# Cheatography

## Shell utilities & sytem management Cheat Sheet

by Kamil (Kamil) via cheatography.com/134004/cs/27722/

### ssh

| | |
|---|---|
| `sshfs [USER@ HOS T]: [re mot e_d ire ctory] mountpoint [opti-ons]` | mount remote drive in `mount point` |
| `ssh -o Server Ali veI nte rval=X -o Server Ali veC oun tMax=Y [HO ST]` | Maintaing ssh conection for `X` seconds and `Y` tries |
| `ssh-co py-id -i ~/.ssh /id_rsa [USER@ HOST]` | add autent-ication via ssh, not `.pub` file |
| `autossh -N -f -L localh ost :[P ORT U]: loc alh ost :[P ORTR] [US ER@ HOST]` | map local port `PORTU` to `POR TR` on USER@HOST with autore-connect |

### operations on files & drives

| | |
|---|---|
| `cp -r $(< fil e_l ist ed.txt) outdir` | copies files & direct-ories listed in `_l ist ed.txt` to `outdir` |
| `xargs -a file_l ist ed.txt cp -r -t outdir` | same as above |
| `tar -(v)czf file.t ar.gz /path/ to_ compre s` | create `-cf` archive `-xf` for extract |
| `unzip file.zip -d file` | unzip `file.zip` to file directory (must exists before) |
| `mkdir -p dir` | make parent direct-ories as needed, no error |
| `rm -r !(*.ext)` | delete everything except files with extension `.ext` |
| `du -hs dir` | check size of dir use `-h` for GB or `-m` for MB |
| `basename path/b ase nam e.ext .ext` | get `basename` from `path` without `ext` |
| `grep -i -r -E 'patte rn1 \|pa tte rn2 \|pa t tern3'` | multiple patterns with `grep -i` case insensitive `-r` recursive |
| `find PATH -(i)name " pat ter n" -type d/f` | list `f` files or `d` directories with matching `pattern` in specified `PATH` |

### Statements (cont)

| | |
|---|---|
| `if [ [Condition] ]; then [Command] fi` | same different syntax |
| `if [ -z " $S1 " ]; then fi` | checks if arg `$ 1` is empty |
| `function functi on_name { <co mma nds > }` | function declaration, `$1 $2` - argument names |
| `" $?"` | return exit status from last command |
| `$(expr)` | evaluate `expr` and store/print it's result |

### system

| | |
|---|---|
| `cat /proc/ cpuinfo #or lscpu` | |
| `uname -a` | |
| `ss -tpln` | |
| `df -h -S` | |
| `dd if=/pa th / t o/ ima ge.iso of=/dr iv e / lo op bs=4M && sync` | |
| `sudo mount [drive] [mount point]` | |
| `kill -9 $(pgrep -f [pattern])` | |
| `printenv` | |

### git

## Statements

| | |
|---|---|
| `while read line; do [Command] done < input.file` | Loop over file content |
| `for file in ./*.ex ten tion; do [Command] done` | loop over files in directory |
| `if test -f file.txt; then [Command] fi` | check if file exists - `f` , `-d` for directory |

| | |
|---|---|
| `git rm -r --cached <pa th/ fil e.e xt>` | remove untracked files |
| `git clean -d -(n/f)` | remove undone changes add: `-n` to show files to remove or `-f` to remove them |
| `git fetch --all [branc h_name]` | copies all changes from last pull/clone on current branch or given `branch name` |
| `git log --not --remotes` | all commits on all branches that aren't pushed yet |
| `git checkout -b <ne w_b ran ch>` | change & create new branch |
| `git switch -c <ne w_b ran ch>` | same as above |

By **Kamil** (Kamil)
cheatography.com/kamil/

Published 20th July, 2021.
Last updated 20th December, 2022.


Sponsored by **Readable.com**
Measure your website readability!
https://readable.com