ANNEX A · UBUNTU SERVER, FIRST STEPS

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

Today's machine has no desktop: a server. You install it with the keyboard only and talk to it with commands. Installer keys: **Tab** and **arrows** move · **Space** ticks a box · **Enter** accepts.

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 it.
2. `File` → `New Virtual Machine` (`Connection`: the server) → `Local install media`. Type `/srv/isos/ubuntu-26.04.1-live-server-amd64.iso` (not `Browse Local`). Memory `2048`, CPUs `2`, disk `20` GiB.
3. Name: `ubu-srv`. Network selection: `Bridge device...`, Device name: `virbr0` → `Finish`. In the menu: `Try or Install Ubuntu Server`.

DONE WHEN you see a list of languages on a black screen.

TASK 2 Install with the keyboard

Screen	Answer	Screen	Answer
Language	`English`	Storage	`Use an entire disk`, LVM ticked
Installer update	`Continue without updating`	Summary, red box	`Done`, `Continue`
Keyboard	`Spanish`	Profile	`student`, `ubu-srv`, `student`, password
Type of installation	`Ubuntu Server`	Ubuntu Pro	`Skip for now`
Network	wait for `192.168.122.x`	SSH	tick `Install OpenSSH server`
Proxy, Mirror	empty; wait for test	Server snaps	tick nothing

Profile asks, in order: your name, the server's name, a username, the password twice. When `Reboot Now` appears at the bottom, select it. If it asks to remove the installation medium, press Enter.

DONE WHEN the screen stops at a line ending in `login:` (press Enter if you do not see it).

TASK 3 First login and a look around

Type `student`, Enter, then the password (**nothing is shown while you type**), Enter. Run each command and write the answer.

Command	Question	Answer
`whoami`	Who am I?	
`hostname`	Which machine?	
`cat /etc/os-release`	Line `PRETTY_NAME`	
`ip -br a`	My address (not `lo`)	
`free -h`	`Mem:` total / used	
`df -h /`	Size / Used	
`lsblk`	How many partitions has `vda`?	

The disk has 20 GB. What size does `df -h /` show? Write a guess why:

_____

DONE WHEN the seven answers are written.

TASK 4 The master key

Run these three commands, one at a time.

```
apt update
sudo apt update
sudo apt upgrade
```

The first one fails. Copy the last two words of the error: _____

After the second: how many packages can be upgraded? _____ The third asks `[Y/n]` : press Enter.

In your own words: what is the difference between `apt update` and `apt upgrade` ?

_____

_____

DONE WHEN `sudo apt upgrade` ends and gives you the prompt back with no error.

TASK 5 Switch off properly and take the snapshot

1. Type `sudo poweroff` and press Enter. Wait until the screen is black.
2. `View` → `Snapshots` → button `+` → Name: `clean` → `Finish` .

DONE WHEN the snapshot list shows `clean` .

TASK 6 Desktop against server

Start `deb-lab` , log in, open a terminal (**Super**, type `terminal`) and run `free -h` and `df -h /` . Fill the table, then shut `deb-lab` down. **Keep this sheet for Friday.**

	`deb-lab` (Debian, desktop)	`ubu-srv` (Ubuntu Server)
RAM given to the VM		
RAM used doing nothing (`free -h`)		
Disk used (`df -h /`)		
Installer: mouse or keyboard?		
What you see after login		

DONE WHEN you can say, with two numbers, what a desktop costs.

EXIT TICKET

Alone, no notes. Tick one answer.

1. What does `sudo` in front of a command do?

- ☐ a) It runs the command faster
- ☐ b) It runs that one command as root, after asking your password
- ☐ c) It logs you in as root until you restart
- ☐ d) It downloads the command first

2. What does `sudo apt update` do?

- ☐ a) Installs every new version
- ☐ b) Upgrades Ubuntu to the next release
- ☐ c) Restarts the server
- ☐ d) Downloads the fresh list of available packages

3. Ubuntu 26.04 is an LTS release. That means...

- ☐ a) security updates for a long time (five years)
- ☐ b) it only works on servers
- ☐ c) it is a test version
- ☐ d) it must be paid for

4. Why does a server usually have no graphical desktop?

- ☐ a) Linux servers cannot draw windows
- ☐ b) Desktops are illegal on servers
- ☐ c) Nobody sits at it: a desktop wastes RAM and adds things that can fail
- ☐ d) It makes the network faster