Q1: Regular File Ownerships and Permissions

Objective: Determine read and write accessibility for shared files.

Use the following users and group memberships for this exercise.

|  |  |
| --- | --- |
| user | subscribed groups |
| elvis | elvis,music,wrestle,physics,emperors |
| ventura | ventura,wrestle,governor |
| prince | prince,music |
| pataki | pataki,governor |
| einstein | einstein,physics |
| alice | alice, games, mail |

The following questions refer to the following files, found in a /tmp directory:

[elvis@station elvis]$ ls -l /tmp

total 32

-rw-rw-r-- 1 alice alice 44 Jan 15 10:31 adventures

-rw-rw---- 1 pataki governor 29 Jan 15 10:30 budget

-rw-rw-r-- 1 nero emperors 142 Jan 15 10:30 census

-rw-rw-rw- 1 elvis elvis 29 Jan 15 10:33 pacman.highscores

-rw-r----- 1 einstein physics 352 Jan 15 10:30 theory

1. Which users can read einstein's file theory?
2. Which user can modify the census taken for nero?
3. Which users can add their own entry to elvis's pacman.highscores?
4. Which users can read governor pataki's budget?
5. Which users can read alice's adventures?
6. Which users can modify alice's adventures?

Q2: Regular File Ownerships and Permissions

1. Which of the following commands is used to modify a file's permissions?
   1. chperm
   2. perms
   3. chmod
   4. chown
   5. None of the above.
2. Select all of the following which are legitimate invocations of the chmod command.
   1. chmod u+r /tmp/foo
   2. chmod ug+rw /tmp/foo
   3. chmod rw-g /tmp/foo
   4. chmod g+wu-r /tmp/foo
   5. chmod a-a /tmp/foo
   6. chmod go+rwx /tmp/foo

Use the output of the following command to answer the next 2 questions:

[elvis@station elvis]$ ls -l

total 4

-rw-rw-r-- 1 elvis elvis 138 May 8 16:15 sample.txt

1. Which command would result in sample.txt having permissions of rw-------?
2. chmod a-rw sample.txt
3. chmod og-rw sample.txt
4. chmod u+rw sample.txt
5. chmod u-rw sample.txt
6. chmod o-rw sample.tx
7. Which command would result in sample.txt having permissions of rw-r--r--?
8. chmod a-w sample.txt
9. chmod go-w sample.txt
10. chmod go-rw sample.txt
11. chmod g-w sample.txt
12. Both B and D

Use the output of the following command to answer the next 2 questions:

[elvis@station elvis]$ ls -l

total 4

-rw------- 1 elvis elvis 138 May 8 16:15 diary.txt

1. Which of the following commands would result in diary.txt having permissions of rw-r--r--?
   1. chmod a+r diary.txt
   2. chmod go+r diary.txt
   3. chmod u-w diary.txt
   4. chmod o+rw diary.txt
   5. chmod ugo+r diary.txt
   6. chmod ugo+rw diary.txt
2. Which command would result in diary.txt having permissions of rw-rw-r--?
3. chmod a+w diary.txt
4. chmod go+w diary.txt
5. chmod ug+rw diary.txt
6. chmod g+rw o+r diary.txt
7. The desired permissions cannot be obtained using the chmod command only once.

Use the output of the following command to answer the next 2 questions.

[elvis@station elvis]$ ls -l

total 4

-rw-rw-r-- 1 elvis elvis 138 Jul 8 16:15 sample.sh

1. Which of the following commands would result in sample.sh having permissions of rwxrwxr-x?
   1. chmod a+rw sample.sh
   2. chmod go+x sample.sh
   3. chmod a+x sample.sh
   4. chmod x+a sample.sh
   5. Both C and D
2. Which of the following best explains why someone would want the file sample.sh to have

permissions of rwxrwxr-x?

* 1. The owner would like anyone to be able to remove the file.
  2. The owner would like anyone to be able to modify the file.
  3. The owner would like anyone to be able execute the file as a script.
  4. The owner would like anyone to be able to rename the file.
  5. None of the above reasons apply.