# ANNEX A · SHARE PERMISSIONS & GROUPS

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

Server through SSH (`ssh srv`). Client: `deb-lab`. Snapshot `pre-shares` first. **RW** = read and write · **R** = read · **–** = no access.

## TASK 1 The plan

Fill the **Plan** table from the board. You fill **Test** in task 2 (and correct it after task 4).

| Plan | marta | pau | joan | aina |
|---|---|---|---|---|
| common | | | | |
| dev | | | | |
| design | | | | |
| admin | | | | |

| Test | marta | pau | joan | aina |
|---|---|---|---|---|
| common | | | | |
| dev | | | | |
| design | | | | |
| admin | | | | |

## TASK 2 Three department shares (on the server)

```
for d in dev design admin; do
  sudo mkdir -p /srv/samba/$d
  sudo chgrp $d /srv/samba/$d
  sudo chmod 2770 /srv/samba/$d
done
sudo smbpasswd -a pau
sudo smbpasswd -a aina
sudo nano /etc/samba/smb.conf
```

Add the three sections at the end (left column first):

```
[dev]
   path = /srv/samba/dev
   valid users = @dev
   read only = no

[design]
   path = /srv/samba/design
   valid users = @design
   read only = no
   create mask = 0660
   directory mask = 2770
```

```
[admin]
   path = /srv/samba/admin
   valid users = @admin
   read only = no
   browseable = no
   create mask = 0660
   directory mask = 2770
```

Then `testparm -s` and `sudo systemctl restart smbd`. Test from `deb-lab`, one line per user and share, and fill the **Test** table:

```
smbclient //ubu-srv/design -U joan -c 'put hello.txt joan.txt; ls'
smbclient -L //ubu-srv -U marta
```

Which share is missing in the list? _____ Can `aina` still open it? _____

☐ `DONE WHEN` the **Test** table is full, and every refusal has its message next to it.

## TASK 3 Pau and Marta's file

```
smbclient //ubu-srv/dev -U marta -c 'put hello.txt plan.txt'
smbclient //ubu-srv/dev -U pau -c 'put hello.txt plan.txt'
```

Message for `pau`: _____

On the server: `ls -l /srv/samba/dev` → permissions of `plan.txt`: _____

Fix: add `create mask = 0660` and `directory mask = 2770` to `[dev]`, restart `smbd`, delete the old file (`sudo rm /srv/samba/dev/plan.txt`) and run both lines again.

☐ **DONE WHEN** **pau** replaces **plan.txt** and its line in **ls -l** starts with **-rw-rw----**.

## TASK 4 Administration reads dev

In **[dev]** change and add:

```
   valid users = @dev @admin
   read only = yes
   write list = @dev
```

```
sudo setfacl -m g:admin:rx /srv/samba/dev
sudo setfacl -d -m g:admin:rx /srv/samba/dev
getfacl -p /srv/samba/dev
sudo systemctl restart smbd
```

Delete and re-create **plan.txt** as **marta**, then from **deb-lab**:

```
smbclient //ubu-srv/dev -U aina -c 'get plan.txt; put hello.txt aina.txt'
```

Which of the two worked? _____ Message of the other:

_____

☐ **DONE WHEN** **aina** can **get** but not **put**, and **marta** and **pau** can still **put**.

## TASK 5 Which door wins?

**Write your prediction before you try.**

**A.** On the server: **sudo chmod g-w /srv/samba/dev**. The share still says Marta may write. Prediction — can **marta** put a file? _____ Result: _____ Restore: **sudo chmod g+w /srv/samba/dev**

**B.** On the server: **sudo setfacl -m g:admin:rwx /srv/samba/dev**. The folder now lets **admin** write. Prediction — can **aina** put a file? _____ Result: _____ Restore: **sudo setfacl -m g:admin:rx /srv/samba/dev**

The rule, in your own words:

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☐ **DONE WHEN** both are restored and the test of task 4 gives the same result as before.

## TASK 6 From Windows

On **win11**: open **\\192.168.122.10\dev** as **aina**. Open a file; try to create one. Then **net use * /delete** in a terminal and repeat as **marta**. What changes? _____

## TASK 7 The log

In **~/server-log.md**: the date, the final table, the four share sections, **ls -ld /srv/samba/***, one line per experiment of task 5. Tick line 5 of the project checklist.

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

**1.** The share says read and write. The folder gives Aina's group only **r-x**. Aina can…

☐ **a)** read and write ☐ **b)** do nothing
☐ **c)** only read ☐ **d)** write but not read

**2.** Files made through Samba are read-only for the group. Which line fixes it?

☐ **a)** **create mask = 0660** ☐ **b)** **browseable = yes**
☐ **c)** **valid users = @dev** ☐ **d)** **read only = yes**

**3.** What does **browseable = no** do?

☐ **a)** Blocks every user ☐ **b)** Makes the share read-only
☐ **c)** Asks for a password ☐ **d)** Hides the share from the list

**4.** **dev** owns a folder. **admin** must read it, and nobody else. What do you use?

☐ **a)** **chmod 777** ☐ **b)** An ACL: **setfacl -m g:admin:rx**
☐ **c)** A second **chgrp** ☐ **d)** The sticky bit