



Aras Innovator .NET Client Security Policy Configuration



Aras Innovator 9.3

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1 Introduction

This document outlines the steps needed to configure client machines to run the Aras Innovator software. It presents options for how individual IT departments will deploy the .NET Framework Security policies to client PCs. The security policy outlined in this document will allow **only** the URL to the client controls to have full trust. This level of trust for the Innovator client controls is required to run in the .NET Framework. This document does contain the instructions for configuring the .NET Framework 3.5, 3.0, 2.0.

If you plan to perform the .NET Framework security configuration yourself for a single PC client machine, go to:

Section 2: Single PC Configuration

If you are an IT System Administrator and plan to push the .NET Framework security configuration out to PC client machines, go to:

Section 4: IT System Administrator Push Configuration



2 Single PC Configuration

IMPORTANT: YOUR IT SYSTEM ADMINISTRATOR CONTROLS THE SECURITY POLICIES ON YOUR PC AND YOUR NETWORK. ARAS RECOMMENDS THIS DOCUMENT BE REVIEWED BY YOUR COMPANY'S IT SYSTEM ADMINISTRATOR FOR ACTION.

The recommended method of configuring a .NET Framework Security Policy is to have the IT System Administrator deploy it. This will set the policies without having individual users configure their systems.

If you elect not to deploy the .NET Framework Security Policy, then it can be manually configured for a single PC client machine.

Aras Innovator requires the .NET Framework installed on PC client machines before proceeding.

Aras recommends using .NET Framework Version 2.0, 3.0, or 3.5

2.1 Downloading the Manual .NET Security Configuration Tool

Aras has supplied a batch file that can be run on the PC client machine called the Manual .NET Security Configuration Tool. The file (sdns.exe) can be obtained from the Aras Corporation support website.

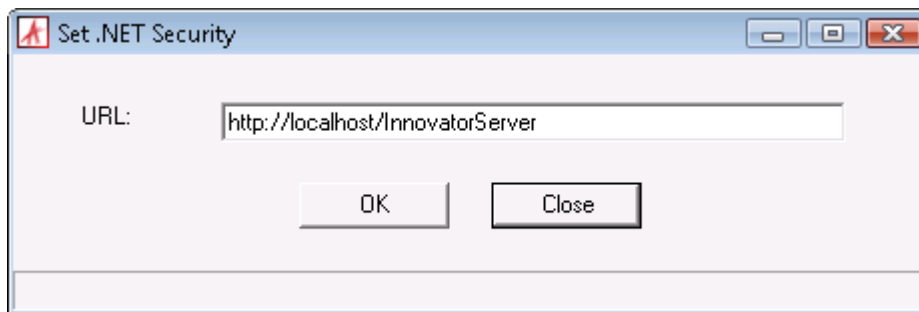
1. Open Internet Explorer
2. Type in the following web address
<http://www.aras.com/support/downloads/download.aspx>
3. Download the "Manual .NET Security Config Tool [sdns.exe utility]" to your hard drive
 - a. Click on the Download Now button next to the tool description.
 - b. When prompted to Run or Save, select Save.
 - c. The desktop will be the easiest location to download to and find the file later.



2.2 Running the Manual .NET Security Configuration Tool

Once you have the file on your hard drive, you can now run the utility to set your security policy. For ease of explanation, we will assume you have put this file on the desktop of the logged in user.

1. Close all Internet Explorer windows
2. Double click on the file `sdns.exe`
 - a. **Windows 7 or Windows Vista** users will need to right-click on the file and select "Run as administrator" from the context menu
 - b. The following window should open.



3. In the "URL" field enter the full URL path, provided by your administrator, used to login.
 - a. **Example:** In the case of a default local install, this would be something like <http://localhost/InnovatorServer>
 - b. **Example:** In the case of myInnovator.com, this would be <http://myInnovator.com>
4. Select OK
 - a. While your security policies are being set it will display the it's progress in the status bar
 - i. "Setting security settings for .NET 2.0"
Note: .NET 3.0 and .NET 3.5 are extensions of .NET 2.0 therefore run off the .NET 2.0 policy
5. Once the security polices are set, Select Close
6. Open a new Internet Explorer window, when ready to log into the site.

