

CSIS 3230 Computer Networking Principles

Lab 01 – Intro to Linux

Name:

1. Practice listing files

a) What is the absolute pathname for your home directory?

b) Write the command that shows all files in your home directory (excluding . and ..).

c) What is the total number of items in your home directory (including hidden)?

Write the command used to count the items.

d) How many *hidden items* are in your home directory?

Show the command used to get the additional information needed to calculate the number of hidden files.

e) Show the command used to count the number of directories in /etc:

How many directories are in /etc?

f) Show the command used to display the sorted listing of files as described.

Which file is the largest?

Its size (in bytes)

2. Practice viewing files

a) Show the command used to count the lines in the services file:

How many lines are in the services file?

b) Show the TCP port numbers for these services:

smtp	<input type="text"/>	www	<input type="text"/>
ftp	<input type="text"/>	ftp-data	<input type="text"/>
finger	<input type="text"/>	ssh	<input type="text"/>

c) Which of the above is an alias for the service? What is the service's real name?

d) Which of the services listed in b) are running?

What is the total number of services that are running?

3. DIY commands (aliases)

a) What happens when trying the `lsdir` command after saving `.bash_aliases`?

b) What happens when trying the `lsdir` command in a new terminal?

- c) Try to explain why the alias works in new terminal windows but still doesn't work in the original terminal window even after saving `.bash_aliases`.

4. File system practice

- a) Write the command used to make the `lab1` directory

- b) Write the command used to make `file1`

- c) Write the command used to make `file2`

- d) Size of `file1`

Size of `file2`

- e) How does the size in bytes of `file1` compare to the number of characters?