

## Lab 8.2.5 Configuring NTFS Permissions on a Windows File Server

*From TestOut CompTIA Security+ Course*

In this lab I will be configuring NTFS Permission on a Windows Server based File Server (SMB Share)

**The scenario for this lab is as follows:**

“There are two groups of users who access the CorpFiles server: Marketing and Research.

Each group has a corresponding folder:

- D:\Marketing Data
- D:\Research Data

In this lab, your task is to:

1. Disable permissions inheritance for D:\Marketing Data and D:\Research Data and convert the existing permissions to explicit permissions.
2. For each of the above folders, remove the Users group from the access control list (ACL).
3. Add the Marketing group to the Marketing Data folder ACL.
4. Add the Research group to the Research Data folder ACL.
5. Assign the groups Full Control to their respective folders.
6. Do not change any other permissions assigned to other users or groups.”

Since this Windows Server OS Machine is housing the file server, all files are being accessed on this machine's disk. If a User needs to access a file from the Windows Server, their machine will establish an SMB connection from their client Windows machine to the server. They will be accessing files which are stored locally on the Server. Therefore, we need to edit permissions on this File server that way they are applied across the domain.

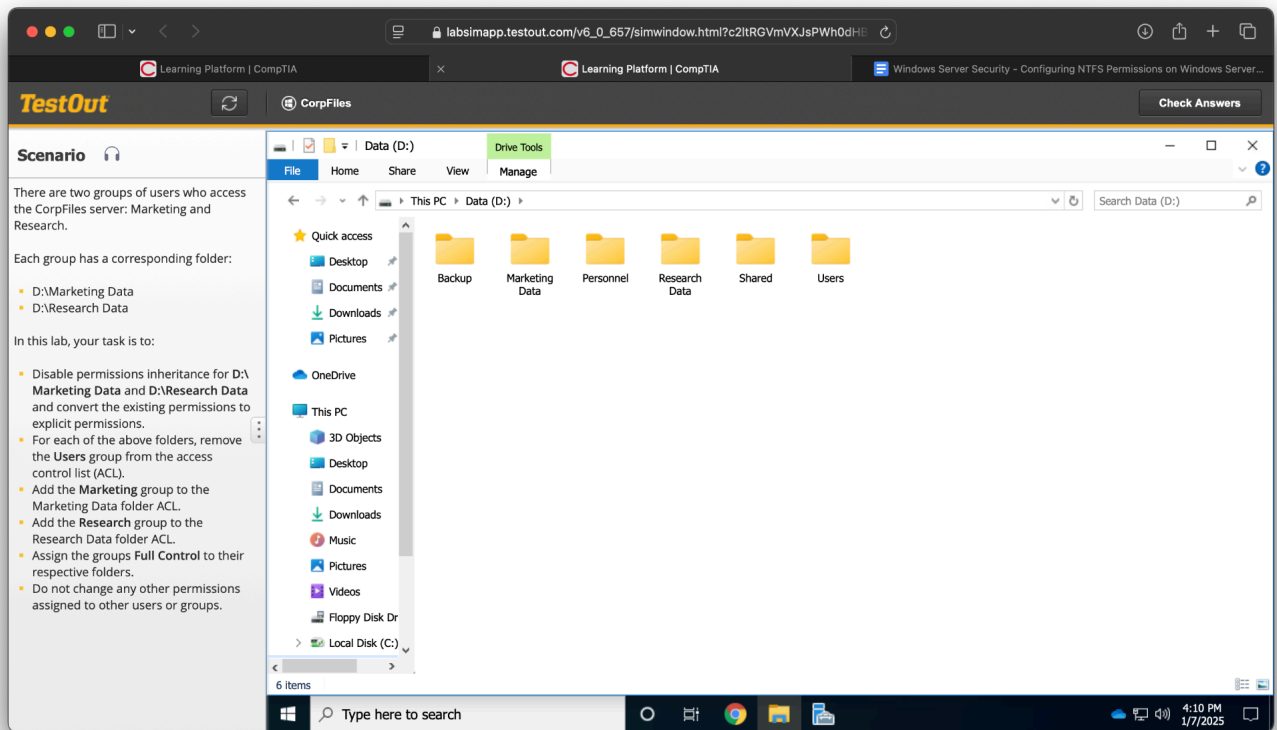
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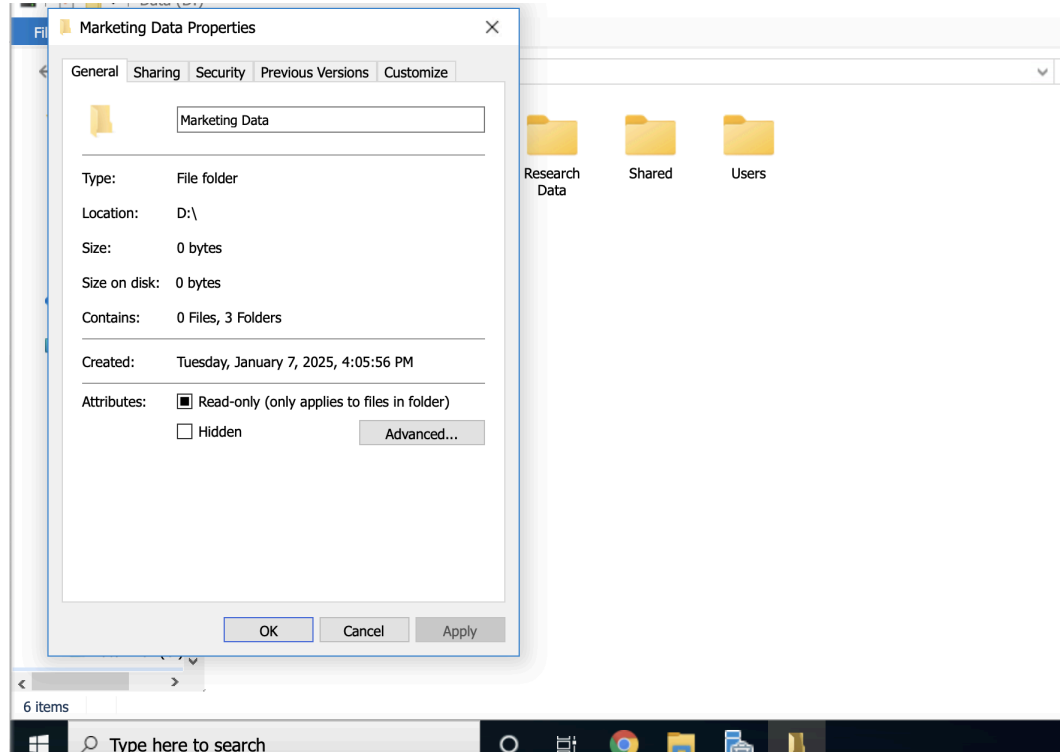
The Lab tells me that I need to first edit the permissions on the D:\Marketing and D:\Research folders and turn the current permissions set into implicit permissions.

TO do this I will open up File Explorer and navigate to **D:\**.

