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StorPool
DISTRIBUTED STORAGE

Krystal builds an enterprise virtual Infrastructure as a Service platform with StorPool

Success Story

Krystal

Industry
Inormation Technology and Services

Solution
Virtual Infrastructure as a Service Platform with Several High-Performance NVMe Storage Clusters running on StorPool Storage

Technology Stack
- AMD EPYC 2 processors
- KVM
- Katapult
- 50Gbps Network
- StorPool Storage

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About Krystal

Krystal is one of the largest independent UK web hosting companies. Founded in 2002 it has steadily grown over the last 18 years and today supports nearly 30,000 clients who host over 200,000 websites. They offer a comprehensive portfolio of hosting, cloud and VPS services and develop their own software in the UK. They value quality and transparency; characteristics often associated with rare crystals, hence the name.

The Challenge

For the last two years, Krystal has been working on **"Katapult" - a virtual Infrastructure as a Service platform built for extreme performance and simplicity.** Krystal needed a **fast, stable, and scalable alternative to their existing OnApp platform using Integrated Storage**. Integrated Storage while reliable, l**acks instant scalability** (such as instantly resizing virtual drives on demand) or quickly expanding the cluster itself with new physical disks (of any size) without a lot of manual work rebalancing the data. The **performance was also limited** and didn't improve as the cluster grew. The **new storage solution would need to keep the promise of a modern SDS; high availability, extreme performance**, a high level of flexibility and of course, **guaranteed data integrity**.

"Storage forms the bedrock of any cloud platform, so whatever you use has to be bulletproof. At Krystal we've always had a standard rule; buy the very best solution available and sleep well at night! This is especially true when it comes to your clients' data, which is the most important thing we look after."
Simon Blackler, CEO of Krystal.

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The Solution

In their search for a storage platform, Krystal reviewed several SDS options as well as traditional SAN alternatives.

In the end they **selected StorPool because of its high performance, robust API, unique space savings features and the extremely high level of data protection offered from its triple data replication.**

"It is absolutely critical for us that our storage is both 100% reliable and 100% available. And StorPool 100% lives up to that promise!", said Alex Easter, CTO of Krystal.

According to Simon Blackler, CEO of Krystal StorPool combines technical proficiency with passion. That's a rare combination and it's been an absolute pleasure for Krystal to work with StorPool's and get to know the team over the last few years. Simon shared he is very excited about what Krystal and StorPool are going to be able to achieve together in the future .

Key Benefits

- Performance
- Data Security
- Space Savings
- Hardware Savings
- Density Improvements
- Great Support

"StorPool is a scale as you grow system that provides great flexibility, which makes it incredibly attractive. StorPool's storage solution is a vital component of Katapult and gives us the ability to have maximum performance and reliability with no trade-off.",
said Alex Easter, CTO of Krystal.

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Learn more at storpool.com

StorPool Storage is the leading provider of block-level SDS storage on the market. Its enterprise solution is used by public and private cloud builders, enterprises, MSPs, SaaS, hosting and cloud providers. It comes as a software, plus a fully-managed data storage service that transforms commodity hardware into a fast, highly available and scalable shared-storage system.