



Desired outcomes:

- Scalable test/dev environment
- Sandbox with at least 300TB of usable capacity
- High performance to meet the requirements of any tested technology

Case Study: Cloud Backup Provider

Optio Data installed a software-defined storage solution to help the customer efficiently test their technologies in a test/dev environment.

Technologies used in the solution

- Microsoft Storage Spaces Direct
- Dell EMC PowerEdge R730xd Servers
- 40GbE Dell Networking

Problem and Action Taken

A prominent cloud backup provider was looking to architect a solution to help address the needs of their ever-growing test and development environment. This new infrastructure would allow the customer's developers to effectively test new technologies and troubleshoot current issues. The customer was considering a traditional storage solution, but was seeking information on hyper-converged platforms, Microsoft Storage Spaces Direct (S2D) in particular. The customer needed a solution that was cost-effective, could quickly scale up to 600TB with a limited footprint, and deliver high performance.

As an initial step, Optio Data sent over five solution types the customer was looking at for preliminary research. Learning that the customer's environment wasn't large enough to house the competing traditional storage solution, Optio decided that an S2D cluster built on a Dell EMC PowerEdge solution was the best fit, meeting all the customer's requirements. After integration and installation, Optio Data provided knowledge transfer and tested the solution to ensure it was usable and functional.

Customer Result

The cloud backup provider now has a fully-adaptable, resilient, high-performance solution that allows them to stay cutting edge in the market place - all while staying well within budgetary requirements. With S2D, they saw IO performance 10x greater than the traditional primary storage they were considering. Within three months, the client has already tested the scalability and flexibility by expanding the solution to over 600TB of usable storage.