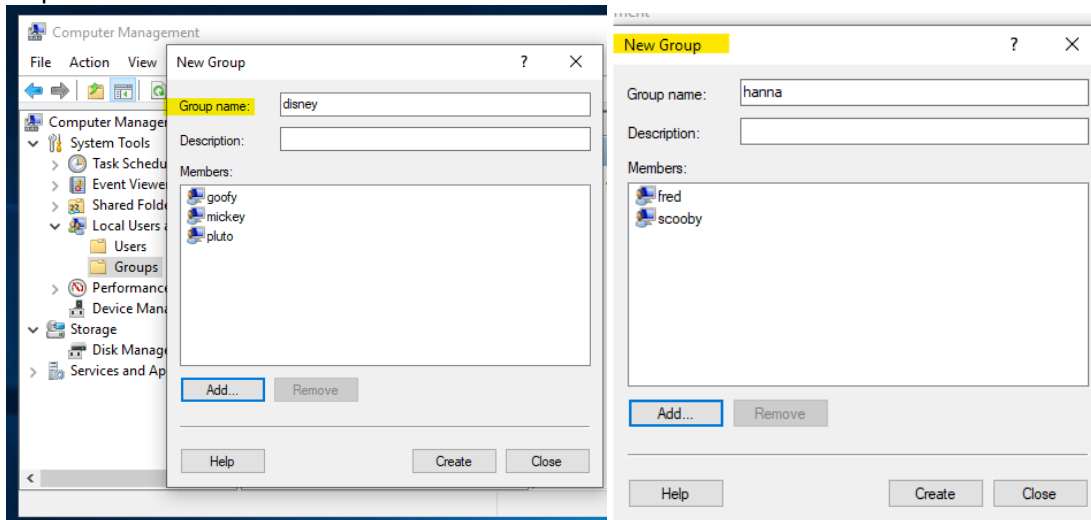# NTFS exercises (1)

Fill in the following folder and file permissions tables based on the following criteria:

1. There are two groups: **disney** whose members are **pluto**, **mickey** y **goofy**; **hanna** whose members are **fred** y **scooby**.

As in previous exercises, from Computer Management > Local Users and Groups I create the required exercises:


2. Only the group **hanna** can access the folder **barbera** to create, write and delete files. **disney** group cannot enter into this folder.

Firstly, once I have selected the desired folder, I click on Properties > Security. In that window, I click on the box "Advanced".
There, I click on the box "Add…" to add a user or group, and there I can edit the permissions. If I want to access the folder to create, write and delete files, I would need to check the following permission:

- For the group "hanna": <u>ALLOW</u> MODIFY – permission that allows create and write and deletion.
- For the group "Disney": <u>DENY</u> READ & EXECUTE - permits viewing and accessing of the file's contents as well as executing of the file
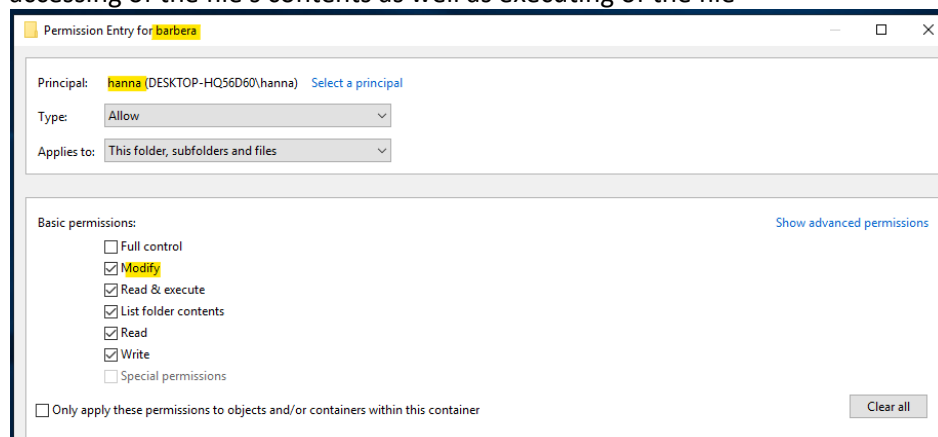
barbera **folder resulting table:**

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
hanna (explicit)		X	X	X	X					
disney								X	X	

3. The users of **disney** can create and write files in the folder **paris**, but they cannot delete them. The users of **hanna** can only read the files of this folder.