If the configuration tool fails to load when double clicked, it indicates that no .NET Framework is installed. You should contact your system administrator about installing the necessary framework.

If you wish to do this yourself, please use the following link to download the .NET Framework 2.0:

.NET Framework Version 2.0 Redistributable Package

<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&displaylang=en>

After installing this, please repeat the steps in this section.



3 Troubleshooting

In this section, we will outline some of the common problems people can encounter with the .NET Framework Configuration.

3.1 Manual .NET Security Configuration Tool errors

This section describes various issues logged with Aras support using the Manual .NET Client Configuration Tool.

3.1.1 Running the Tool without Downloading

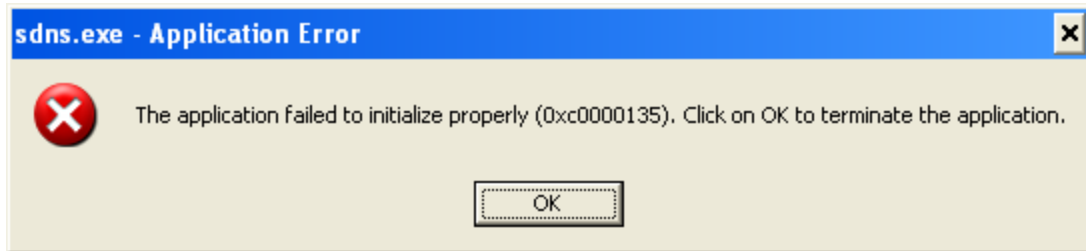
If you attempt to run the tool without downloading it to the local machine first, you will receive an error telling you the tool failed to run. Please follow these alternate steps for downloading the tool.

1. Open Internet Explorer
2. Type in the following web address
<http://www.aras.com/support/downloads/download.aspx>
3. Download the "Manual .NET Security Config Tool [sdns.exe utility]" to your hard drive
 - a. Right-Click on the Download Now button next to the tool description, so that the context menu appears.
 - b. Select Save "Target As..."
 - c. The desktop will be the easiest location to download to and find the file later.



3.1.2 Application Error Running sdns.exe

If the configuration tool fails to load when double clicked with the following error, it indicates that no .NET Framework is installed. You should contact your system administrator about installing the necessary framework.



If you wish to do this yourself, please use the following link to download the .NET Framework 2.0:

.NET Framework Version 2.0 Redistributable Package

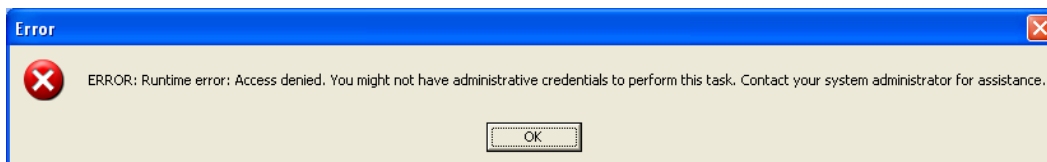
<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&displaylang=en>

After installing this, please repeat the steps in this section.

3.1.3 sdns.exe Error: Access denied

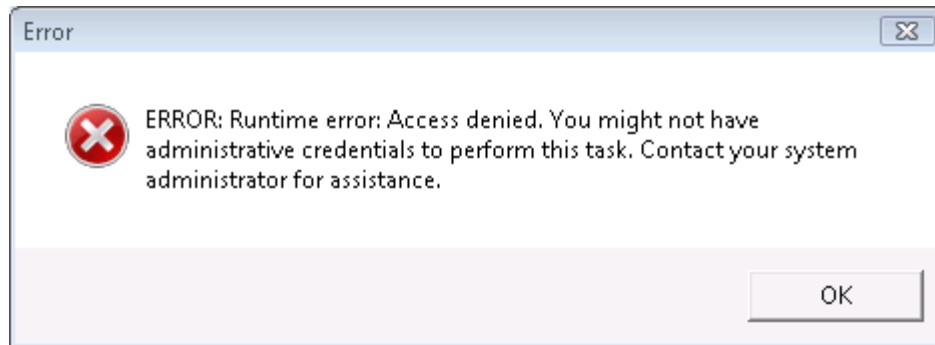
3.1.3.1 Windows XP

If the configuration tool gives the error "ERROR: Runtime error: Access denied. You might not have administrative credentials to perform this task. Contact your system administrator for assistance." It indicates that you do not have administrative privileges on your machine to modify the .NET security policies. You will need to contact your system administrator to request the change to the .NET Security policies on your machine.



