

# Linux Commands

## Files & Navigation

ls - directory listing  
la-l - formatted listing  
cd dir - change directory  
cd ../dir - change to parent dir  
cd - returns to home dir  
pwd - current dir  
mkdir dir - creates a dir  
rm file - deletes file  
rm -f dir - removes dir  
rm -r delete dir  
cp file1 file2 - copy 1 to 2  
mv file1 file2 - move 1 to dir  
as 2  
touch file - updates or create  
file  
cat file - displays content of  
file  
cat > file - writes input to file  
cat >> file - append input to  
file  
tail -f file - outputs content as  
it grows

## System Info

uptime - shows current uptime  
date - shows date and time  
who am I - shows login status  
w - who is online  
cat /proc/cpuinfo - CPU info  
cat /proc/meminfo - memory  
info  
free - memory and swap usage  
du - directory space usage  
du-sh - readable size in GB  
df - disk usage  
uname-a - kernel co fig

## Permissions

chmod octal file - change permissions of  
file  
4 - read (r)  
2 - write (w)  
1 - execute (x)  
order - owner/group/world  
chmod 777 - rwx everyone  
chmod 755 - rw for owner, rx for world

## Processes

ps - current active process  
ps aux - detailed outputs  
kill pids - kills process with id  
kill all proc - kills all process  
named proc

## Networking

whois domain - get whois for  
domain  
ping host - pings host  
dig domain - gets DNS for domain  
dig -x host - reserve lookup host  
wget file - download file  
wget -c file - continue stopped  
download  
ssh user@host - connects as host  
ssh -p port user@host - connects  
using port  
ssh -D user@host - connects & binds  
port

## Compressing

tar cf file.tar files - change file to  
file.tar  
tar xf file.tar - untar in current dir  
tar tf file.tar - shows archive  
contents