



IBM System x

IBM Configuration Pack for
Microsoft System Center Configuration Manager
User's Guide

Version 5.0





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Note

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Edition notice

This edition applies to version 5.0 of the IBM Configuration Pack for Microsoft System Center Configuration Manager User's Guide and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this publication

This guide provides instructions for installing IBM® Configuration Pack for Microsoft System Center Configuration Manager, v5.0 and using it to author and manage IBM configuration data in your environment.

Conventions and terminology

Notices used in this guide

The following notices are designed to highlight key information:

Note: These notices provide important tips, guidance, or advice.

Important:

These notices provide information or advice that might help you avoid inconvenient or difficult situations.

Attention:

These notices indicate possible damage to programs, devices, or data. An attention notice appears before the instruction or situation in which damage can occur.

Terminology used in this guide

The following list describes some of the terms, acronyms, and/or abbreviations used in this document.

configuration item

configuration item

ASU IBM Advanced Settings Utility

SCCM

Microsoft System Center Configuration Manager

DCM Desired Configuration Management

IBM System Configuration Setting

One IBM configuration setting defines one property of IMM/uEFI and its expected value, and returns an error when the property is not compliant with the expected value.

IBM System Configuration Setting Collection

A setting collection that contains one or more IBM System Configuration Settings. In this release, one collection has a firmware type of IMM or uEFI.

IBM System Configuration Item

A **configuration item** that is composed of other IBM Setting Collections.

IBM System Configuration Description

An XML file that contains IBM configuration setting/**configuration item** information.

DCM configuration item

Refers to the fundamental structural unit of a Desired Configuration Management system.

DCM configuration setting

A configuration setting that is composed of other configuration settings. You can define the evaluation condition and severity in each configuration setting.

DCM Configuration Baseline

A Configuration Baseline composed of other **configuration items**. The baseline can be assigned to the SCCMclient collection. You can evaluate these baselines on the endpoint.

IBM Configuration Pack

The IBM Configuration Pack is a .cab file and contains **configuration items** and baselines. You can import **configuration items** and baselines by importing the IBM Configuration Pack into the DCM server.

Digest Schema

In DCM, the Desired Configuration Management digest definition (XSD) defines the Desired Configuration Management documents (configuration items): the constraints upon the elements, the attributes that can appear, their relationship to each other, and what types of data can be in them. The IBM Configuration Pack XML file must align with the digest schema standard that can be imported into the DCM server.

IBM configuration data

IBM System Configuration Item **configuration items**, IBM System Setting Collections and IBM System Settings are collectively called IBM configuration data.

IBM Configuration Pack Editor

An editor that can author IBM **configuration item** and Setting Collections, and export IBM configuration data to a IBM Configuration Pack/Configuration Description.

IBM Configuration Capture

This tool can capture IMM/UEFI/UEFI (Romley Platform) settings from the IBM server, and export those captured settings to a Configuration Description.

Information resources

You can find additional information about IBM Configuration Pack for Microsoft System Center Configuration Manager, v5.0 on the World Wide Web.

PDF files

View or print documentation that is available in Portable Document Format (PDF).

Downloading Adobe Acrobat Reader

You need Adobe Acrobat Reader to view or print these PDF files. You can download a copy from the Adobe Reader Web site.

Viewing and printing PDF files

You can view or print any of the respective PDF files located on the Microsoft System Management Solutions for IBM Servers website. Please click the link provided to locate the individual product pages for each publication.

World Wide Web resources

The following web pages provide resources for understanding, using, and troubleshooting IBM System x, BladeCenter® blade servers, and systems-management tools.

IBM System x Integration Offerings for Microsoft Systems Management Solutions

Here you can locate the latest downloads for IBM Configuration Pack for Microsoft System Center Configuration Manager, v5.0.

IBM Support Portal

Locate support for IBM hardware and systems-management software.

IBM ServerProven® pages

IBM Server Proven System x and xSeries pages

IBM ServerProven Compatibility for BladeCenter products pages

Obtain information about hardware compatibility with IBM System x, IBM BladeCenter, and IBM IntelliStation® hardware.

Microsoft System Center Technical Resources page

Locate support for the System Center Configuration Manager.

Chapter 1. Introduction to IBM Configuration Pack for Microsoft(tm) System Center Configuration Manager

What's new in version v5.0?

Trial license support

Trial license support is automatically activated if no product license is activated when this product is installed. To be sure that you receive the full length of the trial license support, ensure that your system time is correct. After the trial license is activated, the trial period is 90 days. During the trial period, premium features are usable. In the last 5 days of the trial period, a notification is displayed every 24 hours to remind you of the expiration. After the trial license expires, you must activate the product license or the premium features will be disabled. You can obtain the product license [here](#):

IBM Upward Integration for MSSC

Free features

This release includes the following features:

Capture IMM/UEFI/UEFI (Romley Platform) settings

IBM Configuration Capture can capture IMM/UEFI/UEFI (Romley Platform) settings from an IBM Server, and export those captured settings to an IBM System configuration description file. The exported configuration description file can be imported into any IBM Configuration Pack Editor.

Premium features

The following features are fee-based functions that are enabled with a valid product license of v4.0 or later:

Export IBM System configuration item to SCCM Console:

The ability to import configuration items to SCCM Console and assign them to SCCM client collections.

The following features are fee-based functions that are enabled with a valid product license of v3.0 or later:

Author IBM System configuration data:

The IBM System configuration data is composed of IBM **configuration items**, IBM Configuration Setting Collections and IBM configuration settings. In this release, the IBM System configuration data scope is IMM/uEFI settings.

Support the common settings of IMM/uEFI:

The IBM Configuration Pack Editor supports some common settings of IMM/uEFI that can help you author IBM System configuration setting.

Export IBM System configuration data to a IBM Configuration Pack:

The IBM Configuration Pack contains **configuration items** and Setting Collections in a .cab file and up to DCM standards. This IBM Configuration Pack can be imported into the DCM server.

Export IBM System configuration data to a configuration description:

The configuration description is an XML file that describes the

configuration data. You can share and edit configuration data: you can export IBM configuration data to a configuration description, or a configuration description can be imported into the IBM Configuration Pack Editor.

Import IBM System configuration description:

You can import a configuration description file, which can contain one or more IBM configuration items and Setting Collections.

How IBM Configuration Pack for Microsoft System Center Configuration Manager, v5.0 supports IBM systems

IBM Configuration Pack for Microsoft System Center Configuration Manager, v5.0 provides the means to check for IMM/uEFI settings. Use IBM Configuration Pack Editor to author settings that you want to validate on the endpoint.

These IBM configuration data can be exported by IBM Configuration Pack Editor to a Configuration Pack file (.cab) that can be imported in the SCCM DCM. Administrators can assign those configuration data to the specific collections in SCCM. These configuration data include vbscript, which invokes the ASU.exe tool to validate the endpoint's compliance.

Advanced Settings Utility (ASU)

You can use the IBM Advanced Settings Utility (ASU) to modify firmware settings from the command line on multiple operating-system platforms like DOS, Linux, Solaris, and Windows (also WinPE). It supports BIOS code, Remote Supervisor Adapter firmware, Remote Supervisor Adapter II firmware, Baseboard management controller firmware, IMM and more.

Note: IBM Configuration Pack for Microsoft System Center Configuration Manager, v5.0 will use ASU v3.60 or later on the endpoint (<http://www-947.ibm.com/support/entry/portal/docdisplay?lnodocid=TOOL-ASU>).

Note:

Note: IBM configuration data does not include ASU.exe, so you must copy ASU.exe to the following location on the endpoint as described here.

Copy the ASU.exe file (for 32-bit OS) or ASU64.exe file (for 64-bit OS) under the IBM_Support\ASU\ folder of the system directory, for example, C:\IBM_Support\ASU\asu.exe, C:\IBM_Support\ASU\asu64.exe. The location of ASU.exe must be manually recorded in the registry by updating the string key "Location" under HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\IBM\ASU\

In addition, you can type an absolute path of ASU.exe in the IBM Configuration Pack Editor.

Chapter 2. Installing the IBM Configuration Pack v5.0

Procedure

1. Double click the IBM Configuration Pack v5.0 installer (.exe file). The welcome page for IBM Configuration Pack opens.

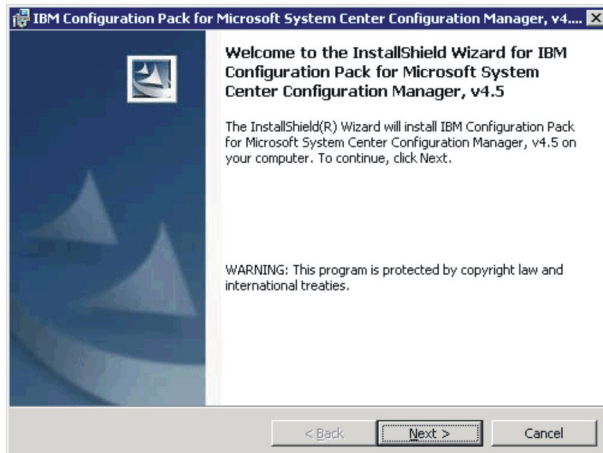


Figure 1. Installation wizard welcome page

2. Click **Next** to proceed to the License Agreement page.

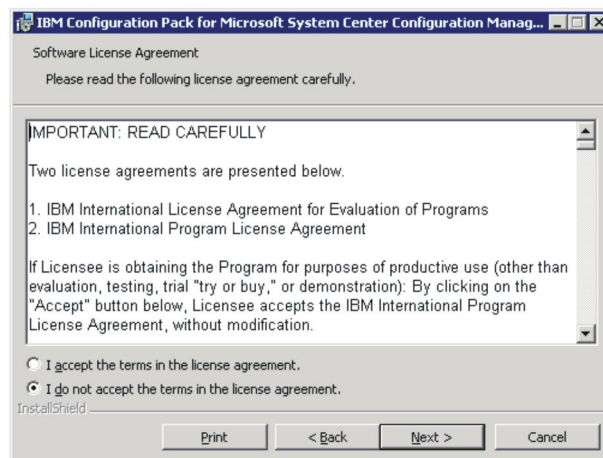


Figure 2. Install wizard license agreement

3. Select **I accept the terms in the license agreement** to accept the license.
4. Click **Next**. If no product license is activated, the Trial Version page opens; otherwise, the Destination Folder page opens.

5. On the Trial Version page, you can click **Contact IBM** to obtain a valid product license, click **Next** to proceed to the Destination Folder page.

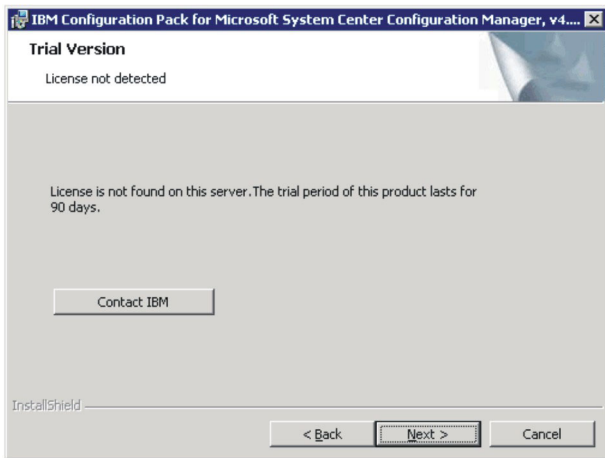


Figure 3. Trial Version page

6. On the Destination Folder page, you can change the directory to install the IBM Configuration Pack by clicking **Change**.

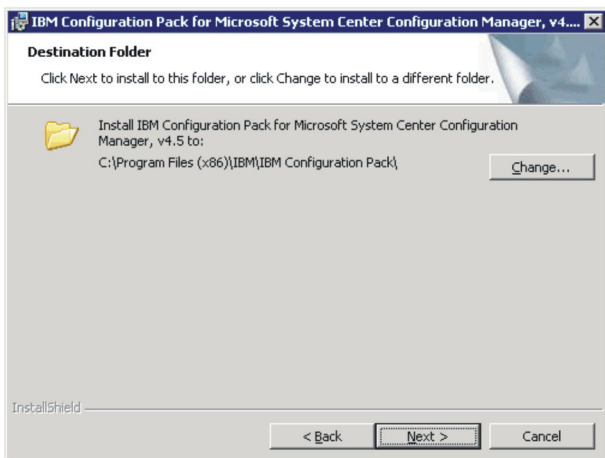


Figure 4. Destination Folder page

7. Click **Next** to proceed to the Ready To Install the Program page.

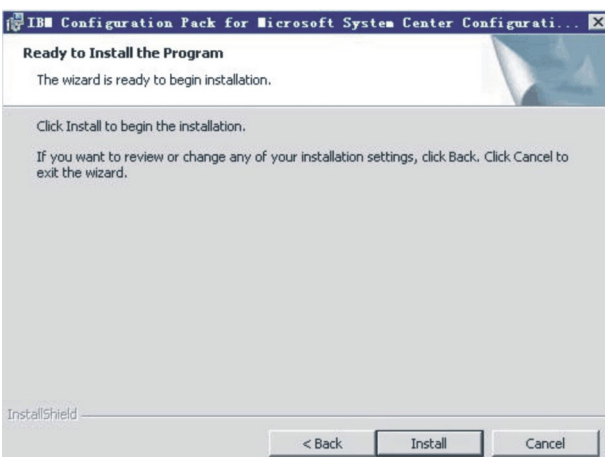


Figure 5. Ready to Install the Program page

8. Click **Install** to start the installation process.

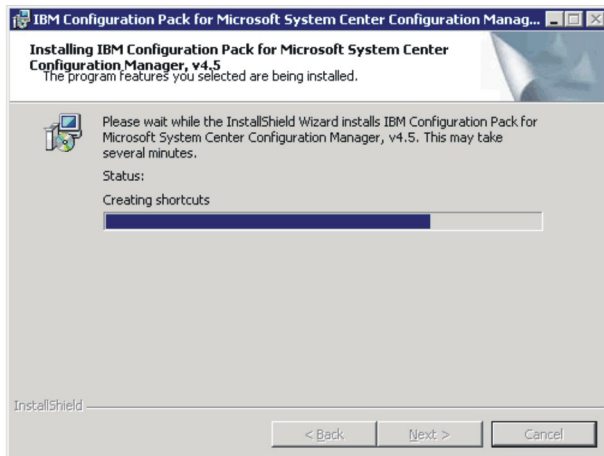


Figure 6. Installation status page

9. Click **Finish** to complete the installation.

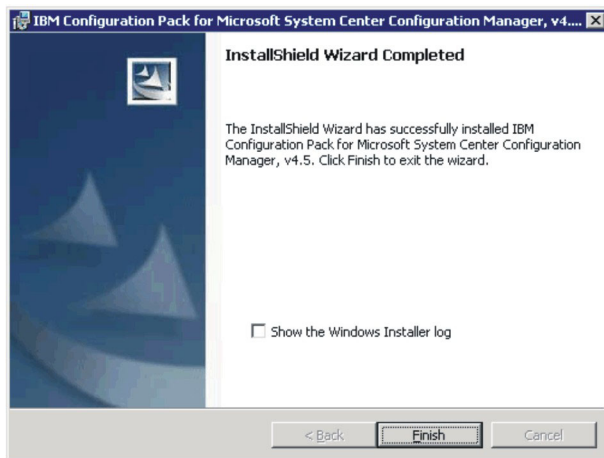


Figure 7. Installation complete page

Uninstalling the IBM Configuration Pack v5.0

There are four ways to uninstall IBM Configuration Pack v5.0:

- (Recommended method) Running the IBM Configuration Pack v5.0 installer (.exe file) and selecting the **Remove** option.
- Uninstalling from **Add or Remove Programs**, or if the operating system is Microsoft Windows Server 2008, from **Programs and Features**.
- Using the IBM Upward Integrated Installer (see IBM Upward Integrated Installer User's Guide for more information).
- Using the uninstall shortcut from the Start Menu.

Note: If you authored configuration data, you will be notified whether to delete the configuration data folder during the uninstall process.

Chapter 3. Working with IBM Configuration Pack and Microsoft System Center Configuration Manager

IBM Configuration Pack v5.0 provides an easy way to author IBM configuration data and export it to an IBM Configuration Pack.

Brief introduction

The IBM Configuration Pack for SCCM v5.0 provides an easy way to author IBM configuration data, which can be imported into the SCCM DCM Server. The SCCM DCM Server assigns IBM configuration data to its clients to evaluate whether the clients are in compliance or not.

The following steps provide an overview of how to use IBM Configuration Pack and SCCM DCM:

1. Create IBM configuration data that you want to evaluate. You can create configuration data in one of the following ways:
 - Create IBM configuration data in IBM Configuration Pack Editor. For more information, see “Creating a Setting Collection” on page 9 and “Creating a configuration item” on page 21
 - Capture IBM configuration data from an IBM Server that has IMM, UEFI, and UEFI (Romley Platform) module. For details, see “Running IBM Configuration Capture” on page 82
2. Export the created IBM configuration data into the SCCM DCM Server. For details, see “Exporting configuration items to the IBM Configuration Pack .cab file” on page 37 and “Importing configuration data to DCM” on page 42.
3. Assign and evaluate IBM configuration data in the SCCM Client. For details, see “Assigning the baseline to a collection” on page 54 and “Evaluating the Baseline on the Endpoint” on page 56.

Running IBM Configuration Pack Editor

You can click the IBM Configuration Pack Editor shortcut from the Start menu to launch IBM Configuration Pack Editor.

If the trial license has expired and License Entitlement has not been activated on the IBM System Configuration Server, the IBM Configuration Pack Editor will present a message box to remind you to activate the License Entitlement.

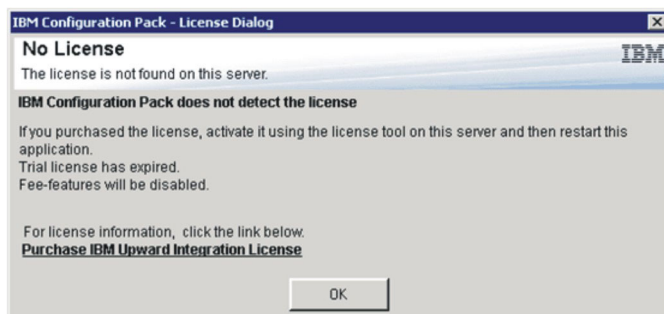


Figure 8. No License dialog box

The IBM Configuration Pack Editor presents the following window:

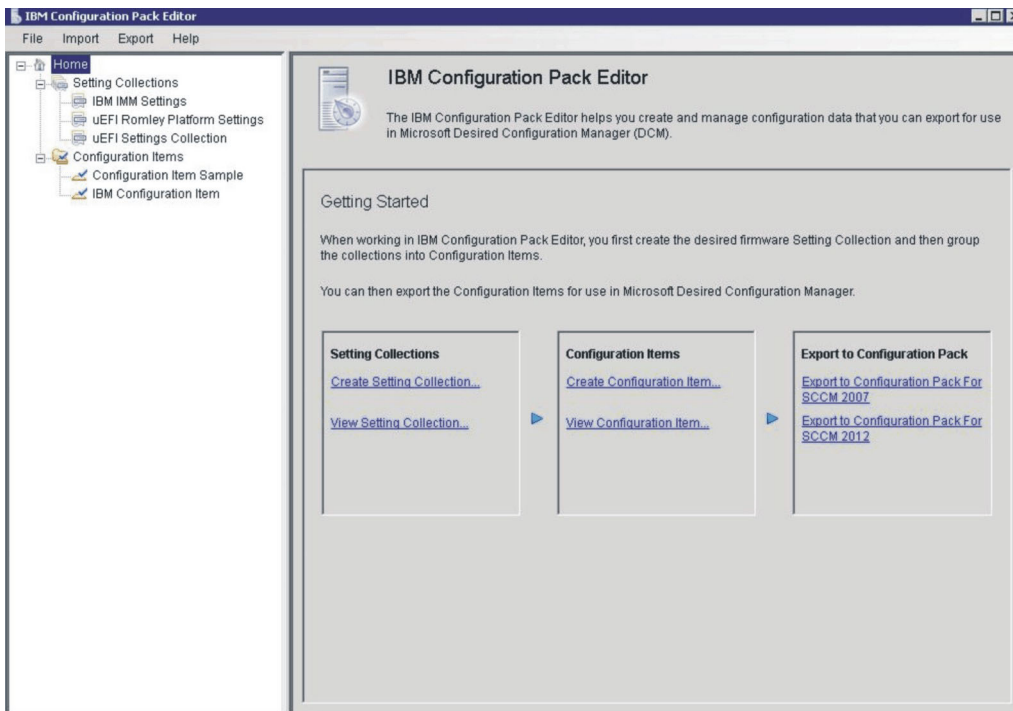


Figure 9. IBM Configuration Pack Editor main window

The left navigation pane of the window contains the following items:

- **Home** tree
- **Setting Collections** tree
- **Configuration items** tree

Home page

The Home page provides three sequential areas to guide you in getting started with IBM Configuration Pack Editor:

- **Setting Collection** List
- **Configuration items**
- **Export to IBM Configuration Pack**

Setting Collection Pane

This box contains two links: Create **Setting Collection**, and View **Setting Collection**.

- Create **Setting Collection** opens a wizard to help you create an IMM/uEFI **Setting Collection**.
- View **Setting Collection** displays the **Setting Collection** tree item, through which you can view the existing **Setting Collection**.

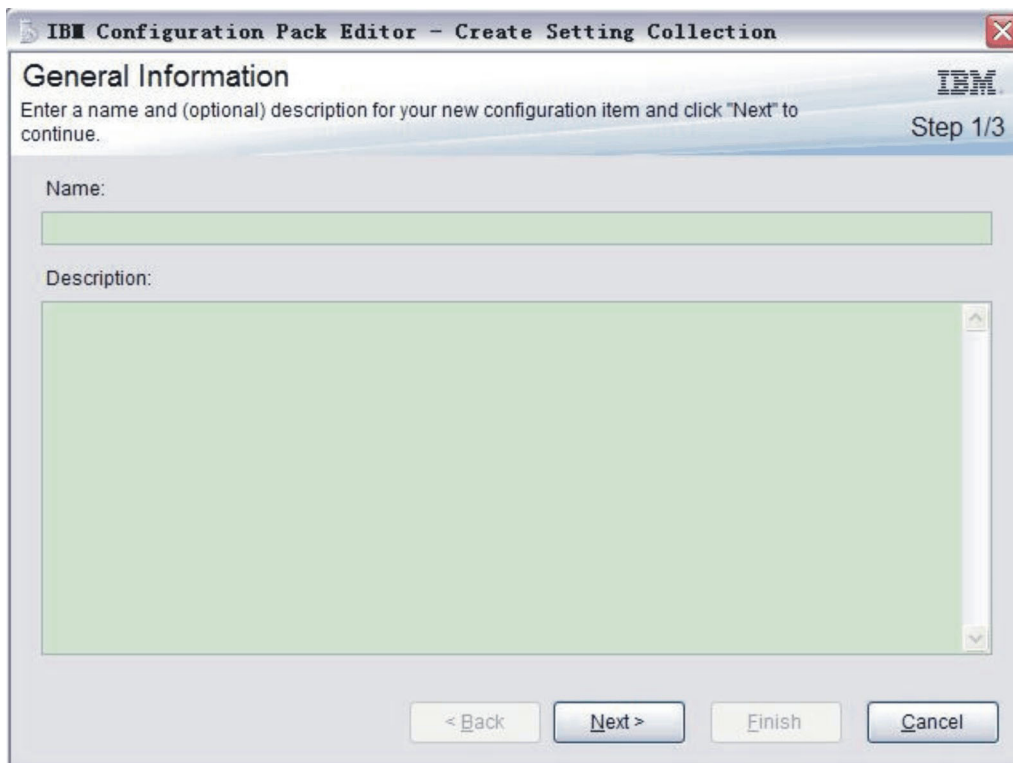
Creating a Setting Collection

About this task

Procedure

1. Type a name and description for the **Setting Collection**, and click **Next**.

Note: A name is required in the **Name** field, but a description is optional.



IBM Configuration Pack Editor - Create Setting Collection

General Information IBM

Enter a name and (optional) description for your new configuration item and click "Next" to continue. Step 1/3

Name:

Description:

< Back Next > Finish Cancel

Figure 10. General Information window

2. Select a setting type for the new **Setting Collection**.

Note: The setting type cannot be modified after it has been created.

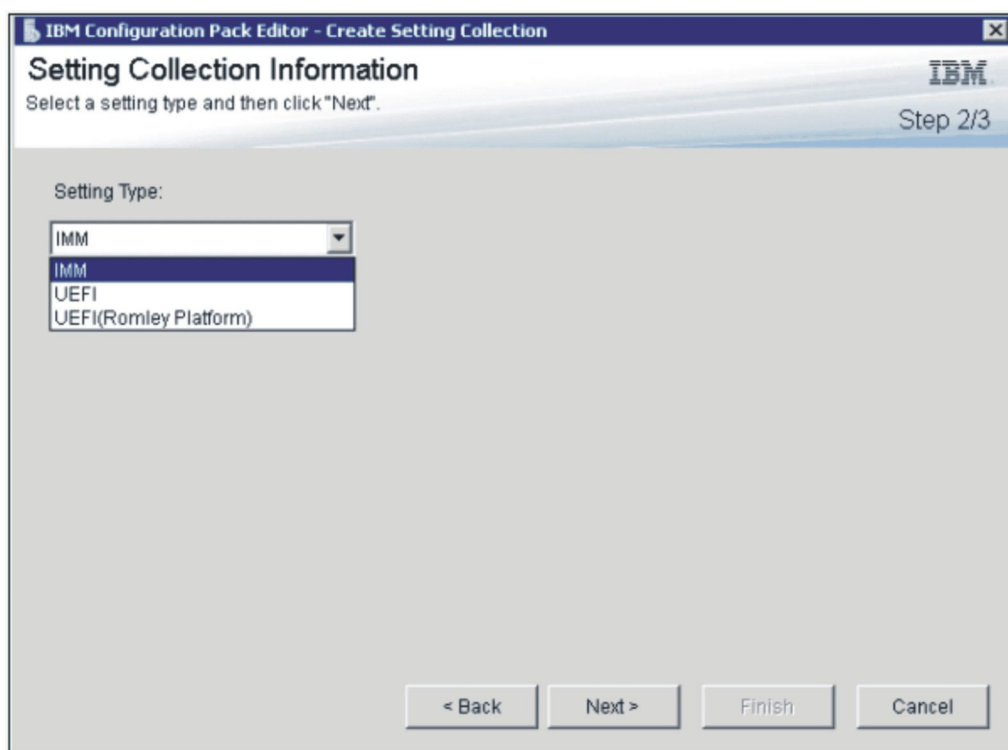


Figure 11. Setting Collection Information window

3. Click **Next**. The Property Thresholds page opens.

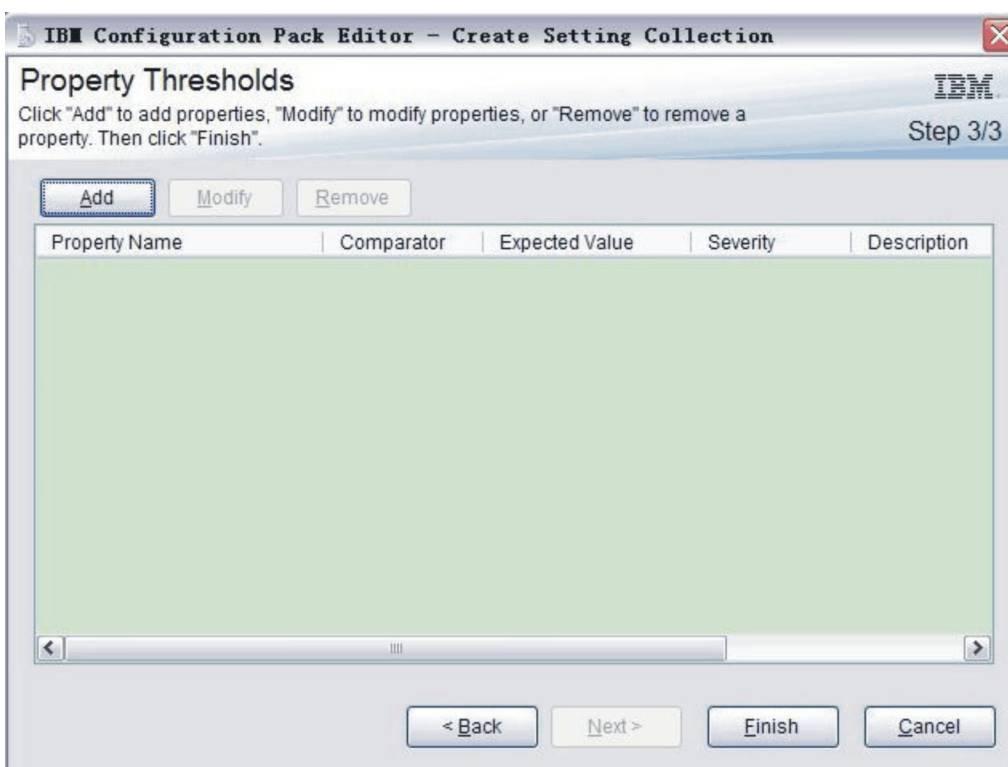


Figure 12. Property Thresholds page

4. Click **Add** to add a new property threshold. The Setting Editor window opens.

IBM Configuration Pack Editor - Setting Editor

Select the property that you wish to monitor for compliance. If the property list does not include the desired property, type it in the Property Name field.

