

User Management

Main goal

- Understand basic concepts concerning user management
-

Part 1: creating & removing users

1. Create a new group named “prueba” with GID 5000, do not use any automatization tool.
2. Create (without automatization tools) a new user named “manolito” and add it to the group “prueba”
 - a. Its UID will be 5001
 - b. The user must change the password during the first system login.
 - c. Password must be changed every 3 months.
 - d. The kind of shell will be `/bin/bash`
 - e. Account expires 1st January 2017.
 - f. Add phone number, mail, etc... in GECOS (`chfn`)
 - g. Do not forget to add a password and create the working directory (`$HOME`)
3. Log to the new account generated through a different terminal and change the password by an “easy” one (4-5 numbers?).
4. As test user, try to break the password of the rest of system users with a cracking tool (search through the network) (Over `/etc/shadow`)
 - a. Clue: John “the Ripper”
5. Try it now, but as user root.
6. Remove the user “manolito” and all its files in the system (not only those in its `$HOME`)
7. Create the account again but now making use of automatization tools. Check the appropriate files to see that everything is set as you want.
8. Enable the *cracklib* module in PAM for the command `passwd`, configure it to force the size of new passwords to at least 8 characters and check its utility.
9. Configure `sudo` correctly to allow the new user to create new users by its own.
10. Add to that user the possibility to reboot the system from command line.

Part 2: Shell scripting

1. Download the file www.atc.unican.es/SI/Lista.txt. Given the student list of this course, create a script able to automatically create a new account for each student, with the following requirements for each account:
 - a. user name: surname + first name character (like unican mail). Use this name for the \$HOME directory.
 - b. Password 1st and 3rd character of its name and surnames (6 chars total).
 - c. The kind of shell will be `/bin/bash`
 - d. Account expires at the end of the course.
 - e. Add additional information... in GECOS (`chfn`)