
Linux Shell Scripting II

Procedure

Create a script file for the purpose of user and group management in Linux. Assume that the script is run with elevated permissions.

1. Create a script file called *myscript.sh* using **vim** or **vi**.
2. The first line of the script file must force the use of the **bash** shell.
3. At the beginning of the script file there must be a **section of comments** that contain the following items:
 - assignment number
 - student name and student number
 - course and lab section number
 - name of the script file
 - the submission date
 - a description of what the script file does
4. Your script file must be **properly commented**.
5. It must 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. Use the following labels for the menu.
 - **Create a user account**
 - **Delete a user account**
 - **Change supplementary group for a user account**
 - **Change initial group for a user account**
 - **Change default login shell for a user account**
 - **Change account expiration date for a user account**
 - **Quit**
6. This script file must loop using a **while loop**. When it runs, choose one menu item. A message must be displayed if an invalid option is chosen.

7. The menu choice must be decoded using an **if-elif-else** structure.
8. The **if** structure must accept upper or lower case letters. Use **|| operator** to allow upper or lower case characters.
 - If **A** or **a** is chosen, the script must prompt to enter the following information:
 - Username
 - User's home directory
 - Default login shell
 - Create the user account based on the information given above
 - If **B** or **b** is chosen, it must prompt for username of the account to be deleted, and delete the user account as well as the user's home directory
 - If **C** or **c** is chosen, it must prompt for username and group name that is added as a supplementary group for the user account
 - If **D** or **d** is chosen, it must prompt 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.
 - If **E** or **e** is chosen, it must prompt for the username and shell name, and change the default shell for the user account.
 - If **F** or **f** is chosen, it must prompt for username and expiration date, and change the expiration date for the user account.
 - If **Q** or **q** is chosen the script must end.
9. The script should sleep for **3** seconds after each menu item is selected, before the loop causes the menu to be redisplayed
10. 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
```