3.1.3.2 Windows Vista or Windows 7

If the configuration tool gives the error "ERROR: Runtime error: Access denied. You might not have administrative credentials to perform this task. Contact your system administrator for assistance." You should first make sure you ran the sdns.exe by right-clicking on the file and selecting "Run as administrator" from the context menu. If this menu option is not present, it indicates that you do not have administrative privileges on your machine to modify the .NET security policies. You will need to contact your system administrator to request the change to the .NET Security policies on your machine.

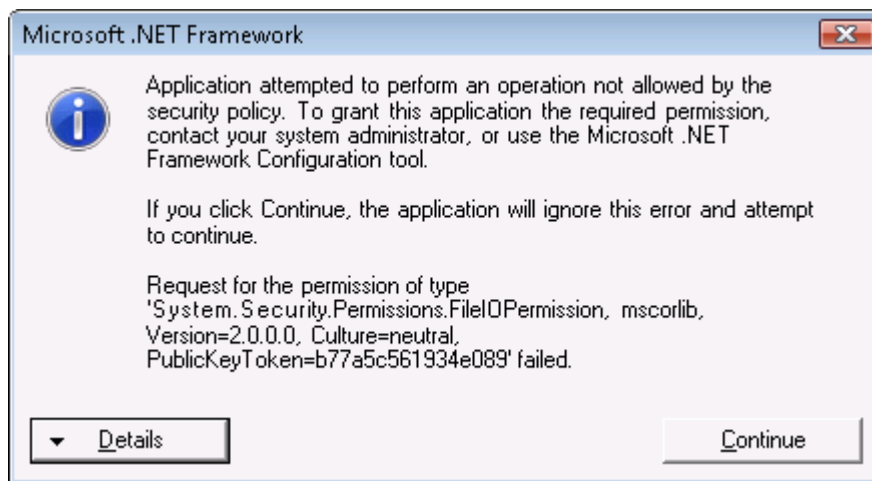


3.2 .NET Errors During Login

This section describes the common error messages shown during login to Aras Innovator when there are problems with the .NET security policies.

3.2.1 Error during login

If you receive an error message similar to the one shown below, during initial login, it indicates that you have **not** configured the .NET Security Policy on your client machine. The version number listed in the error indicates the version of the .NET Framework that is not configured. Please review sections 2 of this document to configure your client machine.



3.2.2 Innovator does not load

If the login screen fails to load with the following error, this indicates one of two things. Either you do not have a security policy set, in which case a .NET Framework error should also appear(See above in [Error during login](#)), or you do not have any .NET Framework installed.



You do not receive the error described in [Error during login](#), please, contact your system administrator about installing the necessary .NET framework.

If you wish to do this yourself, please use the following link to download the .NET Framework 2.0:

.NET Framework Version 2.0 Redistributable Package

<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&displaylang=en>

After installing this, please repeat the steps in section 2.



4 IT System Administrator Push Configuration

The .NET Framework comes with a GUI configuration tool that can be used by the system administrator to create and deploy this policy. Microsoft® provides documentation on how to use this tool at the following link:

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnnetsec/html/entsecpoladmin.asp>

If you do not have the .NET Framework installed on your network, Microsoft® provides documentation on how to deploy this software, as well, at the following link:

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/dnnetdep/html/redistdeploy.asp>

In this section, we will outline the use of the .NET Framework Configuration tool. This must be used to set the security policies that will be deployed. The .NET Framework 2.0 requires the .NET Framework 2.0 SDK in addition to the redistributable in order to access this configuration UI.

