

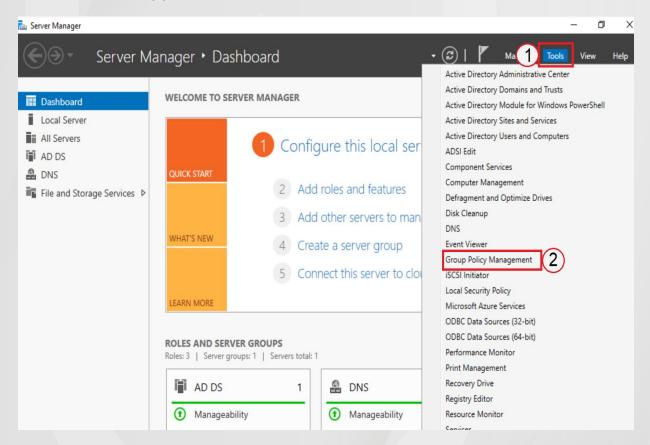
# Active Directory Lab #5 Create GPOs in Active Directory

## Objective:

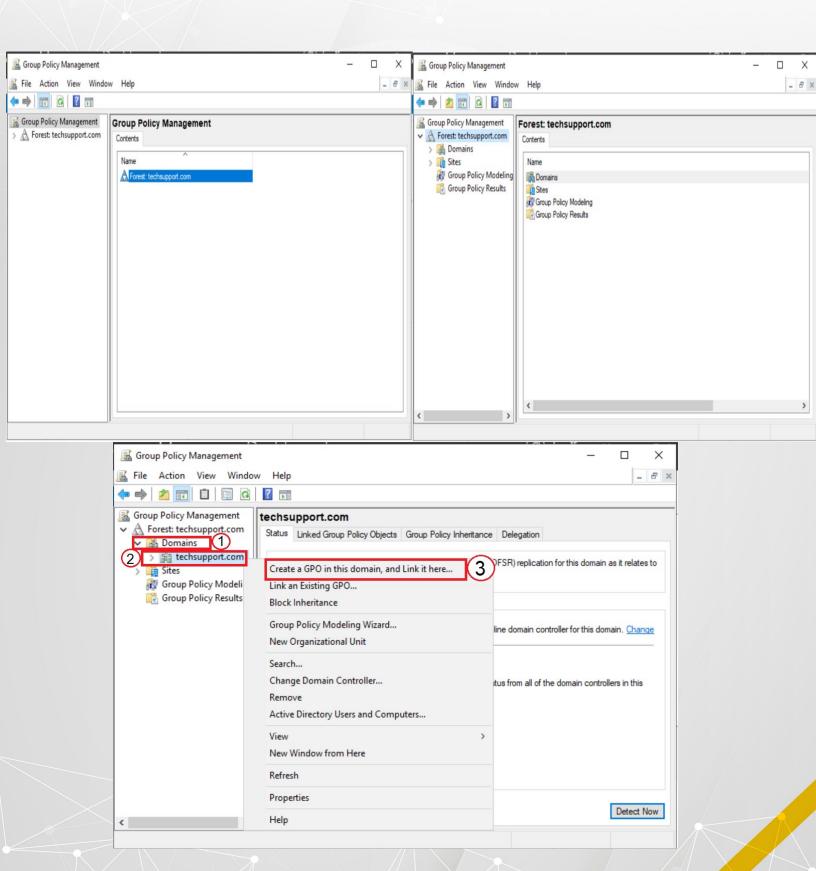
The objective of this laboratory is to apply different levels of security on Active Directory objects through GPOs.

#### Task 1: Create a GPO

- Enter the server manager, click on tools, look for the Group Policy management option and click
- 2. Look for the domain option and display it
- 3. Click on the domains option (1), left click on the **techsupport.com** (2) domain where we want to assign the GPO, right click, and select the option Create a GPO in this domain (3)

