

## Lab Assignment 6

Keep the network configuration of the machines of **fso24** and **klone** from the previous lab assignment. Container is running with ssh in port 222, and port 222 at local ips of **fso24** is redirected to the container

- install syslogd in the container (`apt-get install inetutils-syslogd`)
  - create user *hideous* in the container (`useradd -m hideous`)
- 1 Create rsa keys for user001 user002 and user003 in **klone**. user003 should protect his/her with a passphrase.
  - 2 Enable user001, user002 and user003 to login into **fso24** (port 22) from **klone** without being asked for a password, although user003 might have to supply the key's passphrase

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- 3 Arrange for user001, user002 and user003 in **klone** to log directly into the container of **fso24** (port 222, using **fso24** ips) as user *hideous* without being asked for a password, although user003 might have to supply the key's passphrase. Can user001, user002 and user003 from **fso24** log into the container as user *hideous* without being asked for a password?
- 4 Make user004, user005 and user006 use a two step authentication when accessing the machine through the graphic login screen in **fso24**
- 5 Arrange for the authentication logs of machine **klone** to be also sent to machine **fso24** and to file `/dev/tty3` in **klone**. Check that it works NOTE: machine receiving logs has to invoke syslog with the `-r` or `--inet` option, machine sending the logs cannot have syslogd invoked with `--no-forward`. Check `/etc/default/`

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- 6 Arrange for the authentication logs on machine **klone** to be sent **ALSO** to the container in **fso24**. Use these three different solutions (do all of them work?)
  - a) **fso24** sends its authentication logs to the container (with @ip\_of\_container)
  - b) machine **fso24** writes its authentication logs to a file in the container
  - c) all traffic from one of **fso24** IPs is redirected to the container (using nftables) and klone uses this ip to forward its auth logs
  
- 7 Use the suggestions made by the *lynis* program to harden the ssh server at machine **fso23**. Allow only user001, user002, user003, user004, user005 and user006 to login using ssh

## Lab Assignment 6: Work submission

- After performing the corresponding tasks of the lab assignment, 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-6*
- The attachment should be named with the lab assignment number and the surname and name of the student, in the form `P5-Surname-Name.pdf`, avoiding non-ascii caracteres (á, é, ñ . . . )
  - Example: work submitted by student *Donald Trump Núñez* should come as an attached file named `P5-TrumpNunez-Donald.pdf`
- In the case the lab assignment is made by two students, submit only one copy (named after ONE of the students) and state BOTH names in the pdf document