System Administration for Beginners

Week 3 Homework

February 13, 2007

As usual, please submit your homework to us at cardi+decal@ocf.berkeley.edu and jameson@ocf.berkeley.edu. All that is necessary in your submission is your name, inst login, and the answers (just the letters is fine).

- 1. A symbolic link uses up as much disk space as the file to which it points. In other words, if you create a symbolic link to a 10 MB file, the symbolic link will require 10 MB of disk space.
 - (a) True
 - (b) False
- 2. What three-digit permissions group would you use to assign read and write permissions to the owner, read permissions to the group, and no permissions to everyone else?
 - (a) 741
 - (b) 650
 - (c) 640
 - (d) 541
- 3. Suppose you wanted to take the output of a command, filter out lines that do not contain a certain word, and read the output so you could scroll up and down. What single command would you use?
 - (a) command > grep word | less
 - (b) command > grep word > less
 - (c) command | grep word | less
 - (d) command \mid grep word >> less
- 4. If you used tar to archive the contents of a directory, the resulting tar archive would use significantly less disk space than the original fies.
 - (a) True
 - (b) False

- 5. If you wanted to copy over an entire directory using scp, which command-line parameter woul dyou use?
 - (a) -C
 - (b) -p
 - (c) -r
 - (d) -v
- 6. On a system with multiple untrusted users, assigning the permissions 777 would probably be safe.
 - (a) True
 - (b) False
- 7. On a system with multiple untrusted users, assigning the permissions 750 would probably be safe.
 - (a) True
 - (b) False
- 8. A certain file is owned by the science group. On the same system, your login is a member of the science group. The file has permissions of 714. What permissions do you ahve, assuming you are not the owner?
 - (a) Execute, read, and write
 - (b) Execute and read
 - (c) Write and read
 - (d) Execute
- 9. You notice that the permissions on a symbolic link are 777. Therefore, if you wanted to access any file on the system, it should not be possible to create a symbolic link to it to grant yourself 777 permissions. Why is this not true?
 - (a) You won't be able to create a symbolic link to the file.
 - (b) Symbolic link permissions only refer to the link, not to the file that the link points to.
 - (c) Symbolic link permissions are not 777.
 - (d) The statement is not false.