This can be obtained at the following links:

.NET Framework Version 2.0 Redistributable Package

<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&displaylang=en>

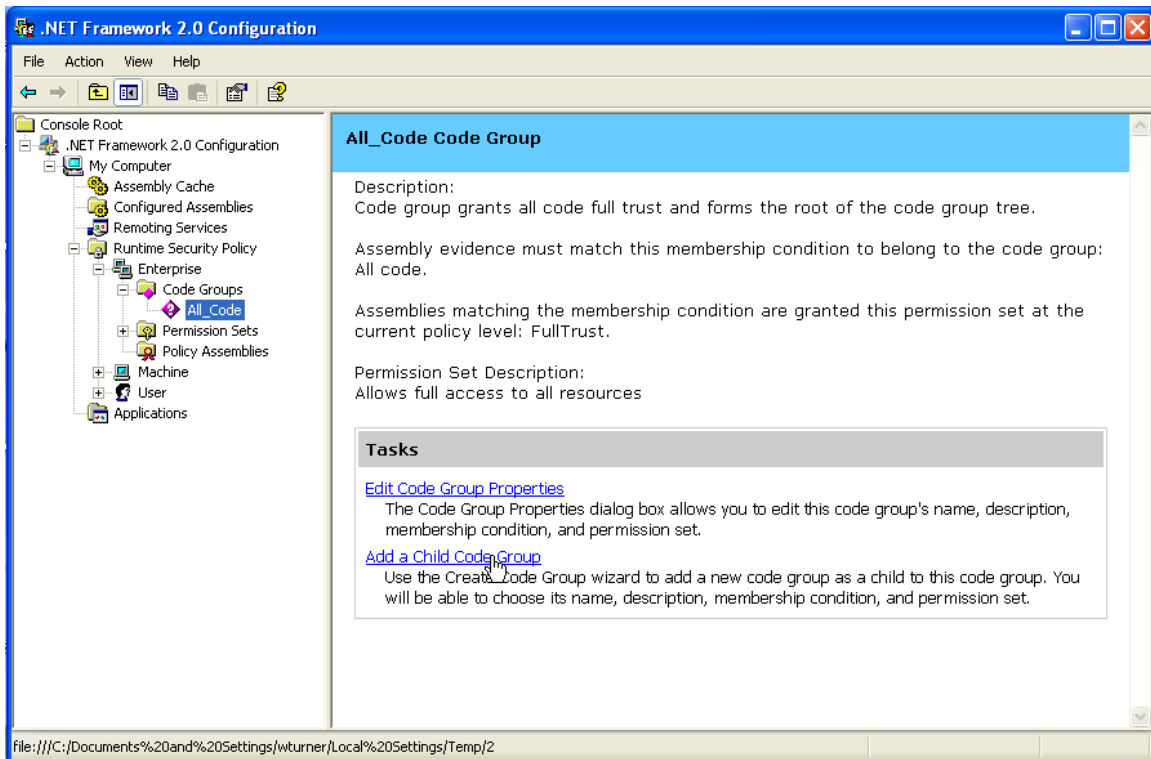
.NET Framework Version 2.0 Software Development Kit

<http://www.microsoft.com/downloads/details.aspx?familyid=fe6f2099-b7b4-4f47-a244-c96d69c35dec&displaylang=en>



4.1 .NET Framework 2.0 Configuration

1. Go to the Windows Control Panel
 - a. Start → Settings → Control Panel
2. Double click on Administrative Tools
3. Double click on Microsoft .NET Framework 2.0 Configuration
4. Open this path in the tree on the left hand side of the window.
 - a. My Computer → Runtime Security Policy → Enterprise → Code Groups → All Code.
5. Click on "All Code"
6. In the frame to the right, Select "Add a Child Code Group"



7. Select "Create a new code group"
 - a. Give it a meaningful name for you to interpret later

Create Code Group

Identify the new Code Group
The new code group should have a name and description to help others understand its use.

Create a new code group

Name:
MyInnovator

Description:

