Tasks for Lab assignment 4: hardening user accounts

1. Disable direct root login, both Display Manager and all virtual terminals (accesible with HOST+F? ... on a virtual machine) except `tty3`

2. Using the module `pam_wheel.so` allow only usuario, user001, user002, user003 and user004 to become root via the *su* command, usuario does not need to know the password, user001 user002, user003 and user004 would need the password to become root. The rest of the users will not even be asked for the password

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3. What crypting method is used for the passwords? Has the same method been used all the passwords in the system?. Should we want to use sha256 and change all the users (user000 .....) passwords to this (sha256).. How would we procceed??

4. Force the following password requisites for password changes
   - at least 10 characters
   - must contain upper and lowercase
   - must contain at least two digits
   - must contain at least one non alphanumeric character
   - must no be one of the last three passwords used

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5. user010 **CAN ONLY** execute `ls` and `rm`, `vi` and `wc`. Explain clearly all that has been done so that he/she cannot revert the situation

6. user020 can manage filesystems in the system by running the `fdisk`, `mkfs`, `mount`, `umount` programs

7. any user in the system can execute anything as user010, providing his/her own authentification

8. any member of the group *adm* can perform any administration task without being prompted for a password

9. usuario has not to provide his/her password to enter the system (neither using login, nor using the graphical login)

Lab Assignment 4: Work submission

- After performing the corresponding tasks of the lab assigment, a pdf document, describing what has been done (including screenshots showing the behaviour of the virtual machine, changes made to configuraton files, output from commands. . .) should be sent to
  - antonio.yanez@udc.es. (students at udc)
  - yolanda@det.uvigo.es. (students at uvigo)
- The subject of the mail should be *FSO: practica-4*
- The attachement should be named with the lab assignment number and the surname and name of the student, in the form P3-Surname-Name.pdf, avoiding non-ascii characteres (á, é, ñ . . .)

- example
  - For this lab assigment, the work submitted by student *Donald Trump Núñez* should come as an attached file named P4-TrumpNunez-Donald.pdf to a mail with the subject *FSO: practica-4*
  - Should Donald Trump Núñez team up with Vladimir Putin Vázquez to make the lab assignments, ONLY ONE OF THEM should mail the file. The first page of the pdf should contain BOTH names, and the file could be named either P4-TrumpNunez-Donald.pdf or P4-PutinVazquez-Vladimir.pdf
- The work must be submitted within 15 minutes of the end of the lab assignment class