Lab - Permissions

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# Objectives

In this lab, you will explore the difference between running as administrator and standard user. You will also review the inherited permission of files and folders and encrypt files and folders.

Part 1: User Account Control (UAC)

Part 2: Permission Inheritance

Part 3: Encrypting File System (EFS)

# Recommended Equipment

* A Windows device

# Instructions

1. Save as this file to your account.

Use your name for your virtual machine.

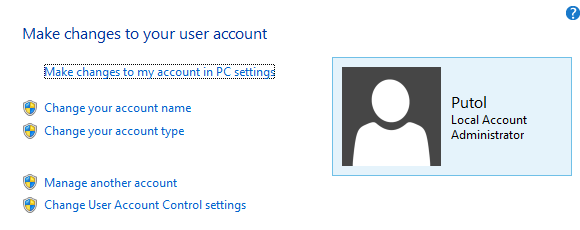
1. Put your screenshots and answers after each step.

## User Account Control (UAC)

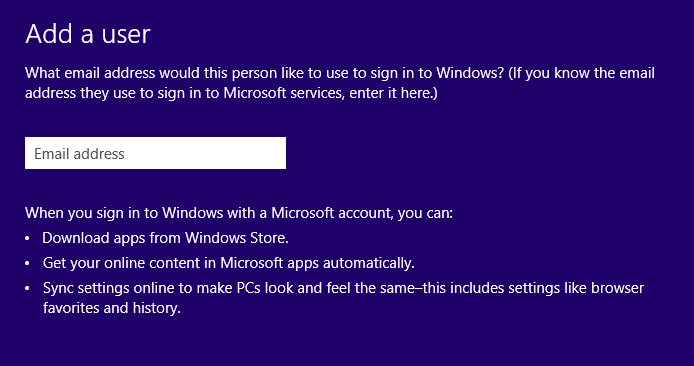
User Account Control (UAC) is a Windows security feature that helps prevent malware from causing damage to your PC by exploiting the privileges of the Administrators group. UAC also allows standard users to perform tasks that require elevated privileges within their session.

### Create a regular user account.

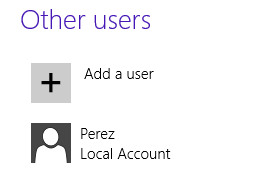
* + - 1. Log into Windows using an account with administrative privileges. To verify that the account has administrative privileges, click **Start**>**Settings**>**Accounts**>**Your info**.Under your username, you should see **Administrator** to indicate that this account is part of the Administrators group.



* + - 1. Click **Family & other users** to add another user account.

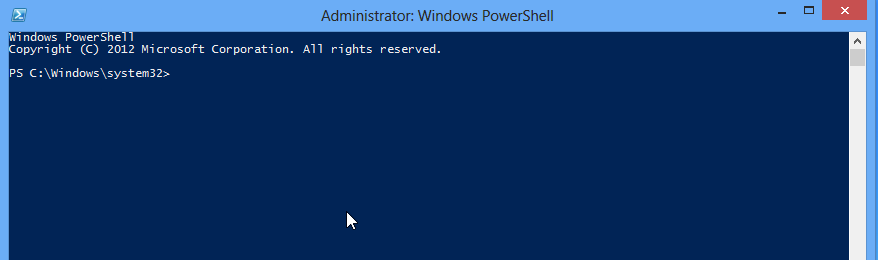


* + - 1. Click **Add someone else to this PC** (or **Add account** in Windows 11) if there is not a standard user account on this PC. Provide the information necessary to create a new user account.



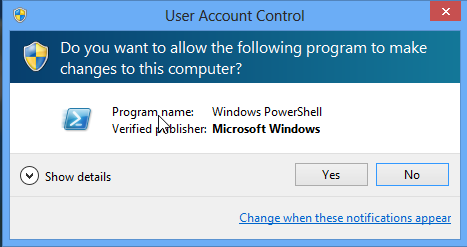
### Run as administrator vs. standard user

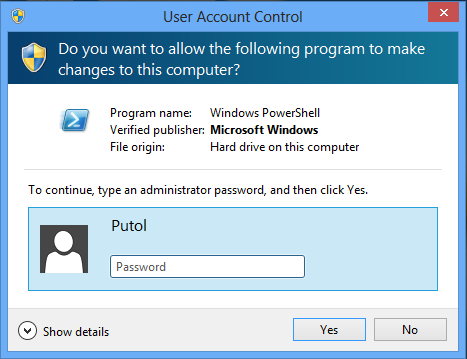
* + - 1. Still logged as the user with administrative rights, run **Windows Powershell** as an administrator. Click **Start**>expand the **Windows Powershell**folder> right-click **Window Powershell**>**select Run as Administrator**.



#### Question:

Did you need to provide your password to allow this app to make changes? Explain your answer.

