

“Desktop virtualization enables people in affiliated organizations, as well as Gunsan City Hall, to connect to the cloud PC at any time, from anywhere, to enable efficient work processes, improving productivity.”

Deokha Park, Assistant Manager
Information and Communication Division
Gunsan City Hall

Gunsun City Hall introduced a Fujitsu server and storage VDI platform to enable efficient and flexible anytime, anywhere access while reducing security risks.

At a glance

Country: Republic of Korea
Industry: Local Government
Founded: 1995
Employees: 1,400
Website: www.gunsan.go.kr

Challenge

Gunsun City Hall wanted to replace its PCs with a more cost-effective, secure solution to address the risk of leakage or loss of information due to external hacking, computer viruses and computer failure. The organization had a limited budget and office space so needed a sleek, elegant solution.

Solution

The city chose multiple FUJITSU Server PRIMERGY models running VMware Horizon View VDI solution for the new desktop virtualization project. This now supports 1,800 devices, each of which can securely access critical information regardless of location.

Benefit

- Duplex configuration with redundancy provides stable services while 24/7 monitoring alerts in the event of issues
- 24x365 availability without service interruption as data can be accessed from anywhere at any time
- Productivity of administrative workers has been improved through enhanced communication and collaboration

Customer

Gunsan City is in the northwestern part of Jeollabukdo, Korea, and has a population of around 300,000 people within an area of 681.15 km². New Gunsan-si was founded in 1995 through the integration of Gunsan-si and Okgu-gun as an urban-rural integrated city and has been focusing its resources on the execution of various city projects with the goal of building an 'Economy-Oriented High Standard City of North East Asia'. The city employs a total of 1,400 civil servants.

Products and services

- 4 x FUJITSU Server PRIMERGY BX900 S2
- 36 x FUJITSU Server PRIMERGY BX2560 M2
- 12 x FUJITSU Storage ETERNUS DX200 S3



Challenge

To modernize working practices and help introduce e-government, Gunsan City Hall widely deployed PCs to its workforce. Although these devices improved productivity and the quality of administrative services, they also came with some unexpected issues. Heat, noise, and high utility bills were perhaps unsurprising but the risk of leakage or loss of information also became a serious issue due to external hacking, computer viruses and computer failure.

Moreover, the complex deployment process associated with periodic PC replacement had become burdensome as the scale of the deployment expanded over time. The city wanted to find a smarter way to deliver desktop services without compromising performance or security.

Gunsan City Hall therefore established a basic plan for desktop virtualization with the goal of implementing green IT as part of a low carbon policy and eliminating the side effects of using a PC for administrative works.

"The city had several issues including small office space, a limited budget for PC acquisition and maintenance, and concerns over the risk of hacking and leakage of information stored in individual PCs," explains Deokha Park, Assistant Manager, Information and Communication Division, Gunsan City Hall. "In this situation, the city finally decided to solve all those problems and implement a green IT environment by introducing cloud computing and desktop virtualization technology, which had been highlighted as an advanced technology and was actively supported by the Mayor of Gunsan, Dongshin Moon."

Solution

The first phase started with 100 units in 2010, followed by 400 units in 2011, reinforcement of the central infrastructure in 2012, and 100 units in 2013, was completed for a total of 600 units. About a year later, the second phase of the desktop virtualization project was executed in 2015 for all PCs in Gunsan City Hall (1,700 units including 100 PCs for education), after carefully reviewing ROI achievement.

The new desktop virtualization system consists of hardware including blade racks, blade servers, new storage and the expansion of existing storage. There are also 1,800 units of terminals and monitors, and the introduction of a backbone switch, for virtualization and expansion of the existing backbone switch as well as the service area including virtualized VDI solution and management server.

Gunsan City Hall chose FUJITSU Server PRIMERGY BX900s running VMware Horizon View VDI solution for the second phase new desktop virtualization project. Critically, Fujitsu servers were selected because they satisfied the strict requirements of Gunsan City Hall in terms of high efficiency, low power, small installation area, and high density architecture for minimum service interruption and green IT implementation. They also come with stable and perfect technical support along with a road map for continuous line-up expansion.

The FUJITSU Server PRIMERGY BX900 can accommodate up to 18 blade servers in a single blade chassis and is a highly competitive product in terms of cost efficiency and future expandability as well as system safety through duplex configuration.

Benefit

One of the key goals of the desktop virtualization project is to enable the perfect cloud environment by providing services for an integrated control system of overall information infrastructure, cloud storage, and cloud PC. Additional aspects are the duplex configuration with redundancy that provides stable services and the monitoring system that surveys the entire system 24 hours a day with a notification system that pings the corresponding manager in the event of any trouble.

Using this system, work can be performed efficiently 24x365 without service interruption, as the data and information stored in the cloud storage can be accessed from anywhere and at any time. The productivity of administrative workers has been improved through enhanced communication and collaboration.

The system is also well prepared for various security threats through the application of a consistent security policy to all cloud PCs, while the recovery time for computer trouble has been reduced from three hours to 30 minutes. As a result, the system has improved the convenience for organization members, as well as their level of satisfaction with the infrastructure. And finally, an eco-friendly green IT infrastructure has been promoted by reducing the cost of new PCs and energy for operation, while removing hazardous environmental elements.

"Gunsan City Hall is planning to introduce a mobile platform based on desktop virtualization enabling employees to work even more flexibly," concludes Park. "The city also wants to execute Local Government 3.0 based on the cloud PC environment. The experience gained from this project will be transferred to other local government bodies."

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