



Aras Innovator .NET Client Security Policy Configuration



Aras Innovator 9.0

Document #: 9.0.01122007

Last Modified: 5/28/2008

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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 2.0 or the .NET Framework 1.1.

IMPORTANT: Only one .NET Framework configuration is required to be present on a client PC, but if BOTH are installed, the configuration used by Internet Explorer will default to the most recent version.

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

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.

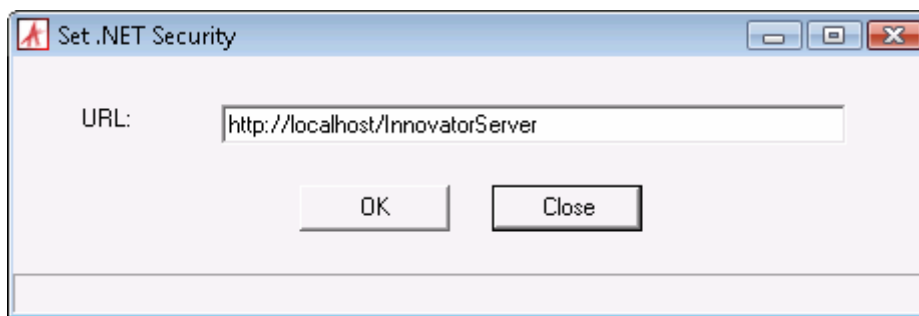
1. Open Internet Explorer
2. Type in the following web address
<http://www.aras.com/support/downloads/download.aspx>
3. Download the "Manual .NET Security Config Tool [sdns.exe utility]" to your hard drive
 - a. Click on the Download Now button next to the tool description.
 - b. When prompted to Run 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 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” or “Setting security settings for .NET 1.1”
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

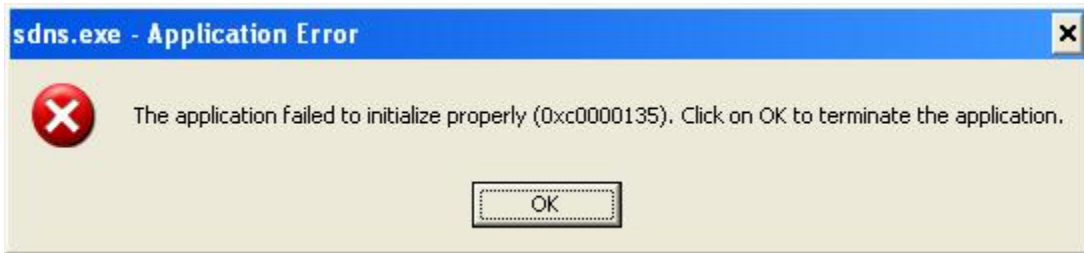
If you attempt to run the tool without downloading it to the local machine first, you will receive an error telling you the tool failed to run. Please follow these alternate steps for downloading the tool.

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

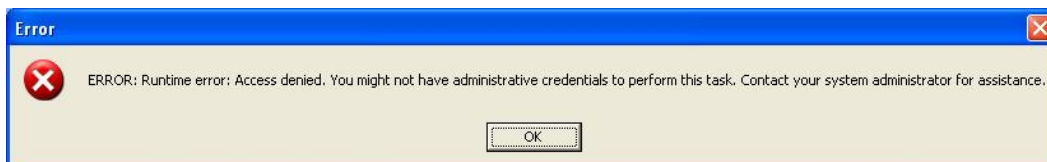
<http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&displaylang=en>

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

3.1.3 sdns.exe Error: Access denied

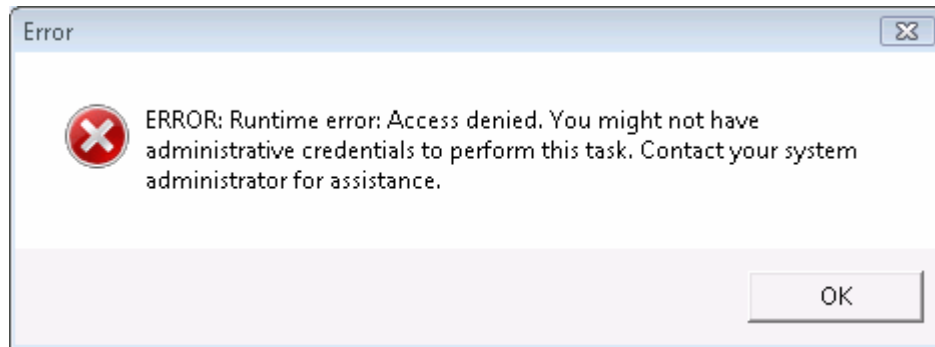
3.1.3.1 Windows XP and Windows 2000

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

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.