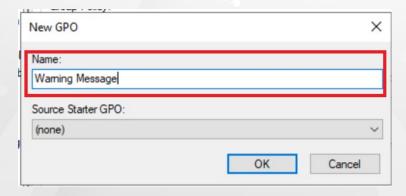




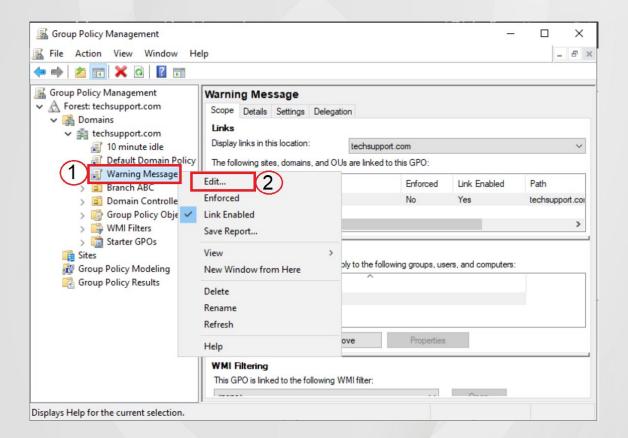




4. In order to identify the GPO, we call it Warning Message

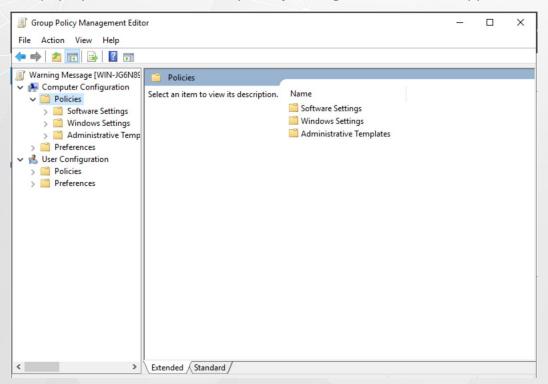


5. Now that the Warning Message GPO appears in the bar on the left side, we right click it



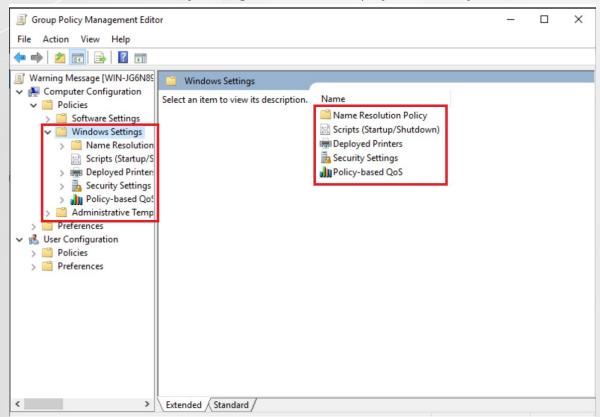


6. A pop-up window named Group Policy Management Editor will appear



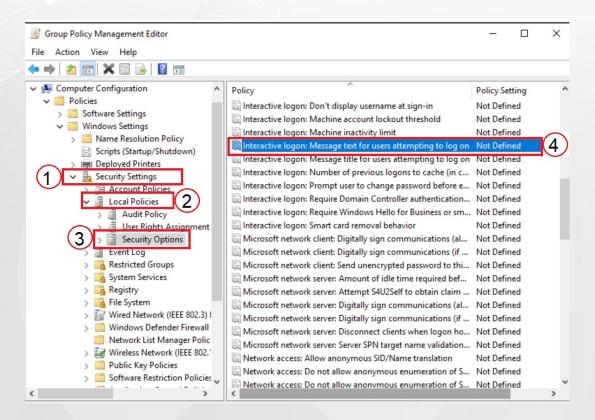


- 7. In the section on the left side, we select the Computer Configuration option and then click where the Policies folder is, to expand it, we display where it says Windows Settings
- 8. We click on Security Settings (1), then we display where it says Local Policies (2)

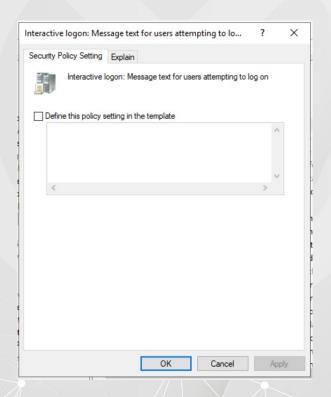


9. and we finish by clicking where it says Security Options (3), we look for the option that says, "Interactive logon: Message text for users trying to log in" (4) and we double click it



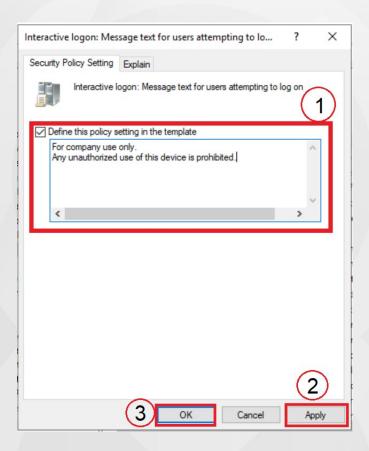


10. A new pop-up window named "Interactive logon: Message text for users trying to log in" opens, we click on the dialog box that says Define these policy settings





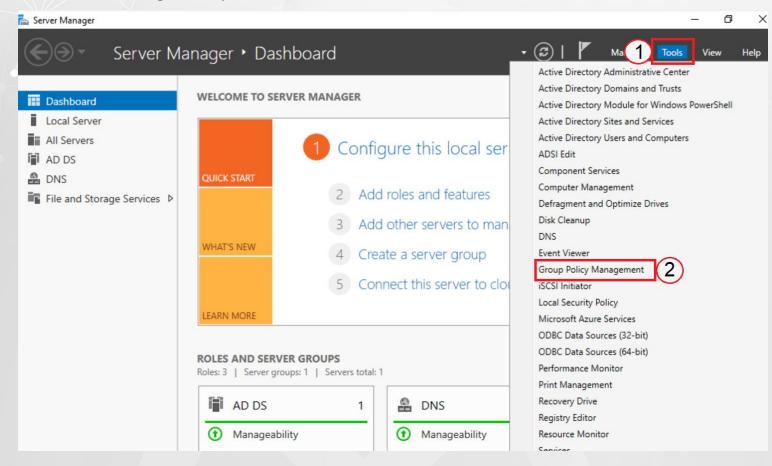
11. When the dialog box is activated. We write: **For company use only. Any unauthorized use of this device is prohibited** (1), at the end click Apply (2) and OK (3) and that's it.



