VIRTION

50% LOWER TCO, NO SINGLE POINT OF FAILURE AND BLISTERING PERFORMANCE FOR VIRTION GMBH

StorPool
DISTRIBUTED STORAGE

About

virtion GmbH is a German managed services provider.
Part of its portfolio are infrastructure services, server and storage virtualization, application management services data security and support for small and medium sized companies.
Virtion is well-known and trusted on the market due to the quality services offered.
Virtion is considered as a long-term, strategical partner by its customers.

Company: virtion GmbH
Website: www.virtion.de
Industry: Hybrid and Private Cloud Hosting
Facts:
- Trusted vendor, by a wide range of small and medium sized German businesses
- ISO/IEC 27001 certified company
- Innovative and experienced service provider

The Challenge

Virtion needed a solution which could enable them to provide **cost efficient block storage** in their virtualization layers. Their old setups lacked performance and flexibility.
Virtion was searching for a solution, which can be also implemented without any impact on their production environment.

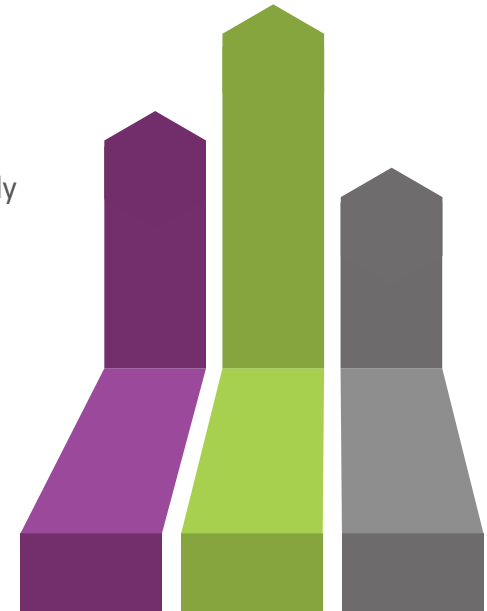
The Criteria

Virtion has had very strict criteria when choosing a storage solution:

- horizontal and vertical scalability
- 100 000+ IOPS per volume
- no single point of failure
- cost efficiency

The Options

Before StorPool, virtion GmbH was using a NFS based solution. Unfortunately it was not scalable enough. Virton had a very strict set of criteria when choosing a replacement of the existing storage solution.
They also did a comparison of the TCO (Total Cost of Ownership) and benefits, which can be delivered by StorPool, CEPH and LizardFS.
However the best price/performance ratio was delivered by StorPool.
According to Michael Kutzner, CEO at virtion GmbH, StorPool was more than 50% better than the second option!



IT Stack

- KVM hypervisors
- Linux on hypervisor nodes
- BSD and Windows in virtual machines
- OpenNebula cloud management
- Inhouse management tools

Storage Solution

- 2 converged setups
- Redundant 10Gbit multipath storage networks
- Samsung SSD drives connected to Avago Raid Controllers
- Brocade based switching infrastructure
- StorPool SSD Hybrid solution
- 200.000 IOPS on a single volume
- 2GB/sec read and write performance per volume (limited by the hardware)

The Advantages

Virtion chose StorPool not just because of the better price/performance ratio, but also because StorPool manged to offer them smooth implementation without an impact on their production environment.

According to Virtion, the biggest advantages of using StorPool are the **high availability** of the system, hardware failure handling and performance. The **OpenNebula integration** and the operation easiness were also crucial.

"With flexibility and professionalism the team helped us to roll out StorPool in a very short time, even though we had special demands. The support is very fast and competent!
MICHAEL KUTZNER, CEO at virtion GmbH

Key Impact

- Volume of single VMs scaling above limits of physical servers
- Lightspeed deployments of new virtual machines
- Highest Availability functionality
- Easy scaling by just adding additional hardware nodes
- Time saving
- Maintaining multiple systems has been eliminated
- High performance
- Solution which enabled Virtion to provide cost-efficient IT solutions

Future Plans

"We plan to build new products based on StorPool! With the upcoming new features we get even more ideas. Also we plan to migrate more and more critical infrastructure to StorPool!
I am convinced that our customers will feel the same advantages we felt from StorPool!", said
MICHAEL KUTZNER, CEO at virtion GmbH

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