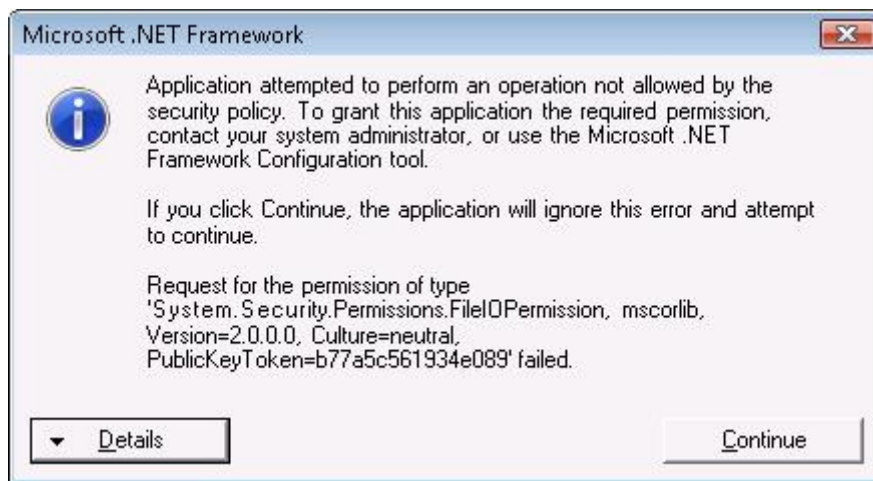


3.2 .NET Errors During Login

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.



3.3 .NET Framework 1.1 Hotfix

3.3.1 Innovator Closes without Action

If you are running on the .NET Framework 1.1, it is possible that Innovator may close after receiving an error message. This can even happen without any error message. This is a result of a bug in the .NET Framework 1.1, but Microsoft® has fixed this problem. Unfortunately, the hotfix for this is not available as part of a service pack at the time of release of Aras Innovator. However, this fix will be included in the next service pack upgrade from Microsoft®.

If your System Administrator chooses not to deploy the hotfix, then it can be manually installed on each individual client machine running .NET Framework 1.1.

Aras Corporation has supplied the executable file that can be run on the client machine with the Aras Innovator CD image. This file is called NDP1.1sp1-KB912845-X86.exe and can be found in the Utilities folder of the CD image.

Alternately, this file 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 “Patch for .NET 1.1 Clients” (NDP1.1sp1-KB912845-X86.exe) 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. Double-click on the file NDP1.1sp1-KB912845-X86.exe to begin installation.



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. This tool is available with the redistributable version of the .NET Framework 1.1. However, the .NET Framework 2.0 requires the .NET Framework 2.0 SDK in addition to the redistributable.