* No, because the account I am using is the administrator account.re.
  + - 1. Click **No** to exit the UAC prompt.
      2. Now log in as a standard user and run Windows Powershell as an administrator.



#### Question:

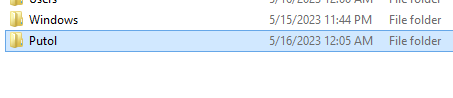
Did you need to provide your password to allow this app to make changes? Explain your answer.

* Yes, because the administrator account is not the account I am using.
  + - 1. Click **No** to exit the UAC prompt.

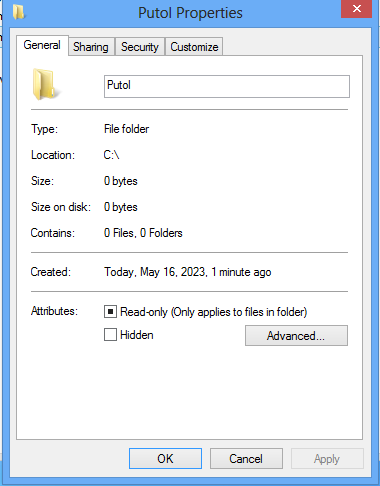
## Permission Inheritance

### Review folder permissions

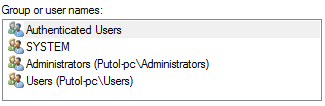
* + - 1. Log in to an administrative account. Navigate to C:\with File Explorer and create a folder with a name of your choice.



* + - 1. Right-click the newly created folder and select **Properties**.



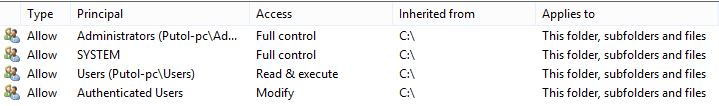
* + - 1. Navigate to the Security tab.



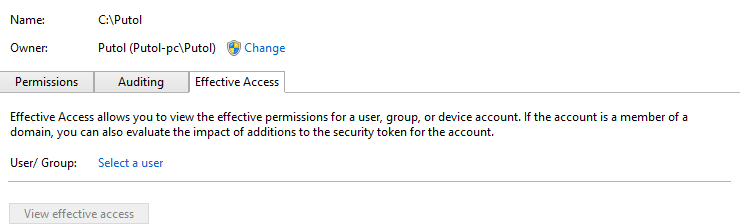
#### Questions:

Which group or usernames have full control of the folder?

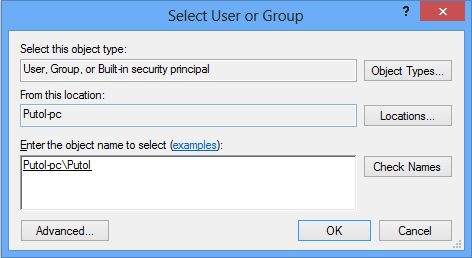
* The System, administrators, and users.
  + - 1. Click **Advanced** to review permissions in detail.



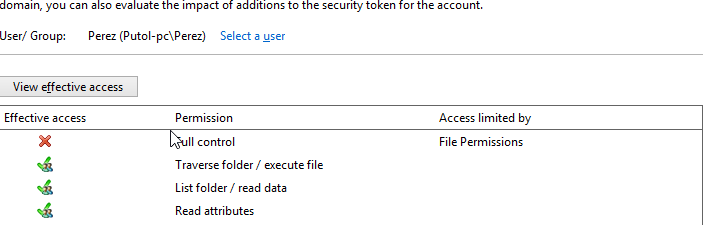
* + - 1. Click **Effective Access**. Click **Select a user**.



* + - 1. Enter the username of current account in the **Enter the object name to select (example)**. Click **Check Names** to verify the object name is correct. Click **OK** to continue.



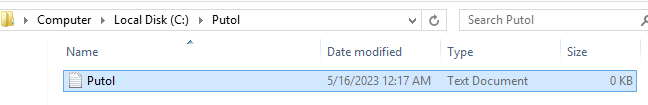
* + - 1. Click **View effective access** to view the current permission. Note this user has full control of this folder. Click **OK** when done.
      2. Click **Select a user** and enter the username of newly created user in this activity. Click **Check Names** to verify and click **OK**. Click **View effective access** to view the current permissions. Note this user does not have the same permissions. Click **OK**.



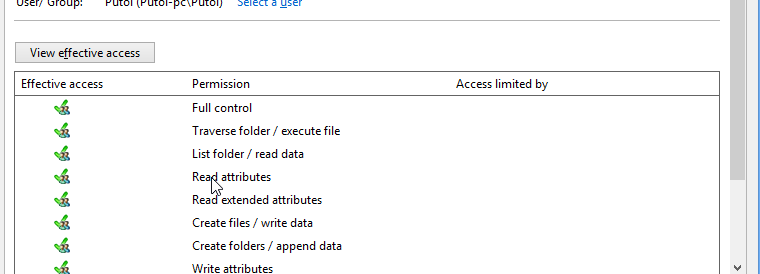
* + - 1. Click **OK** to exit the Properties window.