Using the same process as in previous exercise, the permissions that I have to allow to the group "Disney" and "hanna" to the folder paris are:
- For the group "disney": <u>ALLOW</u> WRITE, READ & EXECUTE – create and read files. But they cannot modify then, so it cannot be deleted.
- For the group "hanna": <u>ALLOW</u> READ & EXECUTE, READ – it only allows to read, but not to edit its content.

paris **folder resulting table:**

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
disney (explicit)			X	X	X					
hanna (explicit)			X	X						

4. There is a file called **flinstones.doc** in the folder **barbera**. The user **scooby** cannot open this file.

I need firstly to disable "Disable inheritance" (enabled by default) in hanna, because this user belongs to this group. This means that the subfolders and files are not able to inherit permissions that have been assigned to the parent folder:
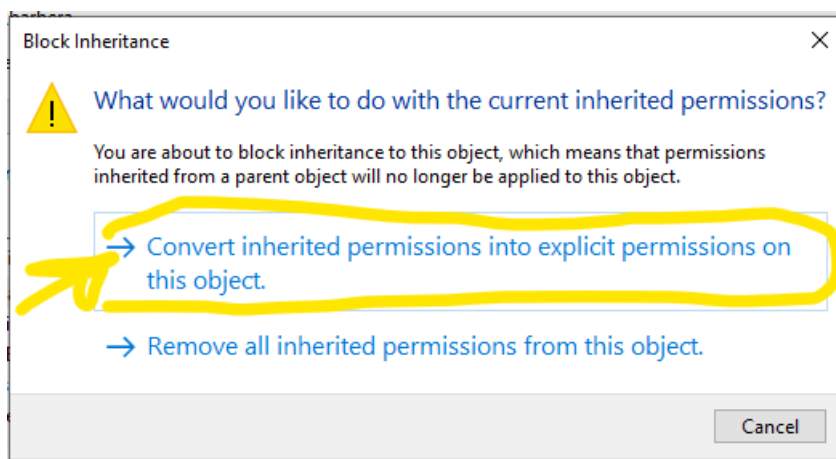
Then, the permissions needed for this task are the following ones:

- For the group "hanna": <u>ALLOW</u> MODIFY, READ & EXECUTE, READ, WRITE – the default permissions for this group.
- For the user "scooby": <u>DENY</u> READ & EXCEUTE, READ – this way, the user cannot open this folder and doesn´t affects to the rest of the users included in the group. As it´s explicit, the Explicit Deny has priority to the Inherited Allow of its group.

flinstones.doc resulting table:

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
hanna (inherited)		X	X	X	X					
scooby (explicit)								X	X	

5. The users **mickey** and **fred** are able to copy files in the folder **movies**. The other users can only read files in this folder.

The following permissions are changed:

- For the groups "disney" and "hanna": READ & EXECUTE, READ – this options permits viewing and accessing of the file's contents as well as executing of the file. This affects to the rest of the users in those groups.
- For the specific users "mickey" and "fred": READ & EXECUTE, READ, WRITE – this permissions gives the possibility to read, open, execute or edit the files.

movies folder resulting table:

User/Group	Allow					Deny				
	Full Control	Modify	Read & Execute	Read	Write	Full Control	Modify	Read & Execute	Read	Write
disney (explicit)			X	X						
hanna (explicit)			X	X						
mickey (explicit)			X	X	X					
fred (explicit)			X	X	X					

6. Do not delete Administrator permissions. They will always have "Full Control" over allthe resources.

Logged in as Administrator, in the local disk options I must edit the permissions to Allow the group "Administrators" to have Full Control access:

Thursday, March 24, 2022

Owner: Atenea (DESKTOP-HQ56D60\Atenea) 🛡 Change

| Permissions | Auditing | Effective Access |

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

	Type	Principal	Access	Inherited from	Applies to
👤	Allow	mickey (DESKTOP-HQ56D60\mi...	Read, write & execute	None	This folder, subfolders and files
👤	Allow	fred (DESKTOP-HQ56D60\fred)	Read, write & execute	None	This folder, subfolders and files
👥	Allow	disney (DESKTOP-HQ56D60\dis...	Read & execute	None	This folder, subfolders and files
👥	Allow	hanna (DESKTOP-HQ56D60\han...	Read & execute	None	This folder, subfolders and files
👥	Allow	Administrators (DESKTOP-HQ56...	Full control	None	This folder, subfolders and files
👥	Allow	SYSTEM	Full control	None	This folder, subfolders and files