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>

.NET Framework Version 1.1 Redistributable Package

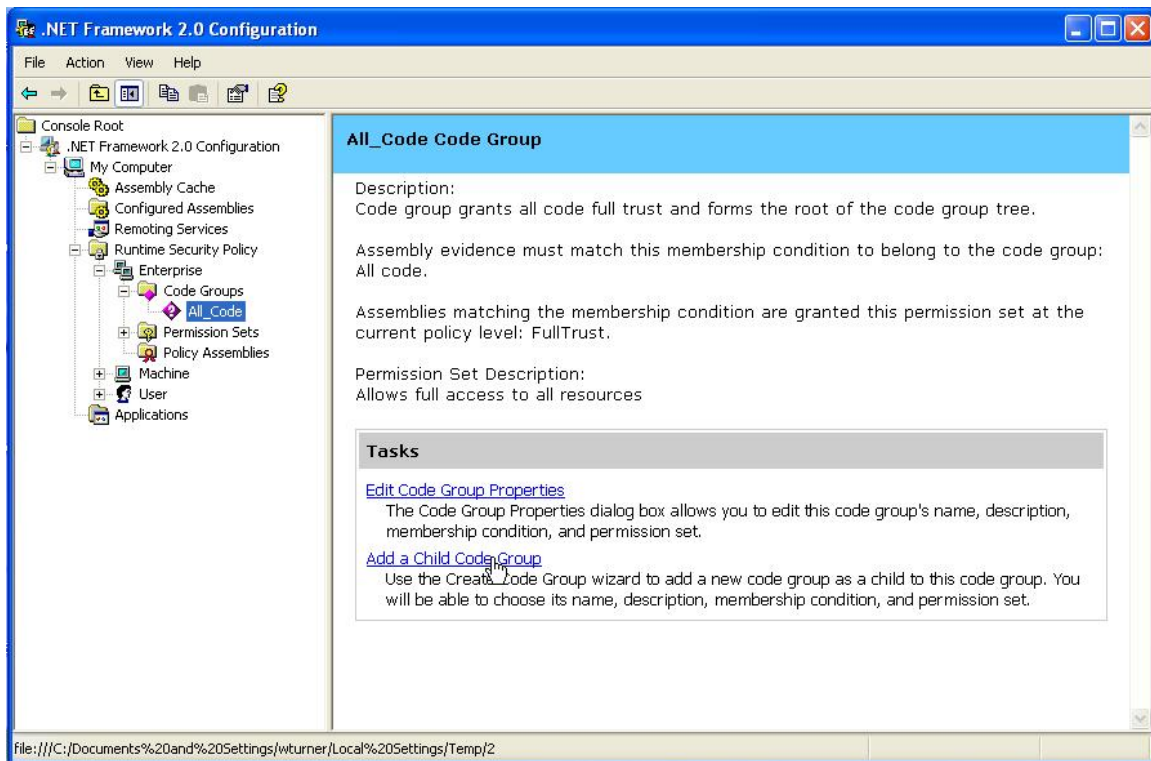
<http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=262D25E3-F589-4842-8157-034D1E7CF3A3>

IMPORTANT: If you are deploying to the .NET Framework 1.1, please, review sections 4.2. The hotfix for .NET Framework 1.1 should be installed on all client PC machines, as well.



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

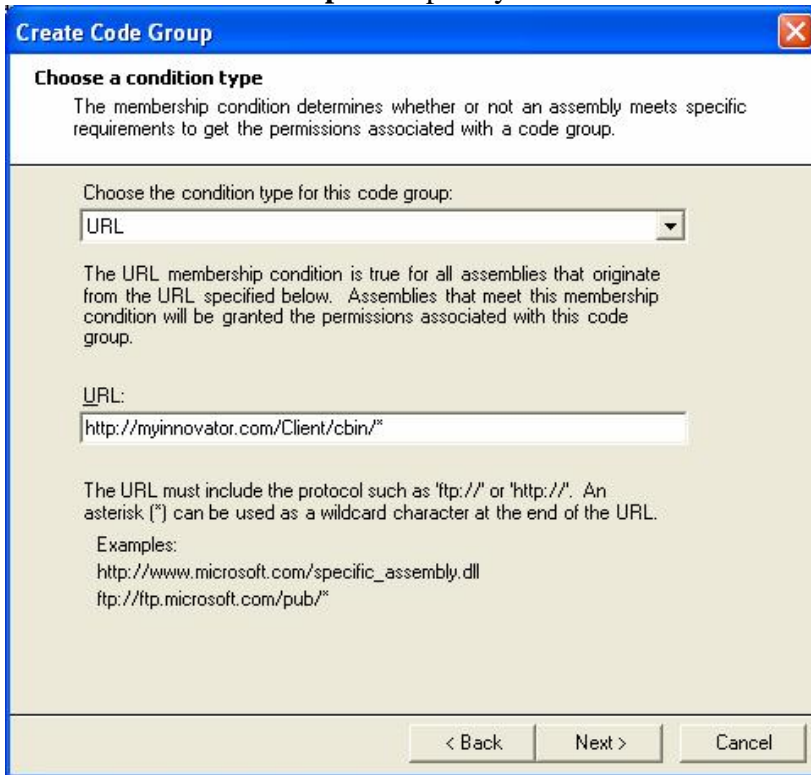
Browse...

< 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/*`



Create Code Group

Choose a condition type
The membership condition determines whether or not an assembly meets specific requirements to get the permissions associated with a code group.

Choose the condition type for this code group:
URL

The URL membership condition is true for all assemblies that originate from the URL specified below. Assemblies that meet this membership condition will be granted the permissions associated with this code group.

URL:
`http://myinnovator.com/Client/cbin/*`

The URL must include the protocol such as 'ftp://' or 'http://'. An asterisk (*) can be used as a wildcard character at the end of the URL.

