



cardtech optimizes Databackup

Automated Backup Solution relieves Personnel and Servers

Case scenario

Initial situation

As a payment service provider cardtech permanently has to process and to backup a huge amount of sensible data. Over time this amount of data as well as the whole IT of the company increased explicitly. The used backup scripts were not sufficient anymore to satisfy the growing requirements. Maintaining different scripts got more and more complex, overview of backups wasn't satisfactory.

Professional data management required programming knowledge and a lot of manual work, leading to an inappropriate demand for personnel engagement.

Challenge

A set of scripts were supposed to be replaced by a powerful open source backup solution. The specific requirements at cardtech were:

- ergonomic support of tape automation
- easy import / export of relevant tapes
- easy to use backup replication in order to store specific backups in different locations
- dedicated email notification after completing replication jobs
- improved support of Microsoft Windows clients
- high level automation instead of manual intervention
- easy and transparent configuration

The Project

The first contact was followed by a half-day joint workshop to evaluate the amount of data, requirements and to [continue on page 2 >>>](#)

Project

Company

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Industry

electronic-cash-Networkprovider

Challenge

The increasing amount of sensible data became uncomfortable to be backed up using the existing backup solution which required a huge maintenance workload. Different scripts made necessary several programming skills and did not support the tape automation robot satisfactorily.

Solution

Backing up data using Bareos, the implementation of processes and a specific engineered backup strategy on a high level of automation exculpate the IT-personnel. The configuration of the Backup is very comfortable and makes it possible to fulfill the Data Retention policies of the company.



continued from page 1 >>> elaborate an appropriate backup strategy. This was performed by Bareos experts from Bareos partner dass IT. Soon it was pointed out, that the used solution could not fulfill cardtech's requirements sufficiently. Bareos was identified as the open source solution fitting the requirements. Within another 3.5 days Bareos was installed and configured. Two more visits onsite were used to verify the backup strategy, configuration and for a reasonable documentation.

Result

Also Bareos supports import / export of tapes of a certain job, the used library lacked these functions, this was solved by a workaround provided by dass IT. Manual interactions, such as removing and storing written tapes, are announced by dedicated emails. This makes it easy for non specifically trained IT staff to insert the correct tapes into the automation and retrieve the proper tapes out of the robot.

The time used for full backups was minimized using the new feature "virtual full backup". The system creates a full backup using the latest available full backup plus all incremental backups in a defined interval to generate a new full backup – without any load on network nor backup clients.

Using virtual full backup all data is retrieved from existing backups instead of fetching them from the clients again.

To mitigate data loss caused by damaged tapes, cardtech needs cascading copies of existing backup jobs. This requirement was met easily using Bareos' copy-jobs.

Value add for cardtech

The high level of the backup automation, including the optimized and implemented backup procedure leads to significant relieve of cardtech's IT, by means of time and money.

Thanks to easy maintenance and easy deployment on Windows clients, the IT staff has more time for their core duties. The whole company profits from the easy to use and transparent open source solution Bareos.



„Bareos helped us essentially to implement our company's data retention policies consequently. The integration of Bareos in our existing heterogeneous IT infrastructure went seamless and we were delighted to see how easy the backup clients could be installed on different platforms. Important for us is that the encrypted data transfer between the Bareos clients and server fully complies with our high level data security policies. We were overall convinced by the professional help delivered by Bareos and dass IT preparing and implementing the new backup solution.“

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