ANNEX A · PRACTICAL 2.5 — WINDOWS 11

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

You build a VM that passes the Windows 11 hardware check and install Windows 11 Pro on it. Write down what you see: you need it for the report.

TASK 1 **Build the VM — with one new tick**

Server: _____ User: _____

1. virt-manager: `File` → `Add Connection` → `Custom URI...` → `qemu+ssh://<user>@<server>/session` → `Connect`, password from the slip. Select the new connection.
2. New VM wizard (`Connection` must show the server): type the path of the Windows 11 file in `/srv/isos/` (not `Browse Local`) · Memory `4096` · CPUs `2` · disk `64` GiB · Network `Bridge device...`, Device name `virbr0` · Name `win11`.
3. On the last screen tick **`Customize configuration before install`**, then `Finish`. A hardware list opens.
4. `Overview` → Firmware: choose the `UEFI` entry with `secboot` or `.ms.fd` in its name → `Apply`.
5. `SATA Disk 1` → Disk bus: `VirtIO` → `Apply`.
6. `Add Hardware` → `Storage` → Device type `CDROM device` → type `/srv/isos/virtio-win.iso` → `Finish`.
7. Is there a line `TPM v2.0` in the list? If not: `Add Hardware` → `TPM` → `Emulated`, `CRB`, `2.0` → `Finish`.
8. `Begin Installation`. Click in the window and **press any key at once** when you read `Press any key to boot from CD or DVD`.

DONE WHEN the Windows setup asks for a language.

TASK 2 **Start the setup**

Language and keyboard (`Spanish`) → `Install Windows 11` (tick the box below it) → `I don't have a product key` → **`Windows 11 Pro`** → accept the licence terms.

DONE WHEN you reach the screen Select location to install Windows 11.

TASK 3 **The invisible disk**

How many disks does Windows show? _____ How many did you give the VM? _____

Why can Windows not see it? (Think: what does an OS need to talk to a device?)

_____

_____

Fix: `Load Driver` → `Browse` → CD drive `virtio-win` → `viostor` → `w11` → `amd64` → `OK` → `Install`.

Name of the driver you installed: _____

Select the 64 GB of unallocated space → `Next` → `Install`. Windows now restarts several times: **do not press any key** when `Press any key...` appears again.

DONE WHEN the disk appeared in the list and the installation is copying files.

TASK 4 **First-run questions: a local account**

`Spain` → `Spanish` → `Skip` → device name **`win11`** → `Set up for work or school` → `Sign-in options` → **`Domain join instead`** → name `student` → the lab password → three security questions → privacy switches: all off → `Accept`.

My three security answers (you will need them if you forget the password):

_____

How many privacy questions did Windows ask? _____ And Debian? _____

DONE WHEN you see the Windows desktop, logged in as `student`.

TASK 5 **Inspect the system**

Press **Windows + R**, type the name, press Enter. Write what you find.

Type	Look at	My result
`winver`	Edition and version	
`msinfo32`	`BIOS Mode` / `Secure Boot State`	
`tpm.msc`	`Specification Version`	
`devmgmt.msc`	How many devices have a yellow sign?	
`ms-settings:activation`	Activation state	

Now open File Explorer → CD drive `virtio-win` → double-click `virtio-win-guest-tools` → `Next` … `Finish`.

Yellow signs in `devmgmt.msc` after that: _____

DONE WHEN the five cells are filled and no device has a yellow sign.

TASK 6 **Snapshot: clean**

Start → Power → `Shut down`. When the VM is off: `View` → `Snapshots` → `+` → Name `clean` → `Finish`.

DONE WHEN the snapshot list shows `clean` (or your teacher gave you another way and you did it).

Hand in: `practical-2.5-surname.md` (report template from 23/10): the VM's specification, why each special setting of Task 1 was needed, the Task 5 table, the story of the invisible disk in your own words, and what "not activated" means. Google Classroom, before Sunday 08/11, 23:59. **Marks (10):** VM and installation 3 · driver problem explained 2 · checks and drivers 2 · snapshot 1 · licence 1 · template 1.

EXIT TICKET

Alone, no notes. Tick one answer.

1. What is a TPM, and how does our VM have one?

☐ a) An antivirus; Windows downloads it
☐ b) A faster kind of disk; virt-manager creates it
☐ c) A safe for secret keys; a program on the host emulates it
☐ d) A licence key; the school provides it

2. Why did the Windows setup show no disk?

☐ a) It had no driver for the VirtIO disk
☐ b) The 64 GB disk was too small
☐ c) Secure Boot blocked the disk
☐ d) The ISO was damaged

3. You installed Windows without a product key. The system is…

☐ a) free, like Debian
☐ b) licensed for 10 years
☐ c) blocked until you pay
☐ d) installed but not activated, and not licensed

4. What is a local account?

☐ a) An account that needs an e-mail address
☐ b) A user that exists only on that computer
☐ c) The administrator of the whole network
☐ d) An account shared by all the VMs