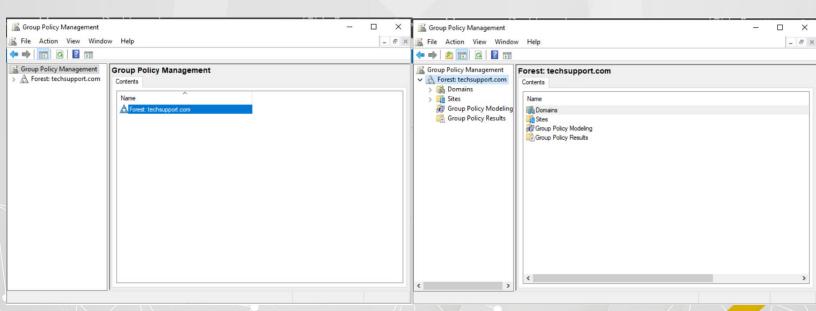


# Task 2: Create a policy to lock the device after 10 minutes of inactivity

1. Enter the server manager, click on tools (1), look for the Group Policy management option (2) and click



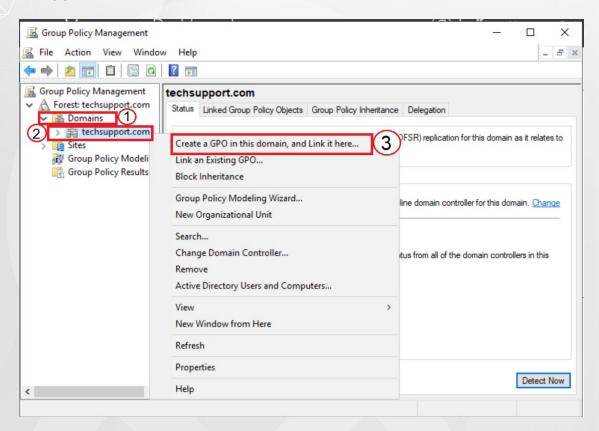
2. Look for the domains option and display it



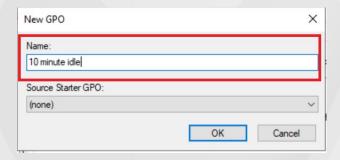




1. Left click domains (1) then on the **techsupport.com** domain (2) where we want to assign the GPO, we right click and select the option Create a GPO in this domain (3)



2. In order to identify the GPO, we call it 10 minutes idle



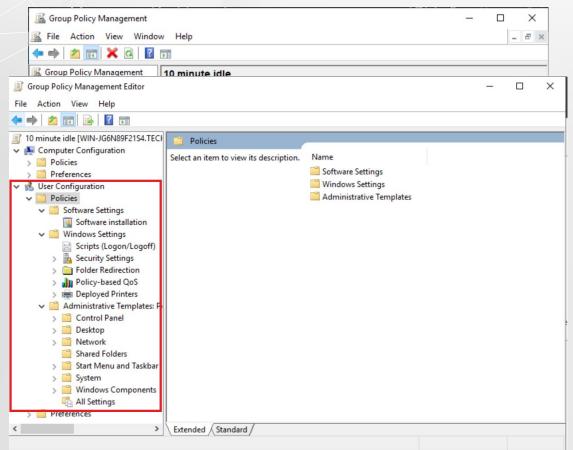
3. Now if a warning message appears, we just click on ok







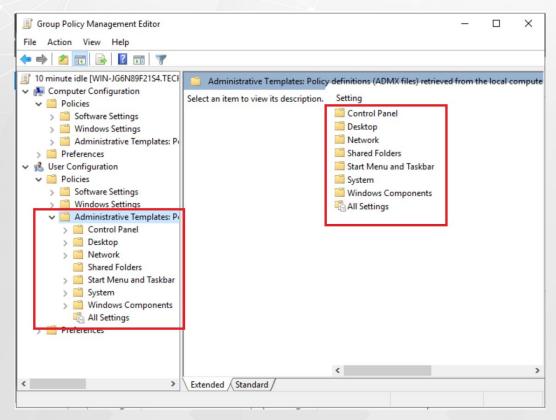
4. Once the GPO is created, right click on the name, and choose the edit option



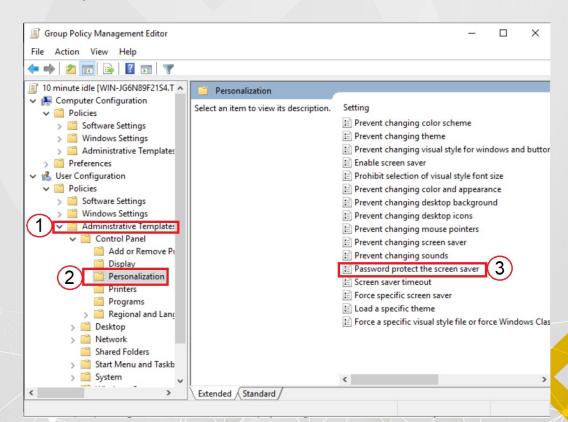
5. A pop-up window named Group Policy Management Editor will appear, In the section on the left side, we select the User Configuration option and then click where the policies folder is to expand it.



6. We look where it says Administrative Templates and expand it

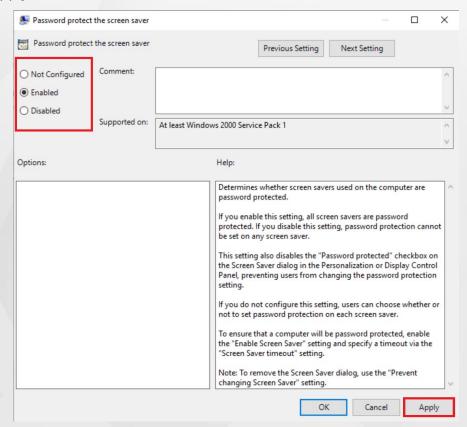


7. We choose the Control Panel option of the Administrative Templates (1) and display it, then we double click in the Personalization option (2), a list appears, we look for the option Password Protect the Screen Saver (3)