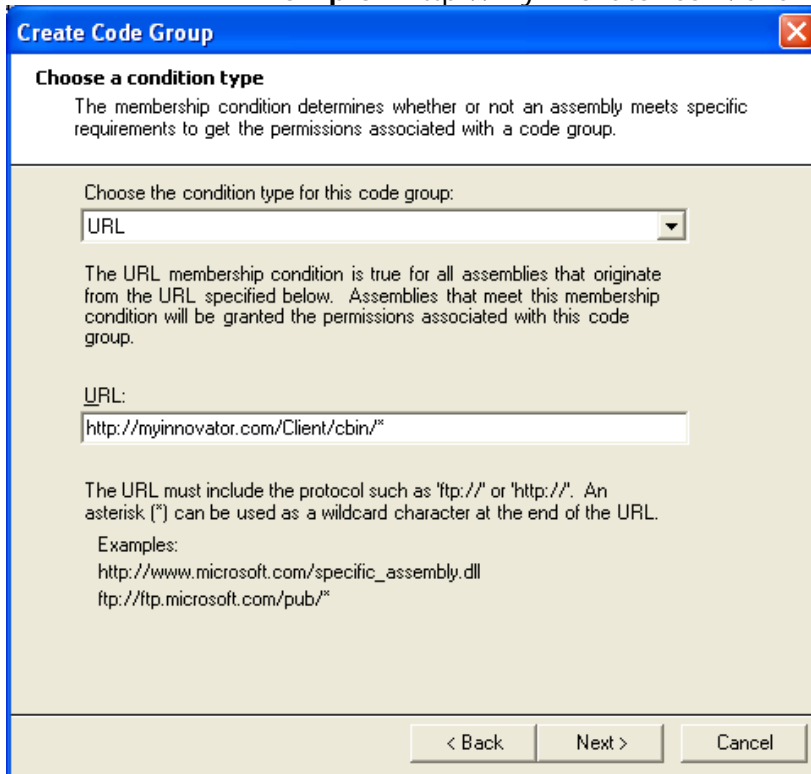
Import a code group from a XML File

< Back Next > Cancel

8. Select "Next"



9. For "Choose a condition type"
 - a. Select "URL"
 - b. Enter the full site name of the site plus the "/Client/cbin/*" web folder
 - i. **Example:** http://myinnovator.com/Client/cbin/*



The screenshot shows a dialog box titled "Create Code Group" with a close button in the top right corner. The main heading is "Choose a condition type". Below this, a paragraph explains that the membership condition determines whether or not an assembly meets specific requirements to get the permissions associated with a code group. A dropdown menu is labeled "Choose the condition type for this code group:" and has "URL" selected. Another paragraph explains that the URL membership condition is true for all assemblies that originate from the URL specified below. A text input field is labeled "URL:" and contains the text "http://myinnovator.com/Client/cbin/*". A final paragraph states that the URL must include the protocol such as 'ftp://' or 'http://', and that an asterisk (*) can be used as a wildcard character at the end of the URL. Below this, two examples are provided: "http://www.microsoft.com/specific_assembly.dll" and "ftp://ftp.microsoft.com/pub/*". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel".

10. Select "Next"



11. Select "Use existing permission set"
 - a. Select "Full Trust"

Create Code Group

Assign a Permission Set to the Code Group
Code groups must have an associated permission set. Use an existing one or create a new one.

Would you like to use an existing permission set already defined in this policy level or create a new permission set?

Use existing permission set:
FullTrust

Create a new permission set

< Back Next > Cancel

12. Select "Next"
13. Select "Finish"

Create Code Group

Completing the Wizard
Click finish to create the new code group.

