



Key Benefits

- Backup optimization of very large files
- Incremental and differential backups
- Significant reduction in disk space needs
- Improved ROI for hardware investment
- Block level differences back up
- Optimal solution for files including Outlook PST, Unix Mbox, all databases, VMware / VirtualBox / KVM images

DELTA

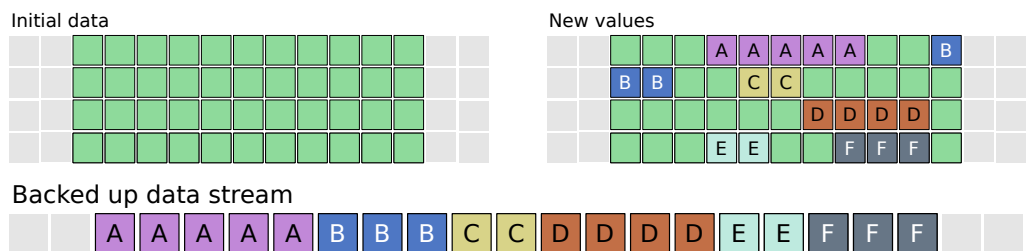
Delta plugin

The best solution to manage the backup of your very large files

Across all industries, volumes of data are constantly growing. This creates technological and financial constraints for Enterprises and *Managed Services Providers* (MSPs) when this data must be backed up, stored and restored.

To help with the issue of very high volumes of data, Bacula Systems has developed the Delta plugin, integrated within your Bacula Enterprise Edition v8 Backup & Restore infrastructure.

The Delta plugin is designed to analyse file differences at the block level and generates binary patches for the backup. It allows significant space reduction on files that have few modifications between two backups. The Delta plugin uses encoding that enables storing data in the form of differences between sequential data rather than complete files. This is known as block differencing.



The Delta plugin principle

To analyse differences between versions, the Delta plugin stores signatures for each file backed up in the working directory. During restore, Bacula Enterprise Edition will restore the first version of the file, then applies patches on it for each incremental / differential backup in a temporary file.

Delta encoding is sometimes called delta compression, particularly when archival history of changes is required.

The Delta plugin is available for each of the following platforms:

- RHEL 5 and 6
- Ubuntu LTS
- Debian 6.0
- SUSE 10, 11 (i64 only)
- All recent versions of Windows

The Delta plugin runs with Bacula Enterprise Edition 6.0 and higher.