

Random GREP - SED - AWK - CAT - FIND - XARGS

Well, hard to think of a title, this will probably only ever get read by me, but its super random search patters with grep/awk and who knows what else

```
grep -Eo '[0-9]+' file | sort -rn | head -n 1 = highest number
grep -o '^[^ ]*' = Grep up till first space
grep -o '[0-9]*' = grep #'s one per line
grep -o '"[^"]\+'" >> text.file = Output Grep in double Quotes "RESULTS"
cut -d' ' -f17,20 = Cut out everything except #'s in one line
percent=$(awk "BEGIN { pc=100*${var1}/${var2}; i=int(pc); print (pc-i<0.5)?i:i+1 }") # Divide 2 Numbers and set variable to percent
```

Rename All Files with UPPERCASE letters to lowercase - linux

```
for i in $( ls | grep [A-Z] ); do mv -i $i `echo $i | tr 'A-Z' 'a-z`; done
```

<https://linuxconfig.org/rename-all-files-from-uppercase-to-lowercase-characters>

Move all Files of one type recursively into one directory

```
find /var/www/html/wp-content/uploads/ -name '*.jpg' | xargs -I files mv files .
```

These are from installing Asterisk + FOP2 but I find them useful examples:

```
sed -i 's/^(^SELINUX=).*\/\SELINUX=disabled/' /etc/selinux/config
sed -i 's/^(^upload_max_filesize = \).*\/\120M/' /etc/php.ini
sed -i 's/^(User\|Group\).*\/\1 asterisk/' /etc/httpd/conf/httpd.conf
sed -i 's/AllowOverride None/AllowOverride All/' /etc/httpd/conf/httpd.conf
```

Grep for 2 things in same line

```
grep 'word1.*word2' logs
```

Sed Find and Replace Global

```
sed -i -e 's/foo/bar/g' filename
```

Replace Comment Symbol

```
sed -i '/2001/s/^/#/g' file (to ADD Comment #)
sed -i '/2001/s/^#/ /g' file (to uncomment)
```

Expand Variable (Has to have Double Quotes outside entire string!)

```
sed -i -e "s/MASTER/$MASTER/g" /etc/mysql/my.cnf
```

Insert into new line after greping for X

```
sed -i '/X/a TEST' file
```

Insert Multiple New Lines after Greping for X

```
sed -i '/X/r input.txt' file
```

Append to end of Line where X is first word in line

```
sed -i '/^10.1.10.255/ s/$/ ve_vminfo delaypurple=vm_info:75/' /etc/xymon/hosts.cfg
```

Echo Quotes

```
echo "\"$1\", \"$2\", \"$3\", \"$4\""  
" ", " ", " ", " "
```

Grep for IP Address

```
grep -oE "\b([0-9]{1,3}\.){3}[0-9]{1,3}\b"  
ifconfig | grep -oE "\b([0-9]{1,3}\.){3}[0-9]{1,3}\b" | grep -v 127.0.0.1 | grep -v 255  
ip -4 addr show eth0 | grep -oP '(?<=inet\s)\d+(\.\d+){3}'
```

Grep only first result

```
cat foo | grep bar | head -1
```

Grep into Array and parse Array - Double (()) vs "()"

```
IP=$(echo hello)  
for i in "${IP[@]}"  
do  
echo $1  
done
```

Exclude Grep

```
cat foo | grep bar | grep -v excludedpattern
```

Grep for IP and DO when IP Found

```
#!/bin/bash  
  
while [ -z "$IP" ];do  
  
IP="$(ifconfig | grep -oE "\b([0-9]{1,3}\.){3}[0-9]{1,3}\b" | grep -v 127.0.0.1 | grep -v 255)"  
  
done  
  
if [ -n "$IP" ]; then  
  
echo "$IP"  
  
fi
```

Extract Value Between Double Quotes:

```
awk -F'"' '{ $0=$2 }
```

Grep for 2 Strings:

```
netstat -tulpn | grep 'ntopng\|nprobe'
```

Sed - Change Variable after = Sign:

```
sed -i 's,^\(THISISMYVARIABLE[ ]*=\).*,\1'THISISMYVALUE',g' config.cfg
```

Rename a bunch of files removing part of the name:

```
rename 's/PART2REMOTE//g' *
```

Remove all () Brackets from filenames:

```
for i in *\( *\); do j=`echo $i |sed -e 's/[()]//g'`; mv "$i" "$j"; done
```

Remove all [] Brackets from filenames:

```
for x in *[*]; do mv -- "$x" "${x//[[]]}"; done
```

Change Spaces to underscores (Directory or Files):

```
find -name "*" -type d | rename 's/ /_/g' # do the directories first  
find -name "*" -type f | rename 's/ /_/g'
```

Move all Files from Subdirectories to Current Directory

```
find . -type f -print0 | xargs -0 mv -t .
```

Echo text into file:

```
sudo sh -c 'echo "foo" >> /path/bar'
```

Remove Entire Line matching Variable with SED:

```
sed -i '/foo/d' /path/bar
```

Echo Timestamp to log:

```
echo $(date -u) >> log
```

Grep for Version Number:

```
egrep -o "[0-9]{1,}\.)+[0-9]{1,}" file
```

Grep for PID from PS AUX:

```
proc=apache  
ps aux | grep $proc | awk '{print $2}' | head -1
```

Pass Output As Argument via Pipe & XArgs:

<https://unix.stackexchange.com/a/503197/130767>

```
command1 | xargs -I{} command2 {}
```