Property Name:

Description:

Comparator: Value:

Severity:

☒ Remediate noncompliant IMM/UEFI setting values on client automatically. The remediation action may be failed if the target setting is readonly.

Expected Value:

i When the property "BootModes.SystemBootMode" "Equals" "UEFI and Legacy", the property is compliant on the endpoint. Otherwise, the property is non-compliant and returns a severity of "Information".

OK Cancel Apply

Figure 13. Setting Editor window

5. Complete the following fields:
 - **Property Name:** Select the specific IMM, UEFI or UEFI (Romley Platform) setting (depending on the selection for **Setting Type** in the Selecting Collection Information window previously).
 - **Comparator:** Each property name in the list has an associated return type, such as String, Integer, Version and Data Time, which requires you to select a comparator from the list items shown in the following table:

Table 1. Comparators by return type

Return Type	Comparator	Description
String	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Contains	If the evaluation property contains the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	One Of	If the evaluation property is one of the values listed for Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.

Table 1. Comparators by return type (continued)

Return Type	Comparator	Description
Integer	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less	If the evaluation property is less than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less or Equals	If the evaluation property is less than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Greater or Equals	If the evaluation property is greater than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.

Table 1. Comparators by return type (continued)

Return Type	Comparator	Description
Version	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less	If the evaluation property is less than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less or Equals	If the evaluation property is less than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Greater or Equals	If the evaluation property is greater than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.

Table 1. Comparators by return type (continued)

Return Type	Comparator	Description
Data Time	Equals	If the evaluation property equals the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Not Equals	If the evaluation property does not equal the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less	If the evaluation property is less than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Less or Equals	If the evaluation property is less than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Greater	If the evaluation property is greater than the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.
	Greater or Equals	If the evaluation property is greater than or equal to the Expected Value, the property is compliant on the endpoint. Otherwise, the property is non-compliant.

- **Severity:** Select one of three levels: Information, Warning, and Error. When the Setting is non-compliant with the expected value on the endpoint, the Setting returns the selected severity level.

As you set the settings, the Selection Summary automatically fills the corresponding **property**, **value**, **comparator**, and **severity** fields.

Note: You can type a property that does not exist in the property support list, but IBM Configuration Pack Editor assumes that the property is of type String, which means that the Comparator will only list “Equals,” “Not Equals,” “Contains” and “One Of.” You must still type an expected value for the property.

In addition, you can set duplicate settings in the **Setting Collection**.

6. Click **Apply** when you are finished adding the new property threshold.

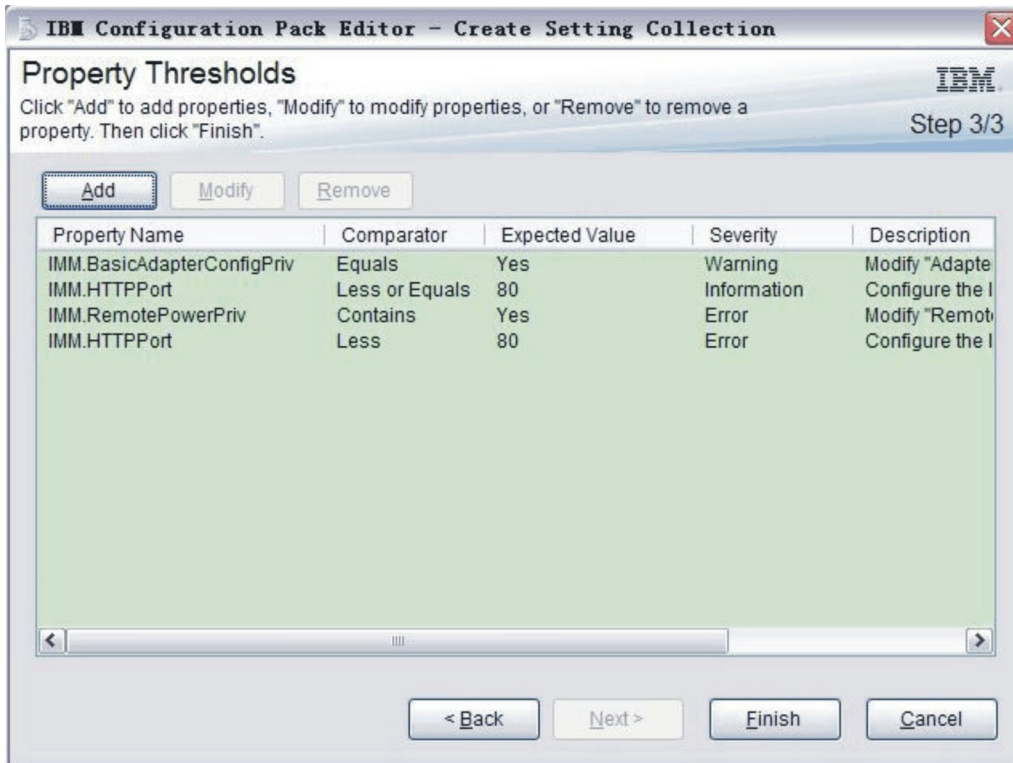


Figure 14. Property Thresholds window

7. To modify a setting, either select it and click **Modify**, or just double click it. To delete a setting, select one or more line items, and click **Remove**.

Viewing a Setting Collection

About this task

After clicking **View Setting Collection**, the Setting Collections list will appear in the right pane.

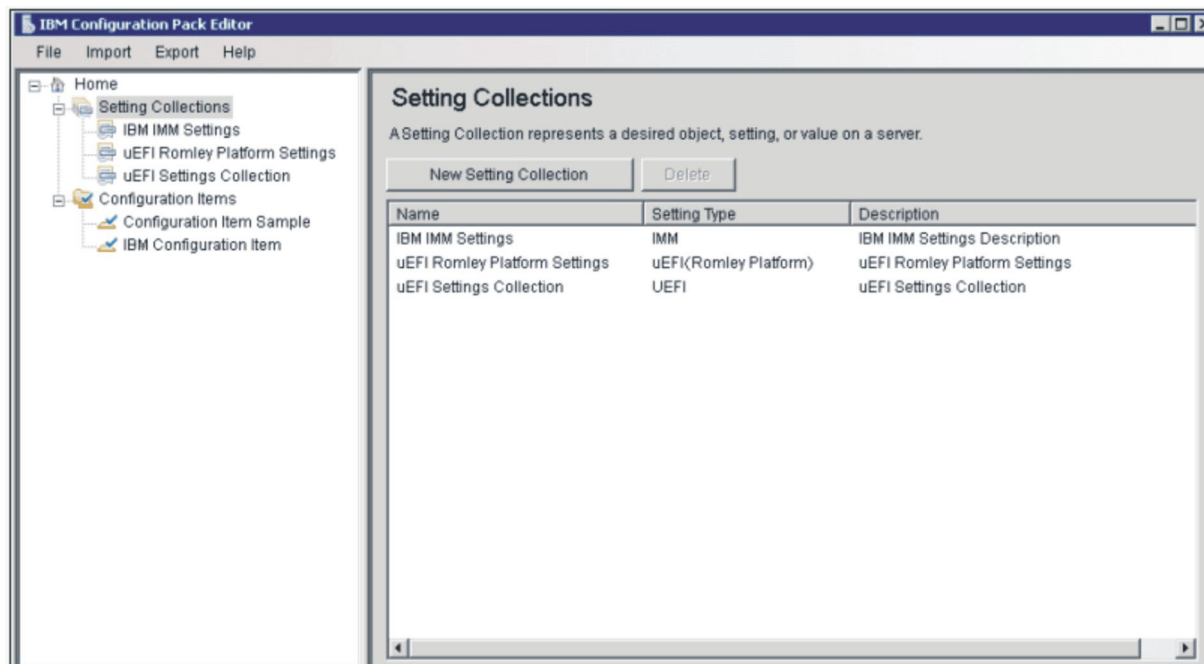


Figure 15. Setting Collection List window

Procedure

- To create a new Setting Collection, either right-click the **Setting Collection** tree item or click **New Setting Collection**.
- To delete Setting Collections, select one or more items in the list and either click **Delete** or press the **Delete** key.
- Select a **Setting Collection** to view its properties or edit it.

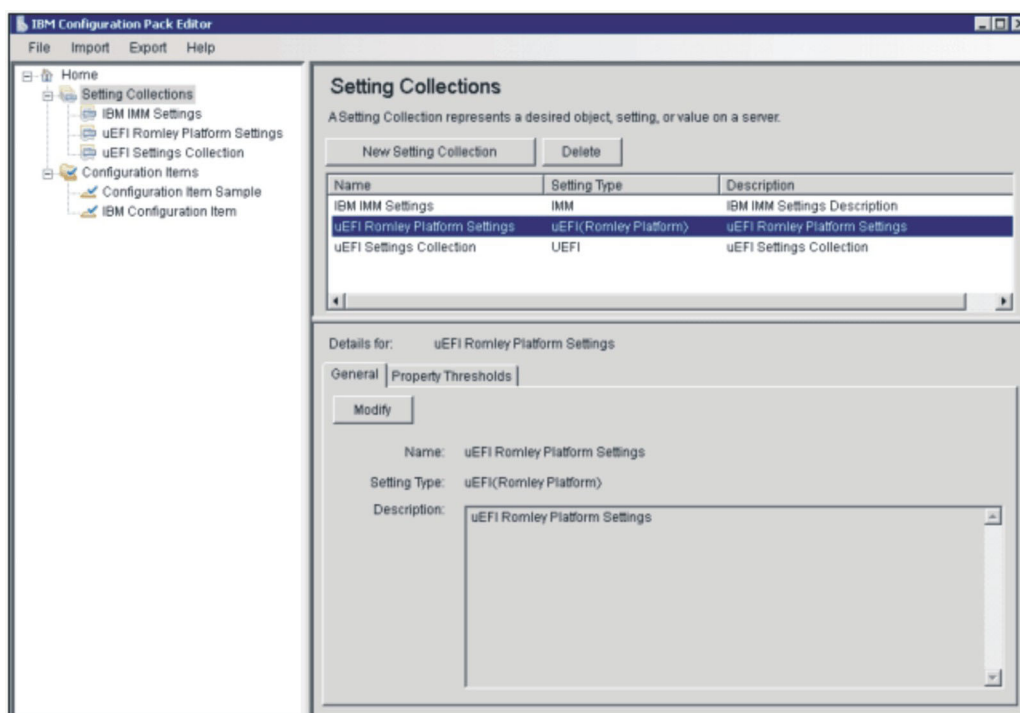


Figure 16. Setting Collection properties

Editing a Setting Collection: About this task

To edit a Setting Collection follow the procedure.

Procedure

To edit a Setting Collection, follow these steps.

1. Click **Modify** on the **General** tab. The General Information window opens.

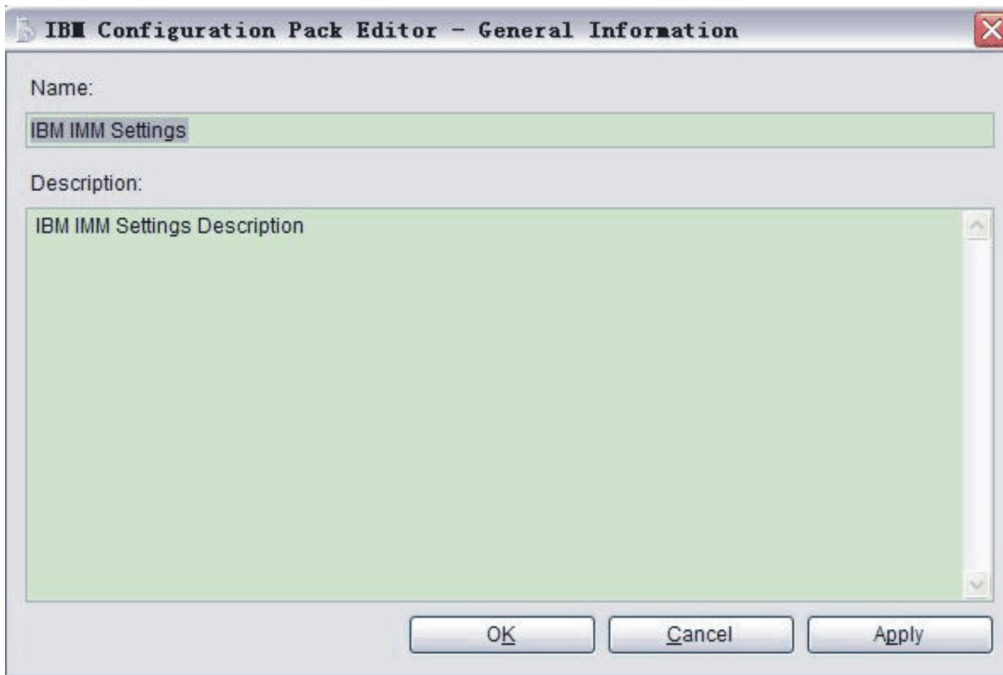


Figure 17. General Information window

2. Edit the **Name** and **Description** fields for this Setting Collection. The collection Name and Description can be modified, but Setting Type cannot be modified.
3. Click the **Property Thresholds** tab. A list of existing property thresholds for the selected Setting Collection is displayed.

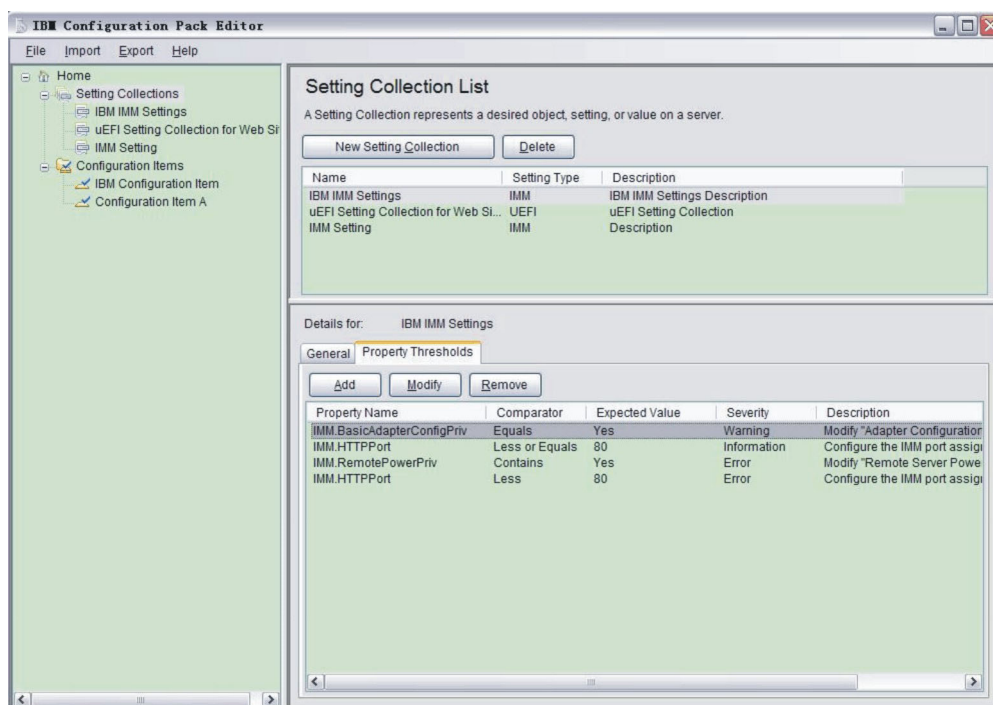


Figure 18. Property Thresholds tab

4. Select one of the following options, depending upon the type of change you want to make.
 - To add settings to the property thresholds, click **Add**.
 - To edit a selected property threshold, click **Modify**.
 - To delete selected property thresholds, click **Remove**.

Note: When a Setting Collection that has been used in another **configuration item** is deleted, it will be removed from the other **configuration items**.

Duplicating a Setting Collection: About this task

To duplicate a Setting Collection, you can right click any Setting Collection in the Setting Collection List view or in the Setting Collections tree view.

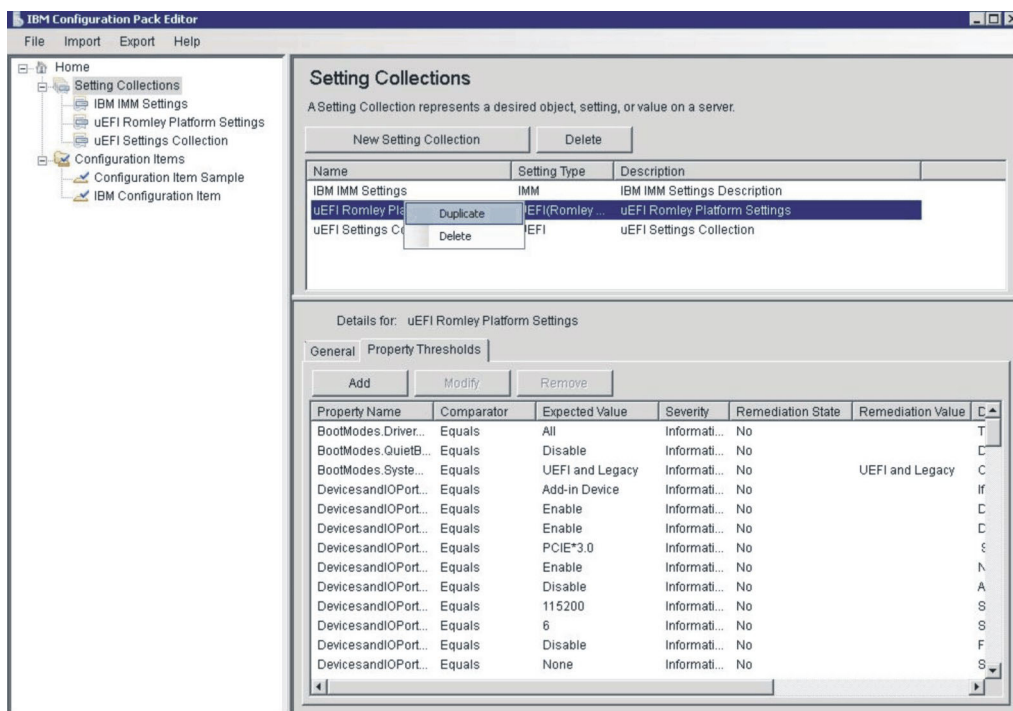


Figure 19. Duplicate function

The Duplication Dialog appears.

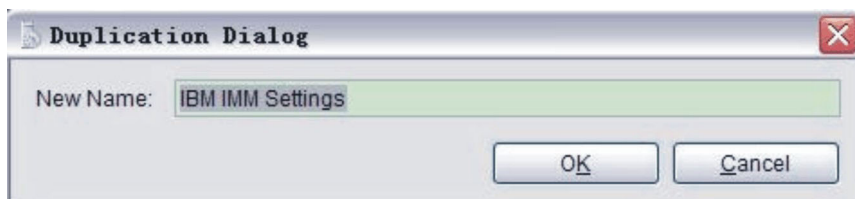


Figure 20. Duplication Dialog window

Type a name for the duplicate setting collection in the **New Name** field.

Note: The name of the duplicate Setting Collection can be the same name as an existing Setting Collection; however, it is recommended that you use a different name for the duplicate Setting Collection. Also, if you duplicate a Setting Collection that is used in other configuration items, the new duplicate Setting Collection that is created will not be referred to by these configuration items.

Configuration Items list pane

In the Configuration Items pane, you can create and view configuration items, such as by using the following options:

- Create Configuration Item
- View Configuration Item

Creating a configuration item Procedure

1. Click **Create configuration item**. A wizard opens to guide you through creating a configuration item.

The screenshot shows a Windows-style dialog box titled "IBM Configuration Pack Editor - Create Configuration Item". The window has a standard title bar with a close button (red X). The main content area is titled "General Information" and includes the instruction: "Enter a name and (optional) description for your new configuration item and click 'Next' to continue." In the top right corner of the content area is the IBM logo and the text "Step 1/3". There are two input fields: "Name:" with a text box containing "IBM Configuration Item", and "Description:" with a larger text box containing "IBM Configuration Item" and "Include Setting Collections: IBM IMM Settings, uEFI Setting Collection for Web Site". At the bottom of the window are four buttons: "< Back", "Next >", "Finish", and "Cancel".

Figure 21. General Information window

2. Type a name and description for the configuration item.

Note: The **Name** field is required, but the **Description** field is optional.

3. Click **Next**. The IMM Information window opens.

IBM Configuration Pack Editor - Create Configuration Item

IMM Information

Enter the user ID and password, and specify the location of the asu.exe file on the endpoint. Click "Next" to continue.

Step 2/3

IMM Information

UserID

UserID

Password

Confirm Password

Specify the location of the asu.exe file on the endpoint

C:\IBM\ASU\Win32\asu.exe

< Back Next > Finish Cancel

Figure 22. IMM Information window

4. Enter a user ID and password for IMM on the target server.

Note: The user ID and password are not required if the default account is used on the target IMM. IBM Configuration Pack Editor does not check for accuracy of the user ID and password.

5. In the field labeled **Specify the location of the ASU.exe file on endpoint**, enter an absolute path to the ASU.exe file on the target server. The collection's settings will use this path to invoke the ASU.exe file to detect the settings. If you do not type the correct path, the setting attempts to detect the ASU.exe file as specified notification shown in the following figure.

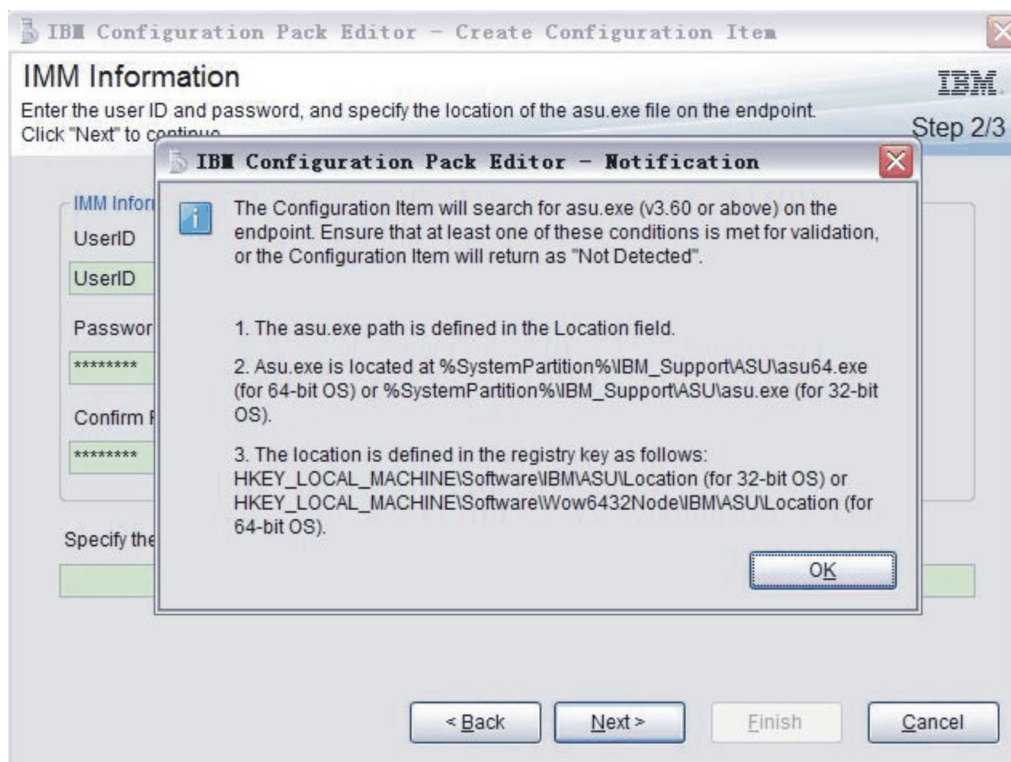


Figure 23. Asu.exe detection notification window

6. Click **Next**. The Configuration Items window opens.

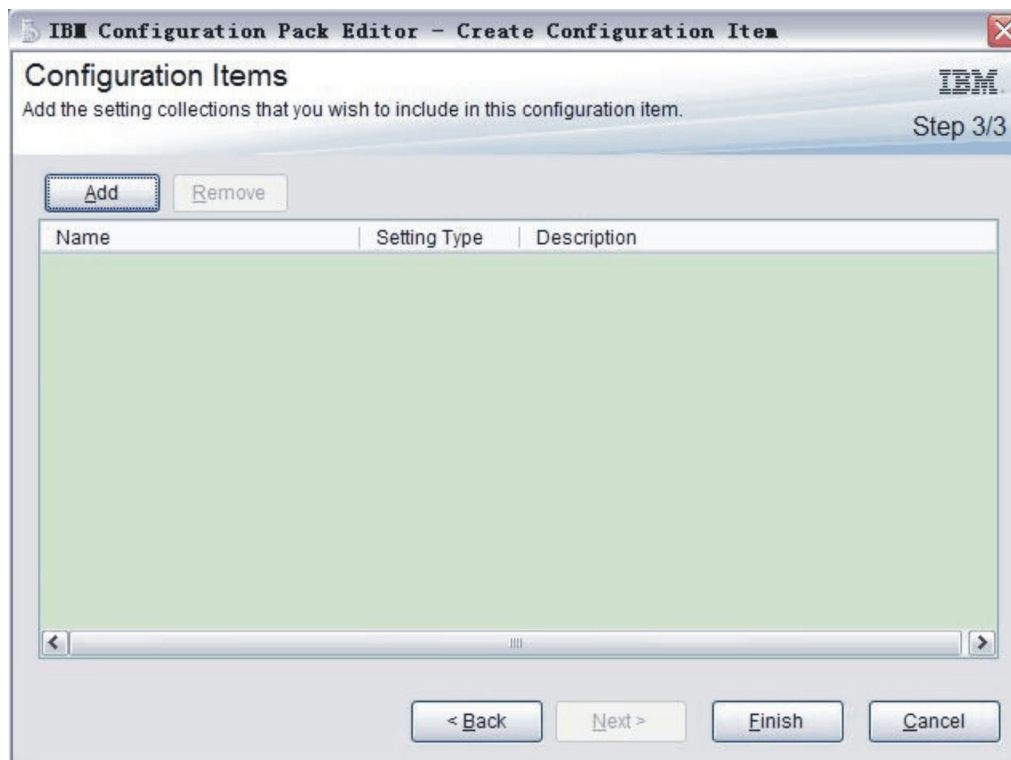


Figure 24. Add Setting Collections window

7. Use the **Add** button to add existing Setting Collections into the configuration item. The Add Setting Collections window opens.

