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

- **$ cut -d: -f4 /etc/passwd | paste -s -d+** # Use "+" as delimiter

- **$ cut -d: -f4 /etc/passwd | paste -s -d+ | bc** # add then up!

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- **$ 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
- **$ cat /etc/passwd | xargs -d: -n 1 > user.list** # Each field on a different line, saved in user.list

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- **$ 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 xvf etc.tar.gz /etc &> all.txt** # identical to '**> all.txt 2>&1**'
- **$ echo "----------" >> all.txt** # append dashes to all.txt
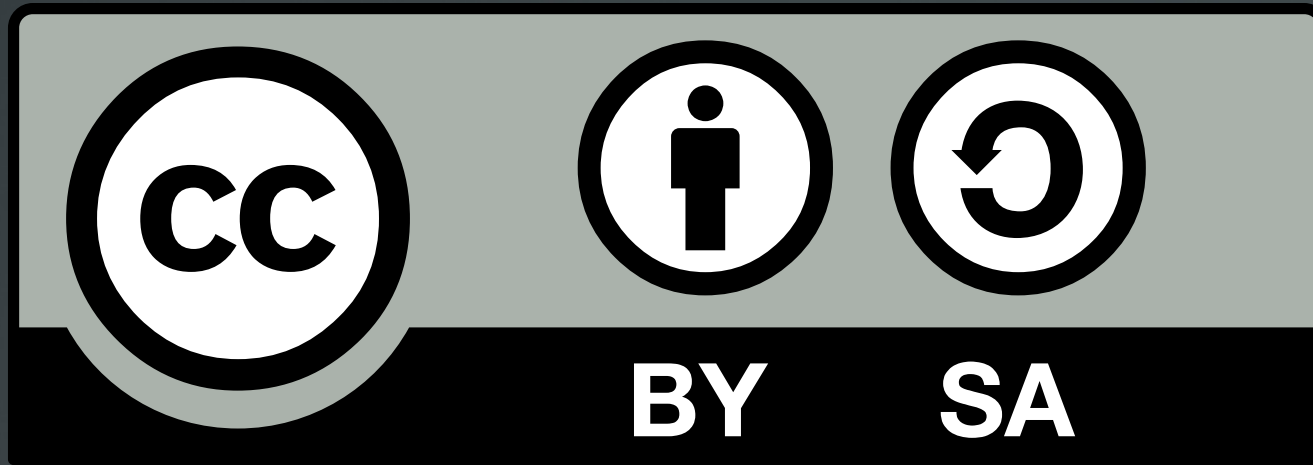- **$ tar xvf var.tar.gz /var &>> all.txt** # identical to **>> all.txt 2>&1**

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- **$ 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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