

Lab Assignment 4

Corresponding to Topic 5, "User Management"

L4

Main goal

- To 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 tools.

- 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 to 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 on 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.ce.unican.es/OCW/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 initial (like unican mail). Use this name for the \$HOME directory.
 - b) The password is the 1st and 3rd letters of their name and surnames (6 chars in 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`).