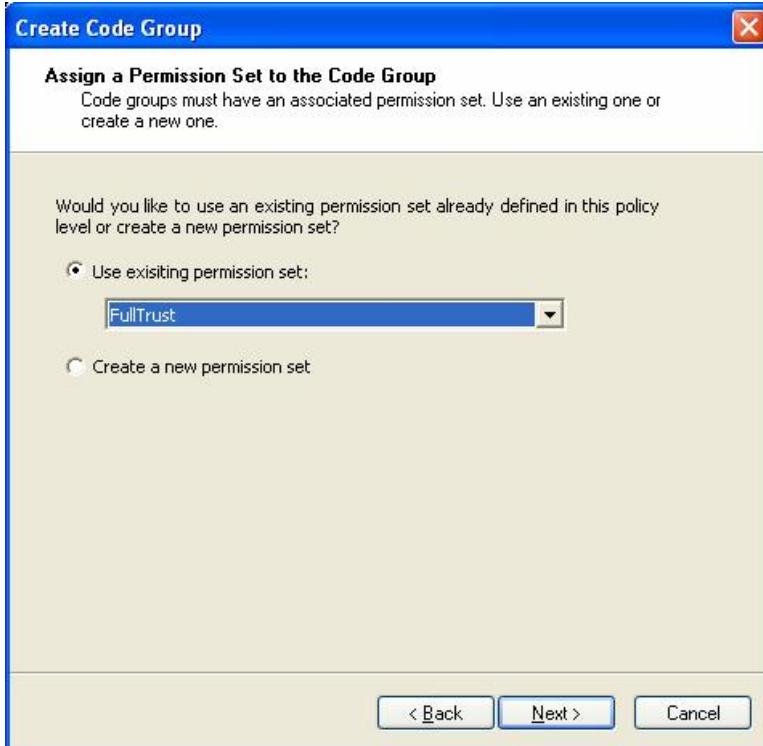
Examples:
`http://www.microsoft.com/specific_assembly.dll`
`ftp://ftp.microsoft.com/pub/*`

< Back Next > Cancel

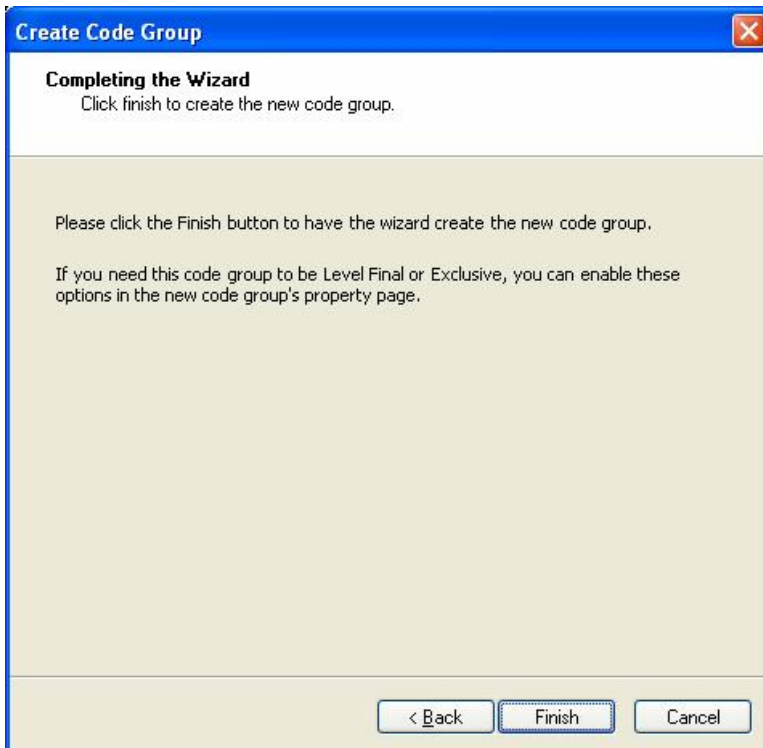
10. Select “Next”



