

<b>Advanced Linux System Administration: Lab Exam (Topics 1-3)</b>	

**Prior Instructions:**

In the following link you will find a file named ExamenParcial.zip. Download it to a local folder, uncompress the file and add the machine to Virtualbox.

<http://www.ce.unican.es/OCW/SI/Eval/2014-15/ExamenParcial1.zip>

After booting the machine, log in as root user: login=root / password=root. **After finishing each exercise, power off the virtual machine and create a snapshot labeled Ej<X>Result (replace <X> with the exercise number).**

**Exercise 1 (1p).** Inside the home directory of user root, create a folder named NewHome. Change the environment variable \$HOME to point to this new folder. Look for the “passwd” file and create a copy (name it copy\_passwd) in the new directory \$HOME. In the file copy\_passwd do the necessary changes to force every user to use the same shell: /bin/bash. Finally, change the permissions to only allow root user to read/write to this file.

**Exercise 2 (1p).** In the directory /root/DirFiles you will find multiple files, each with information about a single student. In the same folder, create a single file named Complete\_list containing the information about every student. Additionally, create a file named List\_by\_name in which the user’s name is the first field on each line.

**Exercise 3 (1p).** Without installing additional software, modify runlevel 4 to activate services kbd and skeleton during boot, deactivating also bootlogs and rnmologin. Do the required changes in runlevels 2,3 and 4 to make the combo Ctrl+Alt+Del return the following text message: “Combo not allowed in this level”. For the rest of the levels it works as usual.

**Exercise 4 (1p).** Uninstall the grub bootloader, replacing it by the LILO bootloader. Configure the welcome message to print your name and surname during boot process. Copy the output of the history command to the file \$HOME/hist\_session.

**Once you have finished the exam, copy the following files to the device provided by the teacher:**

- ExamenParcial.vbox
- Snapshots (whole folder)