

Lab Assignment 4

1. Limit the number of logins of user05 to 4. (*limits.conf*). Check that it works login in with ssh.
2.
 - ▶ Open the web browser and start to download the following url
`https://cdimage.debian.org/debian-cd/current/amd64/iso-dvd/debian-12.5.0-amd64-DVD-1.iso`
 - ▶ with the `top` command check how much CPU the web browser is using
 - ▶ use the `cpulimit` program to reduce the CPU this web browser is using to one fifth (1/5) of whatever it is using
 - ▶ check how much CPU it is using now
 - ▶ (close the web browser and end the `cpulimit` program)

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3. create a container of type *debian*, and start it
 - ▶ put password to the root user in the container
 - ▶ add three users (with their home directories and password, and whose names do not match any of the users in the host machine)
 - ▶ install the web server (`apt-get install apache2`) and the ssh server (`apt-get install ssh`) in the container
 - ▶ change the network address in the container to use a static network address, in the same network it was before
 - ▶ change the ssh server port in the container to 222 (file `/etc/sshd/sshd_config`)
 - ▶ stop the container
 - ▶ Add to the container configuration file (`/var/lib/lxc/container-name/config`)

```
lxc.start.auto = 1
lxc.start.delay = 3
```
 - ▶ reboot the machine

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4. Create a *cgroup*
5. Open a terminal and add the shell in that terminal to the cgroup
6. From that very shell open firefox, atril and xclock
7. Check the contents of the file *cgroup.procs* and *memory.current*
8. Put an '1' in *cgroups.freeze*. What happens? What are the contents of the *memory.current* file?
9. Put an '1' in *cgroups.kill*