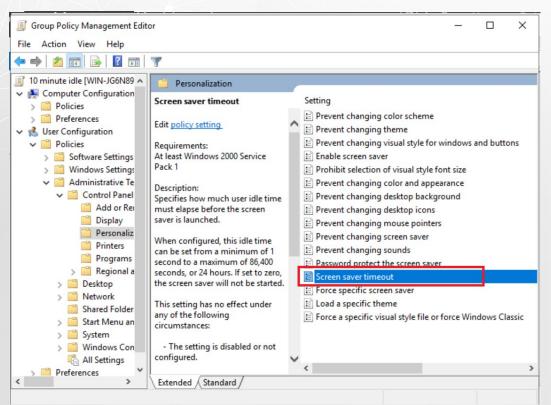


8. We double click Password Protect the Screen Saver option and select enable, then click apply and ok



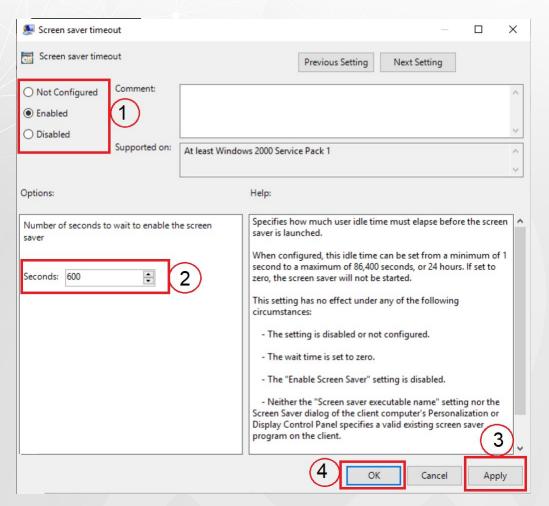
9. Now to activate the timeout in the same window where we activated the password protection, we click on the option below that says screen saver timeout and double click on it.





10. We click on enabled (1) and below it says number of seconds to wait to enable the screen saver we write **600 seconds** (2) which is equivalent to 10 minutes. We click on apply (3) and ok (4), we can now close the editor window.



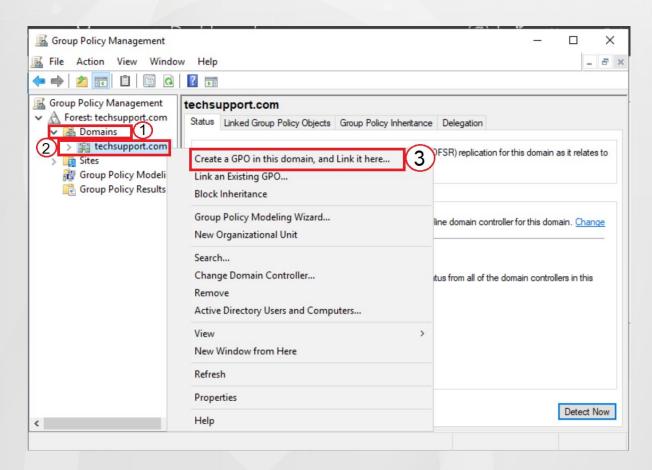




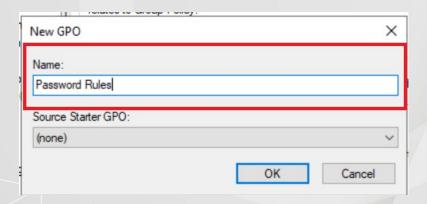
#### Task 3: Password GPOs

Now we are going to apply a very common Passwords GPO and that is applied in almost all companies:

1. We are going to apply this policy at the domain level (1), so we select Techsupport.com (2) and right click, we select the option to Create a GPO (3)

