

NAME	DATE	13 / 06 / 2017
SUBJECT	ASIX1 - M01UF1	AC. YEAR 2016 - 2017

MARK:

Take screenshots of your answers. Copy and paste each screenshot behind the question you are answering.

1) Working on your **Debian** machine: Start a text editor **on your terminal** and copy the following script :

```
#!/bin/bash
clear
echo "13-6-17"
ID=$(id -u)
echo "USER INFORMATION"
echo "User name --> $USER"
echo "User identification --> $ID"
echo "Personal folder --> $HOME"
exit 0
```

Save the script in a file with the following specifications: **a)** Folder: **home folder**, **b)** File Name: **extr.sh**, **c)** Permissions: owner --> read,write,execute // group--> read // other--> none. Run **extr.sh**. **(1p)**

2) Working on your **Debian** machine and **using the terminal**:

- Create a folder called **extr** in your personal folder
- Copy all files in the **/usr/bin** directory that begin with the character **z** inside **extr**.
- Pack all files in the **extr** directory in a new file called **zfiles.tar** located inside the **extr** directory.
- Compress **zfiles.tar**. **(1p)**

3) Working on your **Debian** machine and **using the terminal**: Create a new **group** called **lcar** whose **gid** is equal to **2178**. Show clearly the entry for the new group. **(1p)**

4) Working on your **Debian** machine and **using the terminal**: Create a new **user** called **lcar**, whose default group is **lcar**, whose home directory is **/home/lcar**, whose shell is **/bin/bash**, whose password is **clotje2718** and a **uid** equal to **2718**. Show clearly the entry for the new user. If you have not answered question 3, add **lcar** to the **users** group. **(1p)**

5) Working on your **Debian** machine and **using the terminal**: create a folder called **tu1Ext** in your personal folder. Add an ACL rule (using the symbolic mode) for the folder **tu1Ext** that gives to **lcar** the following permissions: **read** and **write**. Add another ACL (using the numeric mode) for the folder **tu1Ext** that gives to the group **news** the following permissions: **read**, **write** and **execute**. Display the **tu1Ext**'s ACL. **(1p)**

6) Working on your **Debian** machine and **using the terminal**:

- Start a new instance of **geany** with a **nice** value equal to **2**. Check and show me clearly that **geany** is running with the desired nice value.
- Change the **nice** value of process started in the previous question to a value equal to **7**. What has happened?. Provide an explanation for what is happening in this particular case when you try to change the nice number. **(1p)**

7- Working on **Debian** and using a terminal:

7.1) Using a **SysVinit** command-line tool: **Stop** the **syslog** server.

7.2) Using a **SysVinit** command-line tool: **Show** the **rsyslog** server **status**.

7.3) Using a **SysVinit** command-line tool, remove **rsyslog** as service started by the computer during the boot process.

7.4) **Show that cron** has been removed from the list of services **started during the computer boot process**. (1p)

8) Working on your **Debian** machine and **using the terminal**: Show me clearly the **IP address** of your computer, the **IP address** of your **router** and the **IP addresses** of your **DNS servers**. (1p)

9) Working on your **Debian** machine:

a) Add two new hard disks with the following characteristics: (Don't take screenshots)

First hard disk:	Second hard disk:
Hard drive file: VDI Dynamically allocated Name: dd1 Size: 5GB Attached to SATA1	Hard drive file: VDI Dynamically allocated Name: dd2 Size: 5 GB Attached to SATA2

b) Run **fdisk** and

* Delete any partition of the SATA1 and SATA2 hard drives.

* Create one single primary partition for the full size of the SATA1 and SATA2 hard drives.

* Change the partition type to **8e - Linux LVM**.

c) Declare partitions created in the previous section as LVM physical volumes

d) Create a volume group called **vg4** made of the LVM physical volumes declared in section c)

e) Create a **8GB** logical volume called **logvol4** in the volume group previously created.

f) Show information about the LVM logical volume **logvol4**. (1p)

10) Working on your **Debian** machine and **using a terminal**:

a) Format the logical volume **logvol4** created in the previous question. The format will be **ext4**.

b) Mount **logvol4** on a mount point called **/media/logvol4** (if **/media/logvol4** does not exist then, create it). Check that **logvol4** has been mounted. (1p)

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NOTE 1: You must take screenshots with an applications installed on your virtual machine.

NOTE 2: You **can not** become the **root** user to answer any question. Questions answered with the help of root user will be graded with 0 points.

NOTE 3: If you answer any question running a command with the privileges of the root user and you do not need it, the answer will be graded with 0 points.

GENERAL CONDITIONS

a) Save your report as an **ODT** file with the following filename: **asix1_surname_name_m01tu01extr.odt** (where cognom means you real surname and name means your real name).

b) Save your report as an **PDF** file with the following filename: **asix1_surname_name_m01tu01extr.pdf** (where cognom means you real surname and name means your real name).

c) Send both files attached to an e-mail to **cf@collados.org**. Reports sent to the wrong e-mail address could be no graded. The subject for the mail will be: **asix1_surname_name_m01tu01extr**.