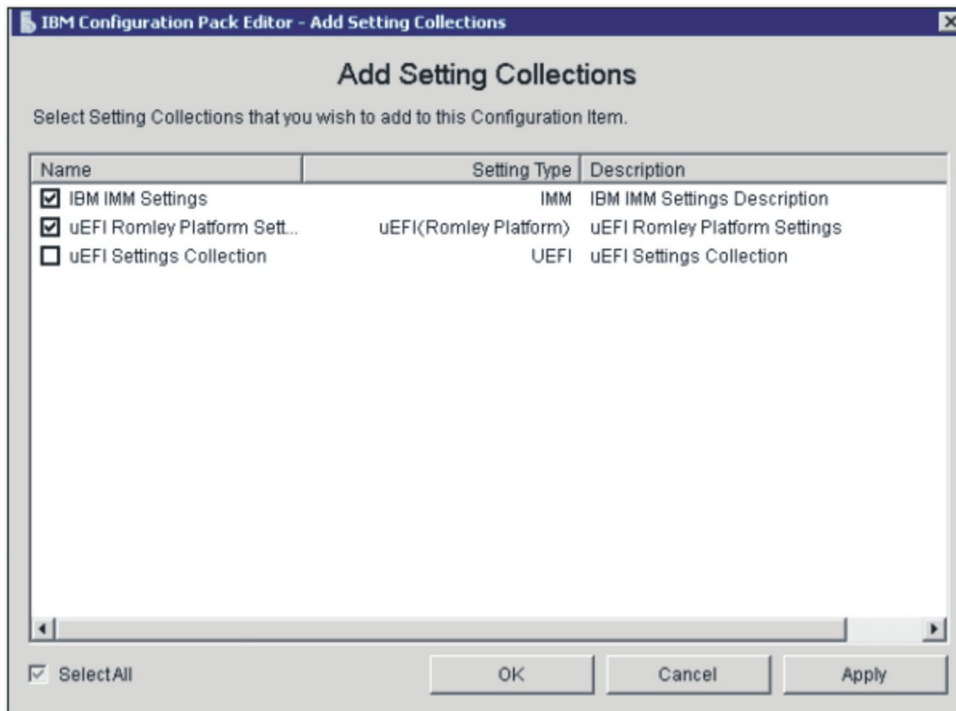


Figure 25. Setting Collections selection window

8. Select the check boxes that correspond to the Setting Collections you want to add to the configuration item, and click **OK**.

Note: One Setting Collection can be used in more than one configuration item.

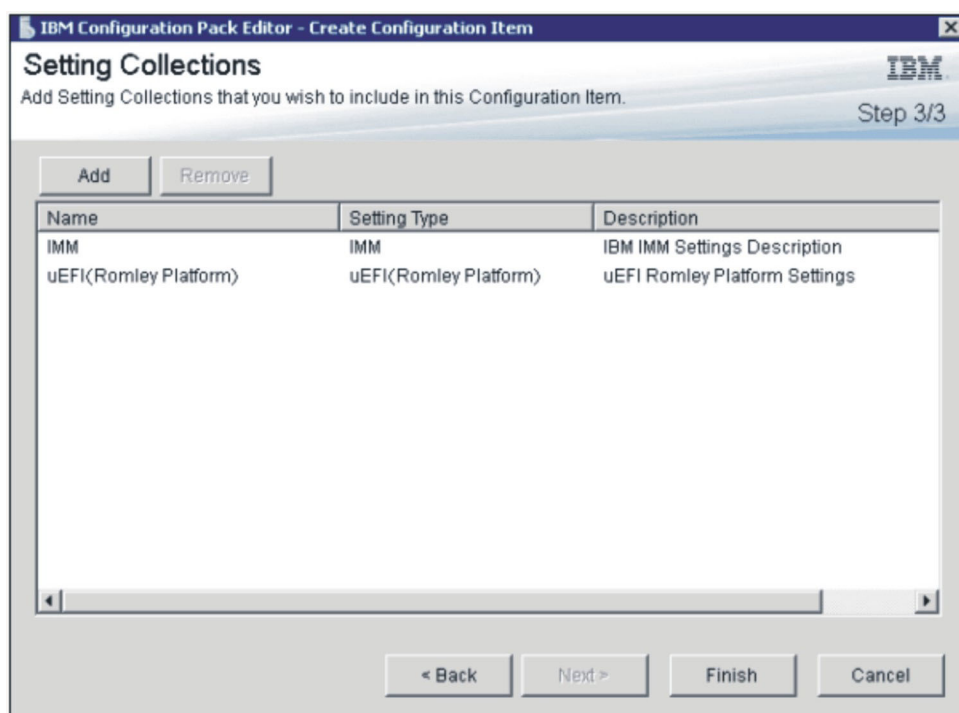


Figure 26. Add Setting Collections window with list items

9. To remove Setting Collections from a configuration item, select one or more Setting Collections in the list, and click **Remove**.

Note: Clicking **Remove** deletes the selected Setting Collections from the current configuration item, but it will not delete Setting Collections from this list.

10. Click **Finish**.

Viewing a configuration item Procedure

1. Click **View configuration item**. The Configuration Items window opens.

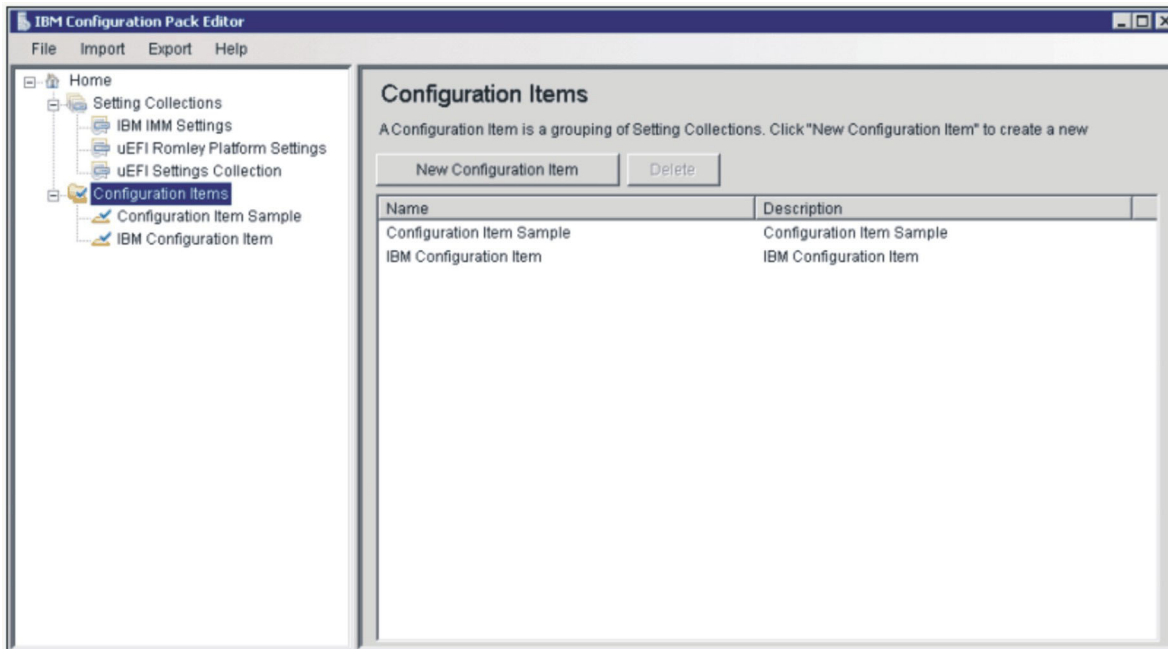


Figure 27. Configuration Items window

2. To create a new configuration item, either right-click the Setting Collections tree item or click **New Configuration Item**.

Select a configuration item to view its properties or edit it.

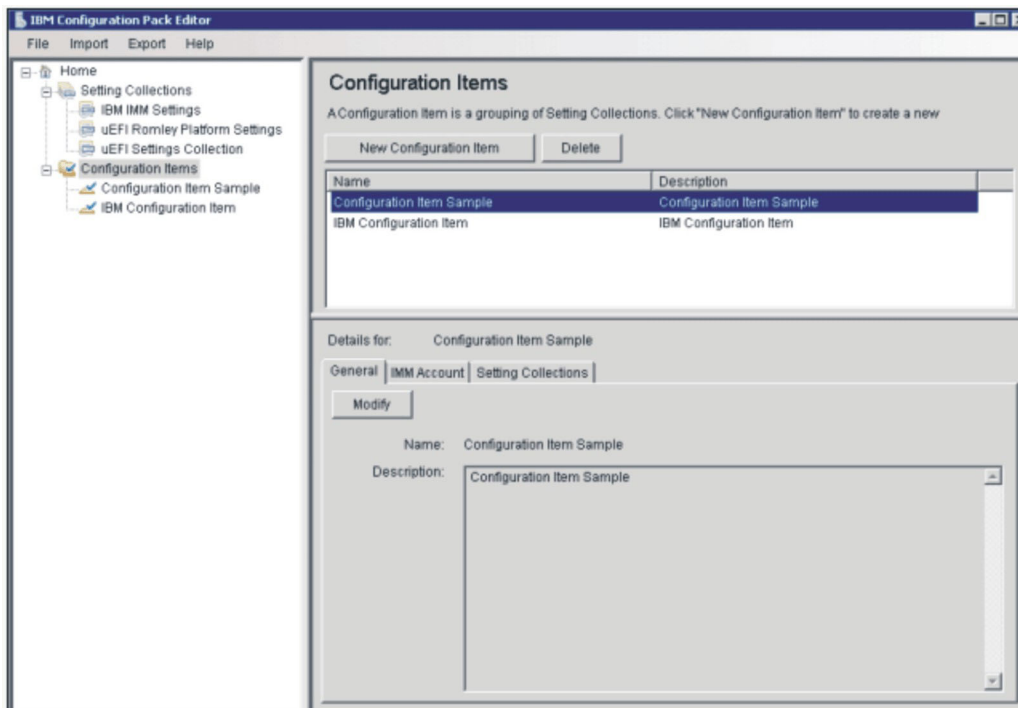


Figure 28. configuration item properties

Editing a configuration item Procedure

1. Click **Modify** on the **General** tab. The General Information window opens.

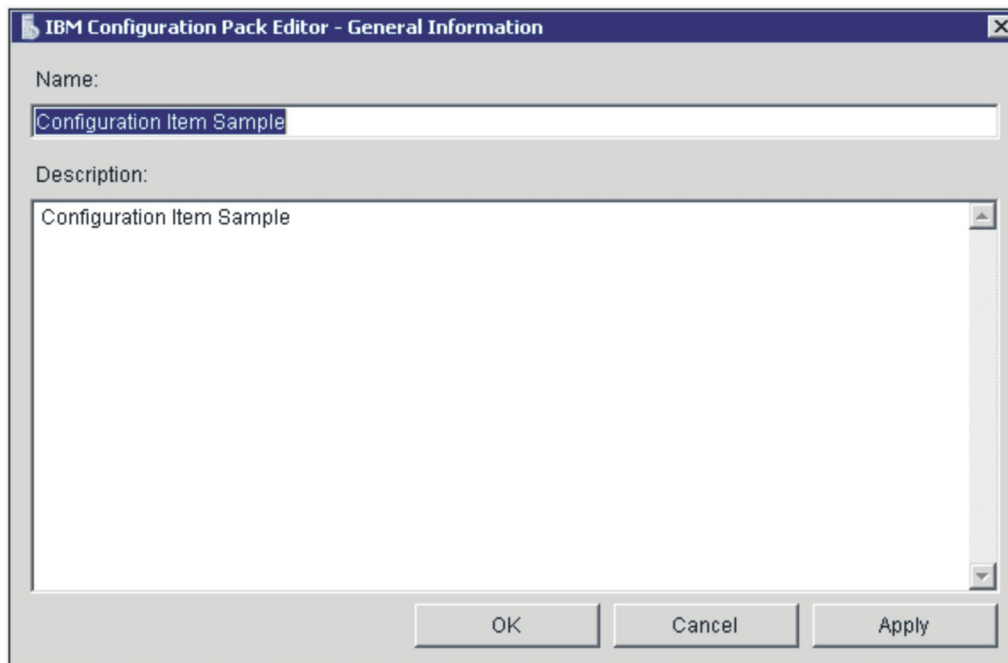


Figure 29. Configuration Pack Editor - General Information window

2. Edit the **Name** and **Description** fields for this configuration item.
3. Click the IMM Account tab. A window showing the Configuration Items pane displays.

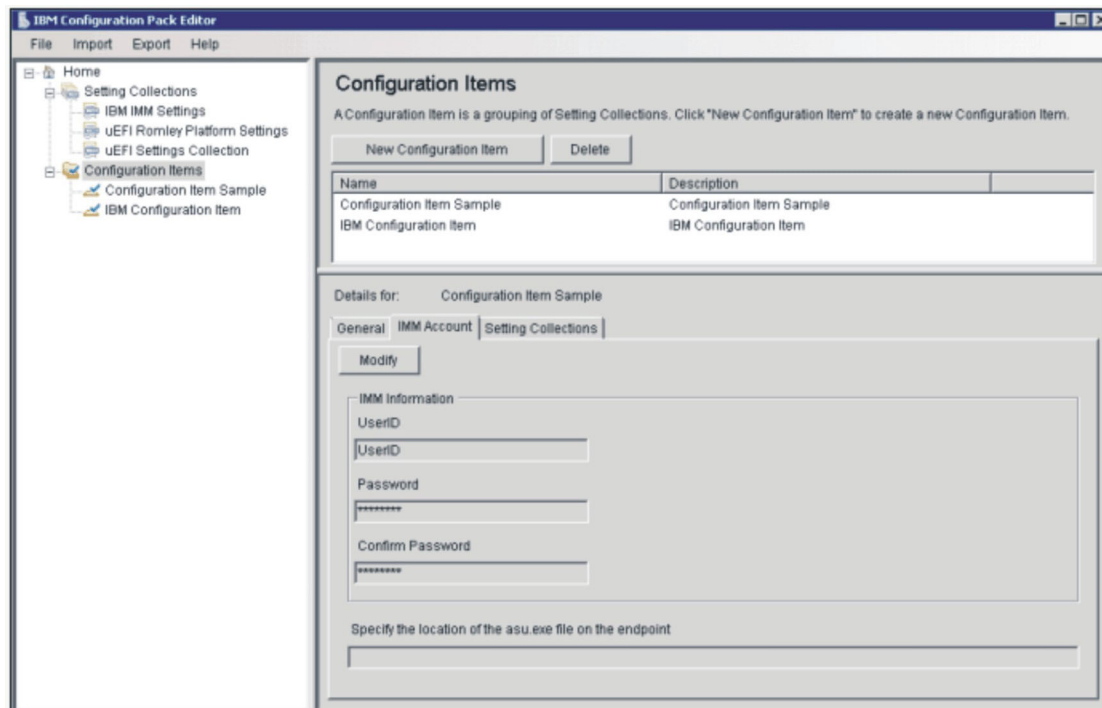


Figure 30. IMM Account tab

- Click **Modify** to enter a user ID and password for IMM on the target server.

Note: IBM Configuration Pack Editor does not check the accuracy of the user ID and password. It is recommended that you use the default account to eliminate any errors.

- In the field labeled **Specify the location of the ASU.exe file on endpoint**, enter an absolute path to the ASU.exe file on the target server. The collection's settings will use this path to invoke the ASU.exe file to detect the settings. If you do not type the correct path, the setting attempts to detect the ASU.exe file as specified in the window shown in the figure below.

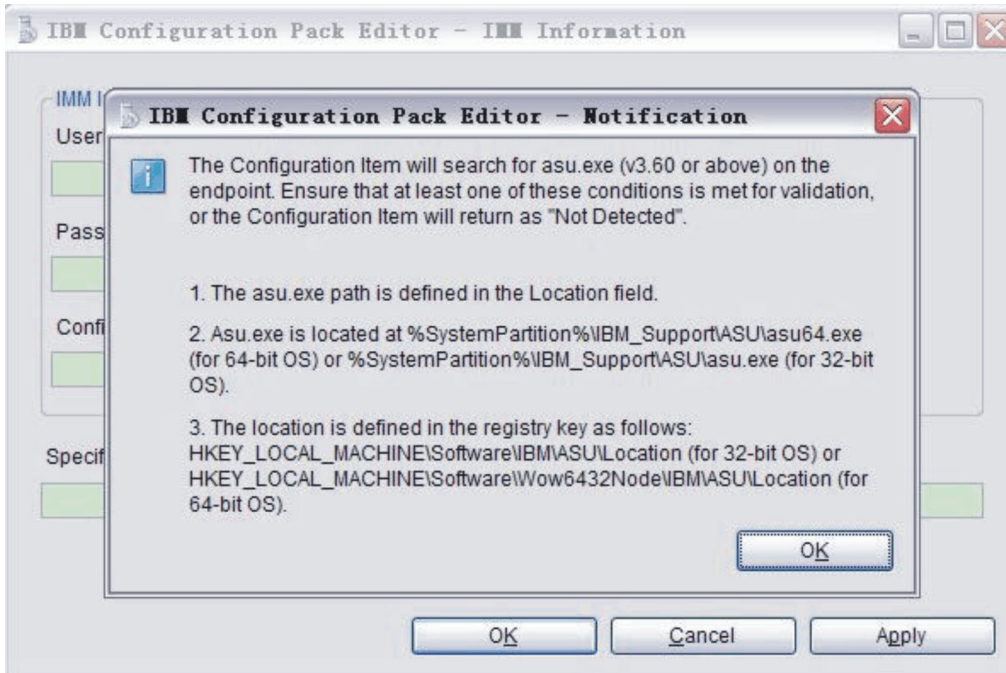


Figure 31. Asu.exe detection notification window

- Click the Setting Collections tab.

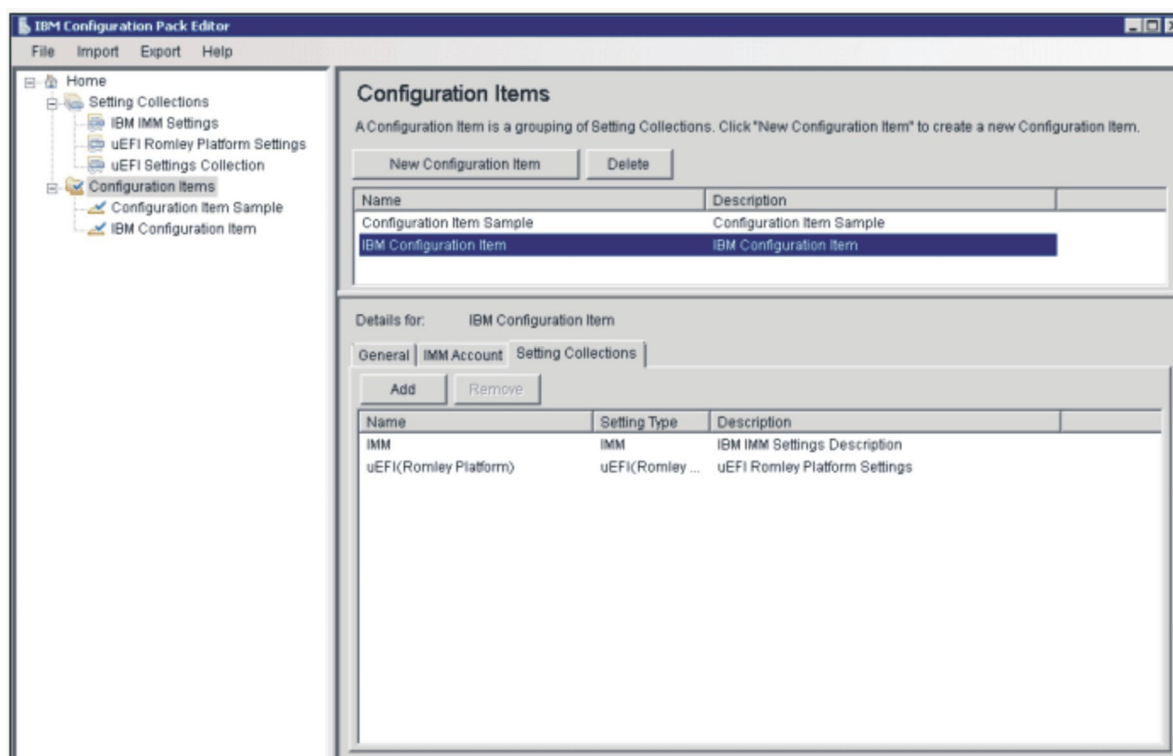


Figure 32. Setting Collections tab

- Click the **Add** button to add existing Setting Collections into the configuration item. The Add Setting Collections window opens.

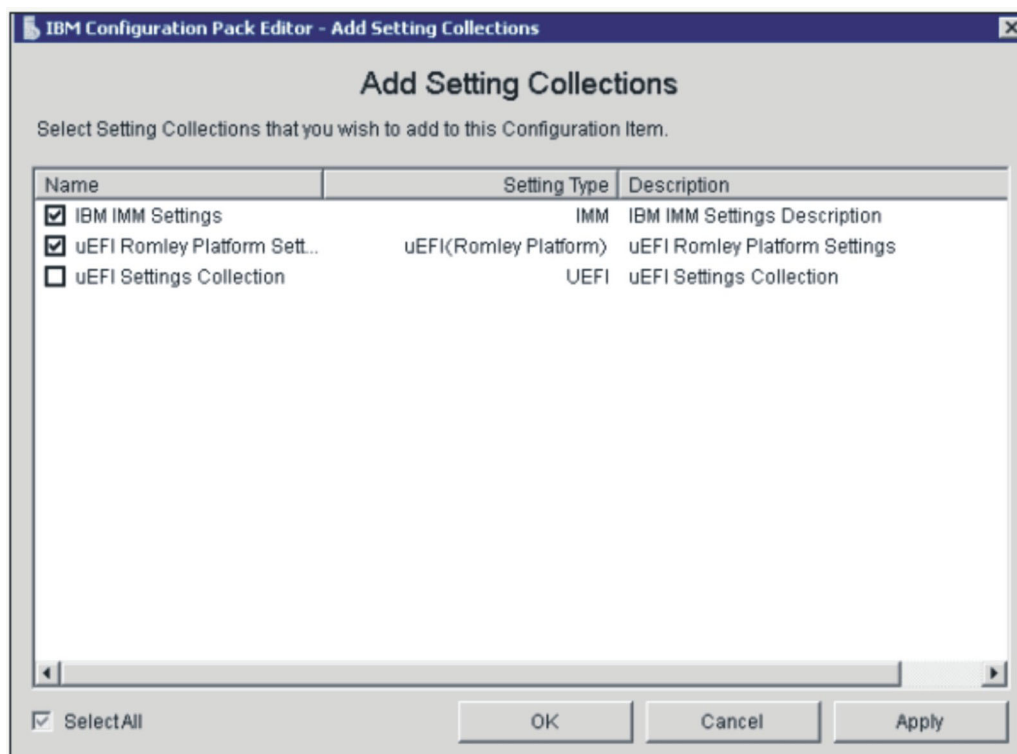


Figure 33. Add Setting Collections selection window

8. Select the check boxes that correspond to the Setting Collections you want to add to the configuration item, and click **OK**.

Note: One Setting Collection can be used in more than one configuration item.

9. To remove Setting Collections from a configuration item, select one or more Setting Collections in the list view, and click **Remove**.

Note: Clicking **Remove** will delete the selected Setting Collections from the current configuration item, but it will not delete the Setting Collections from other configuration items.

Duplicating a configuration item

About this task

To duplicate a configuration item, you can right click any configuration item in the configuration item list view or the configuration item tree view.

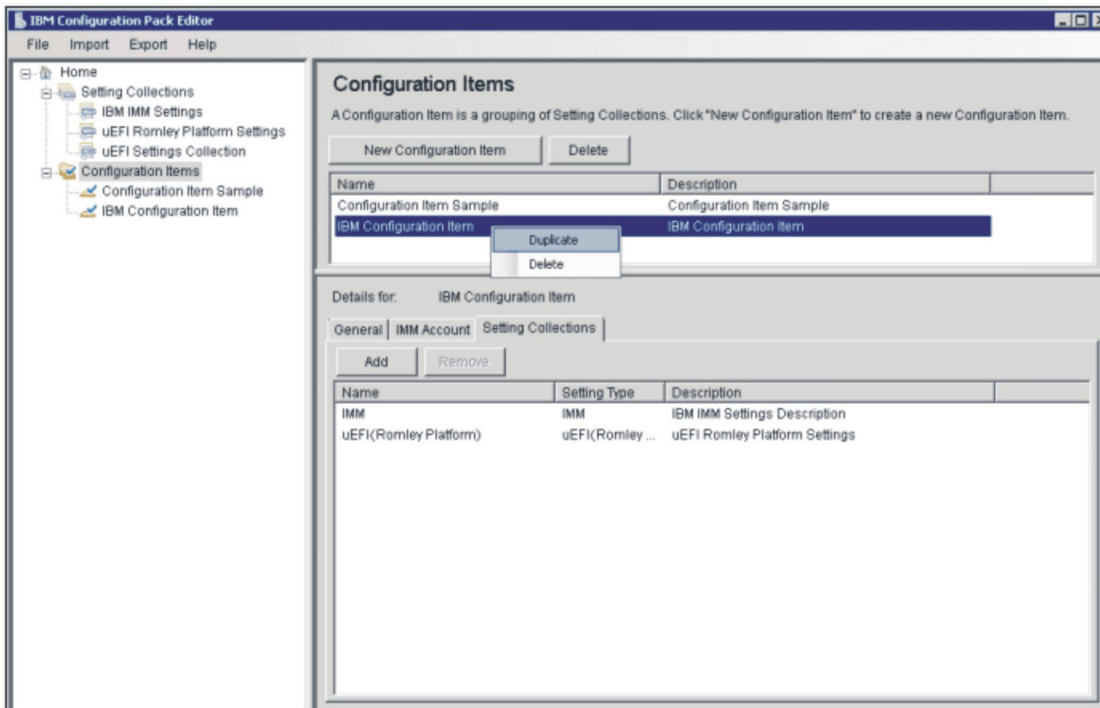


Figure 34. Duplicate configuration items function

The Duplication Dialog window opens.



Figure 35. Duplication Dialog window

Although the name of the duplicate configuration item can be the same as an existing configuration item, it is recommended that you use a different name.

Note: After you duplicate a configuration item, the new duplicate configuration item will refer to the same Setting Collection of the source configuration item.

Deleting a configuration item

About this task

To delete a configuration item, select it in the list view, and either click **Delete**, or right-click the selected configuration item and select **Delete**.

Note: The child Setting Collections of a deleted configuration item are not deleted.

Exporting configuration data to a configuration description file

About this task

To enable administrators to author and share configuration data, you can export **configuration items** and their children Setting Collections into a configuration description .xml file.

Procedure

1. From the Configuration Pack Editor, click **Export > To Configuration File**.

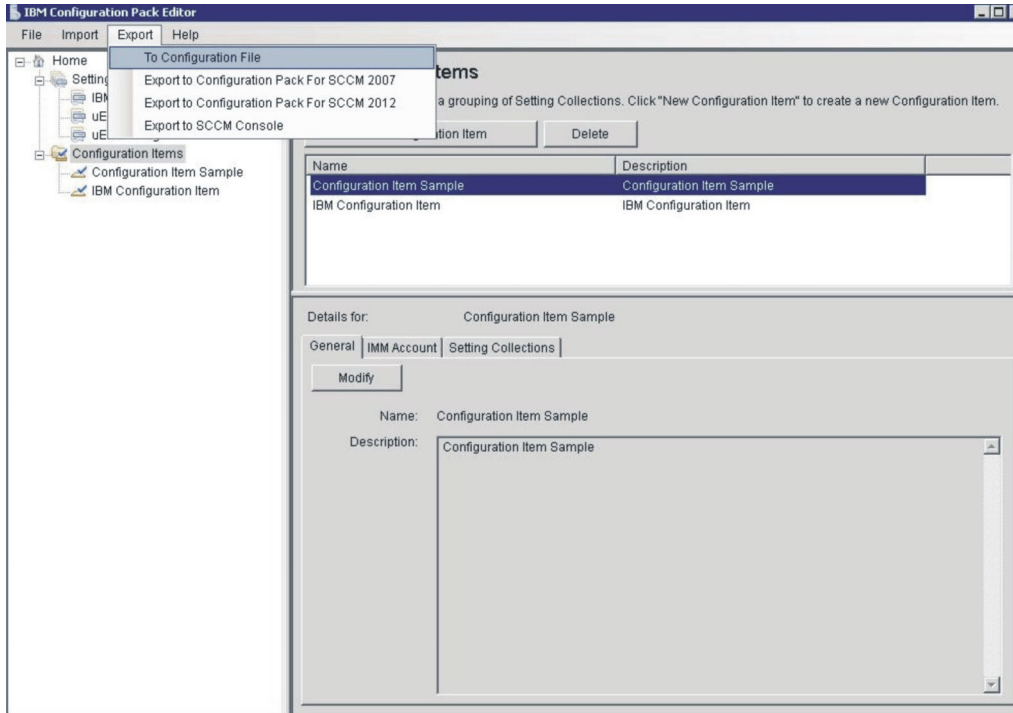


Figure 36. Exporting to configuration file

The Export to configuration description (.xml) window opens.

