ANNEX A · PRACTICAL 2.4 — DEBIAN

Name: _____ **Date:** _____ **PC:** _____

You install Debian 13 in `deb-lab`, your machine for the whole year. **Every time you choose something, write it in the decision log** on the back.

TASK 1 Build the VM from your plan

1. Virtual Machine Manager → `File` → `Add Connection` → `Custom URI...` → `qemu+ssh://<user>@<server>/session` → `Connect`, password from the slip. Select the new connection.
2. `File` → `New Virtual Machine` (`Connection` must show the server) → `Local install media (ISO image or CDROM)`.
3. ISO: type `/srv/isos/debian-13.7.0-amd64-netinst.iso` (not `Browse Local`). Memory `4096`, CPUs `2`, disk `25` GiB.
4. Name: `deb-lab` (exactly like this). Network selection: `Bridge device...`, Device name: `virbr0` → `Finish`.
5. In Debian's menu choose `Graphical install` and press Enter.

DONE WHEN you see the screen Select a language.

TASK 2 Answer the interview (Continue after each answer; Ctrl + Alt frees the mouse)

Screen	Answer	Screen	Answer
Language	`English`	Root password	leave **both boxes empty**
Location	`other` → `Europe` → `Spain`	Full name	`student`
Locale	`United States (en_US.UTF-8)`	Username	`student`
Keyboard	`Spanish`	Password	the lab password, twice
Hostname	`deb-lab`	Time zone	`Madrid`
Domain name	leave empty		

DONE WHEN you see the screen Partition disks.

TASK 3 Cut the disk

1. `Guided - use entire disk` → the only disk (`Virtual disk 1`) → `All files in one partition (recommended for new users)`.
2. Read the overview. Which partitions will it create? _____
3. `Finish partitioning and write changes to disk` → **select** `Yes` (the default is `No`) → `Continue`.

DONE WHEN a progress bar says Installing the base system. Now you can take the pause.

TASK 4 Last questions and first boot

1. Scan extra installation media? `No`. Mirror: `Spain` → `deb.debian.org`, proxy empty. Usage survey: `No`.
2. Software selection: keep the three ticked (`Debian desktop environment`, `GNOME`, `standard system utilities`). Now it downloads the desktop: this is the long part.
3. Install the GRUB boot loader to your primary drive? `Yes` → choose `/dev/vda`. Then `Continue`.

DONE WHEN the VM restarts and shows a login screen with the user `student`. Log in.

TASK 5 Check your new system

Press **Super**, type `terminal`, Enter. Type each command, press Enter, write the answer. `sudo` means "do this as administrator": it asks for your password and **shows nothing while you type**.

Command	Look for	My result
`cat /etc/os-release`	the line `PRETTY_NAME`	
`lsblk`	partitions of `vda`	
`df -h /`	column `Used`	
`groups`	is `sudo` in the list?	
`sudo apt update`	how many can be upgraded?	
`sudo apt upgrade`	answer `Y`; any error?	

DONE WHEN the six cells are filled.

TASK 6 **Snapshot: clean**

1. `Virtual Machine` → `Shut Down` → `Shut Down`. Wait until the screen is black.
2. `View` → `Snapshots` → button `+` → Name: `clean` → `Finish`.

DONE WHEN the list on the left shows `clean`.

DECISION LOG

Fill it in **during** the installation. At least six rows.

Decision	Options I had	I chose	Why
Root password			
Partitioning			
Software selection			
GRUB			

Hand in: `practical-2.4-surname.md` (report template from 23/10): the VM's specification, this log as a table, the results of Task 5, one problem and how you solved it. Google Classroom, before Sunday 08/11, 23:59.
Marks (10): VM as planned 3 · log with reasons 3 · checks and update 2 · snapshot 1 · template 1.

EXIT TICKET

Alone, no notes. Tick one answer.

1. You left the root password empty in Debian's installer. What happens?

- ☐ a) Anyone can log in as root with no password
- ☐ b) The installation stops
- ☐ c) Root login is disabled and your user can use `sudo`
- ☐ d) The root password becomes `root`

2. On a real PC with Windows and your photos, `Guided - use entire disk` would…

- ☐ a) erase everything on that disk
- ☐ b) use only the free space
- ☐ c) ask Windows for permission first
- ☐ d) copy the photos to the new system

3. What is GRUB for?

- ☐ a) It downloads the packages
- ☐ b) It is the graphical desktop
- ☐ c) It checks the ISO's checksum
- ☐ d) It is the bootloader: it loads the kernel

4. What is the snapshot `clean`?

- ☐ a) A copy of the ISO
- ☐ b) A saved state of the VM you can go back to
- ☐ c) An antivirus scan
- ☐ d) A backup stored on another disk