
Linux Shell Scripting II

Due date

End of Week 12 lab class

Evaluation

3% of final grade.

Submission

- Show execution of your script to your professor, or hand in or email (in email subject line: CST8102-15W lab9 submission) completed lab before due date.

Materials

- Student laptop computer
- Ubuntu 14.04.1 installed in VMWare Workstation

Procedure

You will create a script file for the purpose of user and group management in Linux.

1. You will create a script file called *myscript* using **vim**.
2. The first line of each of your script file should force the use of the **bash** shell.
3. On the top of the script file, there should be **a section of comments** that contains the Assignment number, your name, student number, lab section number, name of the script file, the date, and a description of what the script file does
4. Your script file should be **properly commented**.

5. It should contain a **menu** that gives the user a choice of five items labeled **A - F** and **Q**, and a prompt asking for what the user's choice is.

 - A) Create a user account**
 - B) Delete a user account**
 - C) Change supplementary group for a user account**
 - D) Change initial group for a user account**
 - E) Change default login shell for a user account**
 - F) Change account expiration date for a user account**
 - Q) Quit**
6. This script file must loop using a **while loop**. When you run it, you can choose one menu item. A message should be displayed if an invalid option is chosen.
7. The menu choice should be decoded using an **if-elif-else** structure.
8. The **if** structure should accept upper or lower case letters. Use **|| operator** to allow upper or lower case characters.
9. If **A** or **a** is chosen, the script should prompt you to enter the following information:
 - Username
 - User's home directory
 - Default login shell
 - Create the user account based on the information given above
10. If **B** or **b** is chosen, it should prompt you for username of the account to be deleted, and delete the user account as well as the user's home directory
11. If **C** or **c** is chosen, it should prompt you for username and group name that is added as a supplementary group for the user account
12. If **D** or **d** is chosen, it should prompt you for username and group name that is used as the initial group for the user account, and change the initial group for the user account.

13. If **E** or **e** is chosen, it should prompt you for username and shell name, and change the default shell for the user account.
14. If **F** or **f** is chosen, it should prompt you for username and expiration date, and change the expiration date for the user account.
15. If **Q** or **q** is chosen, the script should end.
16. It should sleep for **3** seconds after each menu item is selected before the loop causes the menu to be redisplayed

Below is a sample of a while loop:

```
choice=n      #initialize to dummy value
while [ $choice != "Q" ] && [ $choice != "q" ]
do
    clear
    echo -e "Choice: \c"
    read choice
    echo "You Entered $choice."
    sleep 3
done
```