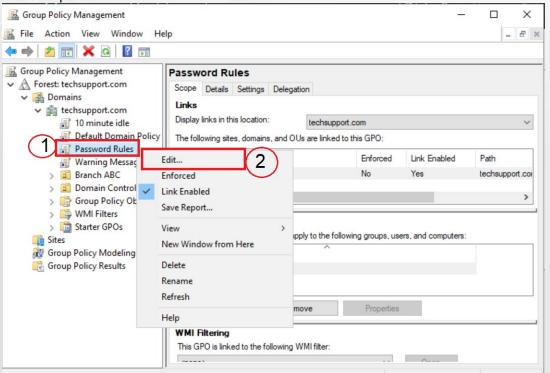


2. We are going to name the GPO Password Rules and click ok



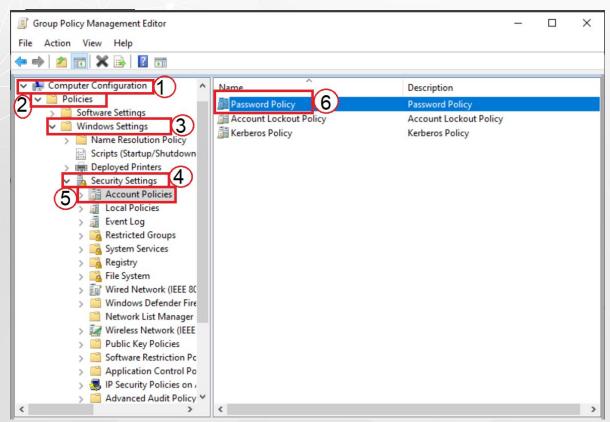


3. Now we select password rules and right click on it and then select the edit option

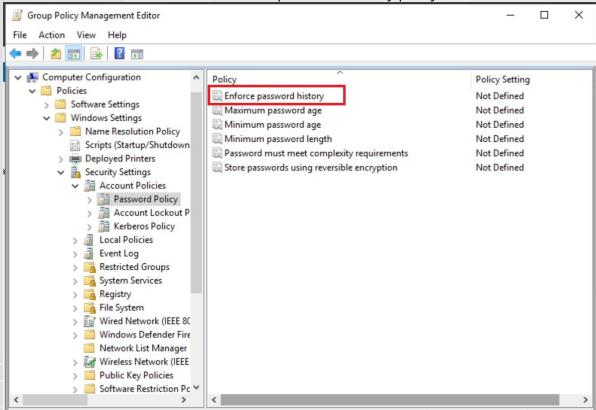


4. In the new window we display the windows settings folder (2) in computer configuration (1), display the security settings (4) and select the Account policies (5), then click on the Password Policy (6)



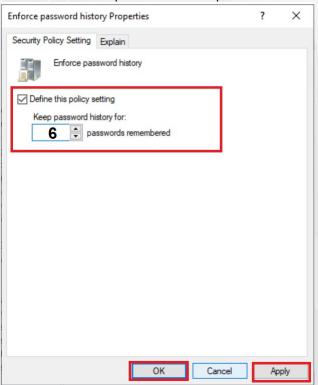


5. Now we double-click the Enforce password history policy



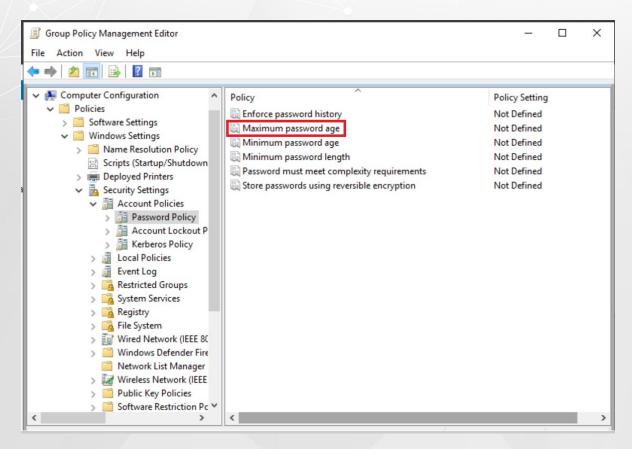


6. When the pop-up window appears mark the check that says define this policy setting and write a 6 where it says passwords remember. This means that we cannot repeat the same password until we have written 7 new ones



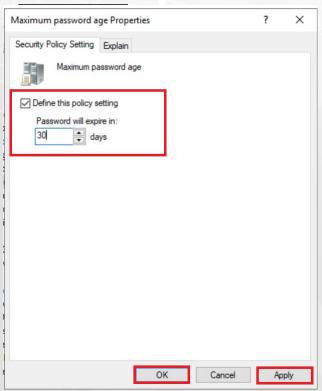


7. Now we double click on the maximum password age option

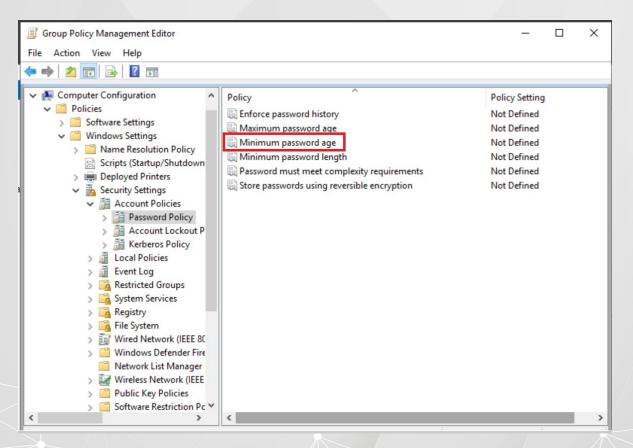


8. We click on the check box and put 30 as the maximum password age, the policy establishes that it must be changed every month, then click apply and ok



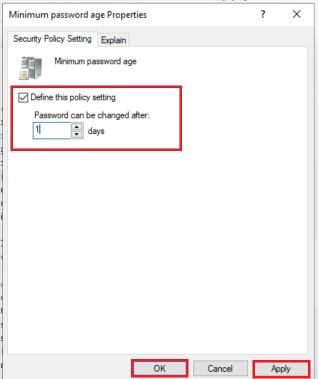


9. Now double click where it says minimum password age



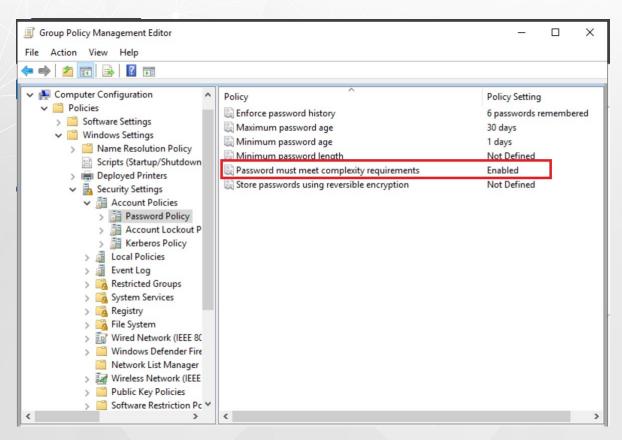


10. We mark the box and change the number to 1, this means that once the password has been changed, at least one day must pass to change it for a different one, then click apply and ok



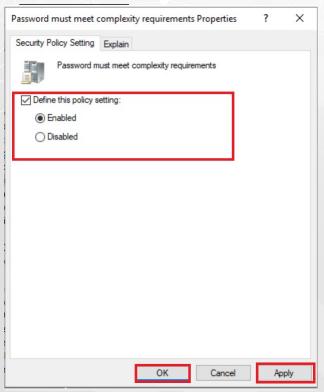
11. Finally, we double-click where it says the password must meet the complexity requirements.





