

Backup SW

rsync

- can be used over own proto without encryption (ssh) overhead
- no build-in incremental snapshots support
- incremental backups of modified files possible (using `-backup` and `-backup-dir` params)

delete files

```
rsync --delete-missing-args --backup --files-from list_file_to_delete.txt  
src/ 192.168.1.1::root/
```

rsnapshot

- like rsync
- incremental snapshots support. Each snapshot looks like full source tree. Space is not wasted because hardlinks are used.

rdiff-backup

- Mirrored structure is available at destination (like rsync). Easy to browse.
 - ACL and extended attributes support
 - Update is slow
 - special directory `rdiff-backup-data` are also created at dest where old versions are kept
 - <http://www.nongnu.org/rdiff-backup/>
- ```
sudo apt-get install python-pylibacl python-xattr
```

## duplicity

- No direct access to backups. Backups are stored in PGP encrypted/compressed tar volumes.
- Restarting of broken backup needs only to re-download first volume from destination

## duply

- front end to duplicity

```
duply my-backup backup
duply my-backup cleanup --extra-clean --force
```

# Performance

Backups to NSA310 over fast ethernet. Hard disc encrypted with software ARM-optimized AES.  
Average network copy performance 6-8MB/s. About 22GB of small files.

| proto | tool         | initial copy | update no changes | 1GB added | 1GB removed |
|-------|--------------|--------------|-------------------|-----------|-------------|
| rsync | rsync        |              | 22s               | 3m25      | 0m34        |
| ssh   | rdiff-backup | 144m (2:24)  | 12m               | 18m       | 19m         |
| rsync | rsnapshot    |              |                   |           |             |

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