### Inherited permission

* + - 1. Within your newly created folder, create a new text file. Right-click the blank space and select **New**>**Text Document**. Name the file.



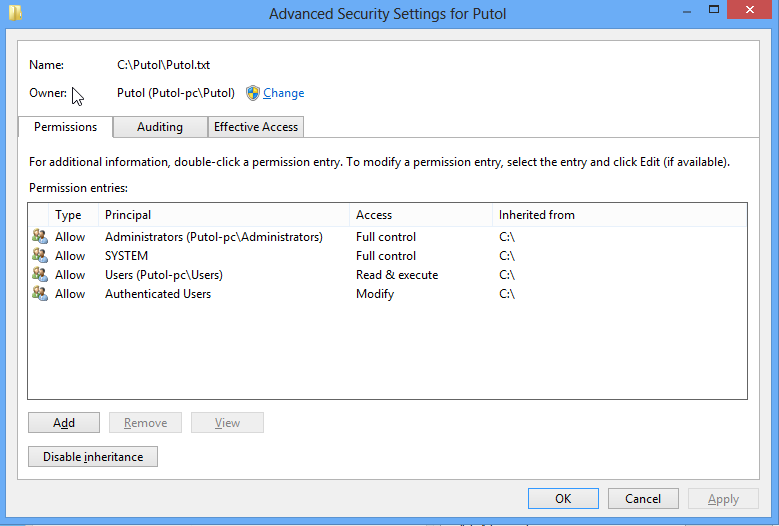
* + - 1. Right-click the newly created file and select **Properties**. In the Security tab, click **Advanced >Effective Access > Select a user**. Review the permissions of both users.



#### Question:

How do the file permissions compare to the folder permissions? Where did the file get the permission?

* It’s just the same. However, the permissions are not the same with standard accounts and the administrator accounts. The permission in the file came from the folder and was given by the administrator.
  + - 1. Click the Permission tab.



#### Question:

What else can you do in this tab?

* I can add, remove, view permissions in this tab, and lastly disable inheritance.
  + - 1. Click **OK** to exit Advanced Security Settings.
      2. Login as the other user.

#### Question:

Does the permission align with the effective permission? What did you try to do?

* Yes, but I didn’t tried anything because it might do something to the system.

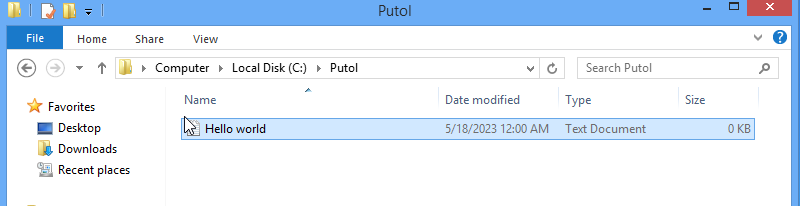
Type your answers here.

## Encrypting File System (EFS)

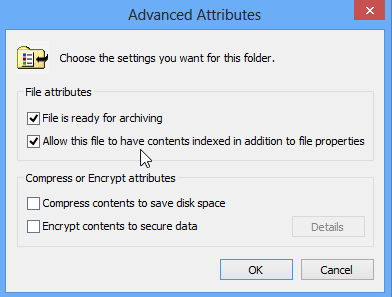
You can encrypt individual files and folders.

**Note**: EFS is not available in Home edition.

* + - 1. Create a new folder in C:\ and add a file to the new folder.



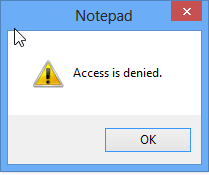
* + - 1. Right-click the new file. Navigate to the General tab in the Properties window. Click **Advanced**.



* + - 1. In the Advanced Attributes window, select **Encrypted contents to secure data** and click **OK**.
      2. Click **OK** to close the Properties window select **Encrypt the file and its parent folder (recommended)** and click **OK** when prompted by the Encrypted Warning. The folder and its contents are now encrypted.



* + - 1. Log into another user’s account.
      2. Attempt to make edits to the newly encrypted file with the other user.



#### Question:

What happened when you attempted to make edits to the file?

* It shows that access is denied and II can’t access it because I am using the standard user account only.

## Cleanup

Remove any files, folders or user accounts that were created during this activity.

* + - 1. Login with the accounts and navigate to C:\ and remove any files or folders during this activity.
      2. Delete the new local user account. Click **Start**>**Settings**>**Accounts**>**Family & other users**.Select and remove the local user account that was created for this activity.