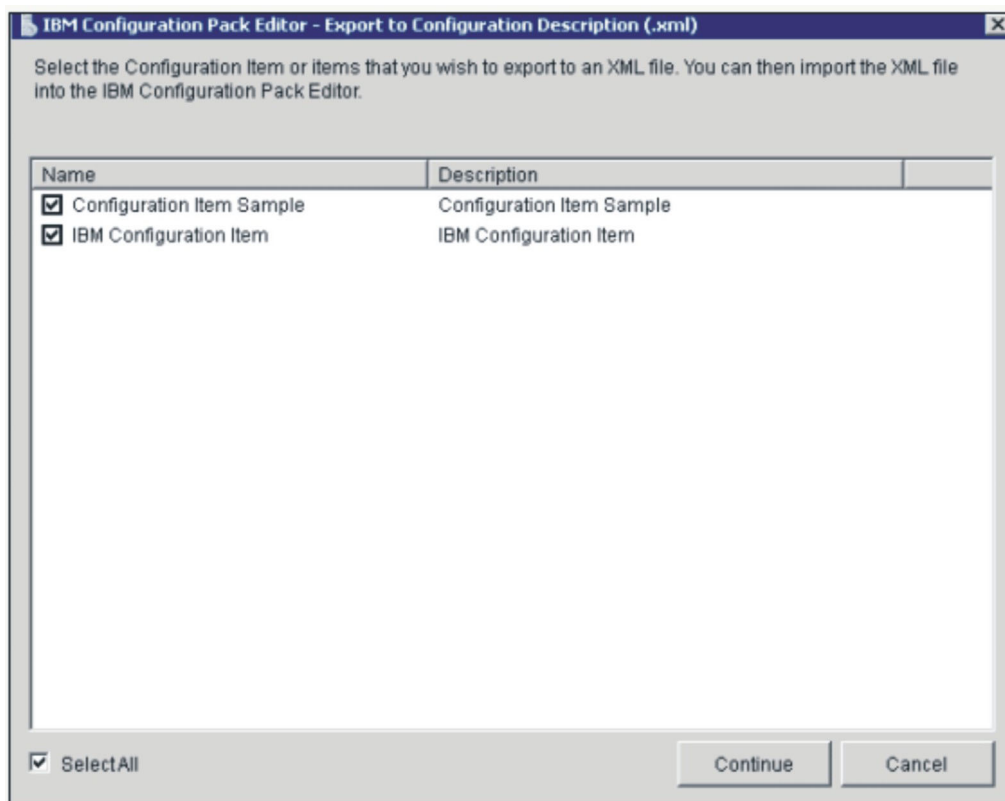


Figure 37. Export to configuration description (.xml) window

2. Select the check boxes that correspond to the configuration items that you want to export. The child Setting Collections of the selected configuration items will also be exported automatically.
3. Click **Continue**. The file navigation window opens.

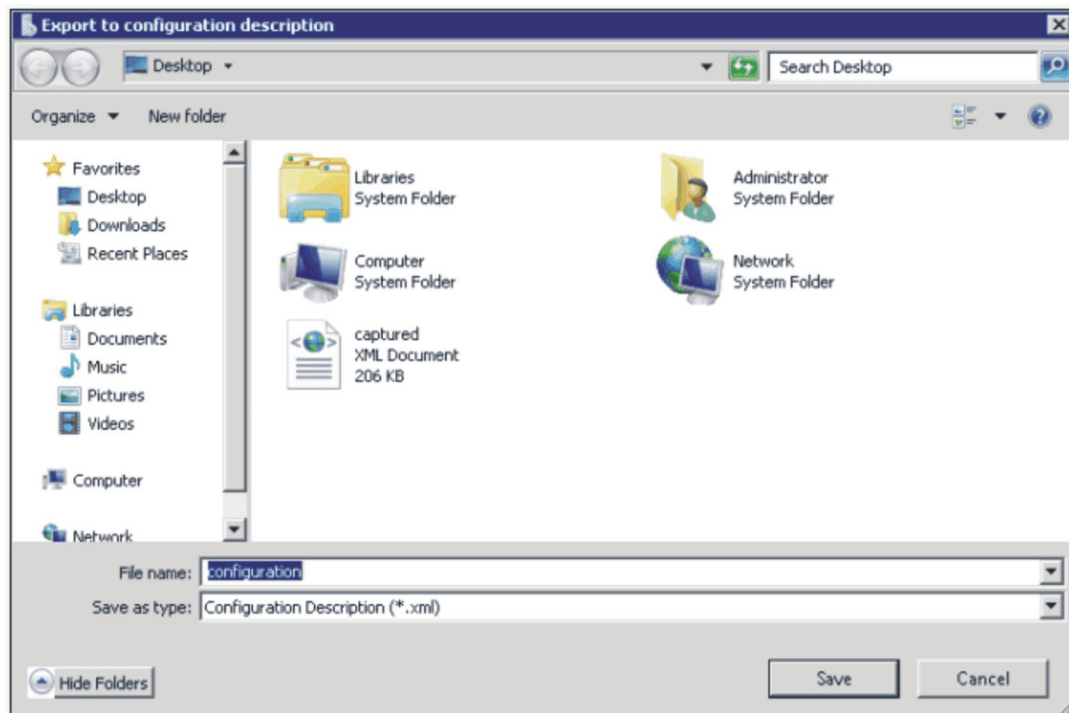


Figure 38. Export to configuration description file window

4. Enter a name for the configuration description .xml file, and click **OK**.
5. A window opens indicating the export was successful. Click **OK**.

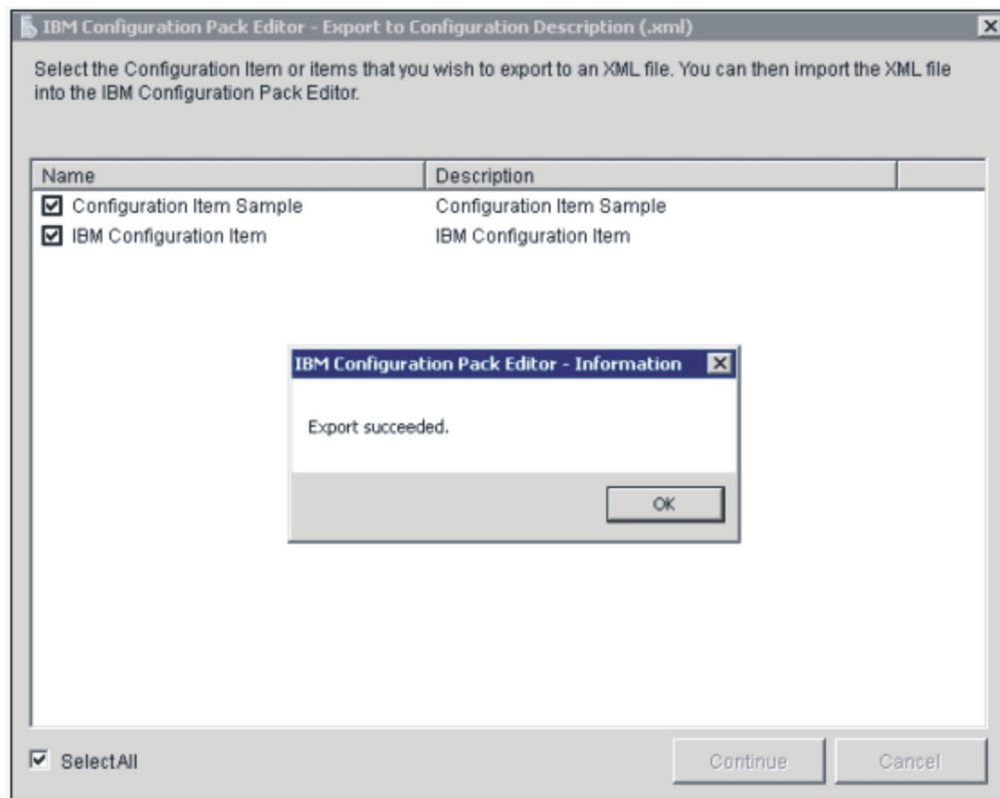


Figure 39. Export Succeeded window

Importing the configuration description .xml file

Procedure

1. From the Configuration Pack Editor, click **Import > Configuration File**.

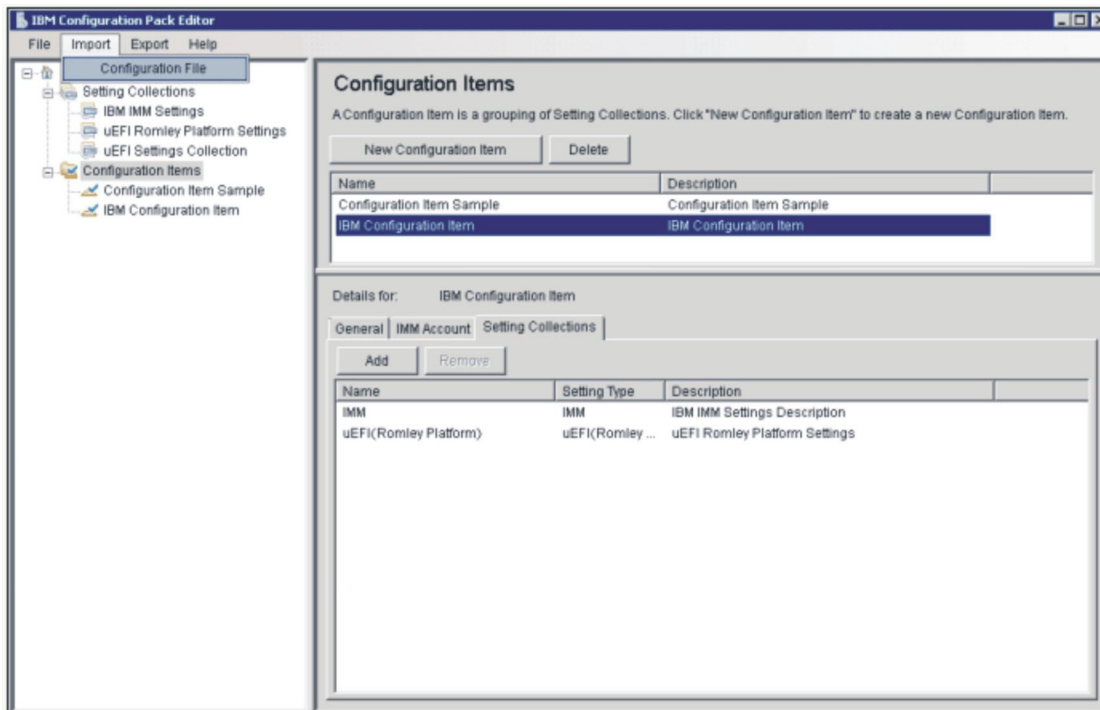


Figure 40. import Configuration File menu

The Import a Configuration XML file window opens.

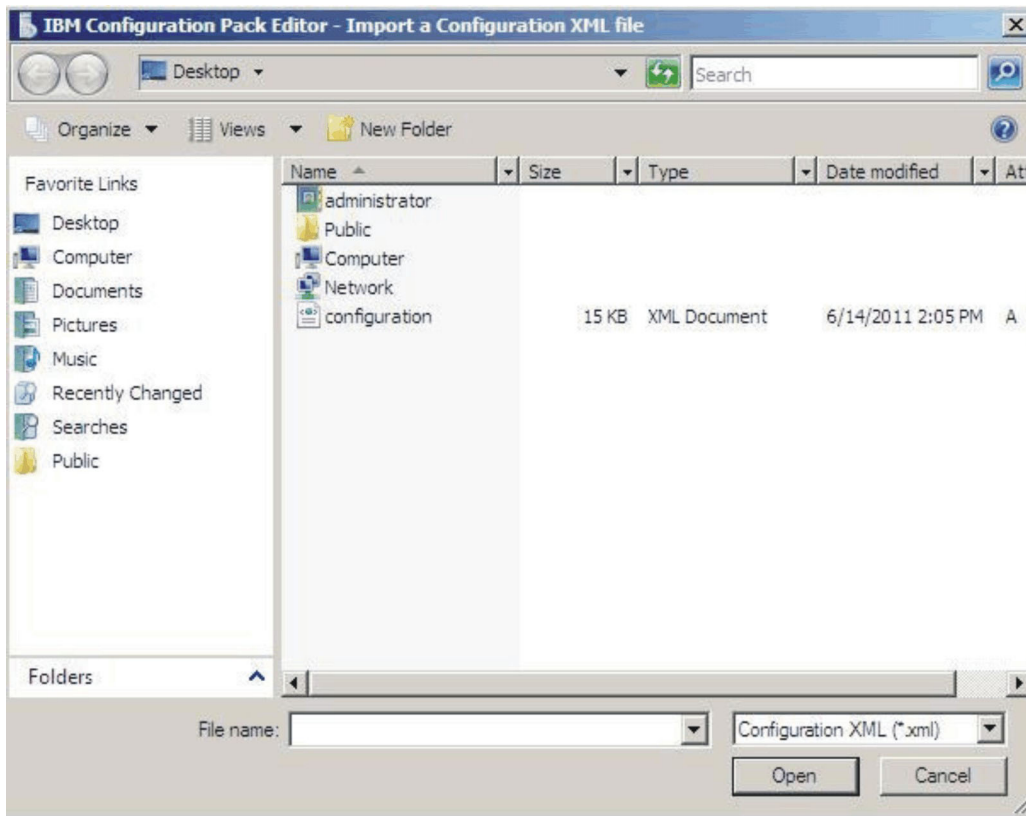


Figure 41. Import a Configuration XML file window

2. Select a configuration description .xml file to import, and click **OK**.

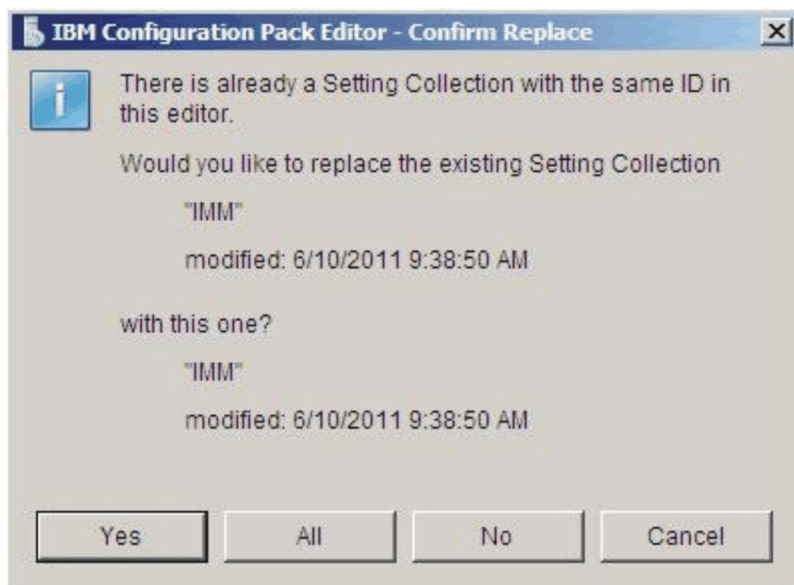


Figure 42. Confirm Replace Setting Collection window

In the IBM Configuration Pack Editor, every Setting Collection and configuration item has a unique identifier (ID). When the same ID has been used, even if the names are different, the Editor presents a window asking you to confirm that you want to replace the existing configuration data.

Note: If you import a Setting Collection that has the same ID as an existing Setting Collection in the configuration item, the imported Setting Collection will

replace the existing Setting Collection. The configuration item will refer to the imported Setting Collection regardless of whether its content is the same as the content of the previous Setting Collection.

Checking your license validation status

Procedure

1. From the Configuration Pack Editor, click **Help > License**.

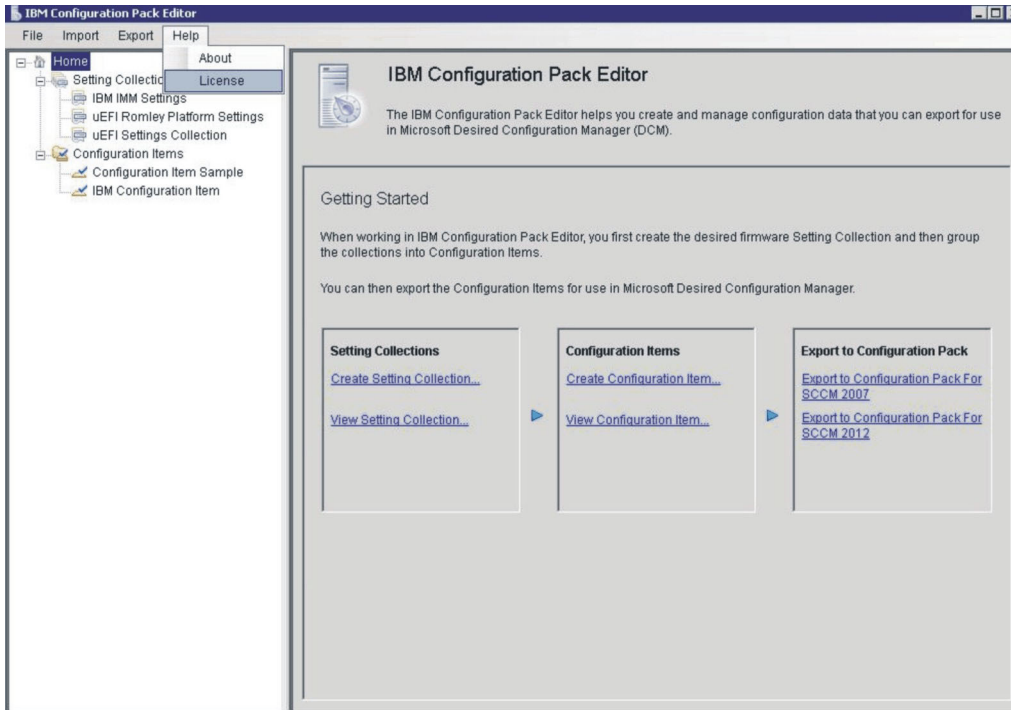


Figure 43. License menu options

2. The License Entitlement window opens. Review the information and click **OK** to exit the window when finished.

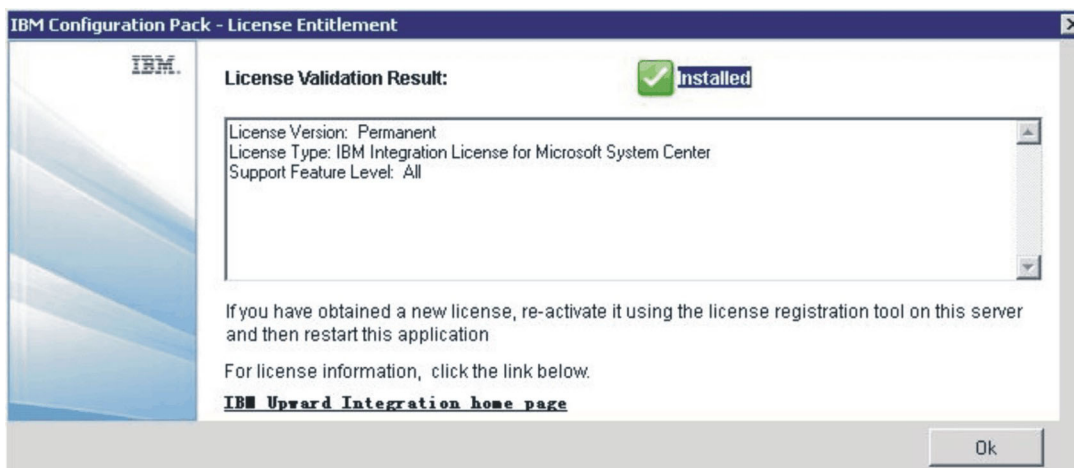


Figure 44. License Entitlement window

Exporting to IBM Configuration Pack for SCCM function

After exporting configuration items to an IBM Configuration Pack .cab file, the .cab file can be imported into SCCM server. The configuration items can also be imported into SCCM server, and can be deployed to SCCM clients to check IMM/UEFI settings.

The Export to IBM Configuration Pack Box is composed of the Export configuration item to IBM Configuration Pack Cab File link.

The Export configuration item to IBM Configuration Pack Cab File function can export multiple configuration items and their children Setting Collections to a .cab file. The .cab file is named IBM Configuration Pack and can be imported into the SCCM Server.

Exporting configuration items to the IBM Configuration Pack .cab file

Procedure

1. From the IBM Configuration Pack Editor window, click **Export Configuration item to Configuration for SCCM 2007/2012**. The Export to IBM Configuration Pack (.cab) window opens.

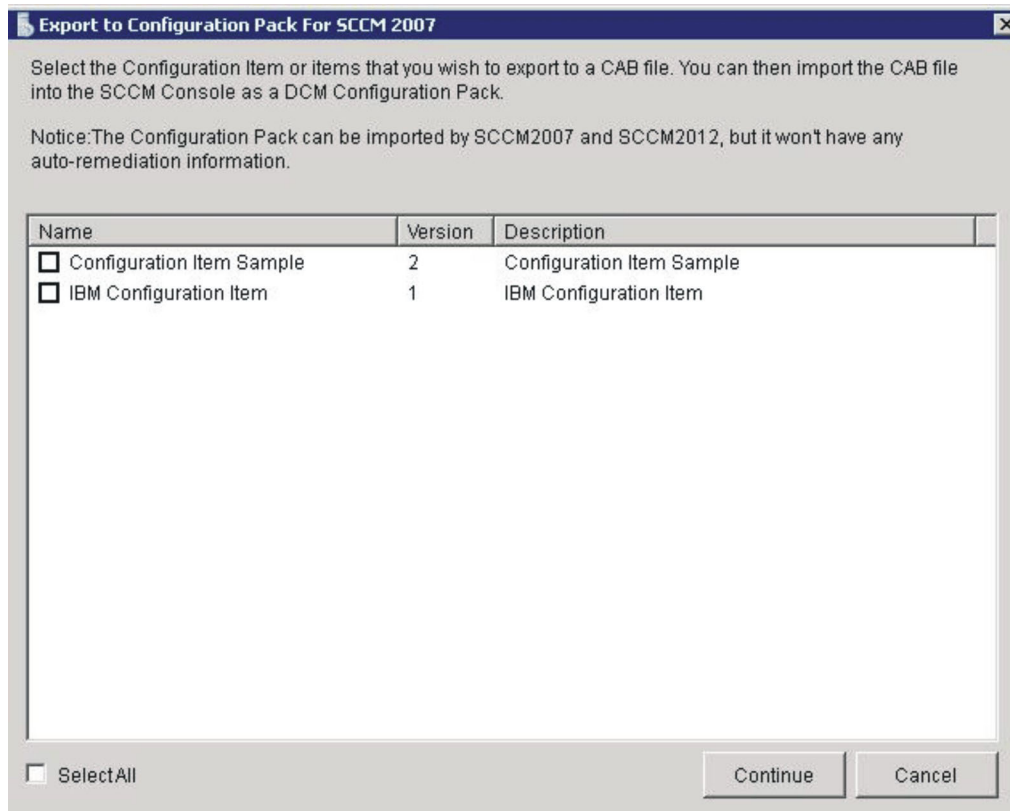


Figure 45. Export to IBM Configuration Pack for SCCM 2007 window

2. Select the check boxes that correspond to the configuration item you want to export.

Note: The version of a configuration item is an internal variable that cannot be modified directly. SCCM DCM uses this version variable to evaluate whether a configuration item should be upgraded.

When you update configuration data in Configuration Manager, previous versions are overwritten so that clients will always evaluate using the latest version.

For more details about how to manage a configuration item version, refer to the following web page: <http://technet.microsoft.com/en-us/library/bb632925.aspx>

3. Click **Continue**. The Export to IBM Configuration Pack file window opens.

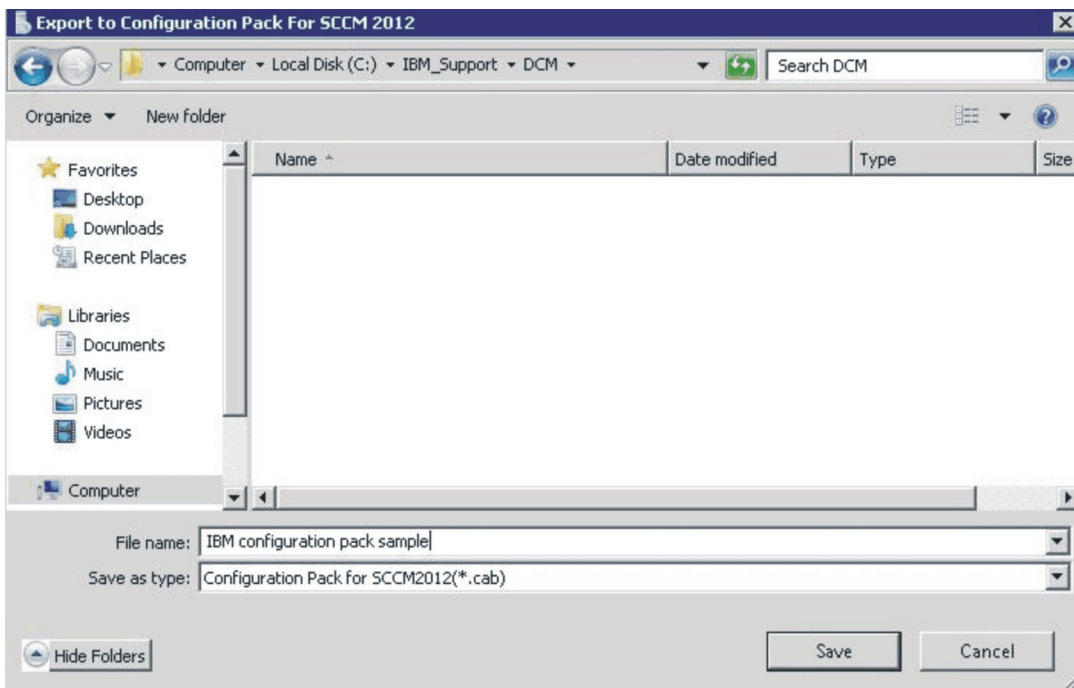


Figure 46. Export to IBM Configuration Pack window

4. Click **Save**. A window opens with a message indicating that the export succeeded.

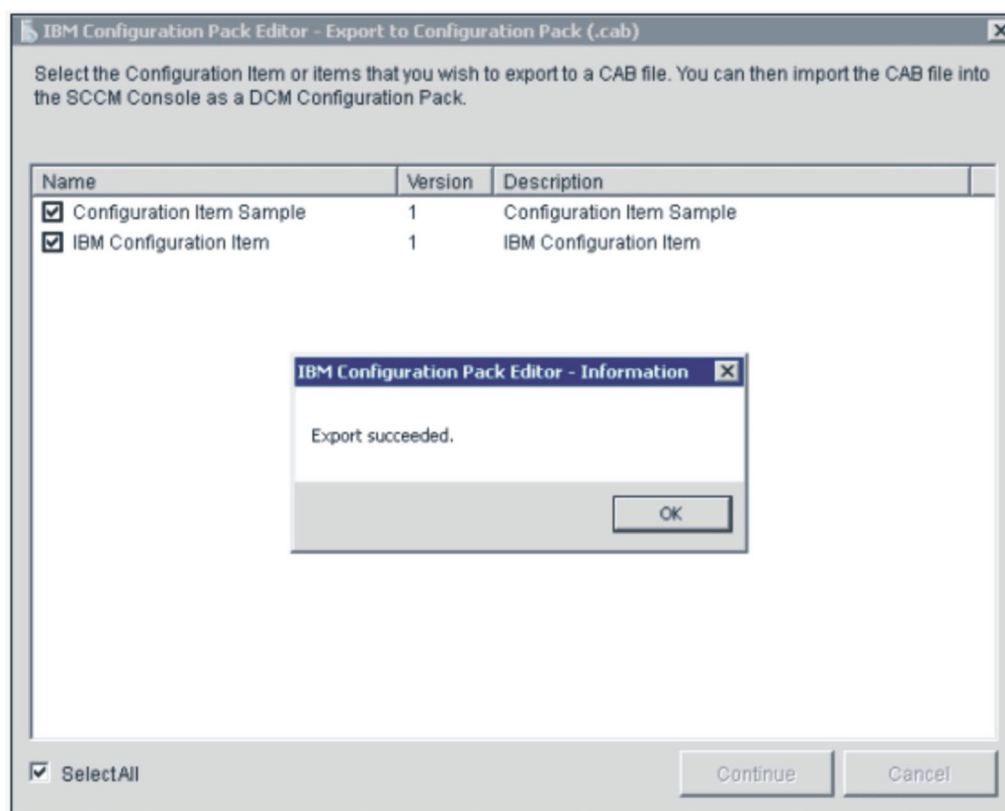


Figure 47. Export Succeeded window

5. Enter a name for the .cab file, and click **OK**.

Exporting configuration items to the SCCM Console

Procedure

1. From the IBM Configuration Pack Editor, click **Export to SCCM Console**. The Select the Configuration Item window opens.

