Rsync how-to

How and why to use rsync for backups and archives.

Why rsync & cautions.

- Use rsync to backup working files.
 - Good as either primary or secondary backup method.
- Benefits of using rsync:
 - Fast, efficient.
 - Only transfers "differential" data.
- Cautions when using rsync:
 - The trailing '/': changes where the data goes.
 - Dangers of "differential" data backups (can lose data).
 - --delete is PERMANENT.

Basic rsync Operation

When using a remote server (e.g., your UW webspace):

rsync -a /source/file/path/ username@<remote.host>:/destination/file/path

[ulfgard@numenor ~]\$ rsync -aP /home/ulfgard/source/ ulfgard@zeos.ling.washington.edu:/home/ulfgard/destination

- When using a local drive:
- rsync -a /source/file/path//destination/file/path
- Important Flags:

[ulfgard@numenor ~]\$ rsync -aP /home/ulfgard/source/ ulfgard@zeos

- a: archive mode, essential to the use of rsync detailed in the how-to guide.
- P: verbose output, helpful to see what is being copied.
- --delete: removes files which are not in the source but are in the destination.
- --exclude : excludes a matching pattern e.g., --exclude=another/folder