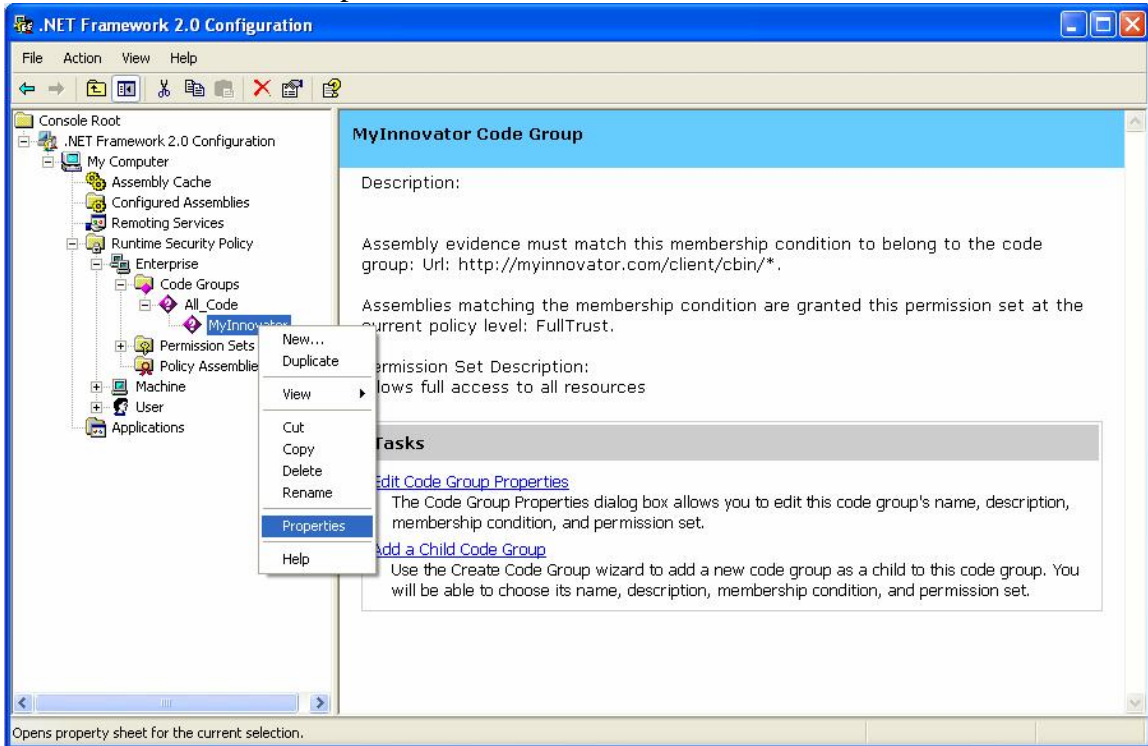
11. Select "Use existing permission set"
 - a. Select "Full Trust"



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

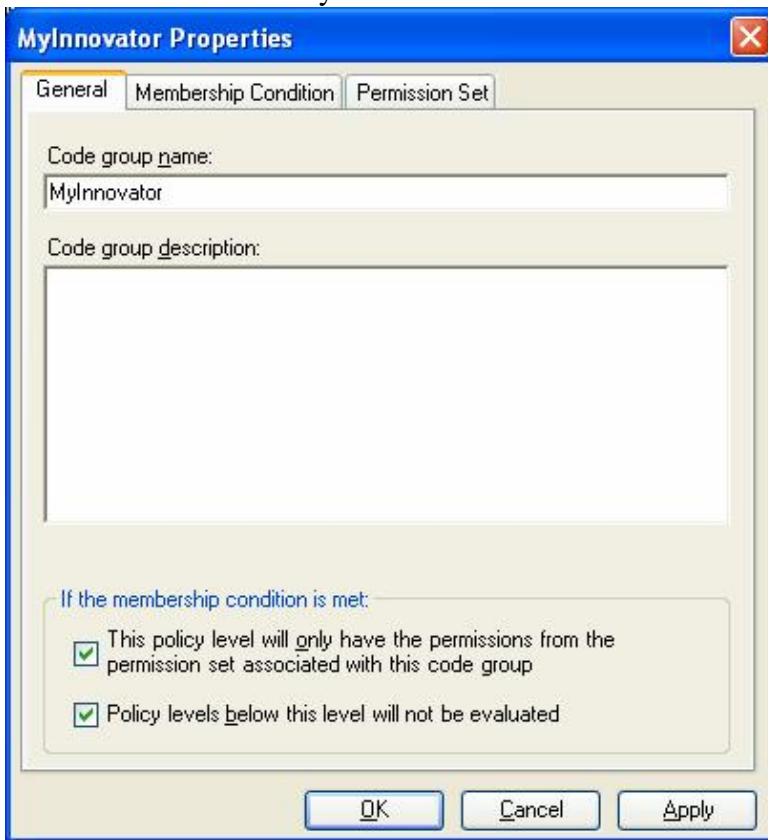


14. In the Microsoft .NET Framework 2.0 Configuration window right click on the newly created node in the Code Group (name you just assigned).
- a. Select “Properties”



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.”