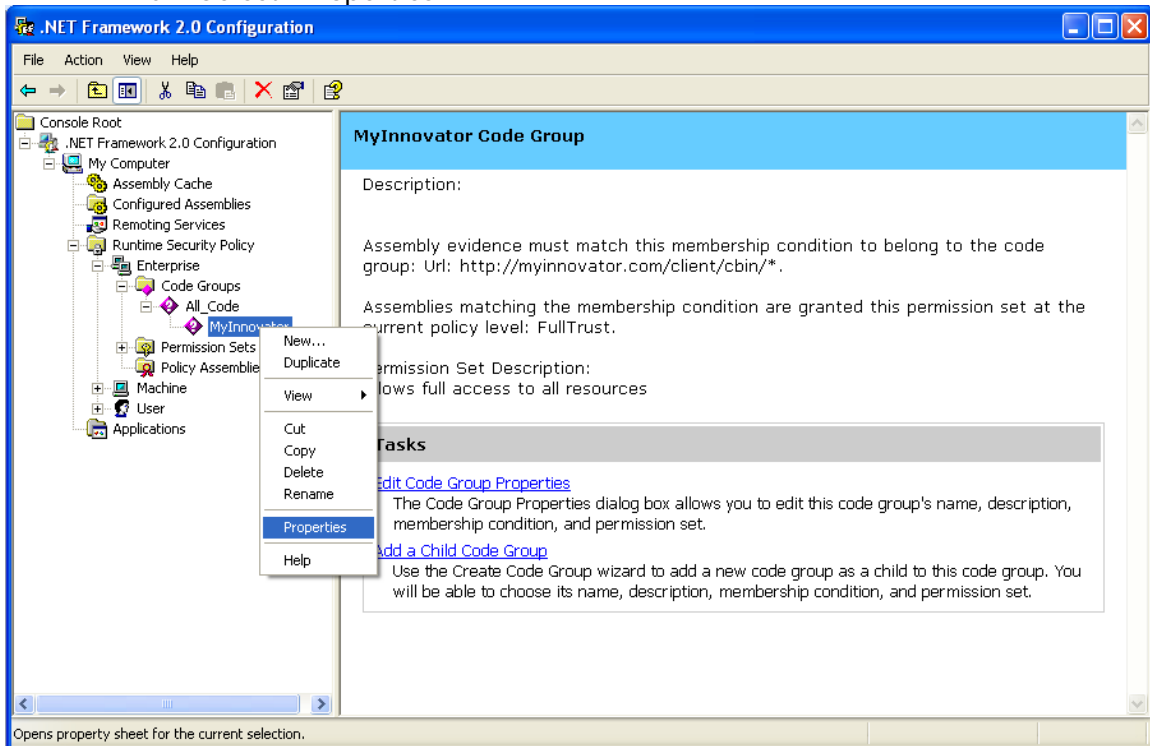
Please click the Finish button to have the wizard create the new code group.

If you need this code group to be Level Final or Exclusive, you can enable these options in the new code group's property page.

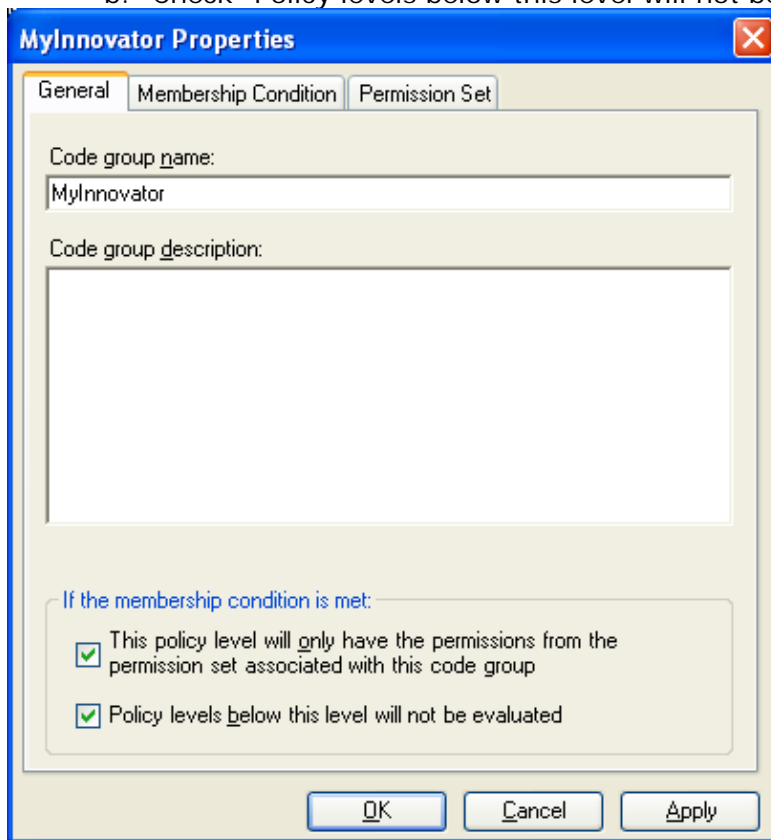
< Back Finish Cancel



14. In the Microsoft .NET Framework 2.0 Configuration window right click on the newly created node in the Code Group (name you just assigned).
- a. Select "Properties"



15. On the General Tab
 - a. Check "This policy level will only have the permissions from the permission set associated with the code group."
 - b. Check "Policy levels below this level will not be evaluated."



16. Select "OK"
17. Close the Microsoft .NET Framework 2.0 Configuration window