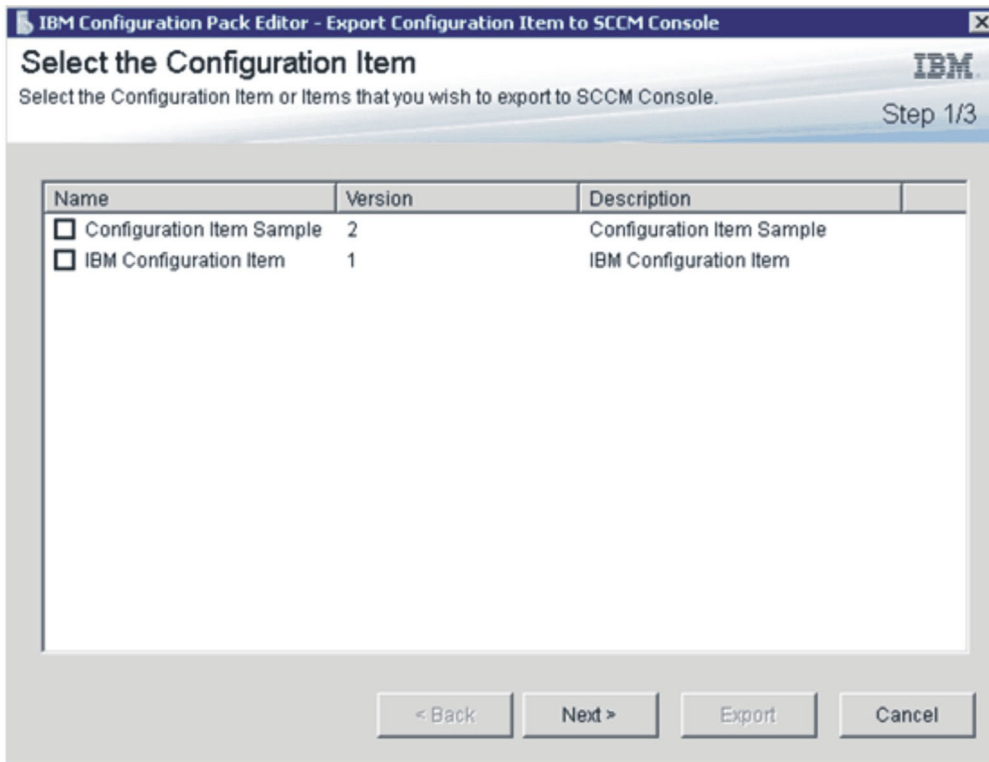


Figure 48. Select the Configuration Item window

2. Select the check boxes that correspond to the configuration item you want to export.
3. Click **Next**. The SCCM Console position information window opens.

☒ The SCCM Console is on the local machine
☐ The SCCM Console is on a remote machine

Machine Name:

User Name:

Password:

Figure 49. SCCM Console position information window

4. If the SCCM Console is on a remote machine, enter the machine name, user name and password.
5. Click **Next**. The Configuration Items Information window opens.

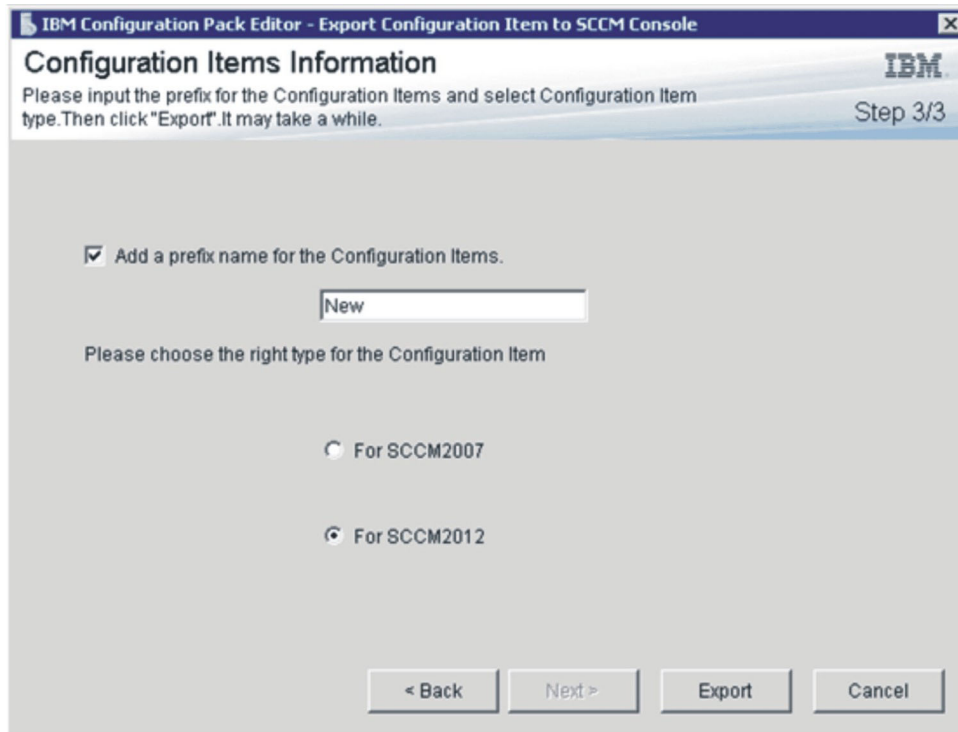


Figure 50. Configuration Items Information window

6. A prefix name can be added for the configuration items.
7. Select the corresponding SCCM Console type for the configuration items.
8. Click **Export**. A window opens indicating that the export succeeded.

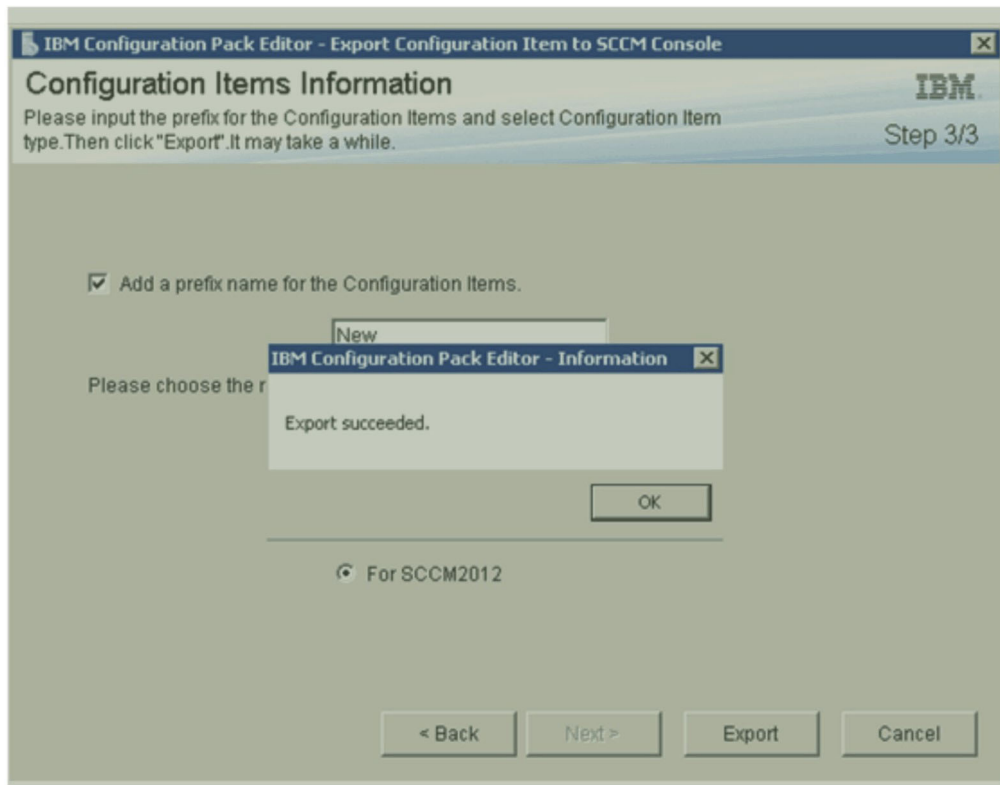


Figure 51. Export Succeeded window

Applying IBM Configuration Pack to SCCM 2007 Console

About this task

The information in this section shows how to import the IBM configuration data into the SCCM server.

Importing configuration data to DCM

Procedure

1. Open the SCCM Console and expand Desired Configuration Management. Right click Configuration Baselines or **configuration items**, and select **Import configuration data**.

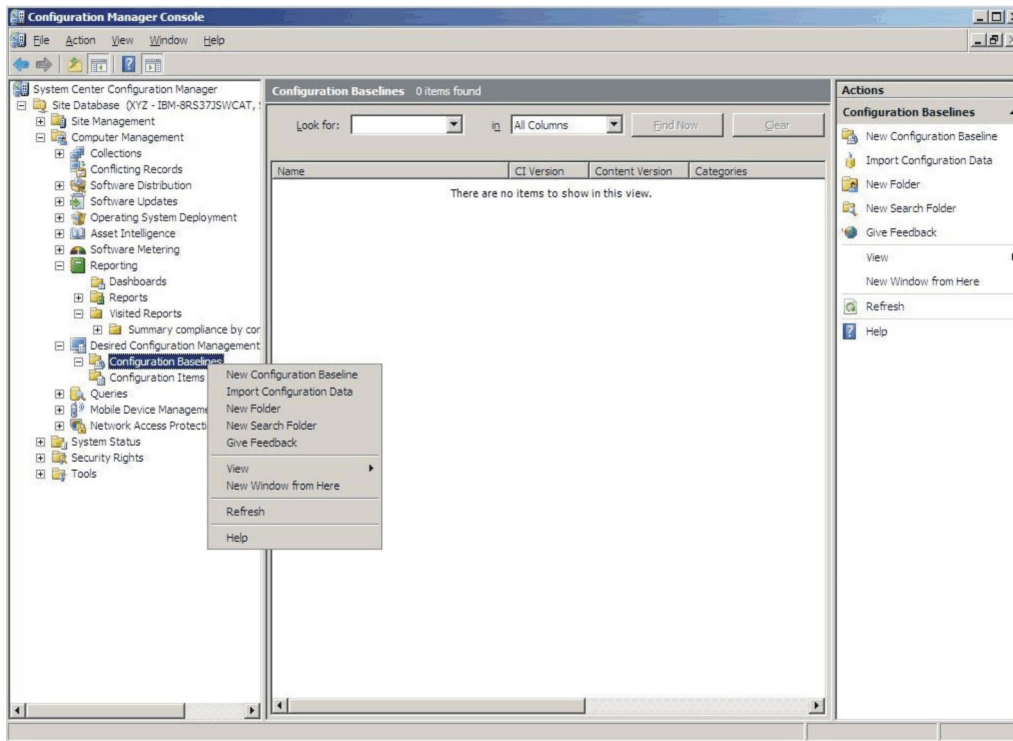


Figure 52. Import Configuration Window function

2. Click **Add** to select the exported IBM Configuration Pack .cab file.

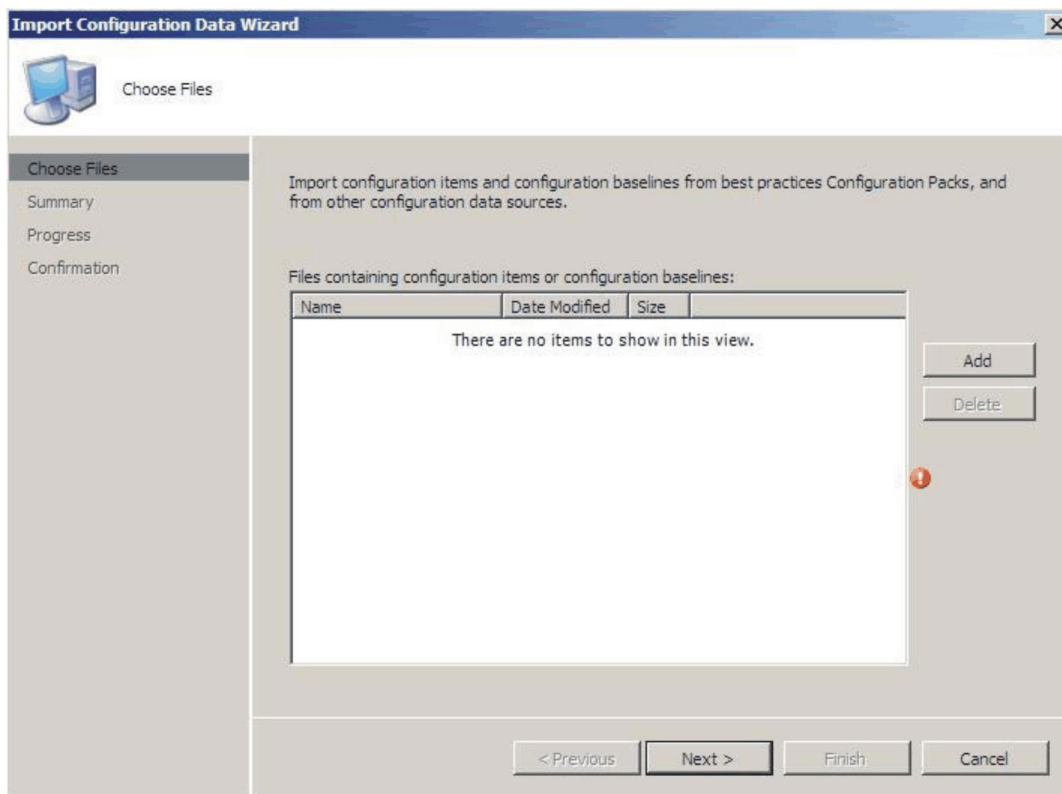


Figure 53. Add exported IBM Configuration Pack .cab file

3. Select the IBM Configuration Pack, and click **Open** to import it.

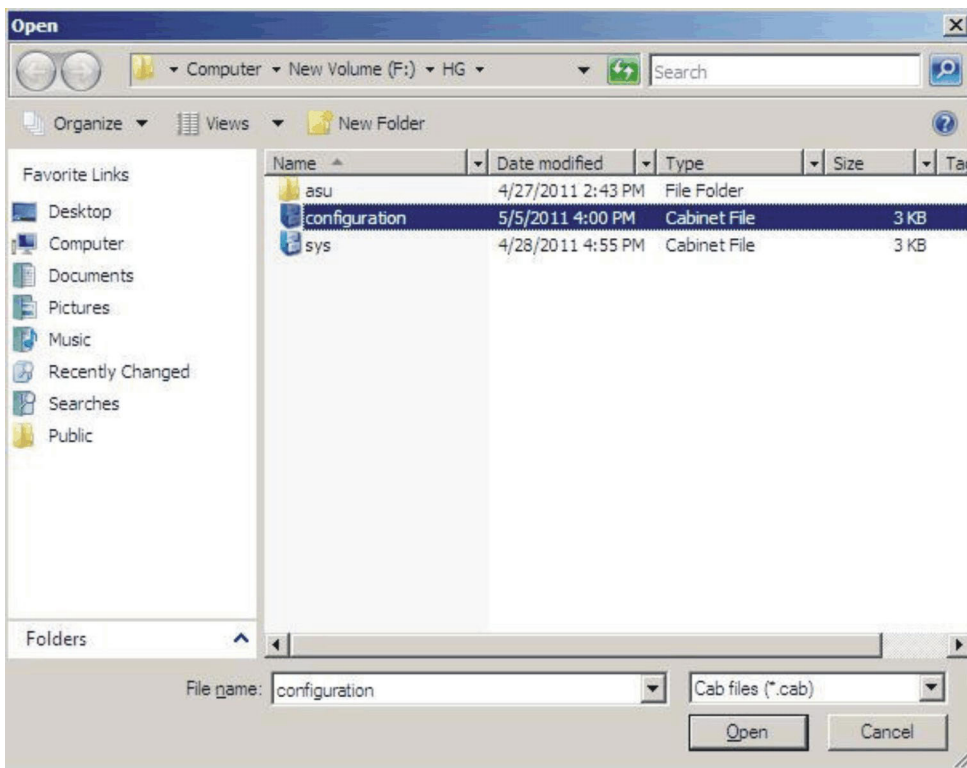


Figure 54. Selecting the exported .cab file

4. A **Skip Authenticode signature check?** window opens. Click **Yes** to skip the signature check.

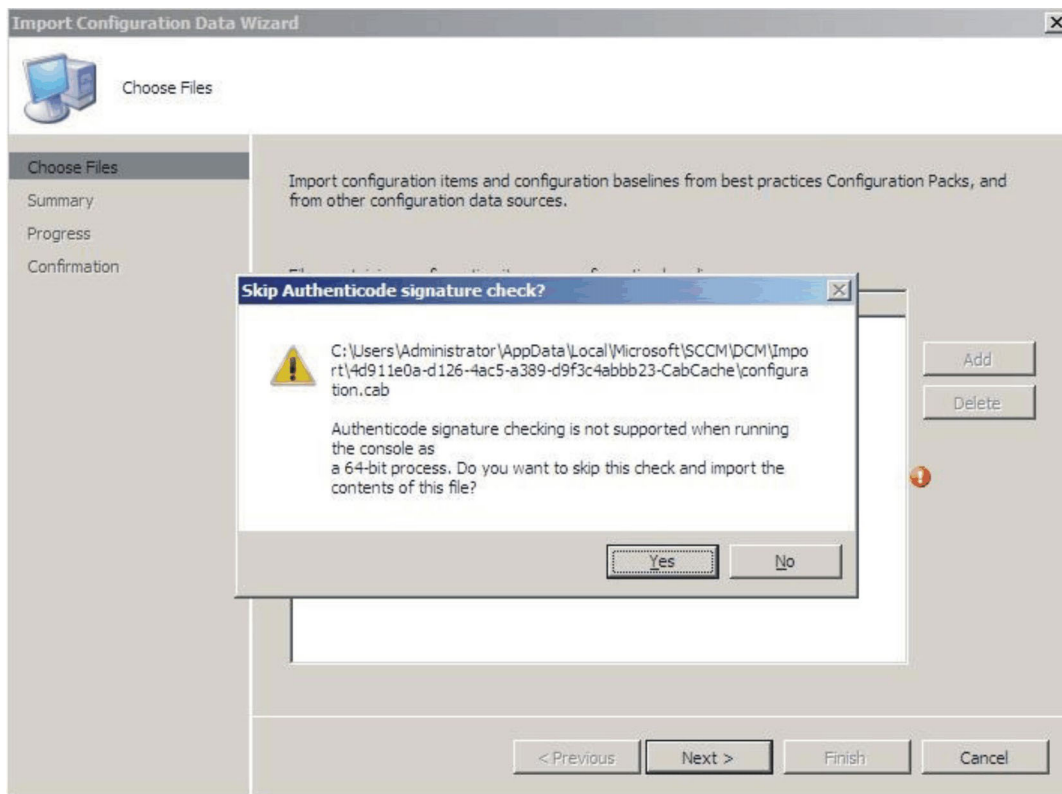


Figure 55. Skip Authenticode Signature Check window

5. Click **Next** to import the IBM Configuration Pack .cab file.

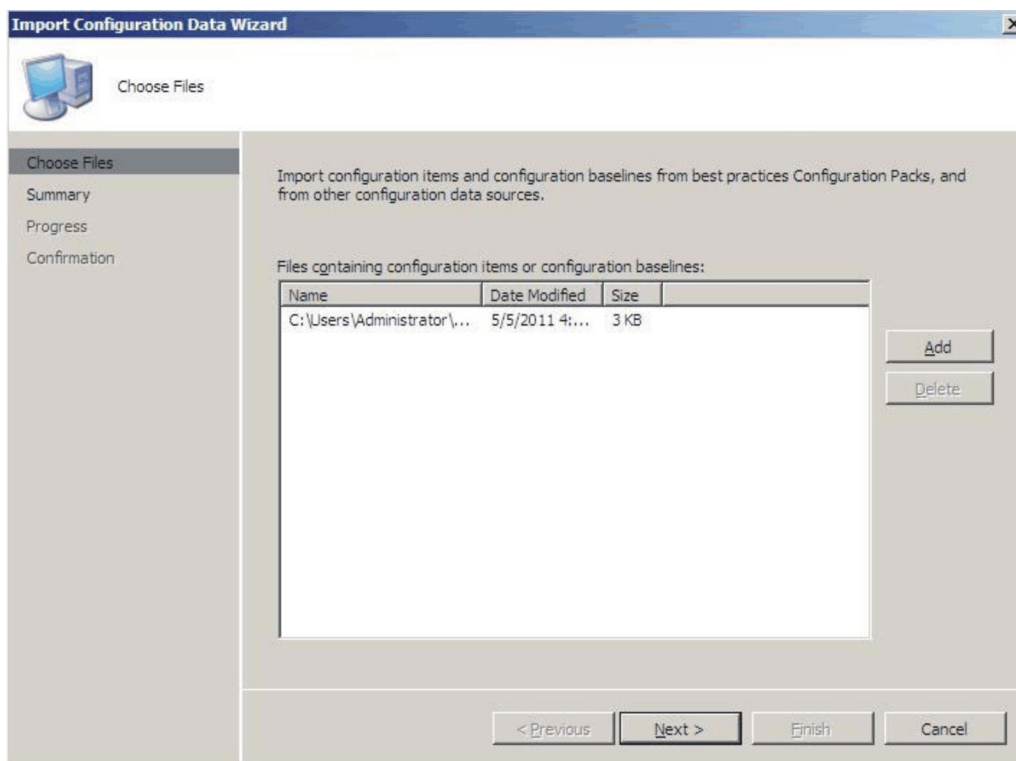


Figure 56. Importing the selected .cab file

6. Your configuration items are visible in the IBM Configuration Pack tree. Click **Next**.

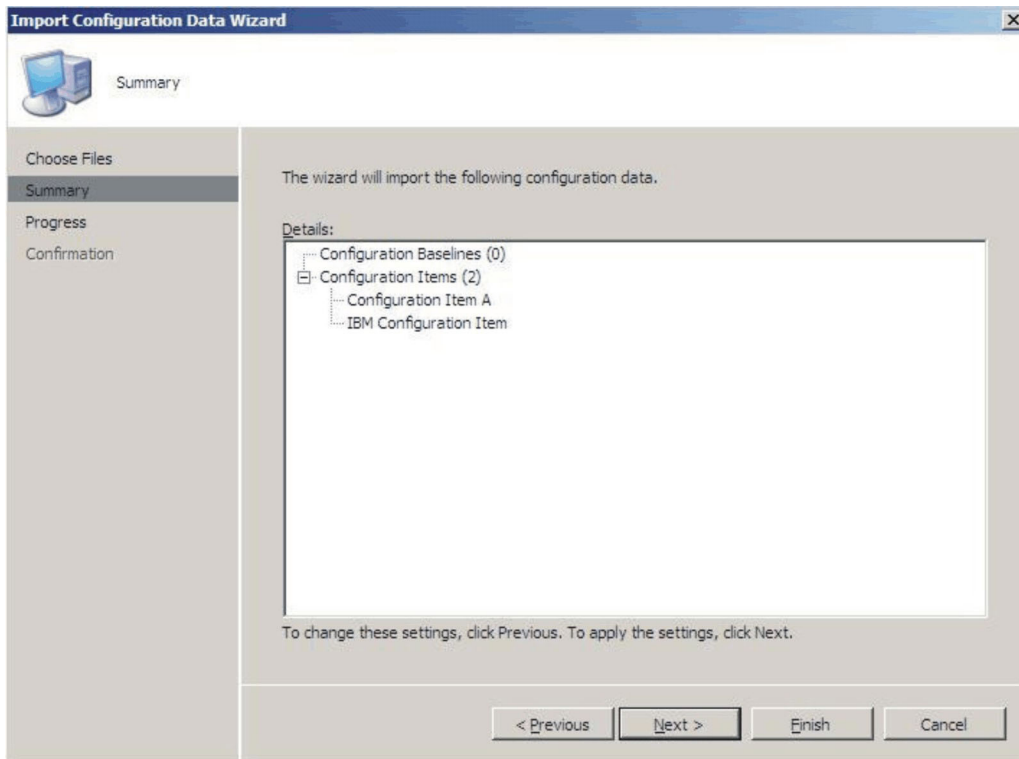


Figure 57. Imported configuration items

7. A message indicates that you have successfully imported configuration data. Click **Close** to exit the wizard.

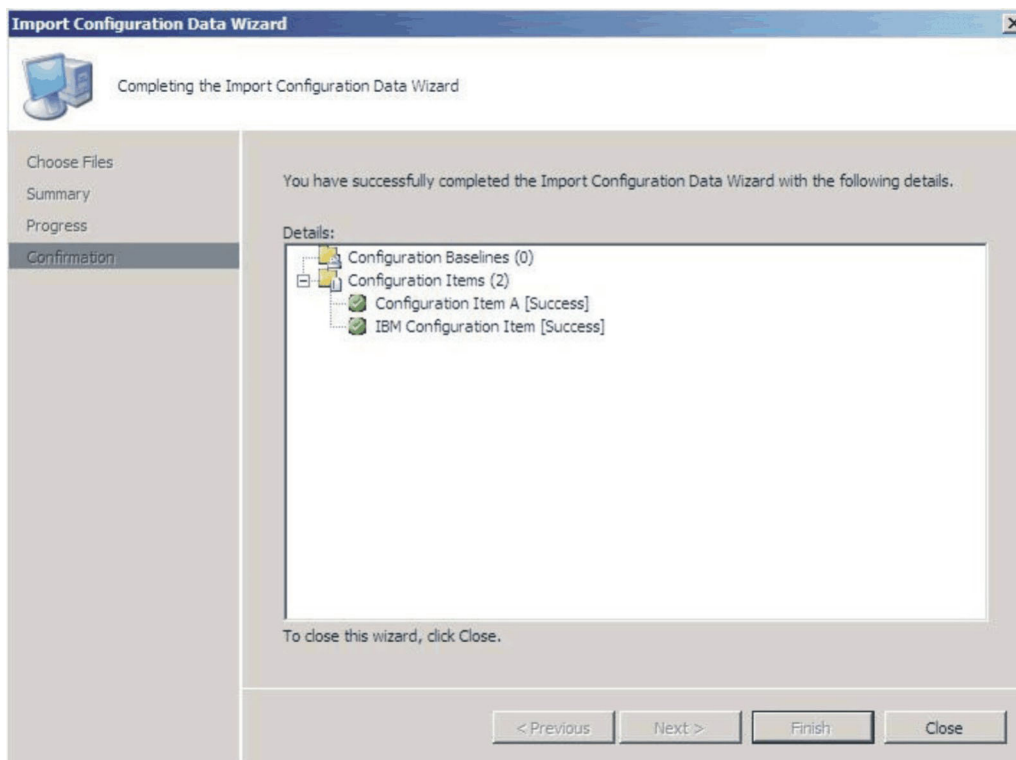


Figure 58. Successful completion window

8. Right click the **Configuration Items** node, and select **Refresh**. The imported configuration items are displayed in the window.

