

Red Hat Lab – Chapter 3

Use Red Hat Lab Environment to complete the lab. Issue the following commands immediately before step 1:

```
history -c  
history -w
```

These commands should be repeated for each user@machine prompt. See boxes below.

Paste a screenshot in the box below of the command output from the command below. Include the command itself in the screenshot:

lab grade files-review

Issue the command `history` after the last step. Paste screenshots of the history for student@serverb in the boxes below (two boxes provided due to number of commands. Include the command itself and the full history of commands.

student@serverb

Lab Manual

Use the VirtualBox RHELv9 virtual machine for this lab. Do not use the Red Hat Lab Environment. Issue the following commands in the Terminal window before starting the lab on the next page:

```
history -c  
history -w
```

Repeat these commands for root@RHELv8 if necessary.

Paste the results of the history command in the box at the end of the lab.

Lab 03: Absolute & Relative Path Names

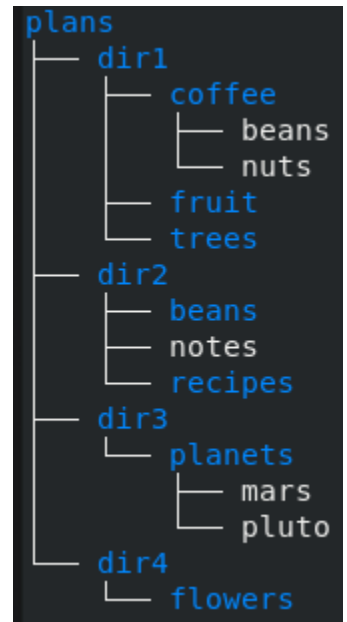
Create the directory structure shown within your home directory (/home/student).

Use ONLY **absolute pathnames** and no shortcuts to do the following:

1. Change to student's home directory.
2. Change to the dir2 directory.
3. Display the path to the current directory.
4. Change to the dir4 directory.
5. Return to the student's home directory.
6. Change to the fruit directory.
7. Verify the current working directory.

Use ONLY **relative pathnames** below:

8. Change to the student's home directory.
9. Change to the dir2 directory.
10. Verify what directory the student is currently in.
11. Change to the dir4 directory.
12. Return to the home directory.
13. Change to the fruit directory.
14. Verify the current working directory.
15. Return to the home directory.
16. Change to the plans directory.
17. List the directories and files.



Lab 04: File Manipulation

1. Display a detailed listing of the files in `/usr/lib`.
2. Display a listing of all the files in `/etc/ssh`, sorted by file size.
3. Display the same listing, sorted in reverse order.
4. Display a listing of all files and directories in `/usr/lib`, including subdirectories.
5. Display only the `/usr/lib` directory and not its contents.
6. Display all the files and directories in `/etc` starting with the letter `l`.
7. Display the file type for `/etc/hosts`.
8. Display the file type of `/usr/bin/sudo`.
9. Create a new file named `testfile`.
10. Now update the timestamp for `testfile`.
11. Set the timestamp for `testfile` to 06152014.
12. Display the various timestamps associated with `testfile`.
13. Copy `/etc/hosts` to student's home directory.
14. Copy `/etc/hosts` to student's home directory, but rename it to `myhosts` in the process.
15. Copy the contents of `/etc/udev`, including subdirectories, to your home directory.
16. Move the `testfile` from your home directory to the `/tmp` directory.
17. Move `/tmp/testfile` back to your home directory while renaming it `mytestfile`.
18. Delete `mytestfile` from your home directory.
19. Create a directory called `testdir` in your home directory.
20. Create the following directories in student's home directory using a command on one line: `dir1`, `dir2`, `dir3`, `dir4`, `dir5`.
21. Create a subdirectory called `inner` inside a subdirectory called `outer` in student's home directory.
22. Remove `testdir`.
23. Remove both `outer` and `inner` directories in one line.

Lab 05: File Globbing

1. Use globbing to display all files and directories in your home directory that start with the letter D.
2. Use globbing to display all files and directories that have only one character in their filename in `/usr/bin`.
3. Do the same thing to display all files and directories with two characters in `/usr/bin`.
4. Display all three-character files and directories that start with `w` in `/usr/bin`.
5. Display all files and directories in `/usr/bin` that start with `w` and have at least three characters in their file name.
6. Display all the files and directories in `/usr/bin` that start with `a`, `b`, `c`, or `d`.
7. Display files and directories in `/usr/bin` that contain at least two numeric digits.
8. Display files and directories in `/usr/bin` that do not begin with `a` through `v`.

Lab 06: Regular Expressions

1. Display occurrences of the pattern root at the beginning of the line in /etc/passwd using the grep command.
2. Use the command that is an alternative to grep -E to repeat step 1 above.
3. Display occurrences of the pattern bash at the end of the line in /etc/passwd.
4. Display any pattern containing r followed by exactly two characters and then the letter t in /etc/passwd using the dot character.
5. Display matches in /etc/passwd that match a single character between the colons that is not a 0,1,2,3,4, or x.
6. Display matches in /etc/passwd to match a colon, followed by zero or more numbers, followed by a colon.
7. Display matches in /etc/passwd to match a colon, followed by one or more numbers, followed by a colon.
8. Display matches to the word aging or ageing in the dictionary file /usr/share/dict/words.
9. Display matches in /etc/passwd for the word root or games.
10. Display all occurrences in /etc/passwd of the letters oo.
11. Replace every occurrence of the word is with the word was in /etc/wgetrc.
12. Find all occurrences of the * in /etc/rsyslog.conf.
13. Find matches to abid in /usr/share/dict/words for upper and lower case both.
14. Display all lines that do not contain local in /etc/hosts.
15. Match the word test in all files starting with an m in the /etc directory.
16. Display only the file names instead of every matching line when matching the word test in all files starting with an m in the /etc directory.
17. Display the matching file names for all matches in the /etc directory structure that match delegateSystem.