

# Assignment 6

## Section 1 :

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GNU nano 6.2 permissions_tasks.sh *
#!/bin/bash

# 1. Create 'myteam' folder and set read-only permission for the owner
echo "Step 1: Creating 'myteam' folder in home directory with read-only permission for the owner."
mkdir -p ~/myteam
chmod 400 ~/myteam
ls -ld ~/myteam

# Pause for user to switch accounts
echo "Step 2: Log out and log in as another user to test folder access."
echo "Please switch to another user, attempt to 'cd ~/myteam', and then return here to continue."
read -p "Press Enter to continue after testing..."

# 4a. Change permissions of 'oldpasswd' file using chmod in two ways
echo "Step 4a: Changing permissions of 'oldpasswd' file."
sudo touch /etc/oldpasswd
sudo chmod 764 /etc/oldpasswd # Method 1: Numeric
sudo chmod u=rw,g=wx,o=x /etc/oldpasswd # Method 2: Symbolic
ls -l /etc/oldpasswd

# 4b. Change default permissions (umask) to match the above
echo "Step 4b: Setting default permissions using umask."
umask 013
echo "umask 013" >> ~/.bashrc # Make it permanent
source ~/.bashrc
umask

# 4c. Maximum default permissions for files and directories
echo "Step 4c: Explaining maximum default permissions."
echo "Max default file permission: 666 (rw-rw-rw-)"
echo "Max default directory permission: 777 (rwxrwxrwx)"

# 4d. Change default permissions to no permission (umask 777)
echo "Step 4d: Setting umask to deny all permissions (777)."
umask 777
mkdir ~/no_access_dir
touch ~/no_access_file
ls -ld ~/no_access_dir
ls -l ~/no_access_file

# 4e. Check who can access the file
echo "Step 4e: Verifying file access."
ls -l ~/no_access_file
echo "Only root or file owner can change permissions. Other users cannot access these files."

# 5. Create a file with 444 permission and test editing and deletion
echo "Step 5: Creating a file with 444 permissions."
touch ~/readonly_file
chmod 444 ~/readonly_file
ls -l ~/readonly_file

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^J Execute    ^C Location   M-U Undo      M-A Set Ma
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^D Justify    ^_ Go To Line  M-E Redo      M-G Copy
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