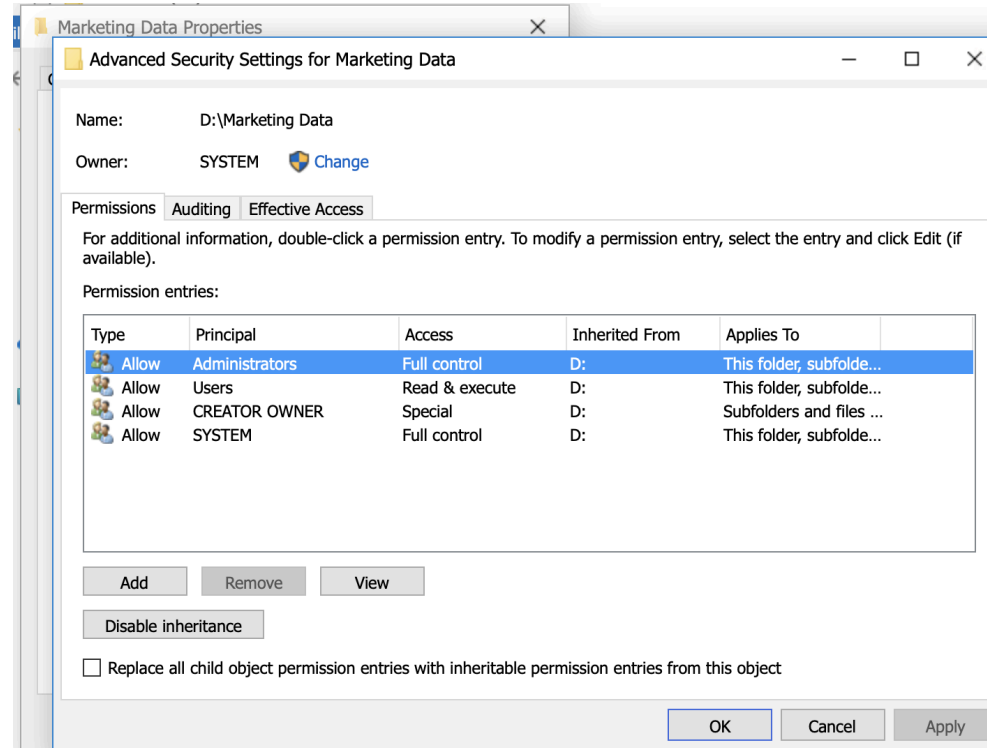


After right-clicking the **D:\Marketing Data** folder and hitting **Properties**, I will navigate over to the **Security** tab which looks like this:

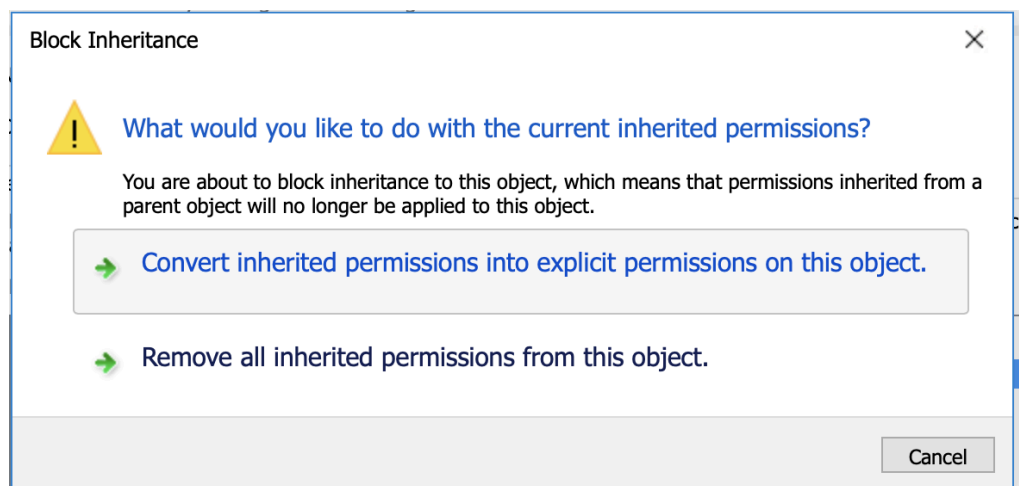
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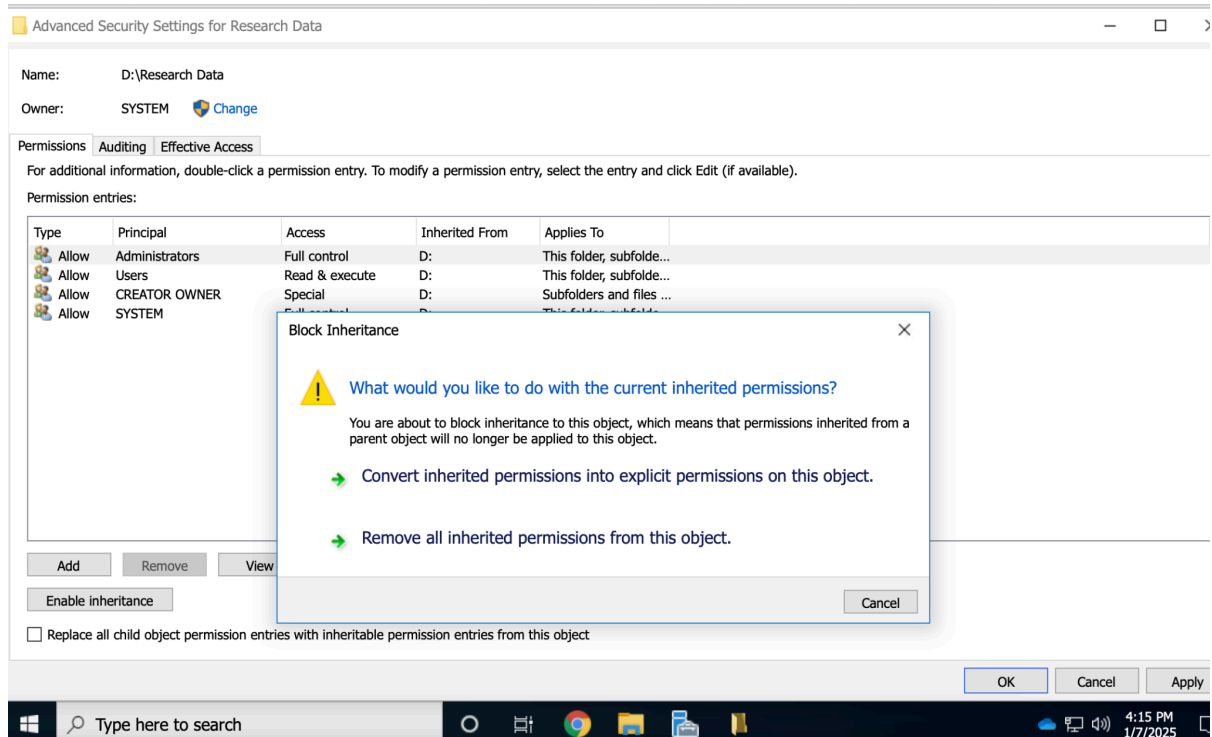
Then I'll head to **Advanced Security Settings** which then pops up the following dialog box:



As you can see below the menu there is a button named **Disabled Inheritance**. This is the button I will need to hit to disabled Inheritance permissions. Doing so brings up another dialog box:



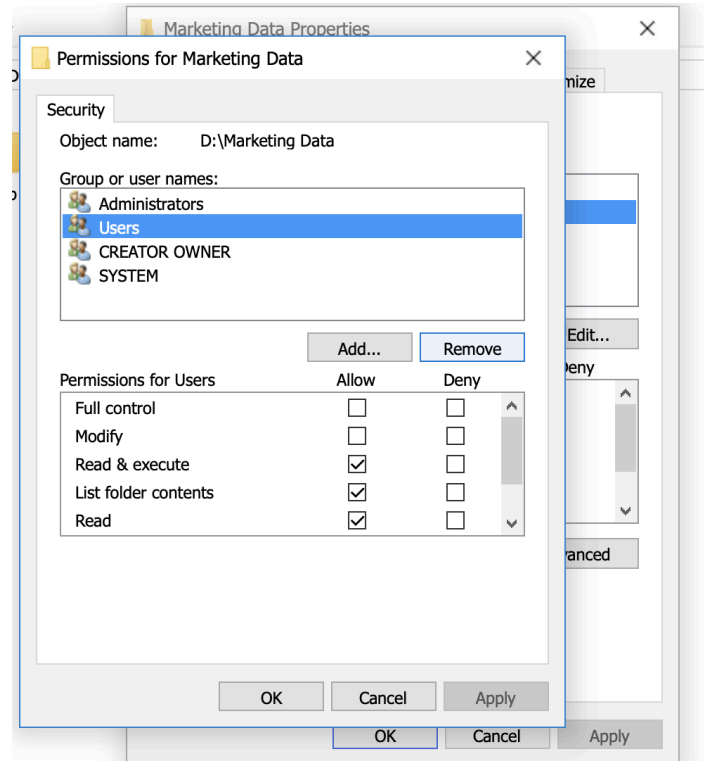
After I hit **Convert inherited permissions into explicit permissions** on this **object** I can hit **Apply** then **Ok**. I will then close this window and repeat the same steps for the **D:\Research Data** folder.



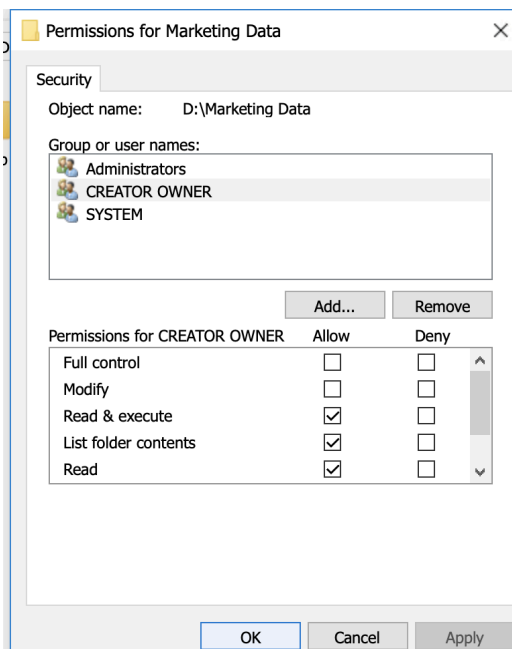
Now I can move on to the next task of this lab which is: “**For each of the above folders, remove the Users group from the access control list (ACL).**”

For this I will reopen up the Properties folder and head to the **Security** tab once more. Note that I need to completely remove the **Users** group, NOT edit their permissions.

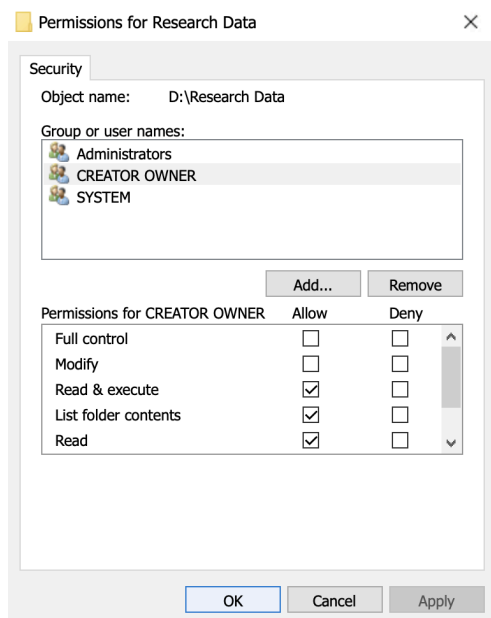
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I can remove the **Users** group by simply highlighting their group name then hitting the **Remove** button followed by **Apply** then **Ok**. The **ACL** should then look like this after removing them:



After doing this, I will head over to the **D:\Research Data** folder to repeat this same step:



After doing this I can move onto the next tasks. Now I need to add each respective user group to their assigned folders. Tasks 3,4,5,6 can all be done in one sweep:

