Course: Unix Name: Christina Kallas  
Section: 00001 License: CC by 4.0

Part 1 – File Permissions:

**Question 1)**



**Question 2)**



**Question 3)**



**Question 4)**

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**Question 5)**

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**Question 6)**

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**Question 7)**

**Text

Description automatically generated**

**Text

Description automatically generated**

Adding john to my user group

Text

Description automatically generated

**Question 8)**

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**Question 9)**

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**Question 10)**

**Text

Description automatically generated**

Part 2 – File Redirection:

**Question 1)**

**Chart

Description automatically generated with low confidence**

**Questions 2, 3 & 4)**

The file error.txt is now too large to copy into here – I will just put the beginning and the ending

Command written: find / - name gnu 2>> error.txt

./error.txt

Application, table, Excel

Description automatically generated

Skipping lines 21 to 806

A screenshot of a computer

Description automatically generated with low confidence

**Question 5)**

The file output.txt is now too large to copy into here

Command written: find / - name gnu >> output.txt

./output.txt

The output of the text file output.txt is all the lines from the command “find / - name gnu” minus the ones previously shown in the section “questions 2, 3 & 4”.

**Questions 6 & 7)**

When running command “find / - name gnu &>> all.txt” there was no output, but when running command “./all.txt” the output of simply typing “find / - name gnu” came out.

Part 3 – Searching for files:

**Question 11)**

Text

Description automatically generated

**Question 12)**

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**Question 13)**

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**Question 14)**

The ‘find; command did not work for me, but according to the notes, locate is faster than find as find is a live search

**Question 15)**

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**Question 16)**

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Part 4 – Commands table:

|  |  |  |  |
| --- | --- | --- | --- |
| **Command** | **Description** | **Explored Options** | **Log** |
| Chmod | This command allows to change the read, write, and execute permissions of users, groups, others and all | (none) | $ chmod u+rx lab05.sh  $ chmod g+rx lab05.sh  $ chmod 000 lab05.sh  $ chmod 733 lab05.sh |
| zip | This command allows a user to zip a file | -r  Includes sub-directories  -sf  Shows files when zipping | $ su –  Password  # apt install zip  $ zip -r Lab05  $ zip -sf test |
| unzip | This command allows a user to unzip a file | -l  Checks content of file | $ unzip -ls Lab05 |
| Date | Prints or sets the system’s date and time | -u  Prints or sets Coordinated Universal Time  -d  Displays in string | $ su -  Password  # date -u 09262014  $ date -d 20210105 |
| Ncal | A command-line tool that lets a user view the calendar | -h  Removes highlight on current date  -b  Makes the calendar horizontal  -j  Instead of the day of the month, the day of the year is displayed (0-365) | $ ncal -h  $ ncal -b  $ ncal -j |
| Head | Outputs the first part of a given file | -n  Shows n amount of lines from the first part of the file | $ head -n 1 lab05.sh |
| Tail | Outputs the last part of a given file | -n  Shows n amount of lines from the last part of the filr | $ head -n 10 error.txt |
| Exit | Exits the current user or terminal | (none) | $ su john  Password  # exit |
| Passwd | Change the users password | (none) | $ passwd  Current password  New password x 2 |
| Who, w | Shows the user who is online | (none)  -b  Time of last system boot | $ who  $ who -b |
| Whatis | Displays one-line manual page descriptions | (none)  -d  Prints debugging ingormation  -v  Prints verbose warning message | $ whatis man  $ whatis -d man  $ whatis -v man |
| Ln | Makes links between files | (none)  -s  Makes symbolic (soft) links instead of hard links | $ ln lab4.sh hard.sh  $ ln lab4.sh soft.sh |
| File | Determines a file type | (none)  -f  Reads the names of the files  -i  Outputs mime type strings  -b  Doesn’t prepend filenames  -d  Prints debugging information | $ file Lab05/error.txt  $ file -f Lab05/error.txt  $ file -I Lab05.txt  $ file -I Lab05/all.txt  $ file -d Lab05/output.txt |
| hostname | Shows or sets the system’s host name | (none)  -a  Displays the alias name of the host  -d  Displays the domain | $ hostname  $ hostname -a  $ hostname -d |
| Uname | Prints system information | -a  Prints all of the information  -n  Prints network node hostname | $ uname -a  $ uname -s |
| Uptime | Tells you how long the system has been running | (none)  -p  Shows uptime in pretty format  -s  System up since a given date in yyyy-mm-dd hh:mm:ss format  -V  displays version information and exit | $ uptime  $ uptime -p  $ uptime -s 2021-01-01 01:01:01  $ uptime -V |
| Type | Used to find out information about other commands | (none)  -t  Finds out only the type  -p  Finds absolute path of a command  -a  Displays all info | $ type bash  $ type -t bash  $ type -p bash  $ type -a bash |
| Id | Print user and group IDs | (none)  -g  Prints effective group ID  -G  Prints all group IDs | $ id  $ id -g  $ id -G |
| Adduser | Add a user to the system | --force-badname  Allows you to write a user name with bad grammar (i.e: capitalized) | $ su –  Password  # adduser –force-badname Christina  #password x 2  Information asked for  Y  exit |
| deluser | Remove a user from the system | (none) | $ su –  Password  # deluser Christina  # exit |
| History | Prints out the history | (none)  Number  Prints out x amount of commands from the history starting from the most recent | $ history  $ history 6 |
| Grep  \*not understood | Prints lines that match patterns | (none) | $ cd /tmp/420-321-F20/lab4  $ cat \* | grep date |
| Diff | Comapres files line by line | (none)  -q  Report when differ  -s  Report identical files  -r  Recursively compares subdirectories | $ diff Lab05/error.txt Lab05/all.txt  $ diff -q Lab05/error.txt Lab05/all.txt  $ differ -s Lab05/error.txt Lab05/all.txt  $ differ -s /tmp/420-321-F20/lab4/hard.sh /tmp/420-321-F20/lab4/soft.sh  $ diff -r Lab05/error.txt Lab05/all.txt |
| Sort | Sort lines of a text file | (none)  -d  Consider only blanks and alphanumeric characters  -n  Sort using string numeric value  -r  Reverses the result of comparisons | $ sort Lab05/output.txt  $ sort -d Lab05/output.txt  $ sort -n Lab05/output.txt  $ sort -r Lab05/output.txt |
| Wc | Print newline, word and byte counts for each file | -l  Prints the new lines count  -m  prints the character counts | $ wc -l Lab05/error.txt  $ wc -m all.txt |
| Whereis | Locates the binary, source, and manual page files for a command | -b  Searches for binaries  -m  searches for manuals  -s  Searches for sources | $ whereis -b find  $ whereis -m man  $ whereis -s Lab05 |
| Find | Search for files in a directory hierarchy | (none) | $ find /user/bin perm 755 | wc -l |
| locate | Lists all the files in a given database that match the given pattern | (none)  -i  Disregards case sensitivity | $ locate GPL | wc -l  $ locate -I GPL | wc -l |
| Mount  \*not understood | Mounts and displays information about file systems | -t | >After adding two files to Templates  $ mount -t Templates  >no output |
| Umount  \*not understood | Removes a remote file system that is currently mounted | (none) | $ umount Templates  >output: not mounted |