# Cheatography

## DevOps Cheat Sheet

by hapuchu via cheatography.com/164363/cs/34441/

### grep

| | |
|---|---|
| grep -r pattern | find in files |
| grep -i pattern | ignore case |
| grep -o pattern | print file:match |
| grep -h pattern | hide filename |
| grep -e pattern -e str2 | multiples strings |
| grep -v pattern | complimenting line |
| grep -c pattern | print count |
| grep -n pattern | print # of matches |
| grep -w pattern | match whole pattern |

### find

| | |
|---|---|
| find path -type f -name file | search only filenames |
| find path -type d -name dir | search only dir names |
| find path -mtime +7 -ls | older than 7 days |
| find path -size -10M -ls | less than 10 MB G/K |
| find path -exec grep -i str {} + | find in files |

### du

| | |
|---|---|
| du -a dir | all files |
| du -h dir | human |
| du -m dir | in mb |
| du -c dir | sum |
| du -s dir | only sum |
| du --max-depth=1 dir | 1 dir level deep |

### loops

```
seq 5 | xargs -I{} cmd
```

```
for i in {1..5};
do
   date;
done
```

```
for vm in web log db;
do
   uptime;
done
```

### archives and zips

| | |
|---|---|
| tar cvf f.tar f1 f2 f3 ... | create tar |
| tar xvf f.tar | extract tar |
| tar tvf f.tar | view tar |
| gzip -d filename.gz | extract gzip file |
| zip -r dir-name.zip <dir> | zip a dir |
| zip -d f.zip fname | delete file from zip |
| unzip -p zipfile.zip fname.txt | cat a file inside a zip file |

### sed

| | |
|---|---|
| sed -i'.bak' 's/old/new/g' | replace after backup |
| sed 's/ab/xy/g;s/de/pq/g' | multiple replaces |
| sed '10,20 s/abc/xyz/g' | replace in range |

### awk

| | |
|---|---|
| awk -F',' '{print $1"@"$3}' | print col1@col3 |
| awk -F'\t' '/str/ {print $0}' | print line with str |
| awk -F: '{print $(NF-1)}' | print II col from right |
| awk -F'(,\|:\|;)' '{print }' | multiple separators |
| awk '$1 == 100 {print}' | comparison <, >, <=, >= |
| awk 'END {print NR " & " NF}' | print # of rows and cols |

```
awk 'BEGIN {action} /pattern/ END {action}'
```

### stdin stdout

| | |
|---|---|
| cmd 1>f.out | stdout to f.out |
| cmd 1>f.out | stderr to f.out |
| cmd &>f.out | stdout and stderr to f.out |




Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
http://crosswordcheats.com

## sort

| | |
|---|---|
| sort -n | numeric |
| sort -r | reverse |

## uniq

| | |
|---|---|
| uniq -c | print count |
| uniq -d | only dups |
| uniq -u | only unique |
| uniq -i | ignore case |

ideally uniq should be used after sort

## cut

| | |
|---|---|
| cut -d ',' -f 1,3,5 | print csv cols 1, 3 and 5 |
| cut -d: -f 1 --compliment | print all cols except 1 |
| cut -f -3 | print cols 1, 2 and 3 |
| cut -f 3- | print cols 3, 4 ... |

## tr

| | |
|---|---|
| tr old new | replace old with new |
| tr -s ' ' | replace multiple space with single |

typical use: cat something | tr old new

## curl

| | |
|---|---|
| curl -o file url | save to file |
| curi -I url | only header |
| curl -k https://url | ignore cert |
| curl -u <usr:pwd> url | username password |
| curl -w | add timeout |

## misc 1

| | |
|---|---|
| top | cpu mem info |
| free -m | mem status |
| lsof | open files |
| netstat | nw traffic |
| dig servername | dns |
| nslookup servername | dns |
| time cmd | exe time |
| watch cmd | auto exe |
| zip -d f.zip fname | delete file from zip |
| umount -l mnt | unmount when free |
| mount -a | mount all |
| ln -s file link | create symlink |

## misc 2

| | |
|---|---|
| \| xargs cmd | throws what pipe gave after cmd |
| ps -ef | list processes |
| nc -l 1234 | listen on 1234 |
| nc 127.0.0.1 1234 | send data to 1234 |
| cp -p old new | cp permissions also |



Sponsored by **CrosswordCheats.com**
Learn to solve cryptic crosswords!
http://crosswordcheats.com