CS126-1503B-01 - UNIX Fundamentals

Phase 4 Individual Project

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Ensure you are starting in your individual Home directory.

+- apache/
| cd apache
|- bin/
| mkdir bin
|- conf/
| mkdir conf
|- lib/
| mkdir lib
+- www/
| cd www
| - html/
| mkdir html
| - cgi-bin/
| mkdir cgi-bin
| - ftp/

| mkdir ftp

1. The owner can read, write, and execute All.

chmod u=rwx apache

chmod u=rwx www

1. The group can read and execute All Directories.

chmod g=rx apache

chmod g=rx www

1. Everyone else can only read and execute the files in Apache only (and no permissions in www).

chmod 755 apache

chmod 750 www

1. Change the www/ftp directory to allow the User and group to read, write, and execute, but everyone else to only write to the directory.

Chmod 772 www/ftp

In addition, create the following empty files and set the following file permissions:

1. apache/bin/httpd - 755

chmod 755 httpd – User = rwx, Group = rx, Other = rx

1. www/html/index.html - 644

chmod 644 index.html - User = rw, Group = r, Other = r

1. www/cgi-bin/process.pl – 711

chmod 711 process.pl - User = rwx, Group = x, Other = x

1. Using the grep command, write comment to find the line containing the word(s) ServerRoot and DocumentRoot in the httpd.conf file.

grep Root apache/config/httpd.conf

1. Write a sed command that will change the ServerRoot value from /usr to the absolute directory patch for your apache directory.

sed ‘s/\/usr/\/apache/g’ apache/config/httpd.conf

1. Write a sed command that will change the Document value from /Library/WebServer/Documents to the absolute directory patch for your www directory.

sed ‘s/\/Library\/Webserver\/Documents/\/www/g’ apache/config/httpd.conf

1. Write an awk command that will print only the comment field and the login id of all users in the /etc/passwd file in this format: <Comment Field> - <login id>.

Cat /etc/passwd | awk –F:” ‘{print $5 , “-“, $1}’|sort>>~/users 2>&1