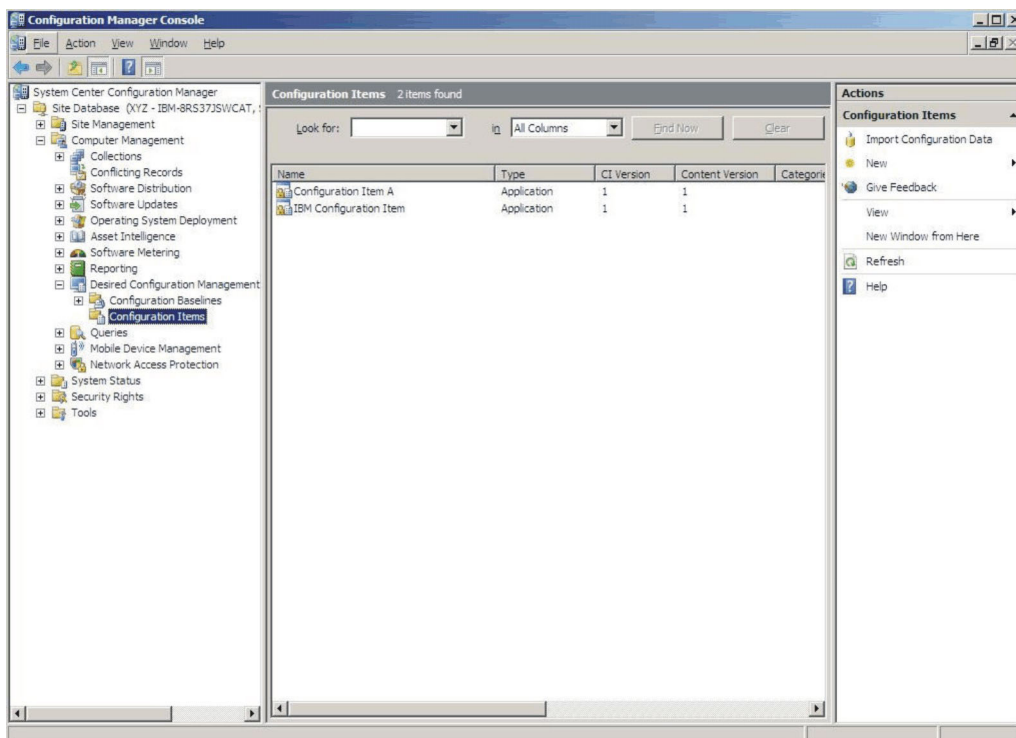


Figure 59. SCCM with imported configuration items

Note: The imported configuration items may have a “Lock” status. The Lock status is due to the following reasons:

- The configuration data is read-only.
- The configuration data were not authored by the SCCM console administrator.

Viewing configuration item properties

About this task

The information in this section shows how to view the imported IBM configuration data in SCCM server.

Procedure

1. To view the properties for a configuration item, double click it. On the **Settings** tab, the IBM Setting Collections are listed on this page.

You can select any one setting to see the setting to be validated. Double click a setting to view it or select one and click **Edit**.

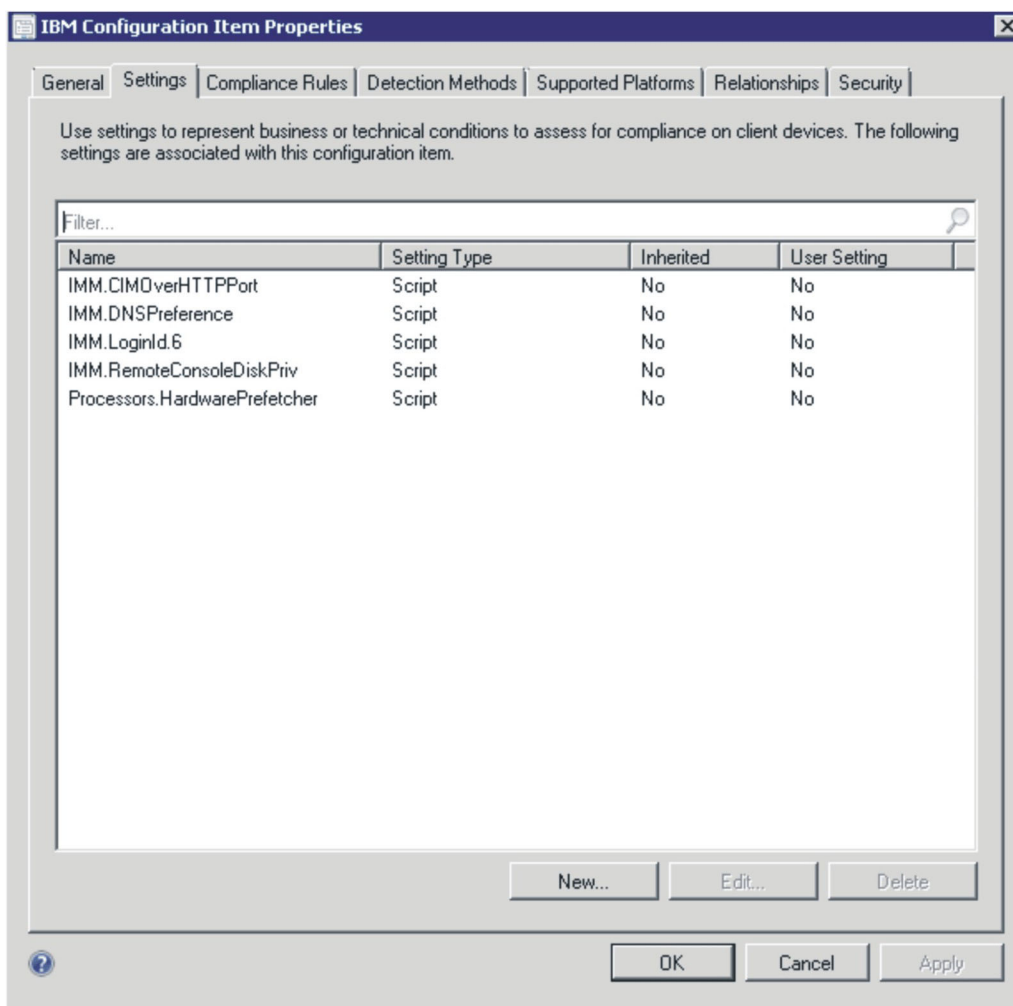


Figure 60. Settings tab

2. On the **Detection Method** tab, IBM Configuration Pack Editor defines the detection method for every configuration item. This detection method checks whether the ASU.exe file exists on the endpoint. If it does not, the configuration item returns a state of "Not Detected," and the children settings group ceases to be validated.

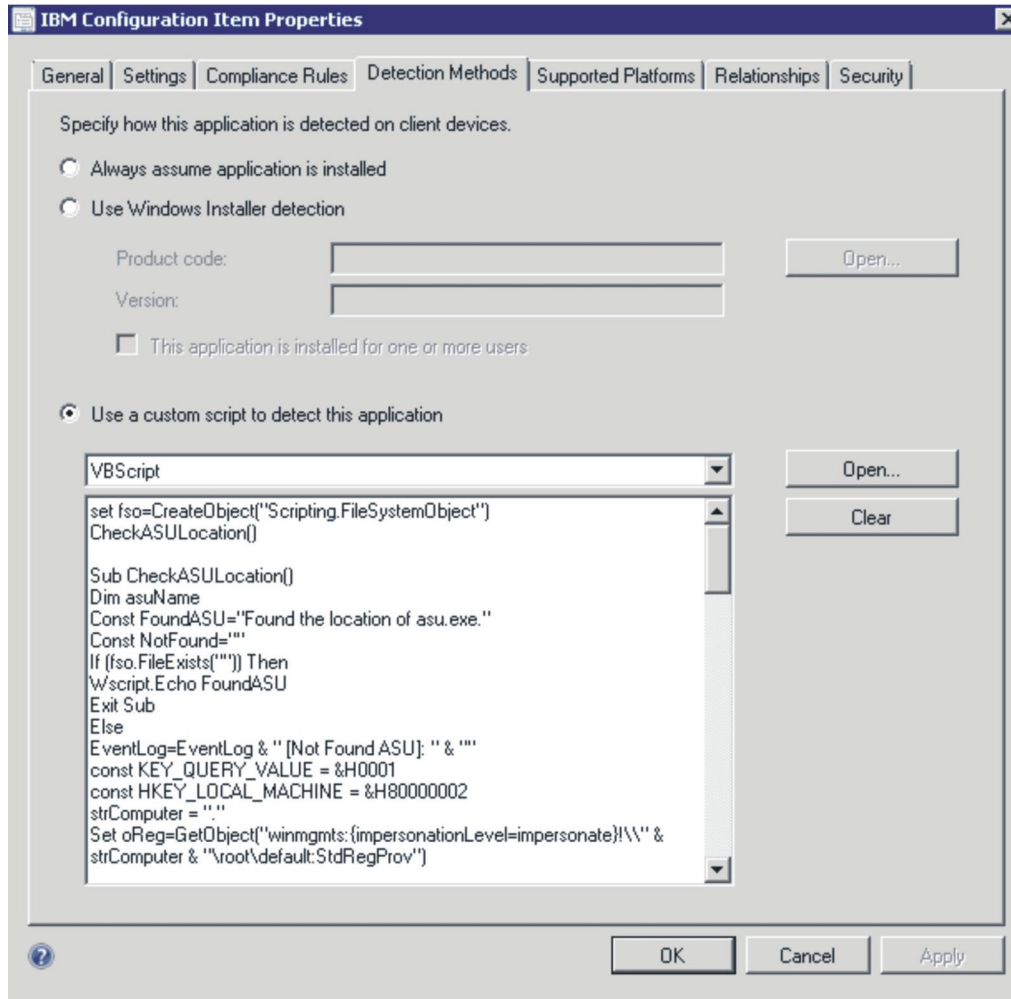


Figure 61. Detection Method tab

Creating a baseline

About this task

You will need to create a baseline that contains all of configuration items that you want to validate on endpoints.

Note: The configuration items cannot be assigned to the endpoints without a baseline.

Procedure

1. In the SCCM console, expand the Desired Configuration Management node.
2. Right-click Configuration Baselines and select **New Configuration Baseline**.

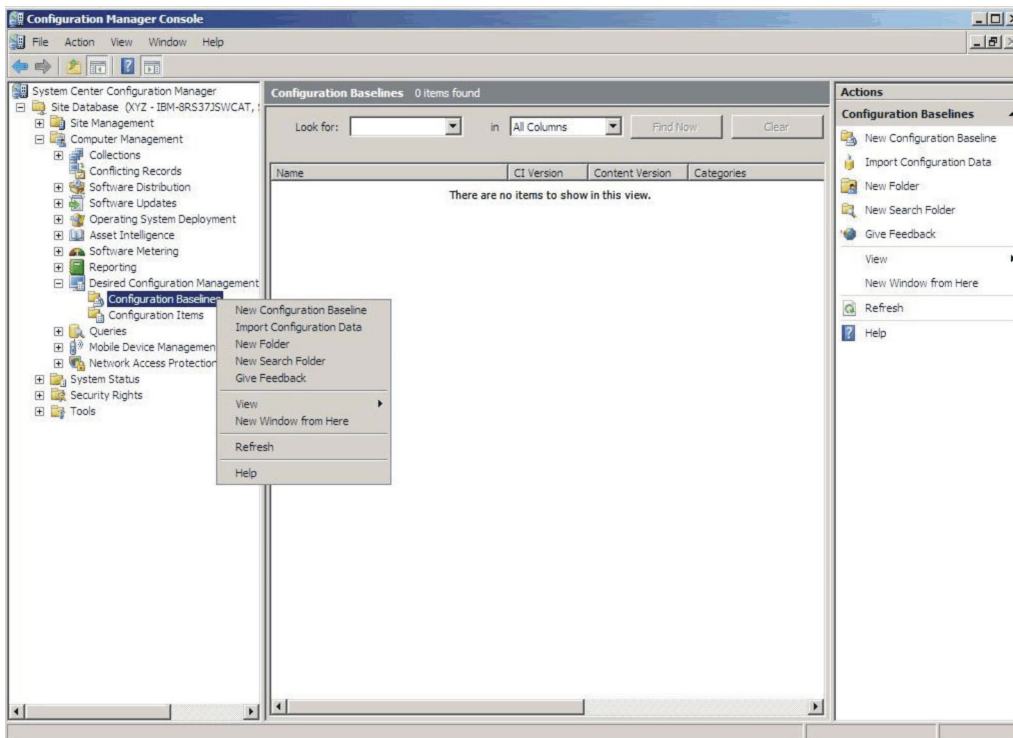


Figure 62. New Configuration Baseline function

The Create Configuration Baseline Wizard opens.

The screenshot shows the 'Create Configuration Baseline Wizard' window. The title bar reads 'Create Configuration Baseline Wizard'. On the left is a vertical navigation pane with icons and labels: 'Identification' (selected), 'Set Configuration Baseline Rule', 'Summary', 'Progress', and 'Confirmation'. The main area has a header 'Identification' with a computer icon. Below it, the instruction 'Specify a unique name and a description for this configuration baseline.' is followed by a 'Name:' label and a text box containing 'IBM Baseline - 1'. Below that is a 'Description:' label and a large empty text area. Further down, the instruction 'To improve searching and filtering, click Categories and assign one or more categories.' is followed by an empty box and a 'Categories...' button. At the bottom are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

Figure 63. Create Configuration Baseline Wizard

3. Enter a name and, optionally, a description for your baseline. Click **Next**.
4. Click the **applications and general** link to select the configuration items that you want to validate.

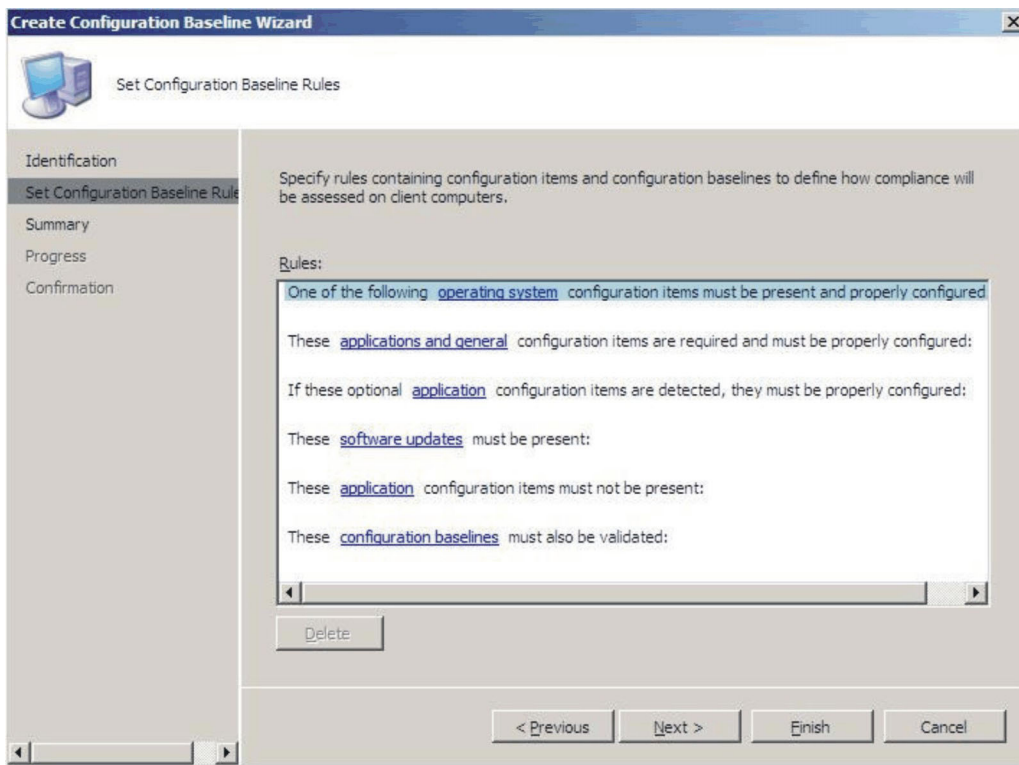


Figure 64. Applications and general link

The Choose configuration items window opens.

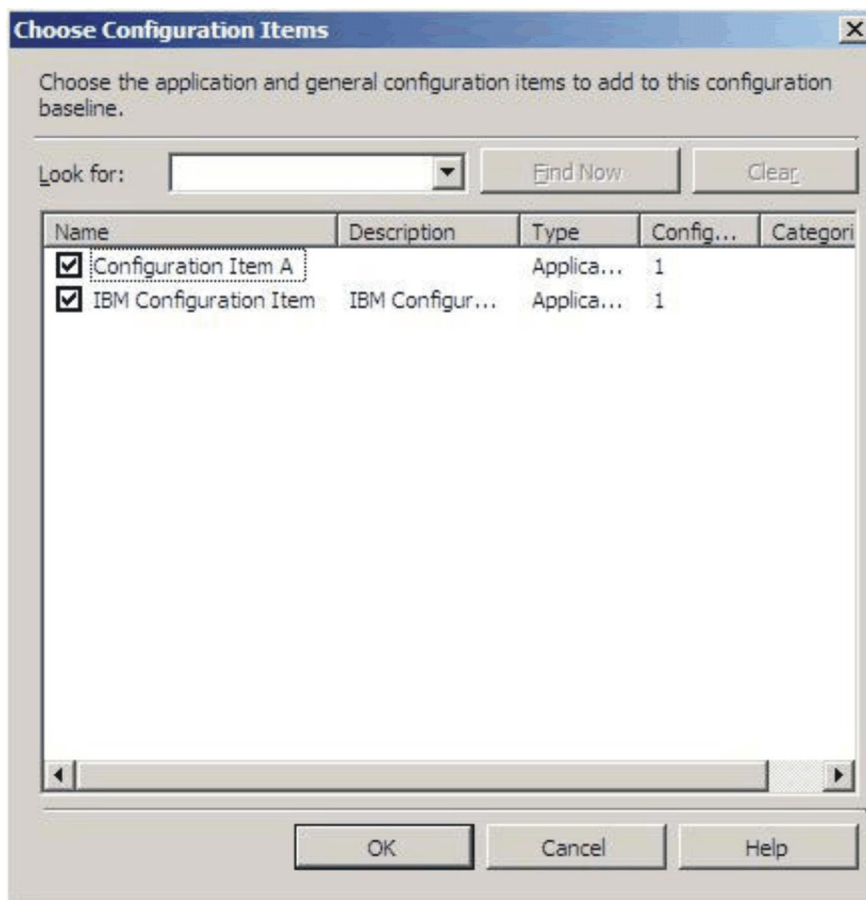


Figure 65. Choose **configuration items** window

5. Select the check boxes that correspond to the configuration items you want to validate on the endpoints, and click **OK**.

The selected configuration items are displayed beneath the **applications and general** link.

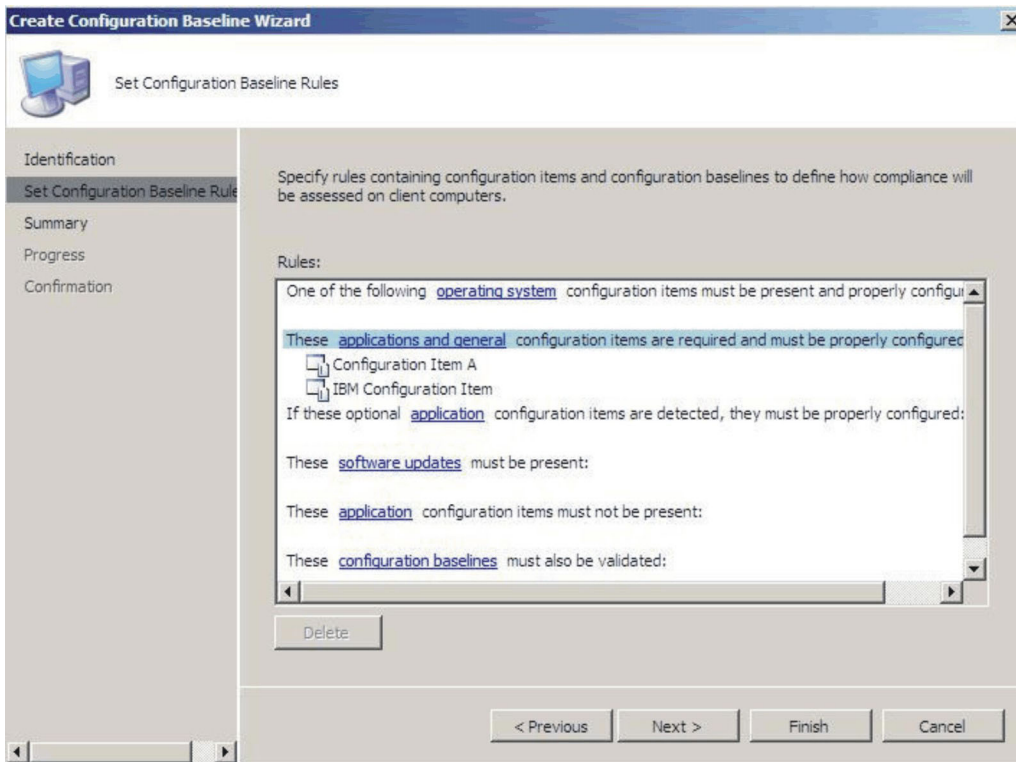


Figure 66. Applications and general link with configuration items

6. Click **Finish** to exit the wizard.

Assigning the baseline to a collection

About this task

If you want to check the settings of clients of one collection, you can assign a baseline to the collection.

Procedure

1. In the SCCM console, right-click the new baseline and select **Assign to a Collection**.

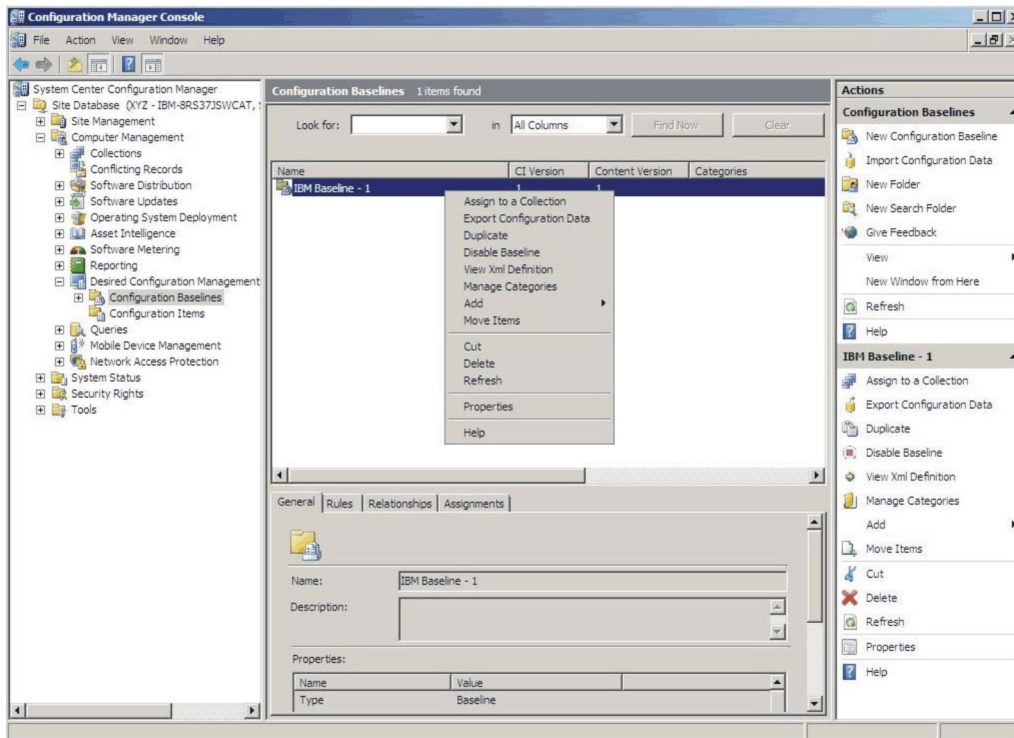


Figure 67. Assign to a Collection function

The Assign Configuration Baseline Wizard opens and displays the Choose Collection window.

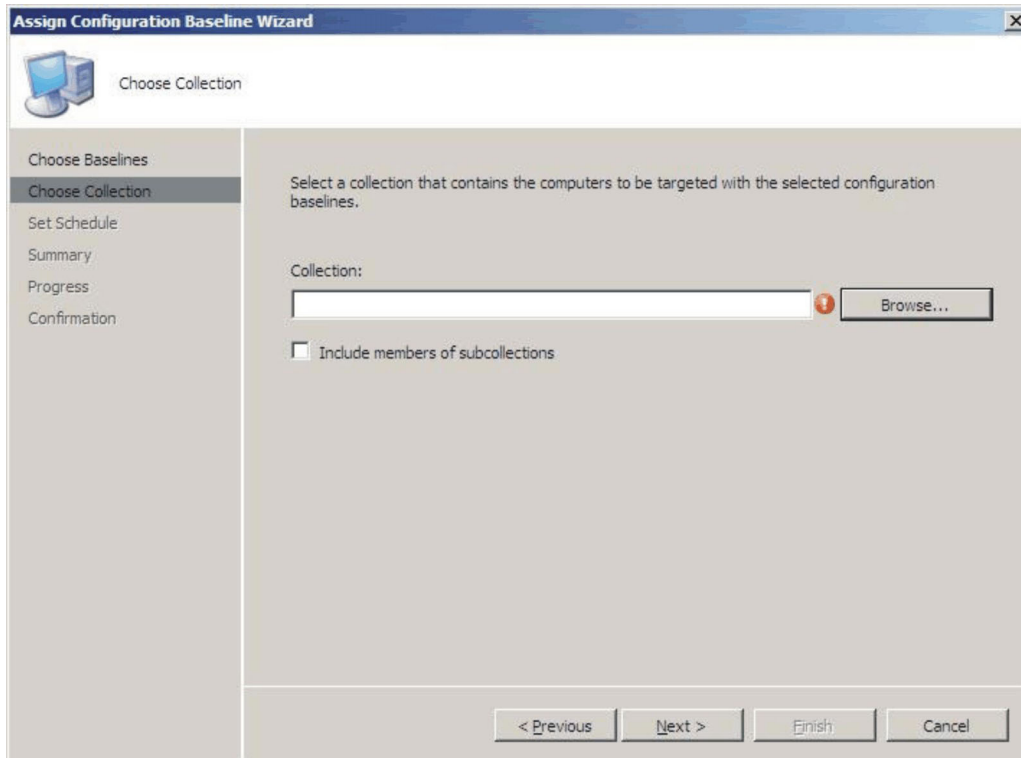


Figure 68. Choose Collection window

2. Next to the **Collection** field, click **Browse** to select a target client collection.
3. Click **Next**.
4. Select a schedule for your baseline validation. You can either select a simple schedule or create a custom schedule.

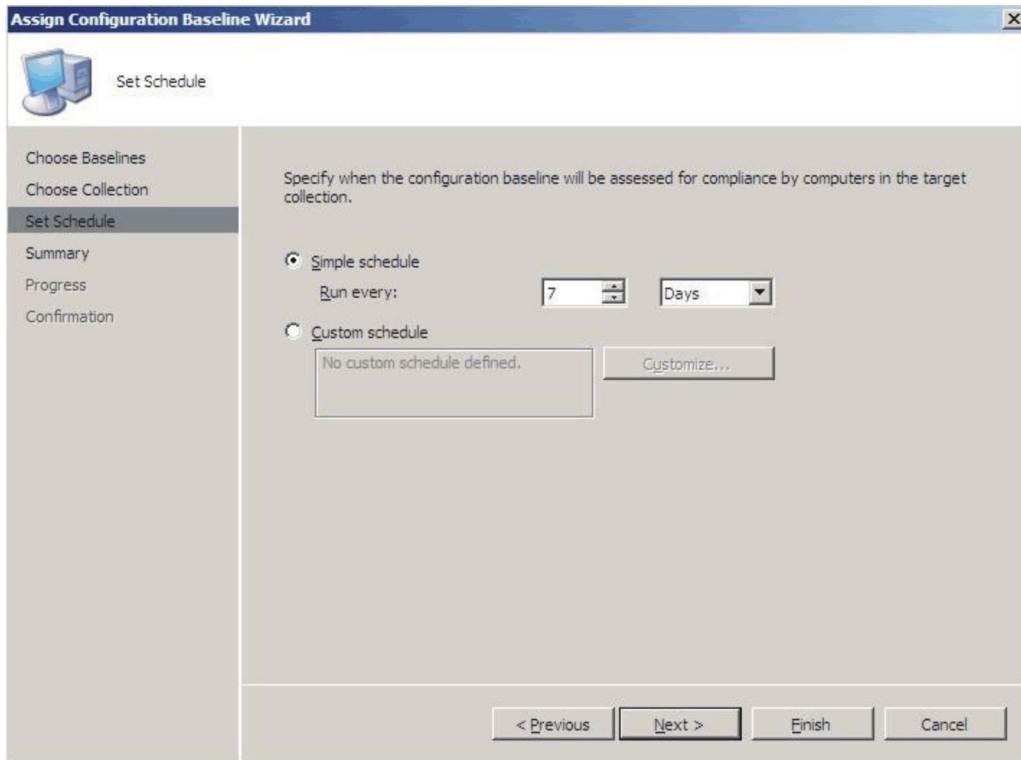


Figure 69. Set Schedule window

5. Click **Finish** to exit the wizard.

Evaluating the Baseline on the Endpoint

About this task

The baseline and its child configuration items will be automatically evaluated (settings for configuration items will be checked) according to the schedule you created or selected. But you can advance for evaluation as follows:

Procedure

1. Ensure that the endpoint can be found on the SCCM server and that you have the SCCM client agent installed. Otherwise, the endpoint will not receive the baseline from the SCCM server.
2. If the endpoint is 32-bit, click **Control Panel > Configuration Manager**. If the endpoint is 64-bit, click **Control Panel > View 32-bit Control Panel Items > Configuration Manager**.