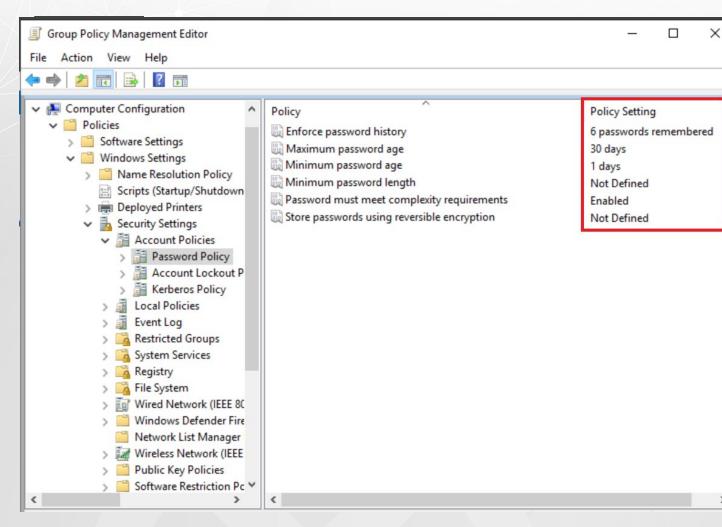
12. We mark the check and then select the enabled option, this rule forces users to use uppercase, lowercase, numbers, and punctuation marks, we click on apply and ok, now we can close the window





13. The policies are ready, it should look like the following image, if everything is correct, we can close the editor window.

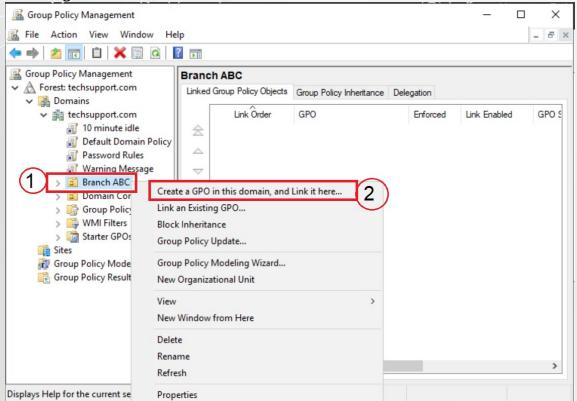




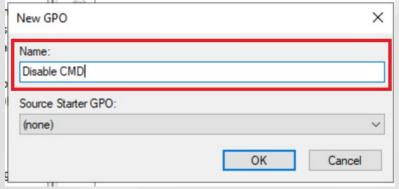


## Task 4: OU GPOs

1. Now we are going to create a GPO directly in an OU, select Branch ABC and right click on it, then click on create a GPO

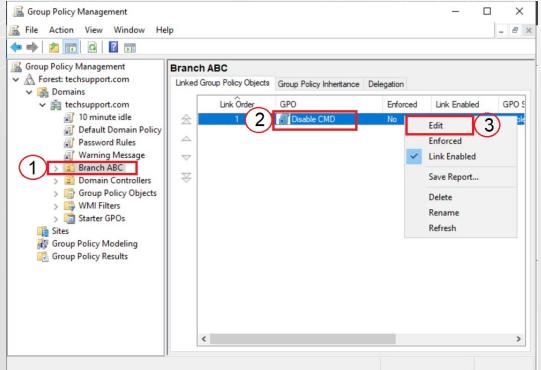


2. We're going to name this GPO "Disable CMD" and click ok



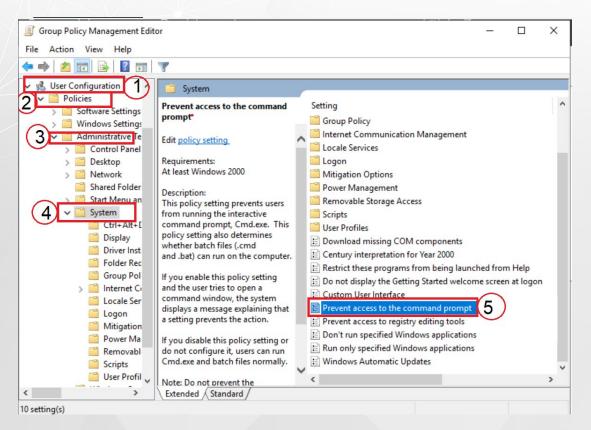


3. Now we are going to click on Branch ABC (1), select the GPO (2) and right click to Edit (3)



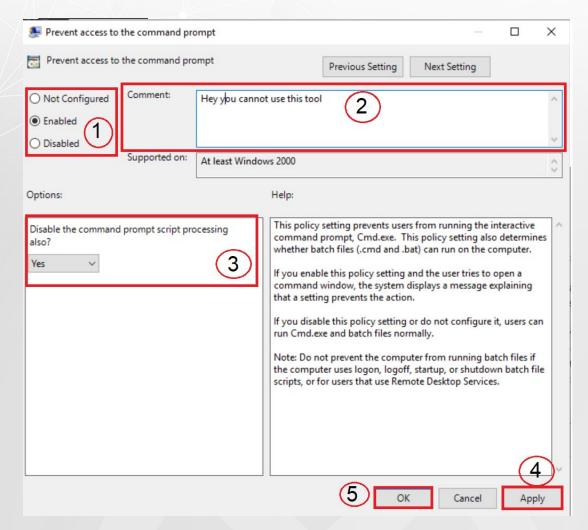
4. Let's go to User configuration and display the Policies option then we display where it says administrative template and click in System, look for the option "Prevent Access to the command prompt" and double click it





