Linux Backups

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Why are backups important?

- **Important documents**
- **Malware/hardware defects**
- **https://www.reddit.com/r/buildapc/comments/3f1sh0/discussion_lets_talk_about_backups/**

What should you backup?

- Personal files
- System configuration files that you have edited
- Programs you installed outside of your package manager
- Should write a script to install all your packages

Backup tools in Linux

- Crashplan
- Tarsnap
- Borg
- SpiderOak
- Syncthing
- rsync

Crashplan

- A service that automatically backups your personal documents
- Can access files on mobile app
- Crashplan supports Linux, Windows, macosx and Solaris.
- Unlimited data, local copy is free, remote service for if the house burns down
- Client is not open source

tarsnap

- Another service
- Needs an account, register devices
- Works on a prepaid model
- Setup a shell script to backup directories of your choice
- Automatic backups (cron)
- Not fully open source but some parts are

borg

- Data deduplication
- Fast
- Data can be encrypted with AES
- Data can be compressed
- Store data on any machine that you can ssh to
- Single file binaries for Linux, macOS, FreeBSD, etc
- Open Source

SpiderOak

- Blind (zero knowledge) encrypted cloud backup and file sharing service
- Works natively on Linux, Windows and macOS and mobile clients
- Install SpiderOak client
- GUI & cli
- Transfer speeds aren’t that great
- Has some open source software

Syncthing

- **Not really backups**
- **Open source**
- **Syncthing is an application that lets you synchronize your files across multiple devices. This means the creation, modification or deletion of files on one machine will automatically be replicated to your other devices. We believe your data is your data alone and you deserve to choose where it is stored. Therefore Syncthing does not upload your data to the cloud but exchanges your data across your machines as soon as they are online at the same time.**

rsync

- rsync is a protocol built for Unix-like systems that provides unbelievable versatility for backing up and synchronizing data
- rsync to an external server
- Setup automatic backups with crontab
- Can be really fast
- https://www.infoworld.com/article/2612246/data-center/why-you-should-be-using-rsync.html