1. Why should you use the sudo command rather than use the su root command to perform administrative tasks?

It is ultimately better to use sudo command instead of su root command because a user can do anything in the su root command. A su root command will not prompt you to see if you’re sure you want to do that operation so you may overwrite files that you won’t be able to reverse. A sudo command does that same function but you will be notified if you and see an error if you are not in the sudo group.

1. What is the numeric (octal) representation of these permission strings?
   1. rwxr-xr—
      * 1. 754
   2. rw-r-----
      * 1. 640
   3. rwxr-xr-x
      * 1. 755
   4. rw-r--r—
      * 1. 644
2. What is the permission string for the following numeric (octal) values?
   1. 567
      * 1. r-xrw-rwx
   2. 623
      * 1. R-x-w--wx
   3. 421
      * 1. R-x-w--wx
   4. 777
      * 1. rwxrwxrwx
3. While logged in as your regular user, attempt to create a subdirectory inside of the /bin directory and another subdirectory inside of /tmp directory. What happens in each case? Why?

You will only be able to create a subdirectory inside the /tmp directory because that file is available to all users as oppose to the /bin which is not available.

1. Describe a situation where you would need to use the umask command.

A situation I would need to use the unmask command is if I was working for a company and I or anyone from higher up in management needs to be able to write over a file, I would use the unmask command for that situation otherwise, I would not use the unmask command for regular employees who needs to see the file but only to read it.

**Citation**

Khess. (2020, August 04). Manage the linux /TMP directory like a boss. Retrieved November 5, 2022, from https://www.redhat.com/sysadmin/manage-linux-tmp-directory

Son, B. (2021, March 30). Exploring the differences between sudo and SU commands in linux. Retrieved November 5, 2022, from https://www.redhat.com/sysadmin/difference-between-sudo-su