



DataAnalyzer

HIGH-PERFORMANCE
DATA ANALYSIS OF
NETAPP STORAGE SYSTEMS

User departments tend to collect more and more data, which leads to an exponential increase of the demand for storage.

So there are numerous issues and challenges the persons responsible for storage have to face: How will demand for storage develop? How can you ensure that enough storage space is available – at low costs? How can you provide transparent evidence of the user departments' storage requirements and allocate their consumption? Has data been encrypted by ransomware? Which files do you actually use and which not?

Over the years, large amounts of data which have not been accessed for months or even years have accumulated in each storage system. Customer installations have shown that this unused data often utilizes up to 80% of the entire storage space.

It does not make sense to continue purchasing new storage because the respective costs are incurred elsewhere.

Today, a popular argument is that storage is cheap and it is thus inexpensive to buy new disks. But this is only half the truth. New

storage leads to various consequences and costs which are often underestimated:

- More storage means that more time is required for daily back-ups and that more tapes are necessary.
- More storage means that more energy and space are required in the datacenter, which results in additional costs.
- Every 3 years, more storage leads to increased migration costs.
- In the event of a disaster, more storage means that more time is required for restore and recovery processes so that the downtime for business-critical systems increases.

The answer: DataAnalyzer analyses files and cleans up unused storage

DataAnalyzer solves the problem of unused files at its source by evaluating and visualizing data. This reduces storage needs and consequently administration costs. The detailed insight into the NetApp storage systems considers all required metrics: How high is the level of utilisation, broken down by number, size and age of the individual file types? This analysis also distinguishes between files that have not been changed and files that have not been accessed at all.

Highlights

The demand for storage increases exponentially, but still large amounts of data are not used and have not been accessed for months or years.

DataAnalyzer collects data from all NetApp storage systems and visualises the results in Excel.

Thanks to DataAnalyzer valuable storage space can be detected.

This enables IT-departments to find unused files, allocate the costs to the individual departments or customers based on what they use, determine future requirements and identify files encrypted by ransomware.

Only at first glance, purchasing new hard disks appears to be an attractive solution. Actually, large storage capacities lead to increased costs for backups, energy, space or migration and to longer restore processes.

Architecture: DataAnalyzer runs on a separate server that connects to the NetApp storage system.

Via a defined interface, data is collected, consolidated and imported to a database like MSSQL, Oracle or MySQL. The aggregated analyses are visualised in Excel because everybody is familiar with this tool and it is safe and easy to use. You can also display your analyses in PowerPoint or tableau viewer.

Analyses and functions

The default functions deliver the following reports which are mapped as charts in Excel:

- **Number and total storage space of the files by type** (e.g. archive, Office, email, image, multimedia resources etc.).
- **Age of the data structure from days to years, additionally grouped by type.**
- **Unused LUNs and VMDKs (VMware): IT departments often use a server for tests that is uninstalled later on but the respective storage space remains occupied. This function helps you recover valuable storage space.**

User report for internal cost allocation:

In connection with Active Directory, the used storage space can be mapped in detail for each department or customer and charged based on the actual utilisation.

Trend analyses: Information from the past is used to create trends for the future, management reports, planning and budgeting.

Alarm function

At regular intervals (which you can define according to your specific requirements), the proactive Alarm Engine searches for malware that encrypts files by changing their extension. A warning notification via email is triggered automatically.

Search function: The Enterprise Search allows you to find incorrectly stored files within the entire NetApp storage system, for example, by name or storage date.

Additional reports according to your specific criteria can be created with minimum effort.

Benefits

- **Deep insight into the data structure of the NetApp storage system**
- **Reduced storage space saves costs and reduces backup and restore times**
- **Data cleanup to allow you to leverage your data investments more efficiently**
- **Transparent allocation of the monthly, actually used storage capacities by department or customer**
- **Analyses for departments, management, security and compliance**

Pricing and technical specifications

DataAnalyzer follows a tiered pricing model, depending on the number and size of the storage controllers. You can calculate your price on our website under <http://www.prolion.at/en/dataanalyzer.html>. DataAnalyzer is an in-house development by ProLion and we provide 24/7 support. Technical requirements:

ONTAP 7-Mode and cDOT

Database: MSSQL > 2008 R2, Oracle >11, MySQL >5

Host OS: Windows Server as of 2008 R2 preferred

Supports VMware and Hyper-V

Client: Excel on Windows as of Version 2013 Windows

High performance

DataAnalyzer enables you to analyse 10 millions of files per hour per volume. You can multiply this performance by analysing multiple volumes in parallel.

About ProLion

Innovation is the basis upon which we develop our products for you. We are convinced that companies can only achieve long-term success with innovation. We gladly and often go the extra mile for our customers. That means we are here for you, fully available, whenever you need us. A team of experienced experts in storage technologies contribute to ProLion's pool of knowledge which has helped in the development of innovative hardware and software solutions.



Alliance Partner



Visit us at:
www.prolion.at/