FUJITSU

Case study
Guttomat Sektionaltore GmbH

»The price-performance ratio and the quality of the Fujitsu server and storage systems are most outstanding. And the remote maintenance option combined with Microsoft System Center Essentials has convinced us as well. This enables us to manage our entire IT environment from a single console.«

Dipl.-Ing. Nikolaus Kerö, CTO, Guttomat Sektionaltore GmbH

The customer

"Guttomat – the door manufacturer" offers garage doors made in Austria. Guttomat Sektionaltore GmbH is specialized in the manufacture of unique garage doors distinguishing itself from the mass market. www.guttomat.at

The challenge

To modernize outdated hardware in the data center to a virtualized, secure and flexible IT environment. The enhancement of system availability and the remote maintenance option for the servers have represented important requirements as well.

The solution

The complete package comprises Microsoft Hyper-V as virtualization solution, Microsoft System Center Essentials 2010 for the management of the entire IT environment plus Fujitsu server and storage systems.

Garage doors – made in Austria

The endorsement "the door manufacturer" clearly indicates the special claim of Guttomat Sektionaltore GmbH of positioning itself on the market as "small but smart". The 100 percent Austrian company with its headquarters in Güssing (Burgenland) and its 80-strong workforce confidently leaves the mass market to its competitors. "We focus on custom products made of high-quality materials such as aluminum, stainless steel, glass or wood," Nikolaus Kerö, CTO at Guttomat, says, referring to his company's quality principle. Guttomat develops and produces garage doors for private, commercial and industrial purposes. They are marketed in Austria and internationally mainly in the countries adjoining Austria. To be able to mill the customer logo into a door or create new developments such as a door flush with the facade, an invisible door so to speak, they need a powerful IT system. In Kerö's words: "After all, here we work with sophisticated CAD programs which can only run smoothly on a stable, fast-working platform."

Guttomat has invested in virtualization with Microsoft Hyper-V and management based on System Center Essentials 2010

In the data center it looked like a real "uncontrolled growth of servers", according to Nikolaus Kerö. He took over the company in 2005 together with his partner Mag. Thomas Hammer and financial investors. "I wanted to get rid of it and invest in a flexible, state-of-the-art and energy-efficient IT environment." It was quickly clear to the graduate engineer, who had studied chip design among other things at Vienna Technical University, that it would not be enough to modernize the hardware alone. That is why Guttomat has opted for virtualization straight away and for a management solution matched to the needs of small and medium-sized businesses. The concept was developed by the Viennese IT specialist Pommer.Net. It comprises Microsoft Hyper-V as the virtualization solution, Microsoft System Center Essentials 2010 for the management of the complete IT environment and several PRIMERGY servers, in addition to an ETERNUS storage system from Fujitsu. The virtualized environment is designed to cope even with the total failure of a server with no appreciable interruption in operation.

The benefit

- Lower energy costs due to energy-efficient servers
- Easy management of the entire IT environment from a single console
- Fail-safety and flexibility through a virtualized environment
- On the fly expandability of the server and storage capacity

Products and services

- Server: 3 x PRIMERGY RX300 S6, 1 x PRIMERGY RX200, 1 x PRIMERGY TX150
- Storage system: 1 x ETERNUS DX80 FC
- Network connectivity: 2 x Brocade 300 FC-Switch 8 Gb/s
- Virtualization software: Microsoft Windows Server 2008 R2 with Hyper-V
- Management software: Fujitsu ServerView Suite, Microsoft System Center Essentials 2010

All-in-one monitoring

The "brain", so to speak, of the new IT system at Guttomat is Microsoft System Center Essentials 2010. As Heinrich Pommer, CEO of Pommer. Net explains: "This system management solution contains the administration not only for the network but also for the virtualization environment. It is a compact packaged solution for small and medium-sized businesses like Guttomat. You can use it to do everything, from monitoring the server and client infrastructure through software roll-out in the company to the management of the virtual machines – and all from a single console." At Guttomat, Heinrich Pommer created a Microsoft Hyper-V failover cluster from three PRIMERGY RX300 servers and an ETERNUS DX80 storage system on the basis of Windows Server 2008 R2 Enterprise. Besides that, there is also a PRIMERGY RX200 server as a domain controller and a PRIMERGY TX150 server with a tape drive as a backup system. So, thanks to virtualization, it has been possible to consolidate the previous nine servers into five servers. Incidentally, the ServerView server management solution that Fujitsu supplies for the PRIMERGY systems can be integrated seamlessly into Microsoft System Center Essentials.

Uninterruptible migration

"Flexibility and security were the major considerations for us when selecting the new IT environment," Nikolaus Kerö says. "Thanks to virtualization, we can now extend server or storage capacities during ongoing operation. Implementation also went smoothly and completely without interruption. I think that's sensational." There is also another important aspect which is crucial especially for small companies without their own IT department. "We wanted to be able to do as much as possible via remote access. We require not only roll-out of new software but also remote maintenance – and it works great," Nikolaus

Kerö explains. After all, Guttomat has only one IT expert who primarily deals with the client infrastructure but not with the data center. Fujitsu's SELECT partner Pommer.Net in Vienna keeps tabs on the entire data center.

Energy-efficient systems

Economical operation was also a plus factor in favor of Fujitsu. With a power consumption of 280 W the PRIMERGY RX300 S6 servers stand for truly energy-efficient hardware. In the words of Nikolaus Kerö: "We assume that there will be a drastic saving in power costs. The consolidation effect of virtualization lowers the energy consumption substantially anyway and, if the other systems are also particularly energy-efficient, it will pay off twice."

A storage system that grows with you

Two convincing aspects of the Fujitsu ETERNUS storage system, in particular, were its excellent price-performance ratio and the system expandability. Guttomat started with an ETERNUS DX80 model initially with twelve disks, each with 300 GB, meaning a total of 3.6 TB. This system will now grow for quite a while with Guttomat's storage requirement – because the ETERNUS DX80 is scalable up to 120 disk drives with an overall capacity of 240 TB. Incidentally, Guttomat uses the FC variant of the model, i.e. a fiber channel high-speed link with a speed of up to 8 GB per second. At all events, Nikolaus Kerö has taken a great shine to the quality of the hardware:

"As an engineer, I am thrilled by the professionalism of the systems. The design of the servers is very stable, and the arrangement of the components is also convincing. The PRIMECENTER rack is also an example of perfect workmanship – and that's evident not least on the intelligent cable routing."

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