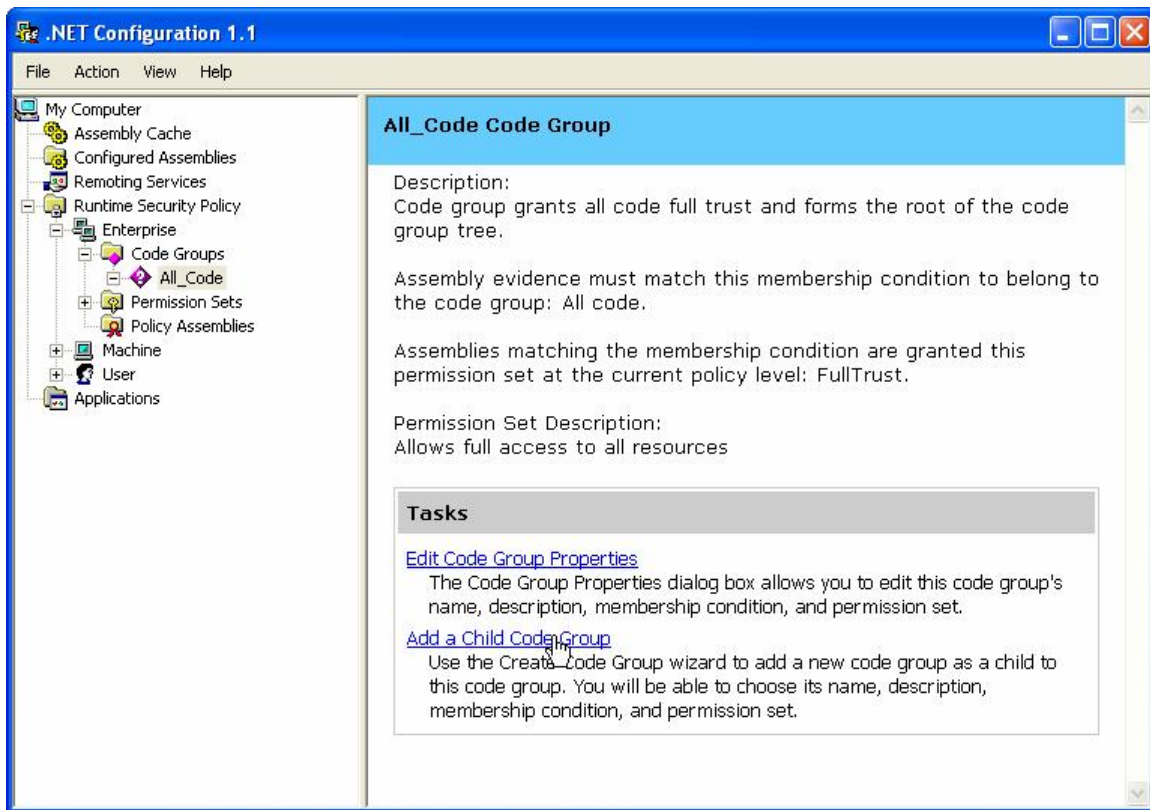
16. Select “OK”

17. Close the Microsoft .NET Framework 2.0 Configuration window



4.2 .NET Framework 1.1 Configuration

1. Go to the Windows Control Panel
 - a. Start → Settings → Control Panel
2. Go to the Administrative Tools
3. Go to the Microsoft .NET Framework 1.1 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. In the frame to the right, Select “Add a Child Code Group”



6. 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

7. Select “Next”



8. 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/*`

Create Code Group

Choose a condition type
The membership condition determines whether or not an assembly meets specific requirements to get the permissions associated with a code group.

Choose the condition type for this code group:
URL

The URL membership condition is true for all assemblies that originate from the URL specified below. Assemblies that meet this membership condition will be granted the permissions associated with this code group.

URL:
`http://myinnovator.com/Client/cbin/*`

The URL must include the protocol such as 'ftp://' or 'http://'. An asterisk (*) can be used as a wildcard character at the end of the URL.

