ANNEX A · PRACTICAL 6.2 — SAMBA FILE SERVER

Name: _____ **Date:** _____ **Group:** DAM-1

Work on the server through SSH (`ssh srv`) from `deb-lab`. Take a snapshot `pre-samba` of `ubu-srv` first.

TASK 1 Install Samba

```
sudo apt update && sudo apt install samba
systemctl status smbd --no-pager | head -5
sudo ss -tlnp | grep smbd
```

On which port(s) does `smbd` listen? _____

☐ **DONE WHEN** the status says `active (running)`.

TASK 2 The first share

```
sudo mkdir -p /srv/samba/common
sudo chmod 1777 /srv/samba/common
sudo cp /etc/samba/smb.conf /etc/samba/smb.conf.orig
sudo nano /etc/samba/smb.conf
```

Add at the **end** of the file:

```
[common]
   comment = Everybody at Tramuntana
   path = /srv/samba/common
   valid users = @dev @design @admin
   read only = no
```

```
testparm -s
sudo systemctl restart smbd
```

What does the `1` in `1777` do? _____

☐ **DONE WHEN** `testparm -s` prints `Loaded services file OK.` with no warning about your section.

TASK 3 Samba users

```
sudo smbpasswd -a marta
sudo smbpasswd -a joan
sudo pdbedit -L
```

☐ **DONE WHEN** `pdbedit -L` lists `marta` and `joan`.

TASK 4 From Linux

On `deb-lab`:

```
sudo apt install smbclient cifs-utils
smbclient -L //ubu-srv -U marta
echo "hello from deb-lab" > hello.txt
smbclient //ubu-srv/common -U marta
```

At the `smb: \>` prompt type `put hello.txt`, then `ls`, then `exit`. Copy here the last line that `smbclient -L` prints:

_____

Then open the file manager → Other Locations → `smb://ubu-srv/common`.

☐ **DONE WHEN** `hello.txt` is in `/srv/samba/common` on the server.

TASK 5 From Windows

On `win11`:

1. File Explorer, address bar: `\\192.168.122.10\common` → user `marta` and her **Samba** password.
2. **This PC** → the three dots in the toolbar → **Map network drive** → letter `Z:` → the same folder → tick **Connect using different credentials**.

3 Create a text file in `Z:` called **`from-windows.txt`**.

4 On the server: **`ls -l /srv/samba/common`**. Who owns **`from-windows.txt`**? _____ Why that name and not your Windows account?

_____

☐ **DONE WHEN** `Z:` shows **`hello.txt`**, and the server shows **`from-windows.txt`**.

TASK 6 Like a local folder

On **`deb-lab`**:

```
sudo mkdir /mnt/common
sudo mount -t cifs //ubu-srv/common /mnt/common -o username=joan,uid=$(id -u),gid=$(id -g)
df -hT /mnt/common
touch /mnt/common/from-mount.txt
sudo umount /mnt/common
```

Type shown by **`df -hT`**: _____

TASK 7 Break it, read it, fix it

Write the message you get. Repair each one before the next.

7.1 **`smbclient //ubu-srv/common -U marta`** with a **wrong** password:

_____

7.2 On the server **`sudo chmod 755 /srv/samba/common`**, then as **`marta`**: **`put hello.txt test2.txt`**

_____

Repair: **`sudo chmod 1777 /srv/samba/common`**

7.3 In **`smb.conf`** change **`read only`** to **`raed only`**, run **`testparm -s`**:

_____

Repair the word, **`testparm -s`**, **`sudo systemctl restart smbd`**.

☐ **DONE WHEN** all three are repaired: **`marta`** can **`put`** a file again and **`testparm -s`** shows no warning.

Hand in on Classroom: **`practical-6.2-surname.md`** with the command and output of each task and one sentence on what it proves. **Marking (10):** service running and port 1 · share section, **`testparm`** clean 2 · Samba users 1 · access from Linux 1.5 · access from Windows with a mapped drive 2 · mount 0.5 · three errors read and repaired 1.5 · clear report 0.5.

Exit ticket — alone, no notes. One answer each.

1. Which command checks **`smb.conf`** for mistakes?

☐ **a)** **`smbclient`** ☐ **b)** **`testparm`**
☐ **c)** **`pdbedit`** ☐ **d)** **`smbd -check`**

2. **`marta`** exists in Linux with a password, but the share refuses her. What is missing?

☐ **a)** A reboot ☐ **b)** Her SSH key
☐ **c)** A fixed address ☐ **d)** **`smbpasswd -a marta`**

3. **`tree connect failed: NT_STATUS_ACCESS_DENIED`** means…

☐ **a)** The user is not allowed on that share ☐ **b)** The password is wrong
☐ **c)** The server is off ☐ **d)** The file is read-only

4. Which one is a UNC path?

☐ **a)** **`smb.conf/common`** ☐ **b)** **`/srv/samba/common`**
☐ **c)** **`\\ubu-srv\common`** ☐ **d)** **`Z:/common`**