**5.** In the pop-up window we click on enabled (1), in comment we write **Hey you cannot use this tool** (2). Finally, in the box below on the left where it says disable the command prompt script, we change the option to yes (3), we do apply (4) and ok (5), and that's it, we can close the editor window.

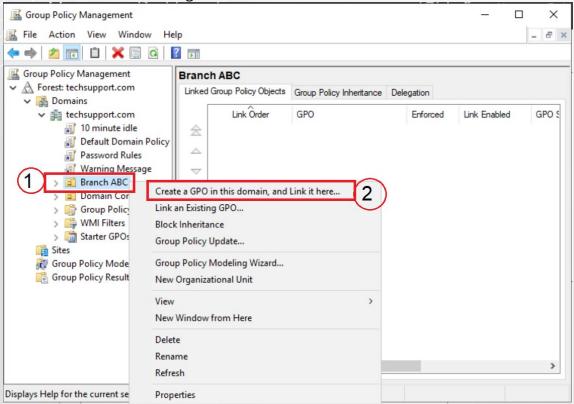




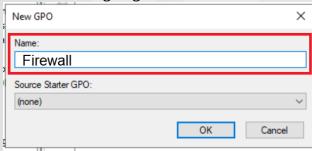


## Task 5: Firewall

1. In ABC Branch we right click and click on Create a GPO

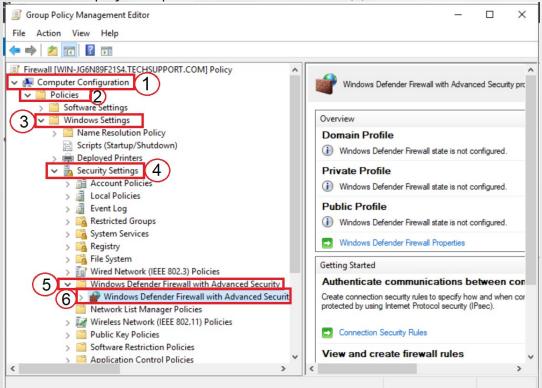


2. We are going to name the GPO **Firewall** and click ok

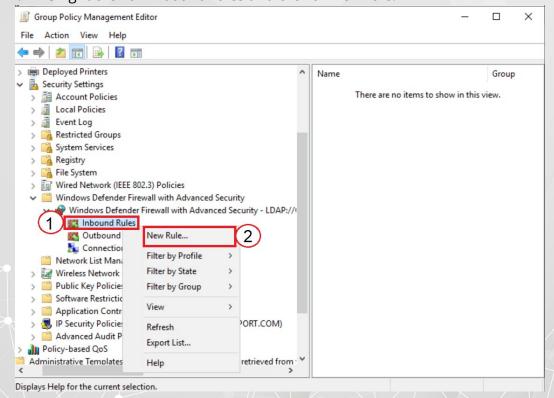




3. The editor window will appear, and in the section on the left side, we select the Computer Configuration (1) option, display and click on the policies option (2) and then click and display the windows settings (3), select the security settings (4) then the Windows Defender Firewall with Advanced Security folder is, to expand it (5). Within Windows defender Firewall with Advanced Security folder, we display the option with the Firewall icon (6)