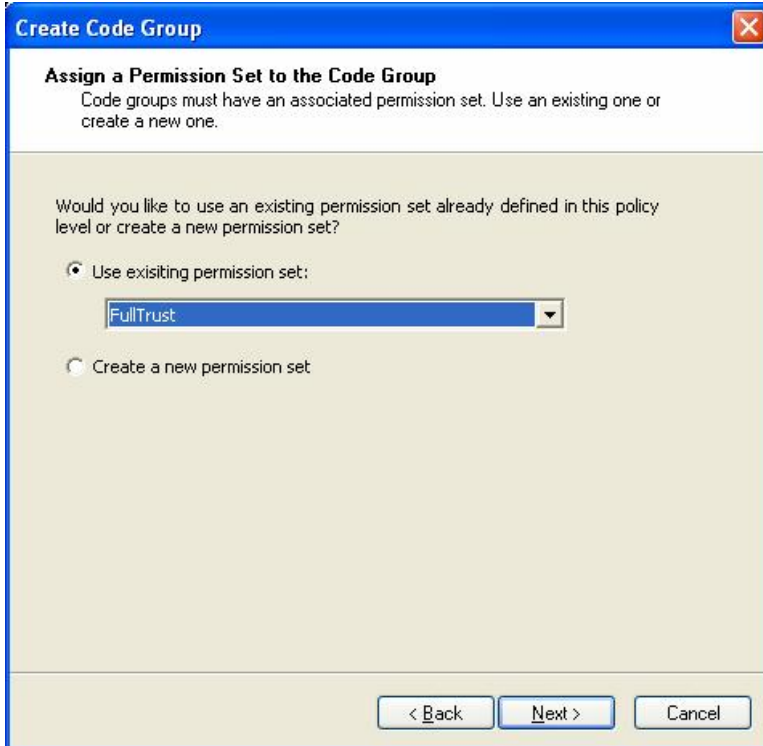
Examples:
`http://www.microsoft.com/specific_assembly.dll`
`ftp://ftp.microsoft.com/pub/*`

< Back Next > Cancel

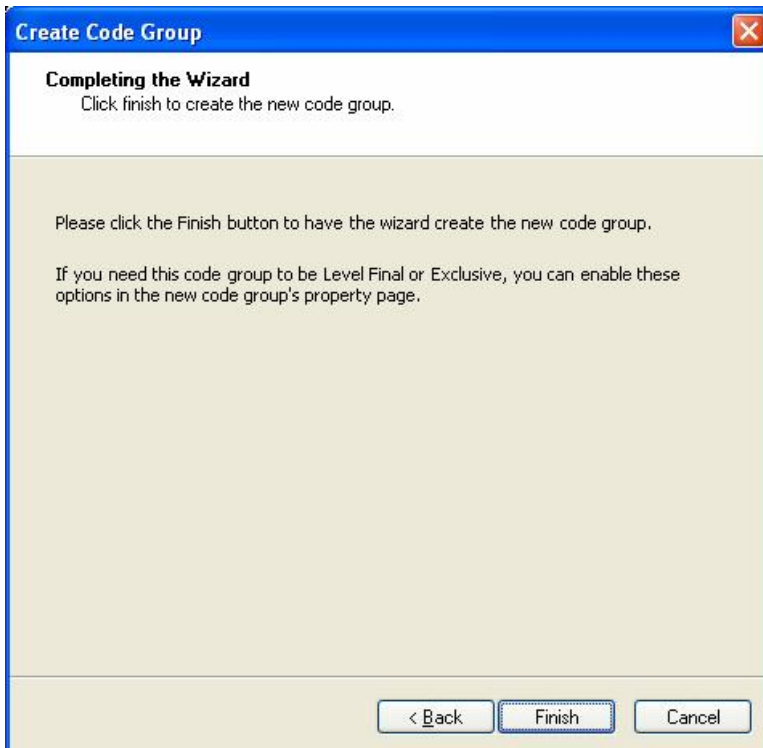
9. Select “Next”