**Add the Marketing group to the Marketing Data folder ACL.**

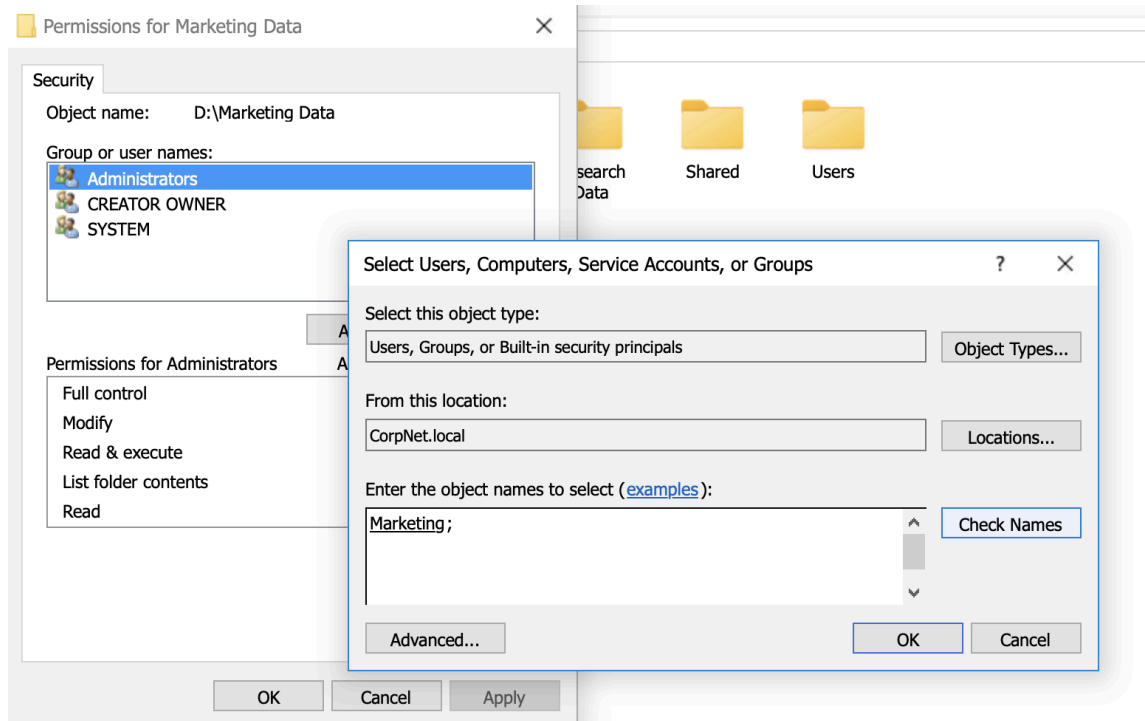
**Add the Research group to the Research Data folder ACL.**

**Assign the groups Full Control to their respective folders.**

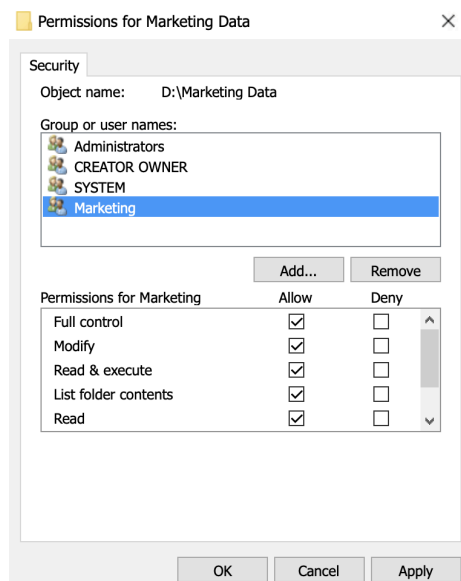
**Do not change any other permissions assigned to other users or groups.**

I will reopen the above Security Window to add the groups as such:

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After clicking **OK** I can see that the Marketing group has been added to the ACL. The Lab also wants us to assign this group complete control of this folder. We can do that on the previous window after clicking OK.

