Exercise 9-1-1: File Management

Due Nov 6, 2020 at 11:59pm **Points** 10 **Questions** 9
Available Nov 2, 2020 at 2:15pm - Nov 8, 2020 at 11:59pm 6 days **Time Limit** None
Allowed Attempts 2

Instructions

For this exercise, you will work through a series of short **File Permissions** command-line exercises in the Cloud9 environment and will complete the quiz questions shown below.

You can submit this exercise two (2) times. Only the highest score will be kept.

Note: Your answers must be exact, i.e., correct spelling and spacing are necessary.

This exercise assumes that you have already configured a Cloud9 environment for C++ (see **Cloud9SetUp slide show (https://drive.google.com/file/d/1UYrM5JqUGnPaRN3aOrWuCPVbpUeSL5Aa/view?usp=sharing)** for instructions).

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	302 minutes	10 out of 10

Correct answers are hidden.

Score for this attempt: **10** out of 10
Submitted Nov 4, 2020 at 9:05pm
This attempt took 302 minutes.

General Instructions

- You will use the BASH shell in your Cloud9 environment to execute various Unix/Linux file permissions commands and view their output.
- Every time that you run a new command, you should make sure that you are not getting an error. Also, you should get a directory listing to verify the results of the command you just ran.
- **Answers where you are asked to provide a command must be EXACT. Do NOT include unnecessary whitespace.**
  - Copy-paste works best.

Objectives

- Develop an understanding of Unix/Linux **file permission** commands
- Practice **setting permissions** using Linux commands

Readings

- **https://www.tutorialspoint.com/unix/unix-file-permission.htm (https://www.tutorialspoint.com/unix/unix-file-permission.htm)**

Assignment Setup

For the following questions you will need to download a folder with test files. Using your Cloud9 C++ environment:

1. Type the following command into the terminal window to pull the project repository from GitLab:

```
git clone https://cci-git.uncc.edu/jbahamon/ITSC_3146_A_8_2
```

2. Change directory into the newly created directory (folder) named **ITSC_3146_A_8_2**

Question 1

1 / 1 pts

Make three copies of **file1.txt** called permfile1, permfile2, permfile3.

Execute the **ls -l** command and examine the permissions for these files.

Who **does not** have **write permissions** for all three of these files?

- (●) Other
- ( ) Group
- ( ) Owner

Question 2

1 / 1 pts

Use chmod in **symbolic mode** to **ADD** write permissions of permfile1 for all group members.

Copy-paste the command you used to do this: _____

chmod g+w permfile1

Question 3

1 / 1 pts

Use chmod in **symbolic mode** to **REMOVE** read permissions of permfile2 for all other users (not group members or the owner).

Copy-paste the command you used to do this: _____

chmod o-r permfile2

Question 4

1 / 1 pts

Use chmod in **symbolic mode** to **SET** read, write and execute permissions of permfile3 for the owner.

Copy-paste the command you used to do this: _____

chmod u=rwx permfile3

Question 5

1 / 1 pts

Use chmod **absolute mode** to **SET** read and execute permissions of permfile1 for the owner, read only for all group members and no permissions for all other users.

Copy-paste the command you used to do this: _____

chmod 540 permfile1

Question 6

1 / 1 pts

Use chmod **absolute mode** to **SET** read, write and execute permissions of permfile2 for the owner, read and write for all group members and read

only for all other users.

Copy-paste the command you used to do this: _____

chmod 764 permfile2

Question 7

1 / 1 pts

Use chmod **absolute mode** to **SET** full (or all) permissions for permfile3 for the owner, all group members and all other users.

Copy-paste the command you used to do this: _____

chmod 777 permfile3

Question 8

2 / 2 pts

Read this short article on the **Principle of Least Privilege**: **https://kb.iu.edu/d/amsv (https://kb.iu.edu/d/amsv)** .

According to this principle, users and processes should have the least authority needed to perform their duties.

Doing this reduces the "attack surface" and improves the security of a system.

Answer 1:

least

Answer 2:

authority

Question 9

1 / 1 pts

Consider the earlier question where we **SET** full permissions for permfile3 for the owner, all group members and all other users. Assuming that not all of the users require read, write, and execute permissions to do their job, are these permissions following the **Principle of Least Privilege**?

- Yes
- No

Quiz Score: **10** out of 10