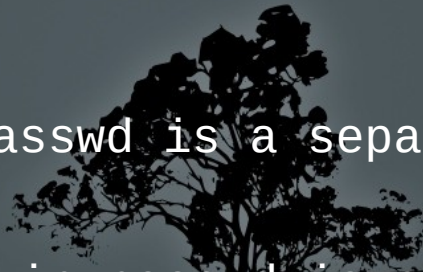


LPIC-1 101-400 – Lesson 4 – Lab

* Login into your Lab environment

- `$ cd Lab4 # switch to the Lab4 Directory`
- `$ tr \: '\t' < /etc/passwd # translate ":" to "Tab" from passwd`
- `$ tr \: '\t' < /etc/passwd | cut -f3 # Select the third column (UID)`
- `$ tr \: '\t' < /etc/passwd | cut -f3 > uid.txt # Save results in uid.txt`
- `$ echo "-----" >> uid.txt # Append a dash separator line in uid.txt`
- `$ tr \: '\t' < /etc/passwd | cut -f4 >> uid.txt # Append GIDs in uid.txt`
- `$ mv uid.txt uid-gid.txt # Rename to uid-gid.txt`
- `$ less uid-gid.txt # display uid-gid.txt`
- `$ cut -d: -f4 /etc/passwd | paste -s # display GUIs horizontally`

Lesson 4 – Lab

- `$ cat /etc/fstab | wc -l > fstab.lines # count lines of fstab`
 - `$ cat /etc/passwd | wc -l > passwd.lines # count lines of passwd`
 - `$ cat *.lines # compare the two files`
 - `$ paste -d+ *.lines | bc # add the up`
 - `$ cat > essay.txt << EOF # create a text file`
 - My House
 - -----
 - My house is small but very beautiful
 - The End
 - EOF
 - `$ cat /etc/passwd | xargs # each line in passwd is a separate parameter`
 - `$ cat /etc/passwd | xargs -d: # each field in passwd is a separate parameter`
- 

Lesson 4 – Lab

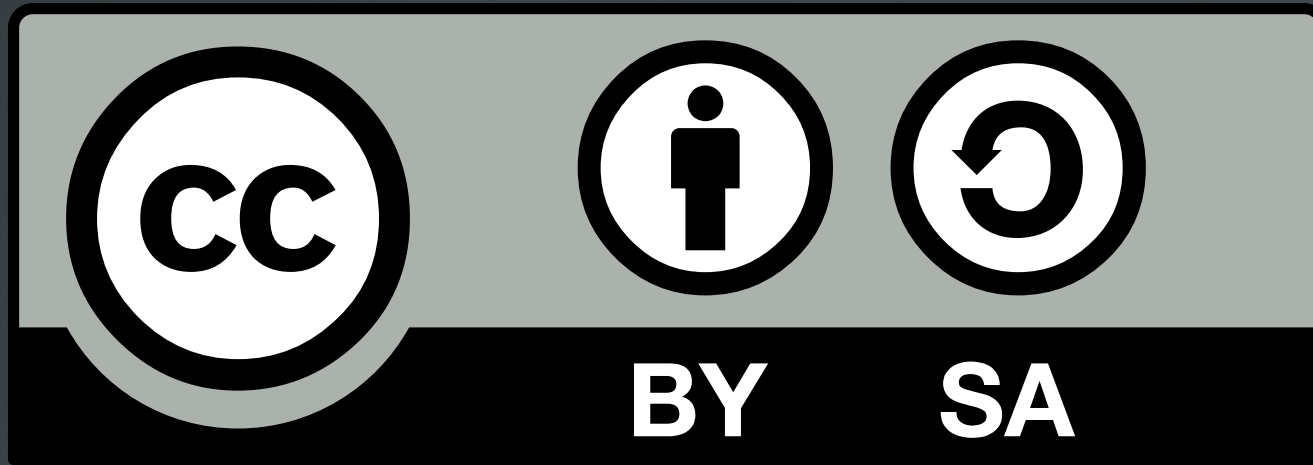
- `$ cat /etc/passwd | xargs -d: -n 2 # two results on each line`
- `$ cp -av /etc bak > results.txt 2> errors.txt # results in result.txt, errors in errors.txt`
- `$ echo "-----" >> results.txt # append dashes to results.txt`
- `$ echo "-----" >> errors.txt # append dashes to errors.txt`
- `$ cp -av /var bak >> results.txt 2>> errors.txt # append results to results.txt and errors to errors.txt`
- `$ less results.txt ; less errors.txt # see results and errors`
- `$ tar cvf etc.tar.gz /etc &> all.txt # identical to '> all.txt 2>&1'`
- `$ echo "-----" >> all.txt # append dashes to all.txt`
- `$ tar xvf var.tar.gz /var &>> all.txt # identical to '>> all.txt 2>&1'`

Lesson 4 – Lab

- `$ grep Linux -r /etc 2> /dev/null # display results in terminal, suppress errors`
- `$ grep Linux -r /etc 2> /dev/null | \ # backslash allows us to
cut -d: -f1 # continue on another
line`
- `$ grep Linux -r /etc 2> /dev/null | \ # Save files containing
cut -d: -f1 | uniq > files.txt # 'Linux' to files.txt`
- `$ grep Linux -r /etc 2>&1 > /dev/null | tee errors.txt #
suppress results, display and save errors to error.txt`
- `$ echo "-----" >> errors.txt # separate data with dashes`
- `$ grep Linux -r /var 2>&1 > /dev/null | tee -a errors.txt #
append errors from /var to errors.txt as well`



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