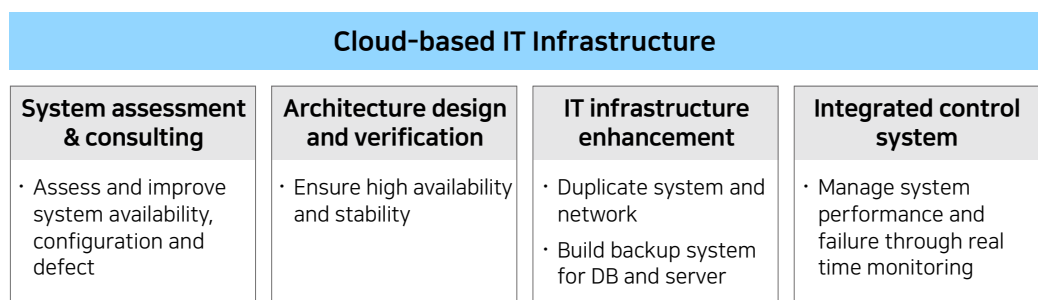
- Supply uninterrupted services even in case of failure through duplicating server, network, and storage
- Distribute traffic through duplicating network and lines during peak times

### Improve data stability by building backup system

- Securely protect patients' medical records with backup system for database and server
- Ensure flexibility of IT infrastructure management through cloud-based virtualization

### Reliable and efficient operations by integrated control system

- Enable quick failure detection and response by monitoring network and IT system in real time
- Easily manage performance and failure for various servers and network devices in a single view



## Benefit



### Improve system stability

- System/DB duplication
- Backup & Disaster Recovery



### Improve operational efficiency

- Integrated control system
- Integrated operation platform



### Ensure business scalability

- Expandable within days
- SDS Cloud service

## Contact Us



To learn more about Samsung SDS Cloud service, please send us an email at [cloud.sds@samsung.com](mailto:cloud.sds@samsung.com) or visit website [www.samsungsds.com](http://www.samsungsds.com).