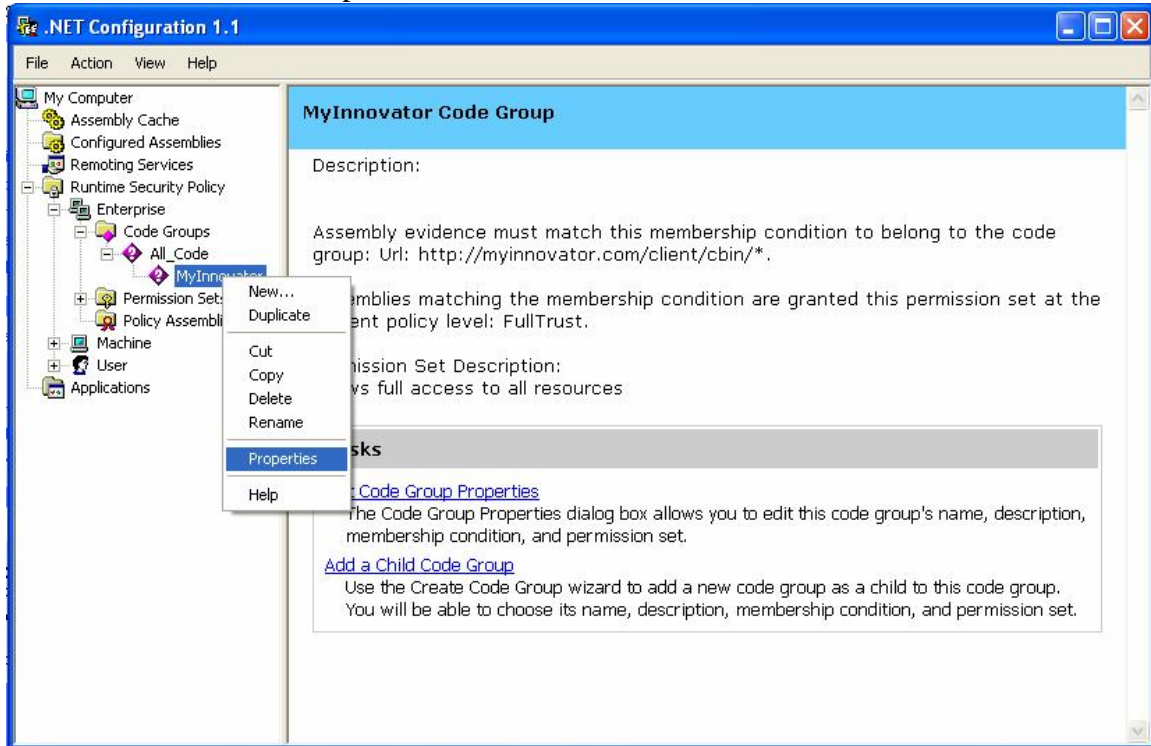
10. Select "Use existing permission set"
 - a. Select "Full Trust"



11. Select "Next"
12. Select "Finish"

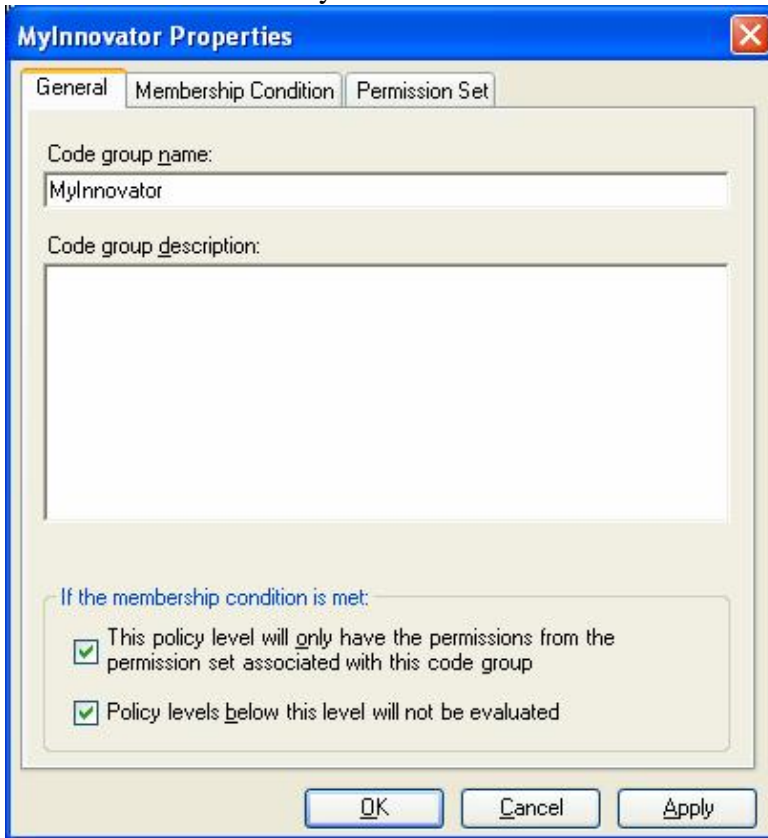


13. In the Microsoft .NET Framework 1.1 Configuration window right click on the newly created child to the Code Group.
 - a. Select “Properties”



14. 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.”



15. Select “OK”

16. Close the Microsoft .NET Framework 1.1 Configuration window

