

NAME	DATE	8 / 06 / 2022	
SUBJECT	ASIX1 - DAW1 - M01UF3	AC. YEAR	2021 - 2022

QUALIFICACIÓ

1- (2 points) Download the following source code:

<http://www.collados.org/asix1/m01/tu3/extr/rocket1.c>

Create a **Makefile** to easily:

- a) **Compile** `rocket1.c`
- b) **Clean** temporary files
- c) **Install** `rocket1` on your system in the `/usr/local/bin` directory
- d) **Uninstall** `rocket1` from your system

NOTE: You have to add at the top of your file information about date, author and software name

2- (2 points) Create a new `.deb` package called `rocket1_0.4-2_amd64.deb` with the following information:

- a) Maintainer: `xyyyz@fjeclot.net`
- b) Summary: **Launch rocket1 into space**
- c) License: **GPL**
- d) Group: **Science**

NOTE 1: You should know how to answer any other questions asked by the software used to create deb packages.

NOTE 2: `xx`=two first letters of your name, `yy`=two first letters of your first surname and `zz`=two first letters of your second surname. **Packages where xyyyz has not been properly written will get 0 points!!!!**

3- (3 points) Write a script called `rocket1.sh` that:

- a) Firstly, it clears the screen and checks if the script is being run by the `root` user. If it is **not** being run by the `root` user, the script will terminate showing the message "This script must be run as root" and returning an exit code equal to `10`.
- b) Secondly, it shows a menu with the following options:
 - 1- Install the `rocket1` deb package - (with the help of `dpkg`).
 - 2- Remove the `rocket1` deb package - (with the help of `dpkg`).
 - 3- Show information about the `rocket1` deb package - (with the help of `aptitude`).
- c) Thirdly, the selected option is run. If you do not select a valid option then, your script must show the following message "**Wrong option**".
- d) Finally, your script asks the user if he/she wants to start again from the beginning. If the user answers `y`, your script should clear screen and show again the menu. If the user does not answer `y`, your script should terminate returning an exit code equal to `0`.

NOTE: You have to add into the script information about date, author and software name

4- Write a script called `rmgrp.ps1` that:

- Firstly, for each local group in the system, your script asks if you want to remove the group or not. Only if your answer is "**yes**" the group will be removed. For any other answer the script does not run any command.
- Secondly, it shows a message asking the user if you want to repeat the previous step (option `y`) or not (option `n`). If the user select `n`, your script must terminate returning an exit code equal to `0`. Default option is `y`.

Save into a file called `daw1_surname_name_m01tu3extr.tar.gz` the following files:

- a) **Makefile**
- b) `rocket1_0.4-2_amd64.deb`
- c) `rocket1.sh`
- d) `rmgrp.ps1` (with no extension)

Send your file attached to an e-mail to `cf@collados.org` or `jordi.binefa@fje.edu` (it depends on who your teacher is) with the following subject: `daw1_surname_name_m01tu3extr`.