

Bachner Group

Proxmox VE ensures performance and efficiency



The Proxmox VE virtualization solution enables the Bachner Group to achieve a higher degree of sovereignty in the data center. Fsas Technologies was once again able to assert itself as a partner for the implementation with a tailor-made solution.

Challenge

Proxmox VE was the Bachner Group's choice when renewing the existing VMware ESX infrastructure. Together, the aim was to develop an innovative concept with the appropriate configuration for a tailor-made solution.

Solution

Under the virtualization solution Proxmox VE, an extremely high-performance, clustered Ceph storage solution with five PRIMERGY RX2530 M7 was implemented: The core component is a redundantly distributed object storage over any number of servers. The Ceph Storage Cluster network was implemented with direct LAN cabling.

Outcomes

- Development of a high-performance virtualization solution with integrated storage clusters.
- Sovereignty in the data center through open-source software.
- Savings on switch infrastructure and licensing costs.

"With Fsas Technologies, we have a partner at hand who sees individual requirements as an incentive. This customer orientation has once again convinced us."

Christoph Appel, Head of IT System Administration, Bachner Group

The customer

The Bachner Group, headquartered in Mainburg, has been supporting its customers in all areas of electrical engineering for over 100 years. Since the company was founded in 1920, 20 additional locations have been added in Germany, Austria, Mexico and the USA. The Bachner Group offers electrical and energy expertise from a single source and is a competent partner for customers from the industrial sector, the commercial and service sectors as well as the public sector.

Industry:

Energy technology

Location:

Germany, Austria, USA, Mexico

Website:

Bachner.de

Employees:

1,000



Bachner Group once again relies on PRIMERGY

For many years, the Bachner Group has relied on PRIMERGY servers and ETERNUS storage products. Now the existing infrastructure based on VMware ESX was to be replaced with a new solution. The Bachner Group opted for the open-source virtualization solution Proxmox VE with Ceph storage. An intensive evaluation showed that this solution should become the reliable basis of corporate IT. Together with Fsas Technologies, a concept and a tailor-made configuration were developed.

High-performance infrastructure with virtualization and storage clusters

Proxmox VE is an enterprise virtualization solution that combines KVM and container-based virtualization. A central web management interface makes it easy to manage virtual machines, containers, storage and virtual networks, among other things. The cluster consists of five PRIMERGY RX2530 M7 servers, each with 3x 25 GbE quadport LAN cards and 10 NVMe drives for maximum storage performance. The Ceph-Cluster network is characterized by a special feature that illustrates the technical claim of the solution. The servers were directly connected to each other with 2 x 25 GbE DAC cables each. This achieves high-performance and stable communication. In addition, the costs of the LAN switches that would otherwise be required are saved. Furthermore, the NVMe drives ensure the highest storage performance.

Reliability of hardware and support were convincing

The customer orientation and flexibility that the Fsas Technologies team showed when setting up this project was just one of the reasons why the Bachner Group chose Fsas Technologies again. Furthermore, the continuous quality and reliability of the PRIMERGY server systems and the associated management tools as well as the comprehensive Fsas Technologies hardware support and the direct contact persons were convincing. The productive operation of the solution proves that the Bachner Group made the right decision. The IT infrastructure runs very stable and performant. The use of open source software has regained sovereignty in the data center, as vendor lock-in with suddenly changing license terms no longer poses a risk.