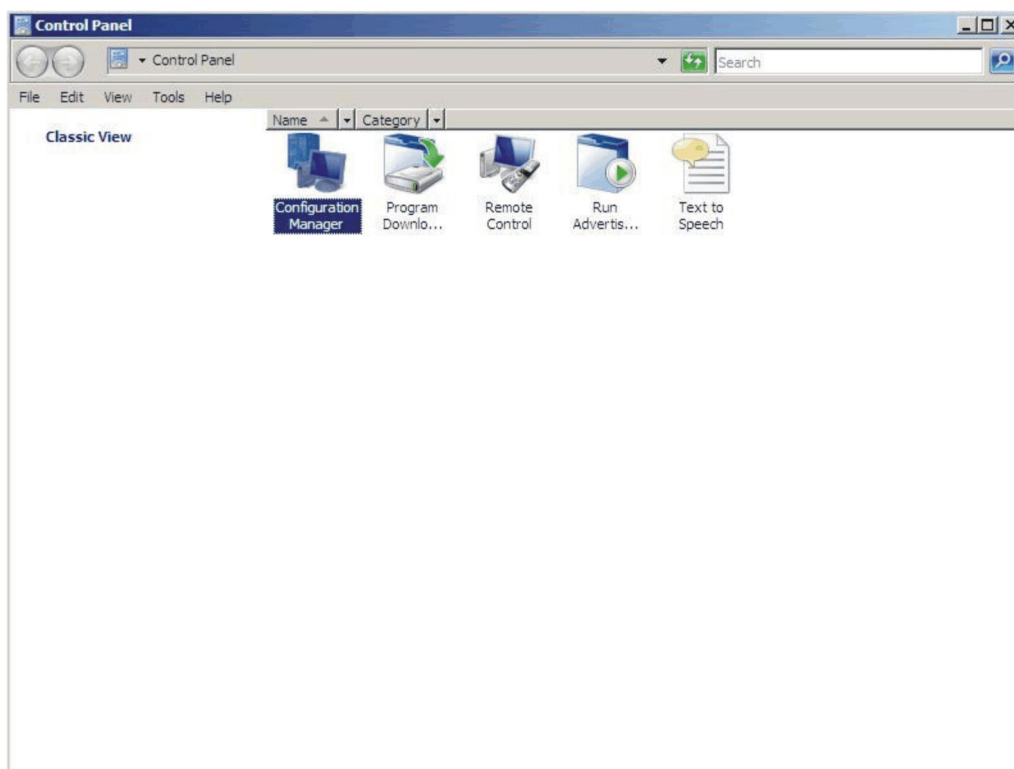


Figure 70. Configuration Manager in Control Panel folder

The Configuration Manager Properties window opens.

3. On the **Actions** tab, select **Machine Policy Retrieval & Evaluation Cycle**, and click **Initiate Action**. A window opens notifying you that the action has been initiated. Click **OK**.

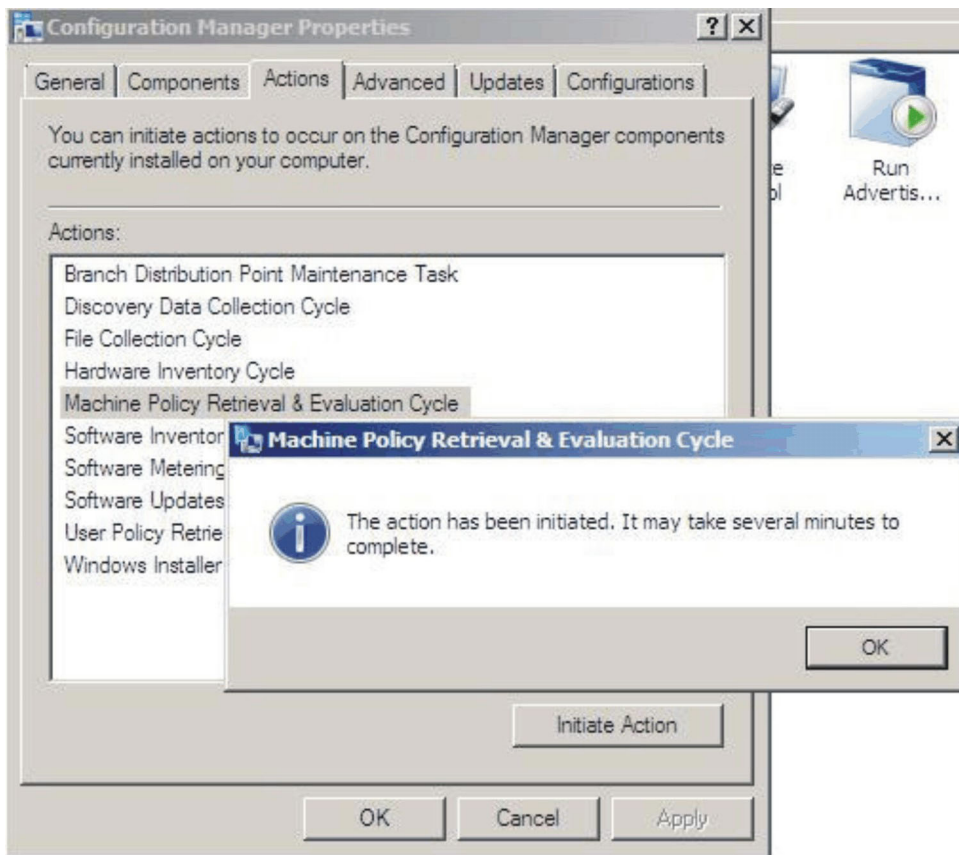


Figure 71. Action Initiated window

4. After a few minutes, the baseline will be located on the **Configurations** tab. If you do not see it, click **Refresh**.

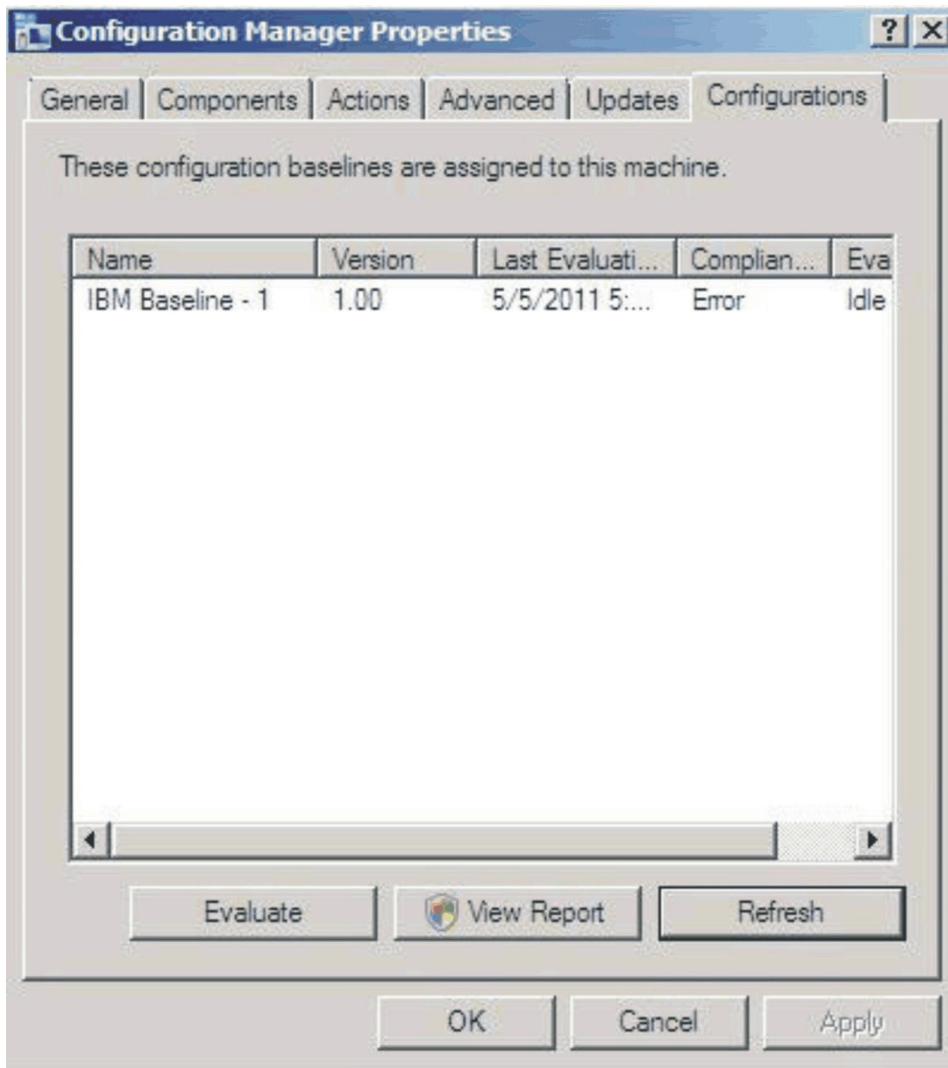


Figure 72. Configurations tab

Note: If the baseline does not appear in the Configuration Baseline List View after few minutes, ensure that your SCCM client agent can be found on SCCM Console, as shown in the following figure.

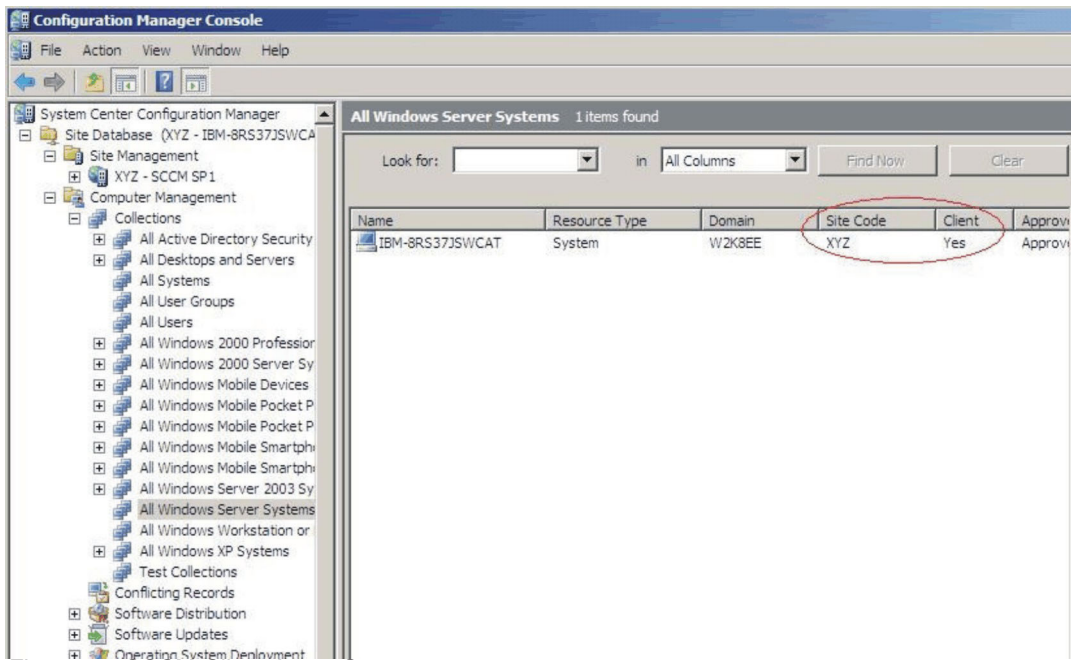


Figure 73. SCCM Client Agent Status

5. Select the baseline, and click **Evaluate**. After a few minutes, the **Evaluate** button becomes available. Select the baseline, and click **View Report** to check the report.

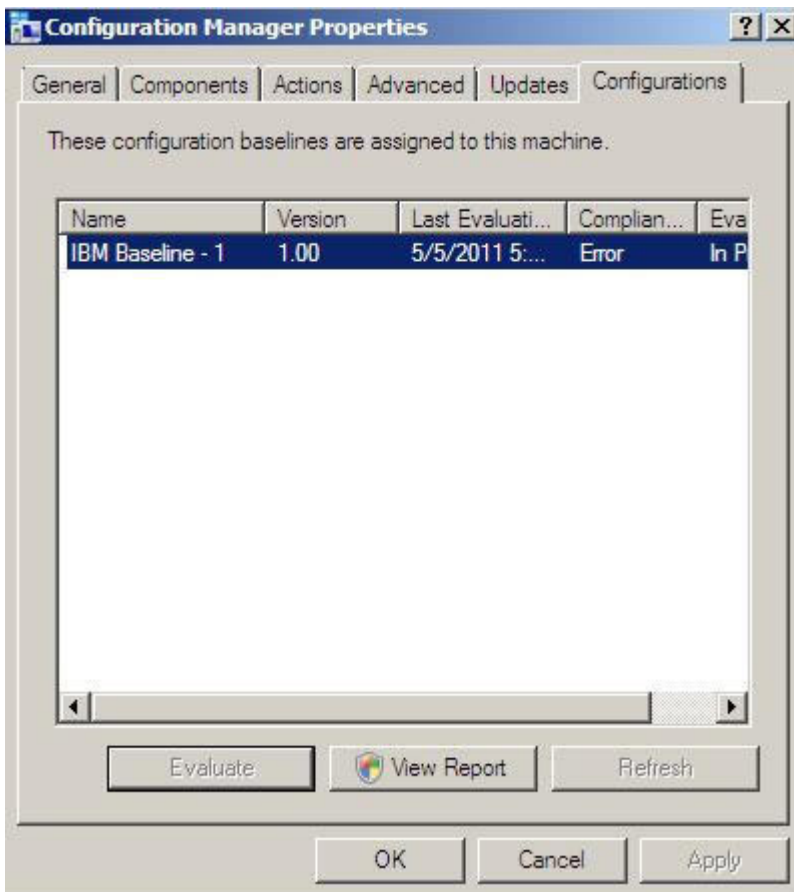


Figure 74. Configurations tab with available View Report button

Evaluation Report View

There are some situations where the evaluated setting (Script) does not return any value.

There are several reasons this might occur:

- The endpoint does not have the IMM module.
- The endpoint has the IMM module, but the evaluated setting cannot be found on the endpoint.
- The wrong user ID and password was used to connect the IMM module.
- The ASU.exe file version is not v3.60 or later.
- The evaluation timed out (5 mins). SCCM sets the time limit.

Note: If the evaluated setting does not return a value, the SCCM Client agent deems the setting as non-compliant on the endpoint, and ranks its severity level as Information. The evaluation report cannot specify the cause; to determine the cause, you must check the logs in the Windows Event Viewer for details (see Figure 3 for example logs).

Setting/Object Name	Setting/Object Type	Setting/Object Description	Constraint Name	Constraint Description	Severity	Constraint	Instance Data	Current Value
IMM.CIMOverHTTPPort	Script	Configure the IMM port assignment for "IBM Systems Director over HTTP." min="0" max="65535" default="5988"	Instance count validation	The validation of the number of instances of an object or setting	Information	(number(count (ns_ScopeId_550a3dbb-8f51-47a7-86ac-ee6929722ab_this:Setting_a006e5d1-83e7-4c9b-bc0c-748ec061f2be)) >number(0))		0
IMM.PowerRestorePolicy	Script	mode of operation if a power loss occurs. This setting can also be configured via BIOS F1 setup. Restore: Restores system to the same state it was before power failed.	Instance count validation	The validation of the number of instances of an object or setting	Information	(number(count (ns_ScopeId_550a3dbb-8f51-47a7-86ac-ee6929722ab_this:Setting_afeee205-85be-4fa3-9782-8de1bf9d0792)) >number(0))		0

Figure 75. Evaluated setting with no value returned

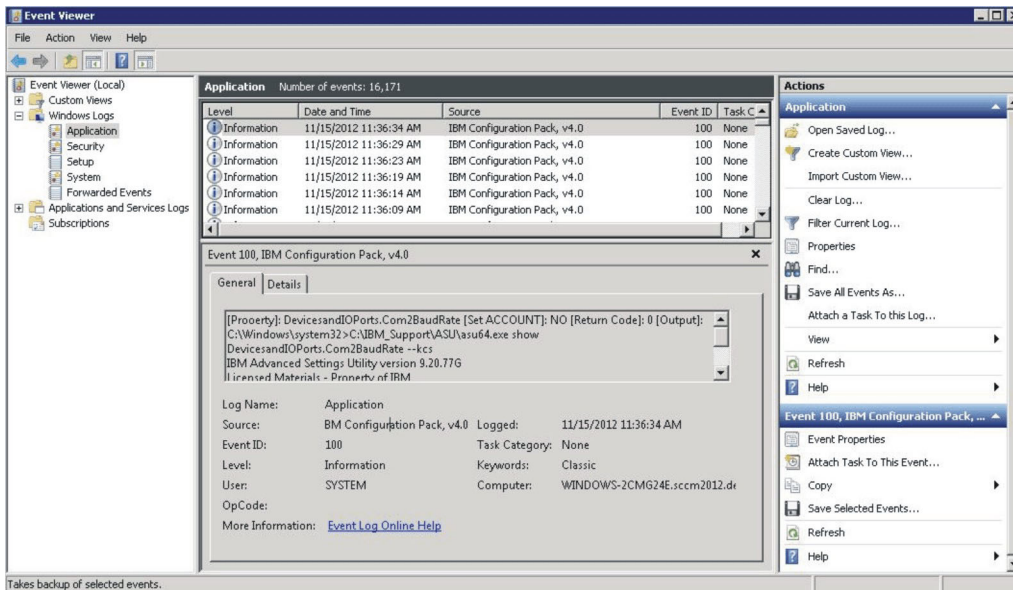


Figure 76. Windows Event Viewer logs

Running Homepage Summarization

About this task

Homepage Summarization summarizes the configuration compliance status for SCCM clients.

Procedure

1. In the SCCM Console, right-click **Desired Configuration Management**, and select **Run Homepage Summarization**.

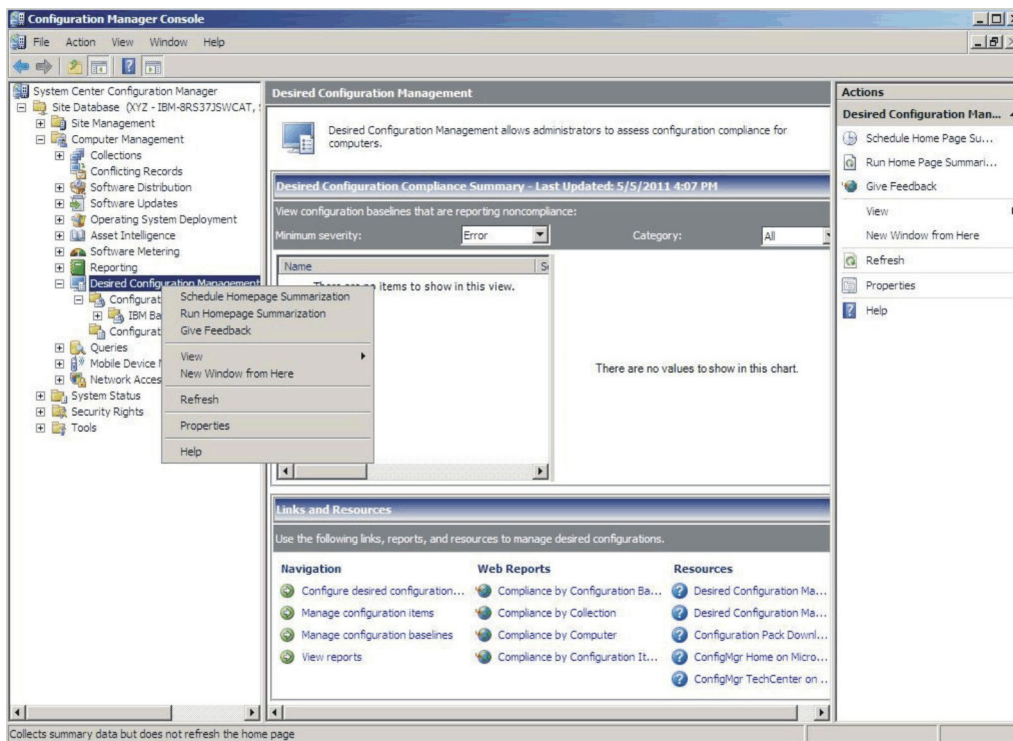


Figure 77. Run Homepage Summarization function

2. After a few minutes, right-click **Desired Configuration Management** again, and select **Refresh**. The assigned baseline report is displayed in the window.

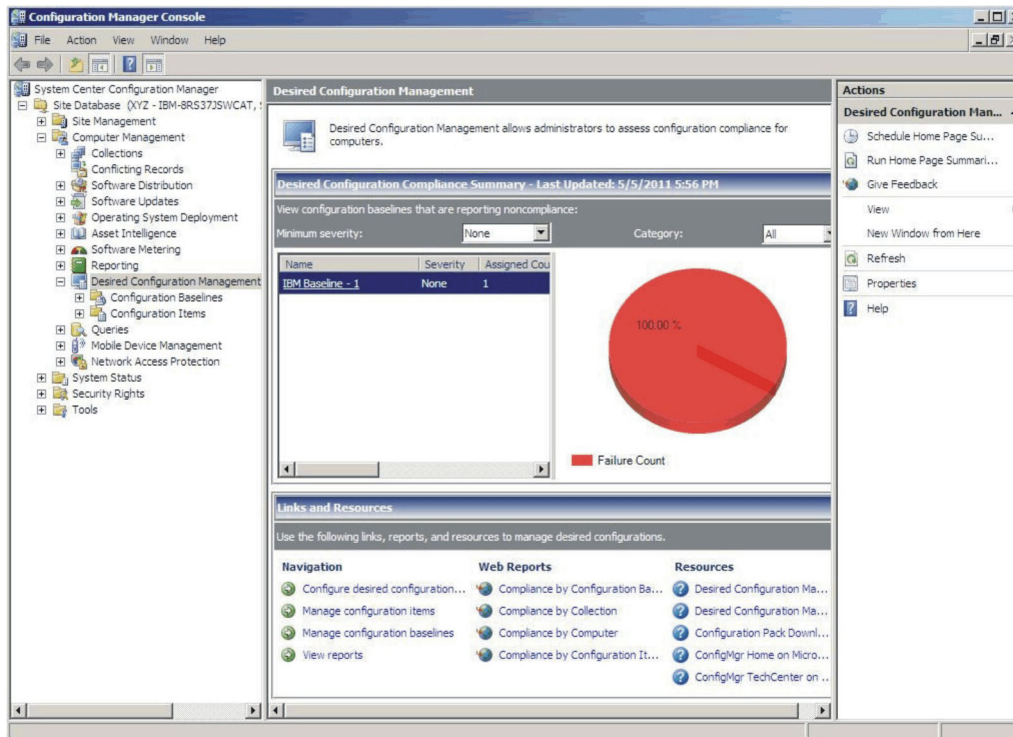


Figure 78. Baseline report

3. To open the report view, click the baseline name link label. For more details about reports for DCM, see <http://technet.microsoft.com/en-us/library/bb680430.aspx>.

Note: The SCCM Console must have Report access enabled; otherwise you cannot open the report view in SCCM Console.

Applying IBM Configuration Pack to SCCM 2012 Console

The information in this section shows how to import the IBM configuration data into SCCM server.

Importing configuration data to DCM

Procedure

1. Open the SCCM Console and expand Desired Configuration Management. Right click Configuration Baselines or **configuration items**, and select **Import configuration data**.

