## Bash Commands

| | |
|---|---|
| uname -a | Show system and kernel |
| head -n1 /etc/issue | Show distribution |
| mount | Show mounted filesystems |
| date | Show system date |
| uptime | Show uptime |
| whoami | Show your username |
| man command | Show manual for command |
| df -h | Show free space disk |
| df | Size files |
| du | Size files |

## Bash Shortcuts

| | |
|---|---|
| CTRL-z | Sleep program |
| CTRL-a | Go to start of line |
| CTRL-e | Go to end of line |
| CTRL-u | Cut from start of line |
| CTRL-k | Cut to end of line |
| alt-left/right | Move next work |
| !! | Repeat last command |
| !abc | Run last command starting with abc |
| !$ | Last argument of previous command |
| ALT-. | Last argument of previous command |
| !* | All arguments of previous command |
| ^abc^123 | Run previous command, replacing abc with 123 |

## Bash Variables

| | |
|---|---|
| env | Show environment variables |
| echo $NAME | Output value of $NAME variable |
| export NAME=value | Set $NAME to value |
| $PATH | Executable search path |
| $HOME | Home directory |

## Bash Variables (cont)

| | |
|---|---|
| $SHELL | Current shell |

## IO Redirection

| | |
|---|---|
| cmd < file | Input of cmd from file |
| cmd1 <(cmd2) | Output of cmd2 as file input to cmd1 |
| cmd > file | Standard output (stdout) of cmd to file |
| cmd > /dev/null | Discard stdout of cmd |
| cmd >> file | Append stdout to file |
| cmd 2> file | Error output (stderr) of cmd to file |
| cmd 1>&2 | stdout to same place as stderr |
| cmd 2>&1 | stderr to same place as stdout |
| cmd &> file | Every output of cmd to file |

## Pipes

| | |
|---|---|
| cmd1 \| cmd2 | stdout of cmd1 to cmd2 |
| cmd1 \|& cmd2 | stderr of cmd1 to cmd2 |

## Command Lists

| | |
|---|---|
| cmd1 ; cmd2 | Run cmd1 then cmd2 |
| cmd1 && cmd2 | Run cmd2 if cmd1 is successful |
| cmd1 \|\| cmd2 | Run cmd2 if cmd1 is not successful |

## ls Options

| | |
|---|---|
| -a | Show all (including hidden) |
| -R | Recursive list |
| -r | Reverse order |
| -t | Sort by last modified |
| -S | Sort by file size |
| -l | Long listing format |
| -1 | One file per line |
| -m | Comma-separated output |
| -Q | Quoted output |

## Search Files

| | |
|---|---|
| grep pattern files | Search for pattern in files |
| grep -i | Case insensitive search |
| grep -r | Recursive search |
| grep -v | Inverted search |
| grep -o | Show matched part of file only |
| find /dir/ -name name* | Find files starting with name in dir |
| find /dir/ -user name | Find files owned by name in dir |
| find /dir/ -mmin num | Find files modifed less than num minutes ago in dir |
| whereis command | Find binary / source / manual for command |
| locate file | Find file (quick search of system index) |

## File Operations

| | |
|---|---|
| touch file1 | Create file1 |
| cat file1 file2 | Concatenate files and output |
| less file1 | View and paginate file1 |
| file file1 | Get type of file1 |
| head file1 | Show first 10 lines of file1 |
| tail file1 | Show last 10 lines of file1 |
| tail -F file1 | Output last lines of file1 as it changes |

## Watch a Command

| | |
|---|---|
| watch -n 5 'nt -p' | Issue the 'ntpq -p' command every 5 seconds and display output |

## Process Management

| | |
|---|---|
| ps | Show snapshot of processes |
| top | Show real time processes |
| kill pid | Kill process with id pid |
| pkill name | Kill process with name name |
| killall name | Kill all processes with names beginning name |

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## File Permissions

| | |
|---|---|
| chmod 775 file | Change mode of file to 775 |
| chmod -R 600 folder | Recursively chmod folder to 600 |
| chown user:group file | Change file owner to user and group to group |
| First digit is owner permission, second is group and third is everyone. | |
| 4 | read (r) |
| 2 | write (w) |
| 1 | execute (x) |

## Tar Command Examples

| | |
|---|---|
| tar -cvf a.tar /dir | Create a tar archive called a.tar for dir |
| tar cvzf a.tar.gz /dir | gzip compressed archive |
| tar -xvf Archive.tar.gz | Uncompress |
| v | show the progress of archive file |
| c | create a archive file. |
| x | extract a archive file. |
| f | filename of archive file |
| t | viewing content of archive file. |
| j | filter archive through bzip2. |
| z | filter archive through gzip |
| r | append or update files |