General Linux Tips

- Server Investigations
- Cleanup Invalid MP3 Files

Server Investigations

Low Disk Space

Running out of disk space can cause all sorts of havoc.

Get list of directories & files that are taking up the most space. This checks from the current dir, but replace the `*` with a specific dir to check it specifically.

```
du -hsx * | sort -rh | head -10
```

Find Duplicate Processes

If you have a shell script that may pile up with too many duplicate processes running, you can find which scripts have duplicates running with this command:

```
ps aux | sort --key=11 | uniq -c -d --skip-fields=10 | sort -nr --key=1,1
```

SELinux

If you're using SELinux, the following command will list things getting blocked by SELinux to help you find potential misconfigurations:

```
grep -E 'setroubleshoot|preventing' /var/log/messages
```

Cleanup Invalid MP3 Files

1. Install mp3check
    1. Probably already available in your distro. Example: `sudo apt install mp3check`
2. Scan a directory of MP3 files with: `mp3check -erBR3 "SOME_DIR"`
    1. This only scans files and reports issues, it does not make any changes
    2. This is recursive. Remove the lowercase `-r` to not dive into subdirectories
    3. `-B` causes it to allow variable bitrate files. If your player doesn't support VBR, remove this flag to identify files that are VBR. Note: mp3check cannot convert VBR to CBR, you need tore-encode for that.
3. Fix files with command: `mp3check -r3 --cut-junk-start --cut-junk-end "SOME_DIR"`
    1. This will write changes to the files stripping out the invalid chunks. The file modified time will be updated

Notes:

- The recursive option does not appear to work properly and only seems to go 1 directory deep
- The Dirname handling seems unusual. You may need to use a /* at the end for it to scan the entire dir

Example cleanup output:

```
... What You Believe (asia Deluxe Edition)-WEB-2014/13-chvrches-strong_hand.mp3:
cut-junk-start: removing first 31754 bytes, retrying
cut-junk-start: no junk found
cut-junk-end: valid id3 tag trailer v1.1 found, protecting it
cut-junk-end: removing last 99 bytes, retrying
cut-junk-end: tag successfully restored
cut-junk-start: no junk found
cut-junk-end: valid id3 tag trailer v1.1 found, protecting it
cut-junk-end: no junk found
```