LAB 10 : Access Control Fundamentals

1. Files and folders permissions

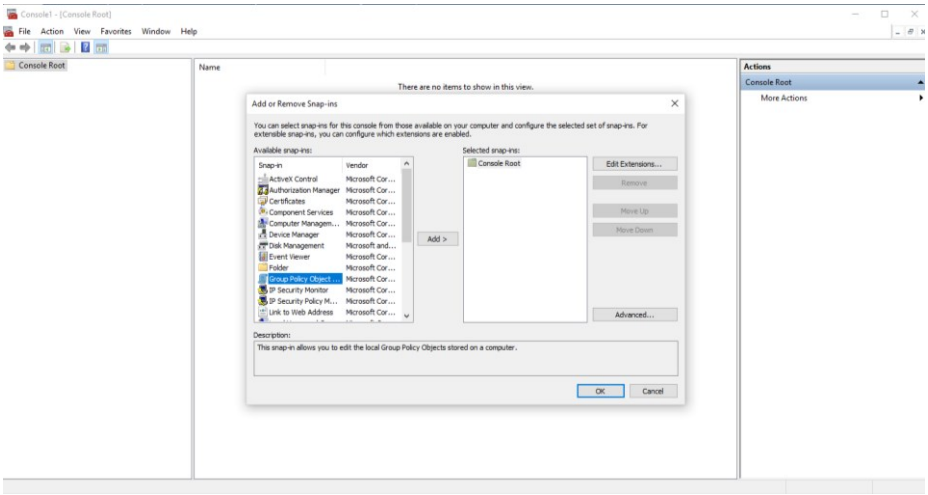
Instructions:

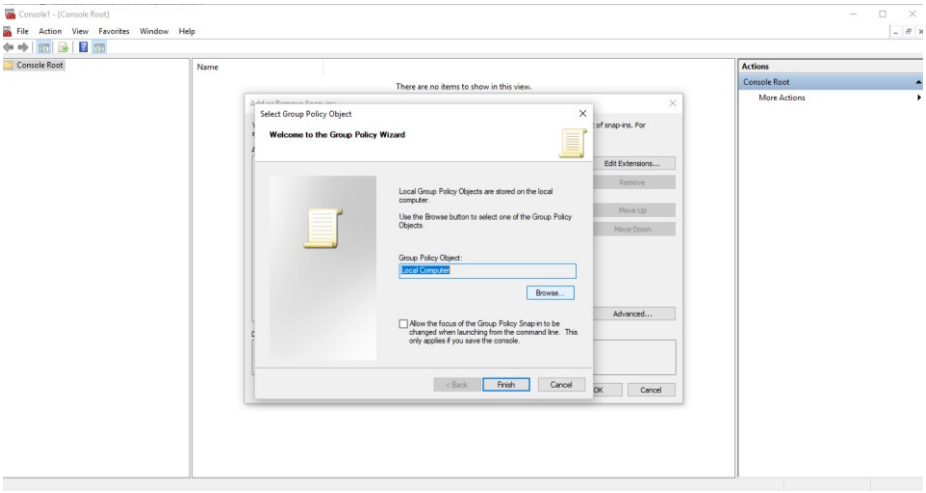
1. Create any files or folder
2. Right-click that files or folder
3. To see the current permissions on this file, click Properties, and then click the Security tab.
4. Click Edit to change the permissions of file

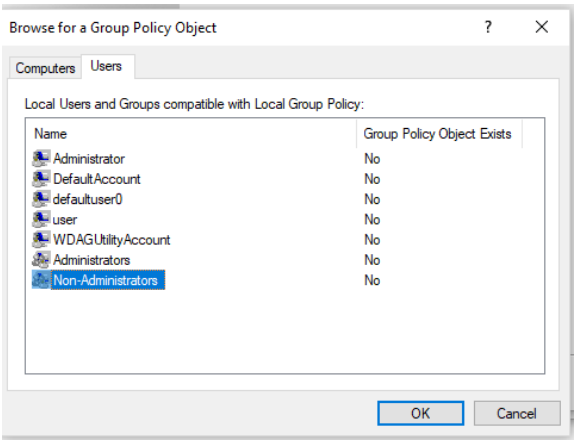
1.1 Assigning or set privileges and permissions to an object (files or folders) is very important. Why?

