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/
4.8M   /.snapshots/daily.3/example.com/home/
4.8M   /.snapshots/daily.4/example.com/home/
4.8M   /.snapshots/daily.5/example.com/home/
4.8M   /.snapshots/daily.6/example.com/home/
6.0G   total
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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