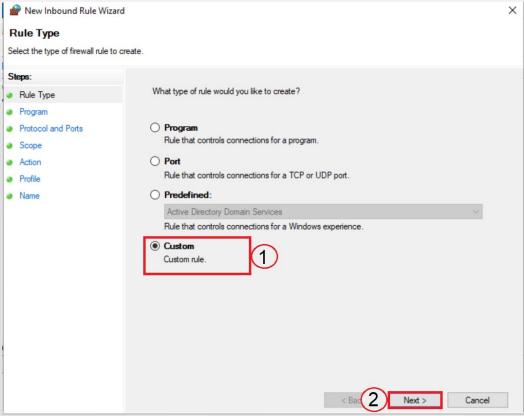


4. We right click on inbound rules and click on new rule.



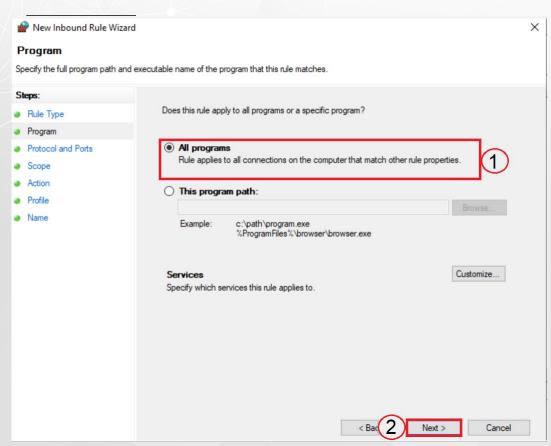


5. In the wizard we click on Custom (1) and then next (2)

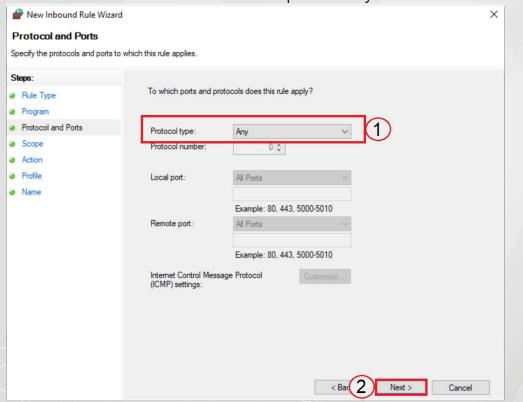


6. In the next window we select all programs and then next



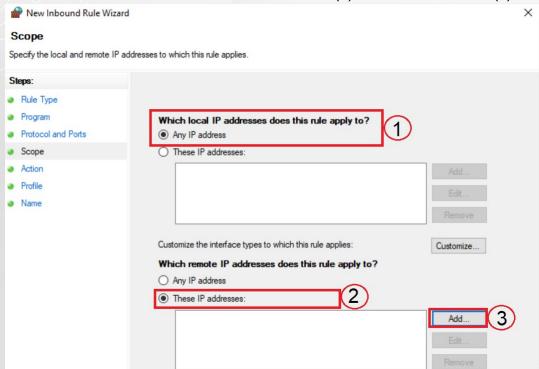


7. In the next window we leave the option on any and then next



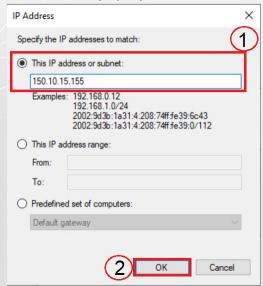


8. In the next one selects "Any IP addresses" option (1), below where it says which remote IP we select "These IP addresses" (2) and we click on add (3)

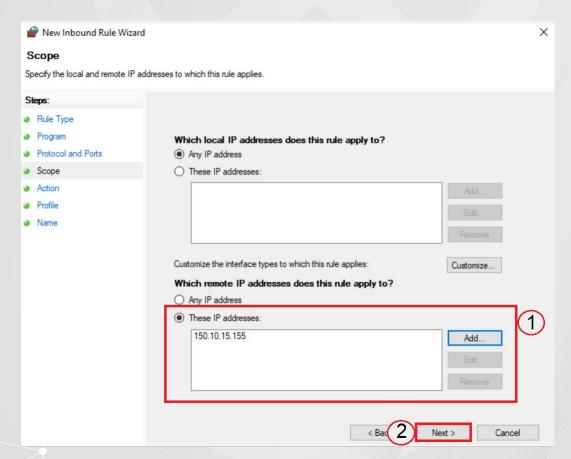




9. In the pop-up window we write 150.10.15.155 (1) at the top and click ok (2)

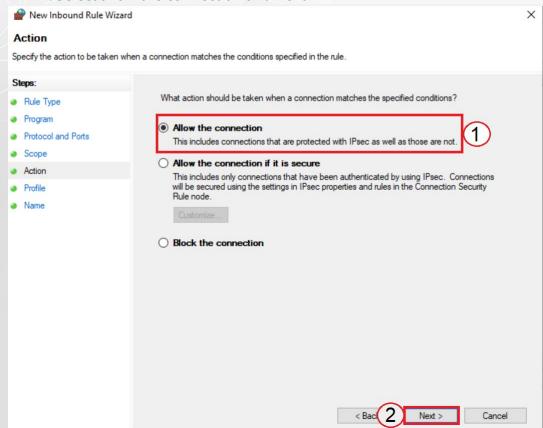


10. In the wizard click next to the other window (2)



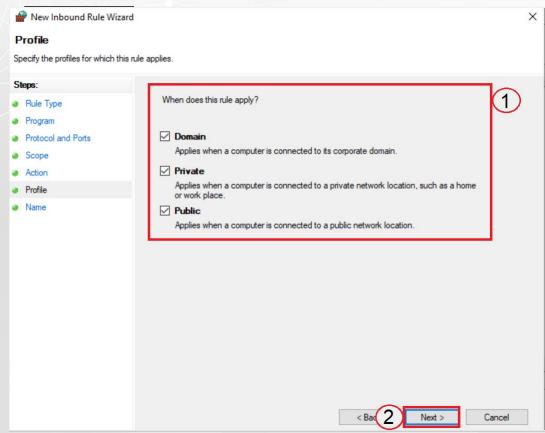


### 11. Select allow the connection and next



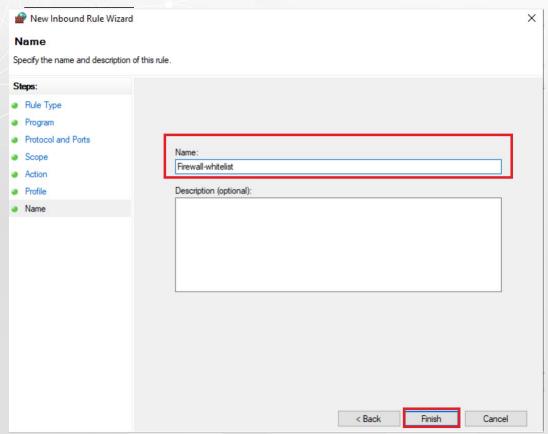
12. In the window "When does this rule apply" we mark all and click next





13. In the following step we name it as Firewall-whitelist, Finish and close





14. It should look like this at the end