# **Book II** **Chapter 6 Review**

**Instructions:** Answer the following questions using information provided in class, the course pdf ebook, online resources (i.e. google), class slides, or other resources. Please answer in complete sentences.

**Objectives:** Chapter 6 explains managing file security using access control lists or ACLs. At the completion of this activity, you should have a good understanding of the following: 1) describe POSIX access control lists, 2) managing ACLs to files and folders.

1. Explain how access control lists or ACLs differ from standard linux file permissions. **ACL offers more detail when setting permissions on files.**
2. Explain what is required for a file system to support ACLs. In what instance may the ext4 file system not support ACLs? **The filesystem has to be installed with ACL support enabled. Ext4 filesystems may need to enable the acl option.**
3. Describe how to identify if an ACL has been applied to a file or folder. **The + at the end of a permission string will identify if there are acl permissions associated with this file or folder.**
4. Explain the output of the getfacl command. Describe what each line or section of the output means as if you were teaching it to a class.
5. Describe how to use the setfacl command to modify the ACLs of a file as if you were teaching it to a class.
6. Describe how to use the output of the getfacl command as input for the setfacl command, essentially copying the ACLs from one file to another.
7. Describe how to recursively set ACLs to files in a directory. Explain why you would use the capital X permission when setting recursive ACLs.
8. Match the following items to their counterparts in the table:  
     
   **ACL Operation**user:mary:rx file  
   user::rx file  
   default:user:mary:rx /directory  
   default:m::rx /directory  
   g::rw /directory  
   group:hug:rwx /directory  
   g::rw file  
   getfacl /directory

|  |  |
| --- | --- |
| **Job** | **ACL Operation** |
| Display ACLs on a directory. |  |
| Named user with read, execute permissions for a file. |  |
| File owner with read, execute permissions for a file. |  |
| Read, write permissions for a directory granted to the directory group-owner. |  |
| Read, write permissions for a file granted to the file group-owner. |  |
| Read, write, execute permissions for a directory granted to a named group. |  |
| Read, execute permissions set as the default mask. |  |
| Named user granted initial read permission for new files and read, execute permission for new subdirectories. |  |