2. Using Windows Local Group Policy Editor

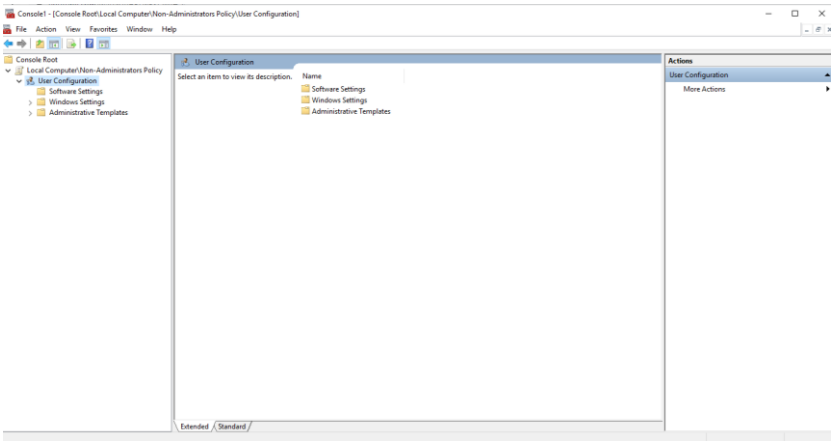
1. Type mmc at search box
2. Console 1 will appear. Then go to File → Add/Remove Snap-in
3. Click Group Policy Object → Add → Browse → Choose Non-administrative → OK


Console1 - [Console Root]
File Action View Favorites Window Help
Console Root
Name
There are no items to show in this view.
Actions
Console Root
More Actions
Add or Remove Snap-ins
You can select snap-ins for this console from those available on your computer and configure the selected set of snap-ins. For extensible snap-ins, you can configure which extensions are enabled.
Available snap-ins:
Snap-in
Vendor
ActiveX Control
Authorization Manager
Certificates
Component Services
Computer Managem...
Device Manager
Disk Management
Event Viewer
Folder
Group Policy Object ...
IP Security Monitor
IP Security Policy M...
Link to Web Address
Microsoft Cor...
Add >
Selected snap-ins:
Console Root
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
Description:
This snap-in allows you to edit the local Group Policy Objects stored on a computer.
OK
Cancel


Console1 - [Console Root]
File Action View Favorites Window Help
Console Root
Name
There are no items to show in this view.
Actions
Console Root
More Actions
Select Group Policy Object
Welcome to the Group Policy Wizard
Local Group Policy Objects are stored on the local computer.
Use the Browse button to select one of the Group Policy Objects.
Group Policy Object:
Local Computer
Browse...
Allow the focus of the Group Policy Snap-in to be changed when launching from the command line. This only applies if you save the console.
< Back
Finish
Cancel
Edit Extensions...
Remove
Move Up
Move Down
Advanced...
OK
Cancel


Browse for a Group Policy Object
Computers
Users
Local Users and Groups compatible with Local Group Policy:
Name
Group Policy Object Exists
Administrator
No
DefaultAccount
No
defaultuser0
No
user
No
WDAGUtilityAccount
No
Administrators
No
Non-Administrators
No
OK
Cancel

4. Click Local Computer\Non-Administrative Policy. Explore all the settings provided.



2.1 What is the use of group policy?

3. User Account Control (UAC)

Microsoft Windows 10 provides several options with user account control (UAC).

Instructions.

1. Search User Account Control Settings in serach box.
2. The User Account Control Settings dialog box is displayed.
3. Move the slider up and down.

There are four level in UAC settings namely; 1) Always notify me when: 2) Default – Notify me only when programs try to make changes to my computer 3) Notify me only when programs try to make changes to my computer (do not dim my desktop) , and 4) Never notify me when:

3.1 Explain the differences of all level in UAC settings

By conducting online research, search for Microsoft Windows User Account Control (UAC)

3.2 Explain User Account Control (UAC)
3.3 What were its design goals?
3.4 How secure is UAC?
3.5 What are its strengths?
3.6 What are its weaknesses?

4. Best Practices for Access Control

Search the Internet for one instance of a security breach that occurred for each of the four best practices of access control (separation of duties, job rotation, least privilege, and implicit deny).

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4.1 Write a short summary of that breach.
4.2 Rank these four best practices from most effective to least effective. Give an explanation of your rankings