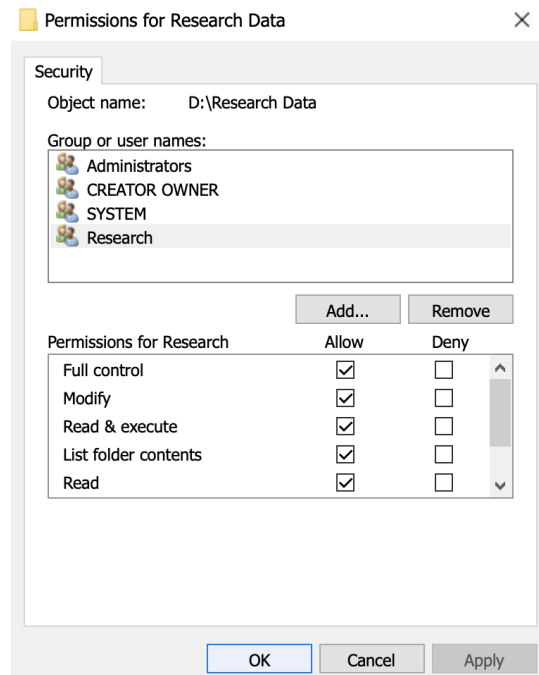




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Clicking the **Allow > Full Control** checkbox gives all permissions to that group.  
After I assign these I can now hit **Apply then Ok**.

Now I can move on to repeating these steps for the **Research** group.



The last step of the Lab asks us to not alter any other permissions here so I can confidently say that I've completed the lab. I'll now submit my work for a grade and wrap up this Lab.

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The screenshot displays a web-based lab environment. A central modal titled "Lab Report" shows a score of 2/2 (100%) and a time spent of 1:06:55. Below the score is a "TASK SUMMARY" section with "Required Actions" listed as two completed tasks: "Edit permissions for the D:\Marketing Data folder" and "Edit permissions for the D:\Research Data folder", each with a "Show Details" link. At the bottom of the modal are "Keep Working" and "Score Lab" buttons. In the background, a "Scenario" panel on the left provides instructions for the lab, including disabling permissions inheritance and adding groups to ACLs. A "Drive Tools" panel on the right shows a file explorer view of the D: drive. A "Windows Server Security" task window is visible in the top right, titled "Configuring NTFS Permissions on Windows Server". The bottom of the screen shows a Windows taskbar with a search bar and system icons, including the date and time (5:12 PM, 1/7/2025).

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Scenario

There are two groups of users who access the CorpFiles server: Marketing and Research.

Each group has a corresponding folder:

- D:\Marketing Data
- D:\Research Data

In this lab, your task is to:

- Disable permissions inheritance for D:\Marketing Data and D:\Research Data and convert the existing permissions to explicit permissions.
- For each of the above folders, remove the Users group from the access control list (ACL).
- Add the Marketing group to the Marketing Data folder ACL.
- Add the Research group to the Research Data folder ACL.
- Assign the groups Full Control to their respective folders.
- Do not change any other permissions assigned to other users or groups.

Drive Tools

File Explorer

Data (D:)

OneDrive

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Floppy Disk

Local Disk (C:)

Data (D:)

DVD RW Drive

Projects (H:)

Network

6 items

Type here to search

5:12 PM 1/7/2025

Lab Report

Time Spent: 1:06:55

Score: 2/2 (100%)

TASK SUMMARY

Required Actions

- ✓ Edit permissions for the D:\Marketing Data folder [Show Details](#)
- ✓ Edit permissions for the D:\Research Data folder [Show Details](#)

Keep Working

Score Lab

Windows Server Security - Configuring NTFS Permissions on Windows Server

Google Docs

docs.google.com