

## Unit 4 - Individual Project

Assignment Overview

**Type:** Individual Project

**Unit:** Interesting Commands

**Due Date:** Mon, 9/12/16

**Grading Type:** Numeric

**Points Possible:** 150

**Points Earned:** 0

**Deliverable Length:** See assignment details

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**My Work:**

Online Deliverables: [Submissions](#)

### Assignment Details

Assignment Description

Weekly tasks or assignments (Individual or Group Projects) will be due by Monday, and late submissions will be assigned a late penalty in accordance with the late penalty policy found in the syllabus. NOTE: All submission posting times are based on midnight Central Time.

The project team is ready to create the directory structure for the Web site. You are tasked with creating the directories and implementing the security mechanism. For this assignment, you need to create the following directory structure and permissions:

Ensure that you are starting in your individual Home directory:

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

The following file permission should be enabled for the directories:

- The owner can read, write and execute All.
- The group can read and execute All Directories.
- Everyone else can only read and execute the files in Apache only (and no permissions in www).
- 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.

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

```
apache/bin/httpd - 755  
www/html/index.html - 644  
www/cgi-bin/process.pl - 711
```

Finally, create a file called apache/conf/httpd.conf, and add the following lines to the file:

```
#  
# This is the main Apache HTTP server configuration file. It contains the  
# configuration directives that give the server its instructions.  
  
# Do not add a slash at the end of the directory path.  
#  
ServerRoot "/usr"  
  
#  
# DocumentRoot: The directory out of which you will serve your documents.  
#  
DocumentRoot "/Library/WebServer/Documents"
```

Save the file and exit the editor. Set the file permission for this file to be: 664.

Show the command used to show content of the file and the content of the file.

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

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

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

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>.

Your submission should include the following, as well as a description about each step (what you did and why you are performing each command):

- All commands to create the above structure
- Changing to your Home directory
- Creating the directories
- Creating the empty files
- Changing all file permissions
- Show the directory list of the new structure, including a list of permissions
- A grep, sed, and awk command

**Please submit your assignment.**

**For assistance with your assignment, please use your text, Web resources, and all course materials.**

## Reading Assignment

Chapters 9-10, 12

Click [intellipath video](#) to watch a video on ***Getting Started in Intellipath.***

Click [intellipath Suggestions](#)

Click [intellipath](#) for Student Tips about the Intellipath assignment.

Click [intellipath](#) for Frequently Asked Questions about the intellipath assignment.

### Assignment Objectives

- Use the fundamental commands and utilities of the UNIX environment.
- Compare and contrast the similarities and differences between UNIX and Linux File Systems.

### Other Information

There is no additional information to display at this time.

### Legend

 Extra Credit

 View Assignment Rubric

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