RSNAPSHOT & YOU

Taking RSYNC to the next level

Backups in the olden days

- Insert floppy and copy what would fit
- Copy to a network share (CIFS/SMB)
- Copy to a network mount (NFS)
- Burn a CDROM of a bunch of files that fit

Copy and Burn

Copying
- Jungle of duplicates
- Versioning
- Dates
- Filespace

Burning
- Read only media
- Indexing
- Media Limits
- Scratches
- Cost

RSYNC

SSH SCP with lots of toys.

- Compression
- Hashing
- Only changes over the wire
- Two way
- Will support sparse files someday

Usage

rsync -alphabetsoup user@server:src user@server:dest

http://man.he.net/?topic=rsync&section=all

Rsnapshot

http://www.rsnapshot.org

/etc/rsnapshot.conf

crontab -e

    0 */4 * * * /usr/local/bin/rsnapshot daily

    30 23 * * * /usr/local/bin/rsnapshot

RSnapshot in action

[root@localhost /]# rsnapshot du example.com/home/

5.2G   /.snapshots/hourly.0/example.com/home/

5.4M   /.snapshots/hourly.1/example.com/home/

12M   /.snapshots/hourly.2/example.com/home/

5.3M   /.snapshots/hourly.3/example.com/home/

5.4M   /.snapshots/hourly.4/example.com/home/

4.9M   /.snapshots/hourly.5/example.com/home/

5.4M   /.snapshots/daily.0/example.com/home/

728M   /.snapshots/daily.1/example.com/home/

4.8M   /.snapshots/daily.2/example.com/home/

Restoring files

Mount the backups as a Read Only NFS mount.

In /etc/exports

/var/cache/mysnapshots/ 127.0.0.1(ro)

In /etc/fstab

localhost:/var/cache/mysnapshots/ /home/username/snapshots/ nfs ro 0 0
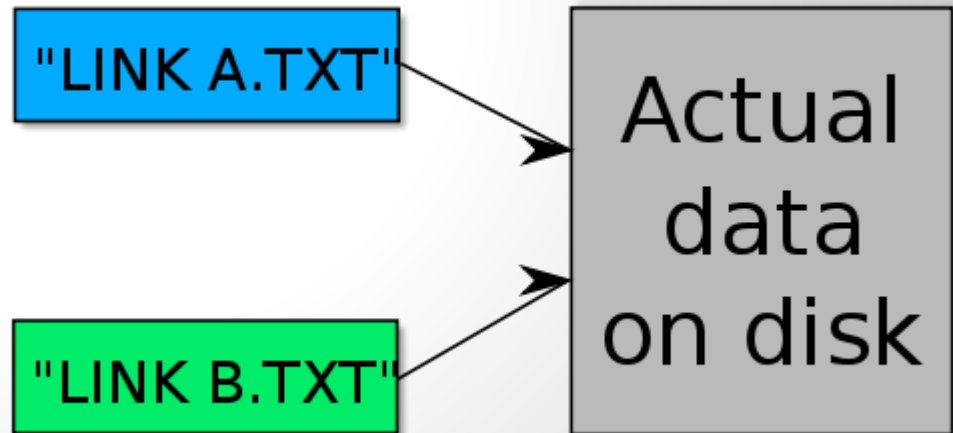

Mount it

mount /home/username/snapshots/

Networked?

ssh-keygen

ssh-copy-id user@otherserver

Versions and Hardlinks

Multiple file names pointing to the same file location on disk. AKA deduplication of a sort.

Why versioning matters

Items that did not exist in the prior backup

Items that were deleted since the prior backup

Items that changed since the prior backup

Failed backups because of drivespace

Thanks

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