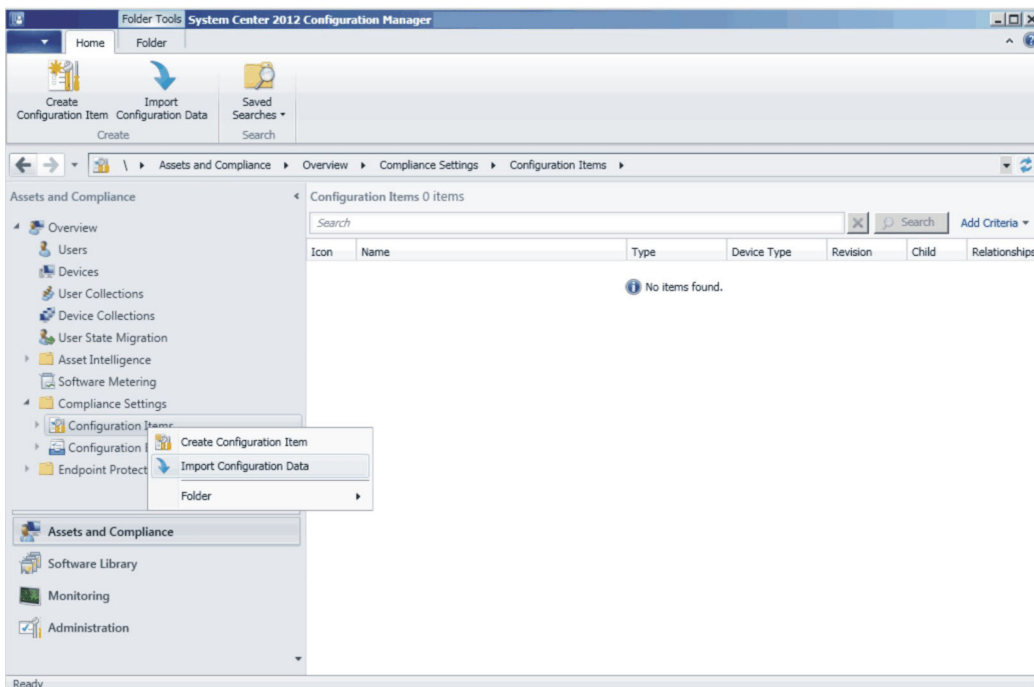


Figure 79. Import Configuration Data function

2. Click **Add** to select the exported IBM Configuration Pack .cab file.

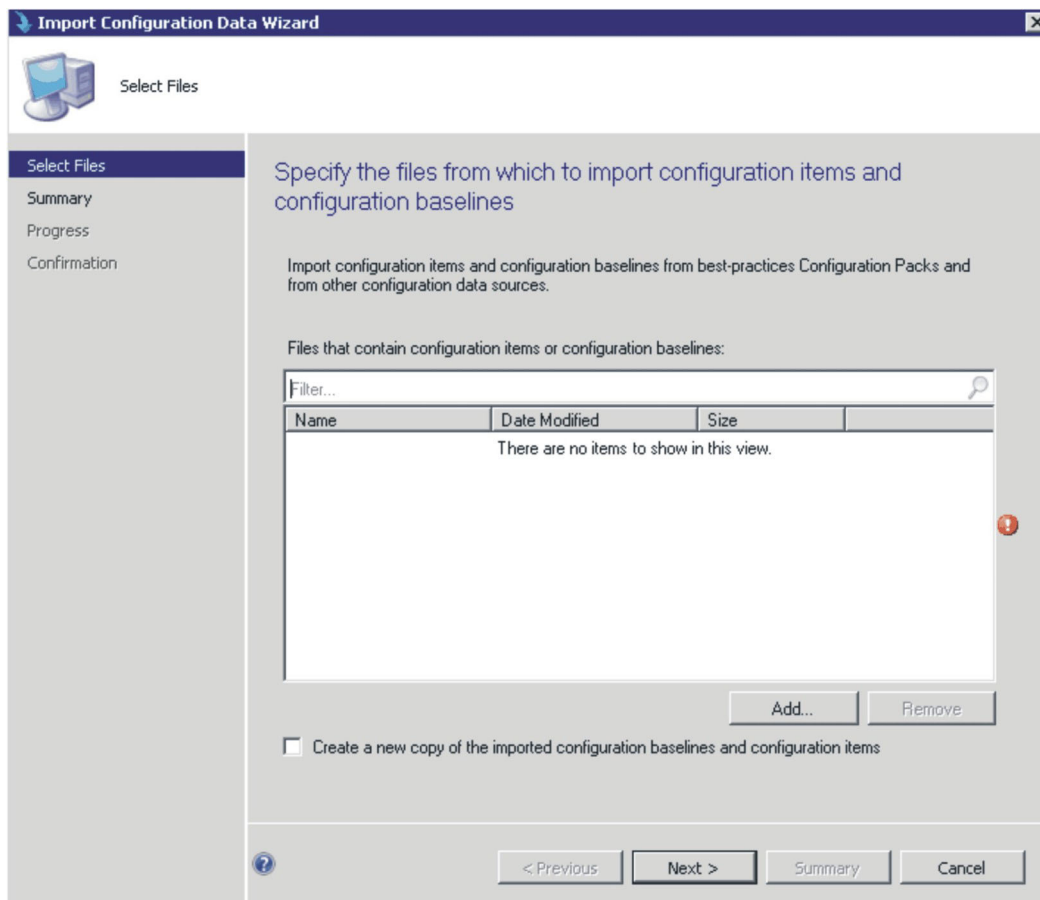


Figure 80. Add exported IBM Configuration Pack .cab file

3. Select the IBM Configuration Pack and click **Open** to import it.

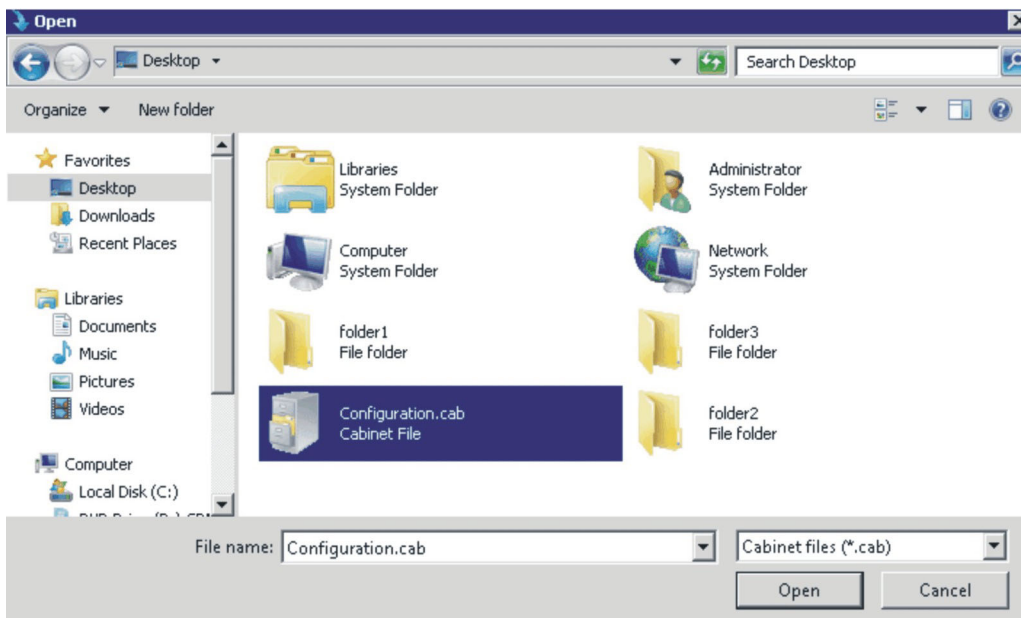


Figure 81. Selecting the exported .cab file

4. A **Verify Publisher** window opens. Click **Yes** to import the file.

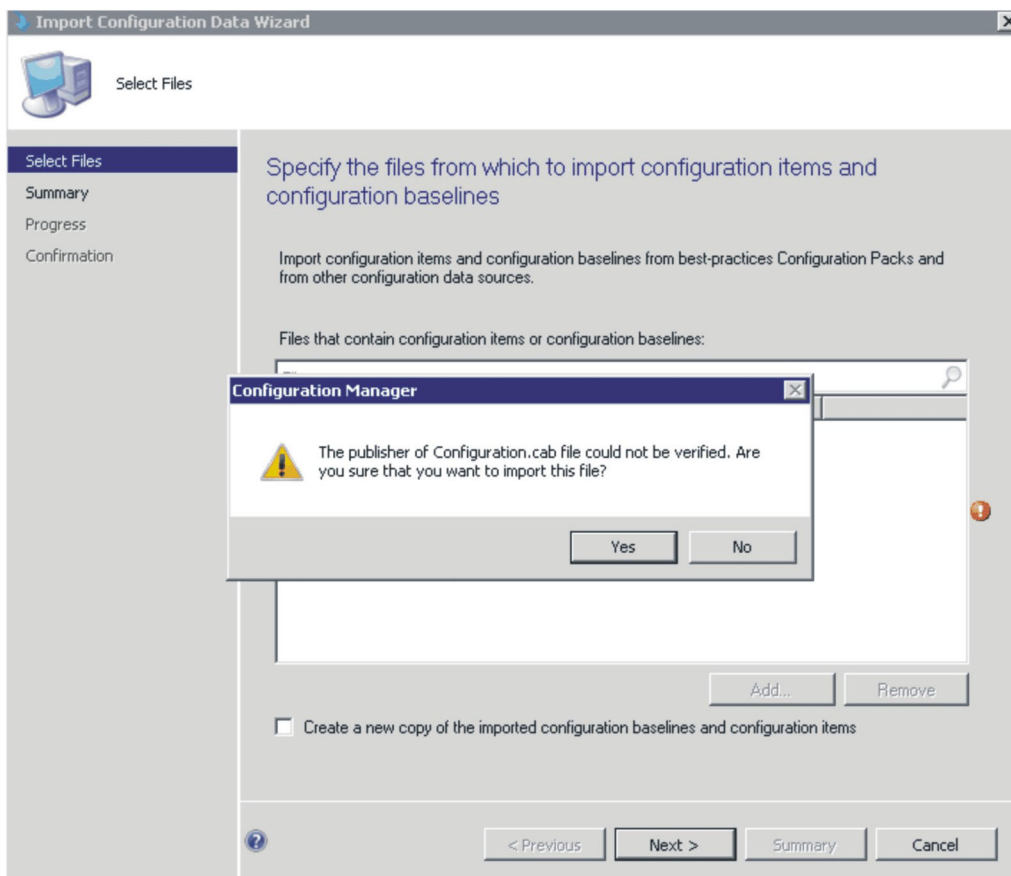


Figure 82. Publisher Check dialog box

5. Click **Next** to import the IBM Configuration Pack .cab file.

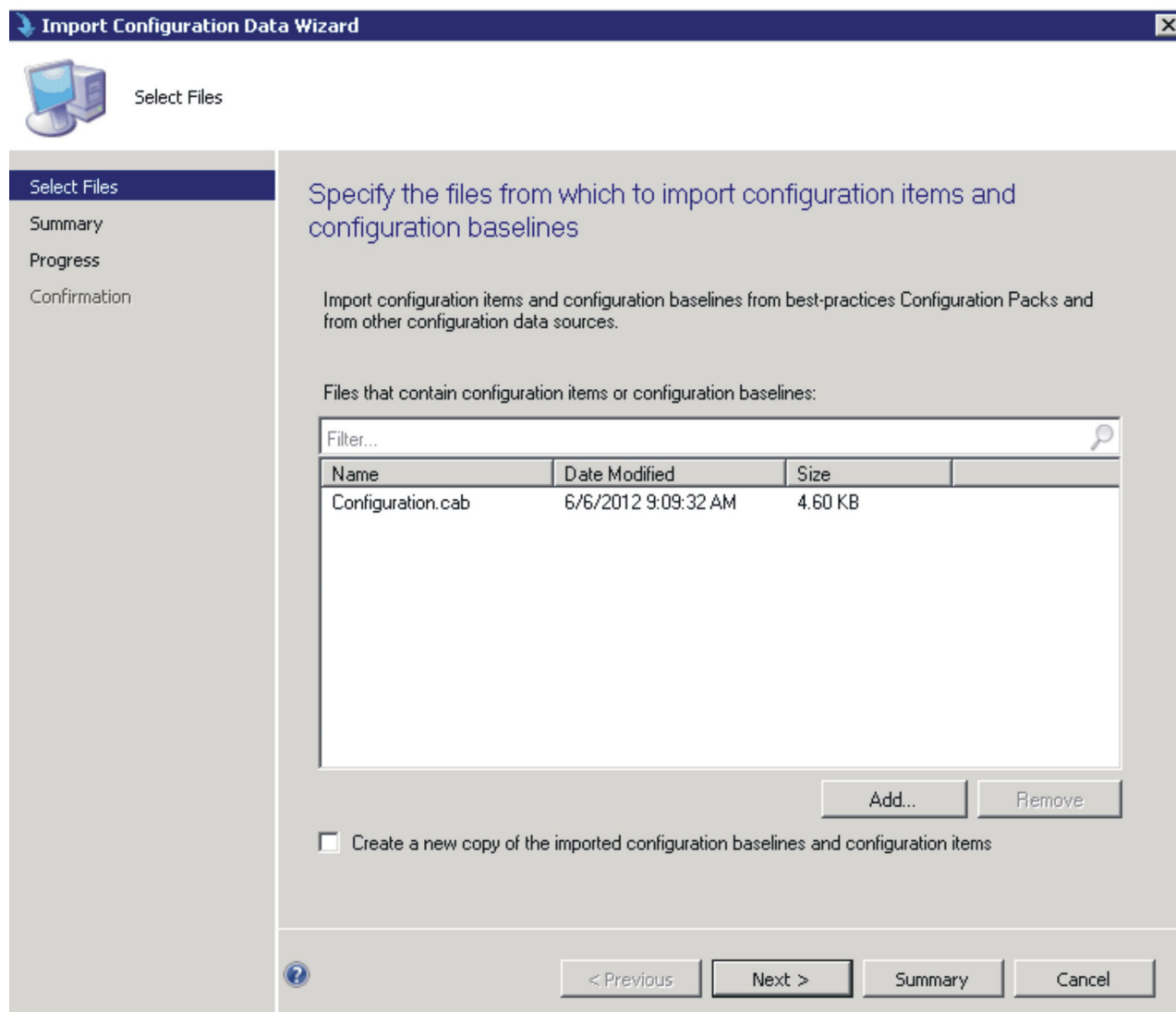


Figure 83. Importing the selected .cab file

6. Your configuration items are displayed in the IBM Configuration Pack tree. Click **Next**.

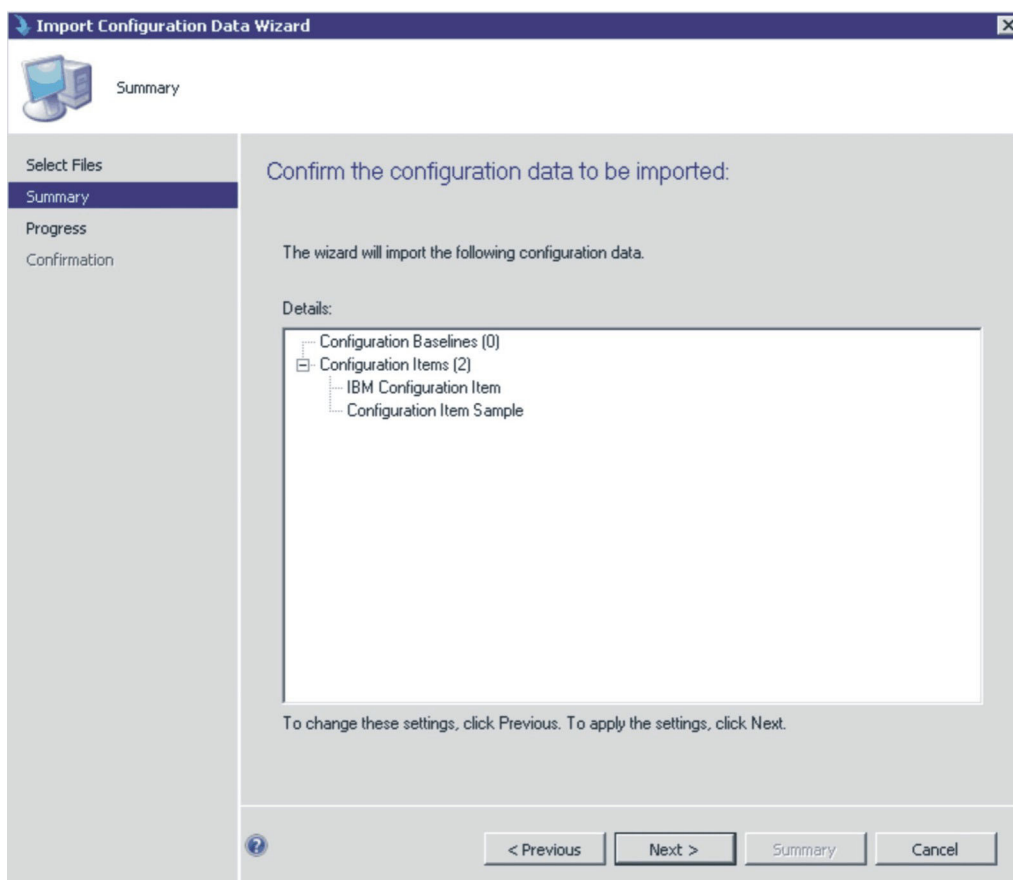


Figure 84. Confirm the configuration data

7. A message is displayed indicating that you have imported configuration data successfully. Click **Close** to exit the wizard.

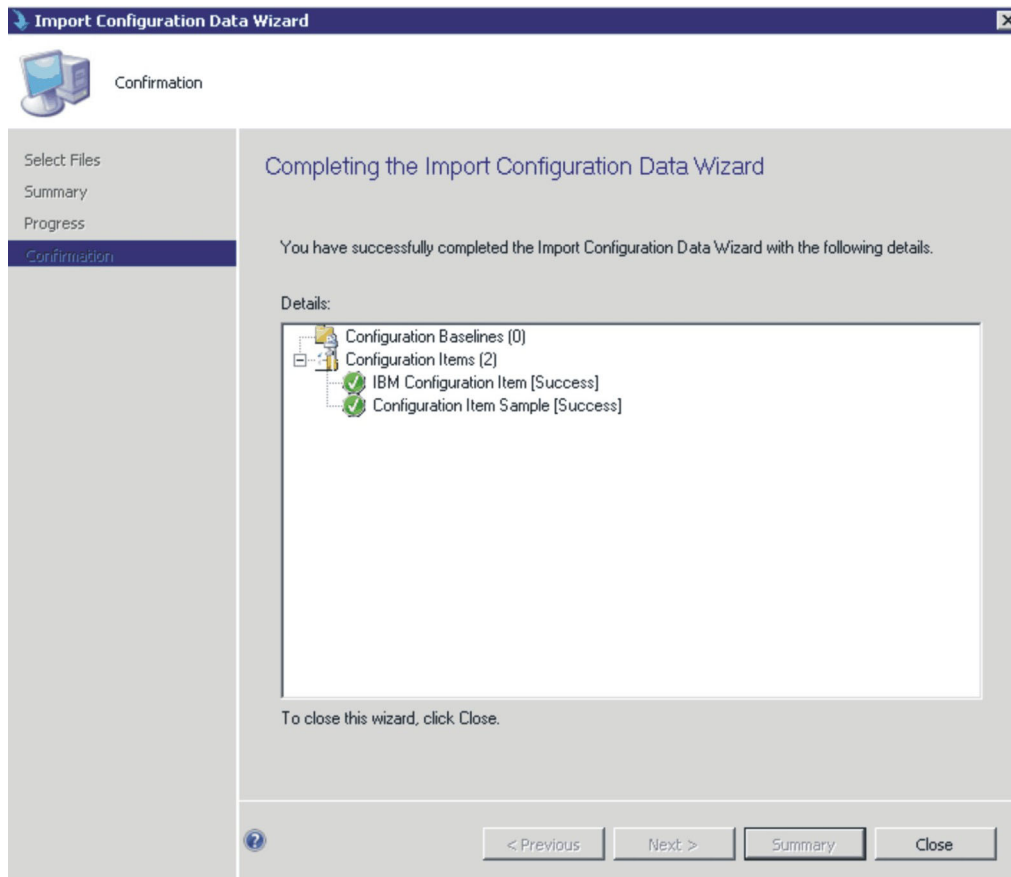


Figure 85. Successful completion window

8. Right click the **Configuration Item** node, and select **Refresh**. The imported configuration items are displayed in the window.

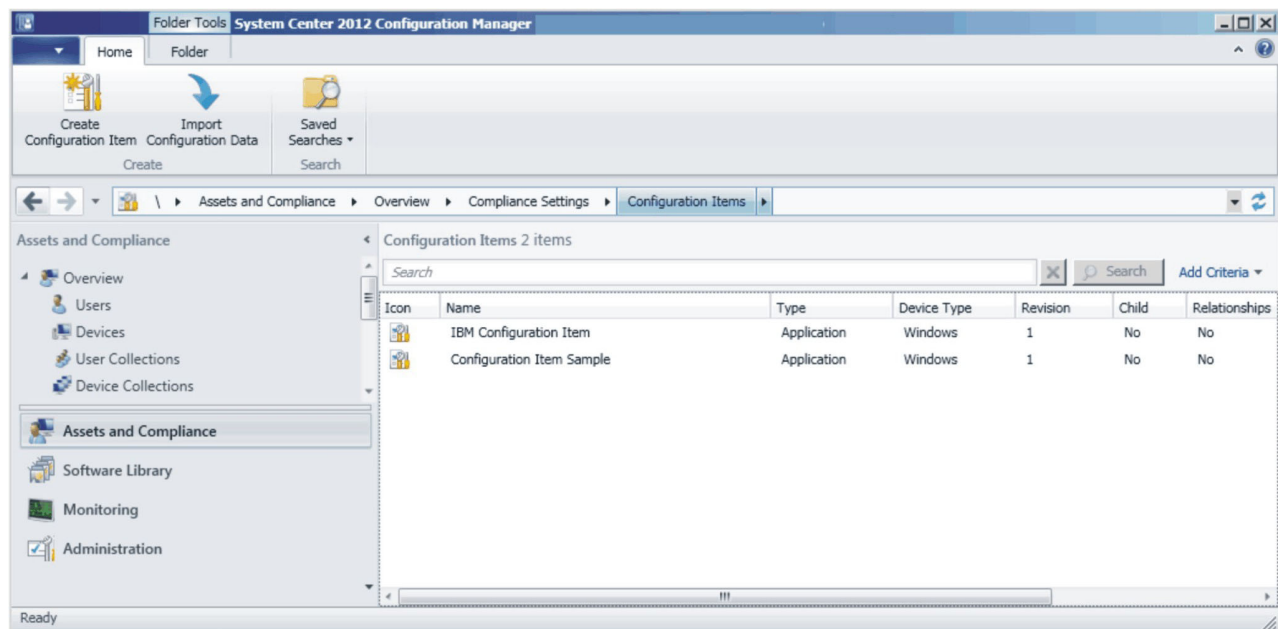


Figure 86. SCCM with imported configuration items

Note: The imported configuration items may have a status of “Lock.” The Lock status is due to one of the following reasons:

- The configuration data is read-only.
- The configuration data were not authored by the SCCM console administrator.

Viewing configuration item properties

About this task

The information in this section shows how to view the imported IBM configuration data in SCCM server.

Procedure

1. To view the properties for a configuration item, double click it. On the **Settings** tab, the IBM Setting Collections are listed on this page.

You can select any one setting to see the setting to be validated. Double click a setting to view it or select one and click **Edit**.

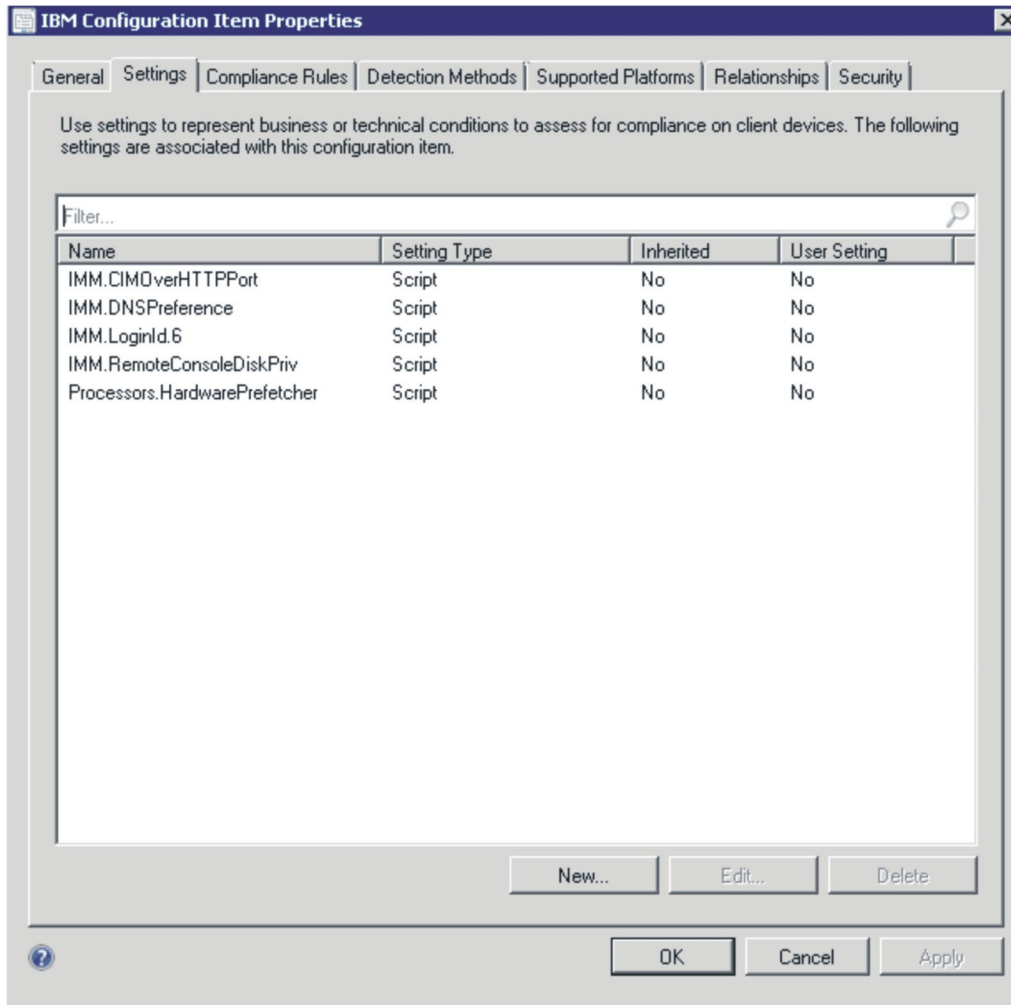


Figure 87. Settings tab

2. On the **Detection Method** tab, IBM Configuration Pack Editor defines the detection method for every configuration item. This detection method checks whether the ASU.exe file exists on the endpoint. If it does not, the configuration item returns a state of "Not Detected," and the children settings group ceases to be validated.

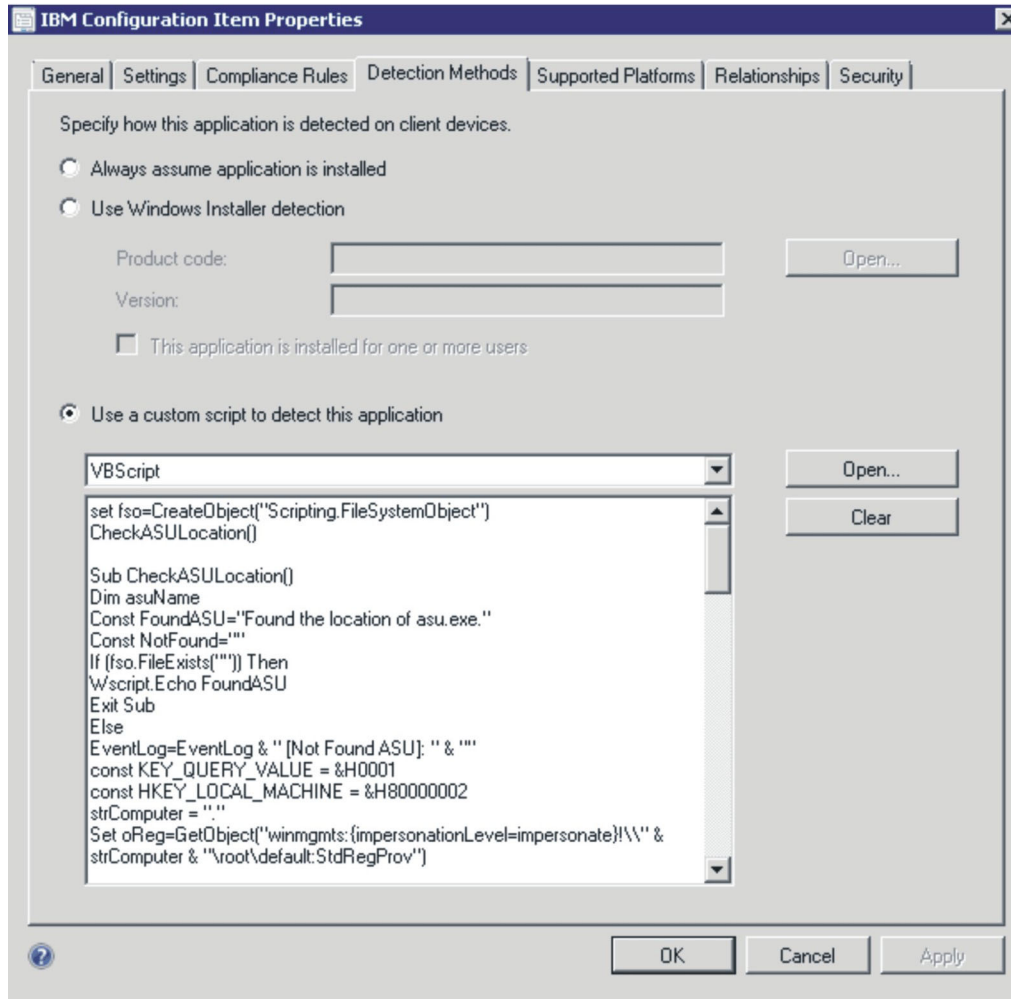


Figure 88. Detection Method tab

Creating a baseline

About this task

You will need to create a Baseline that contains all of configuration items that you want to validate on endpoints.

Note: The configuration items cannot be assigned to the endpoints without a baseline.

Procedure

1. In the SCCM console, expand the Desired Configuration Management node.
2. Right-click Configuration Baselines, and select **New Configuration Baseline**.
The Create Configuration Baseline wizard opens.

Specify general information about this configuration baseline

Name: IBM-Baseline Sample

Description:

Select the configuration data (configuration items, configuration baselines, and software updates) to be evaluated for compliance by this configuration baseline. This configuration baseline will be assessed as compliant if all the items specified are compliant. Optional items are evaluated only if the relevant application is present on the client devices.

Configuration data:

Name	Type	Purpose	Revision
There are no items to show in this view.			

Add Change Purpose Change Revision Remove

Configuration Items
Software Updates
Configuration Baselines

Searching and filtering:

Categories...

OK Cancel

Figure 89. Create Configuration Baseline function

3. Enter a name and, optionally, a description for your baseline. Click **Add**.

Specify general information about this configuration baseline

Name: IBM-Baseline Sample

Description:

Select the configuration data (configuration items, configuration baselines, and software updates) to be evaluated for compliance by this configuration baseline. This configuration baseline will be assessed as compliant if all the items specified are compliant. Optional items are evaluated only if the relevant application is present on the client devices.

Configuration data:

Filter...

Name	Type	Purpose	Revision
There are no items to show in this view.			

Add Change Purpose Change Revision Remove

Configuration Items
Software Updates
Configuration Baselines

Searching and filtering:

Categories...

OK Cancel

Figure 90. Add Configuration window

4. Click the **Configuration Items** link to select the configuration items that you want to validate.

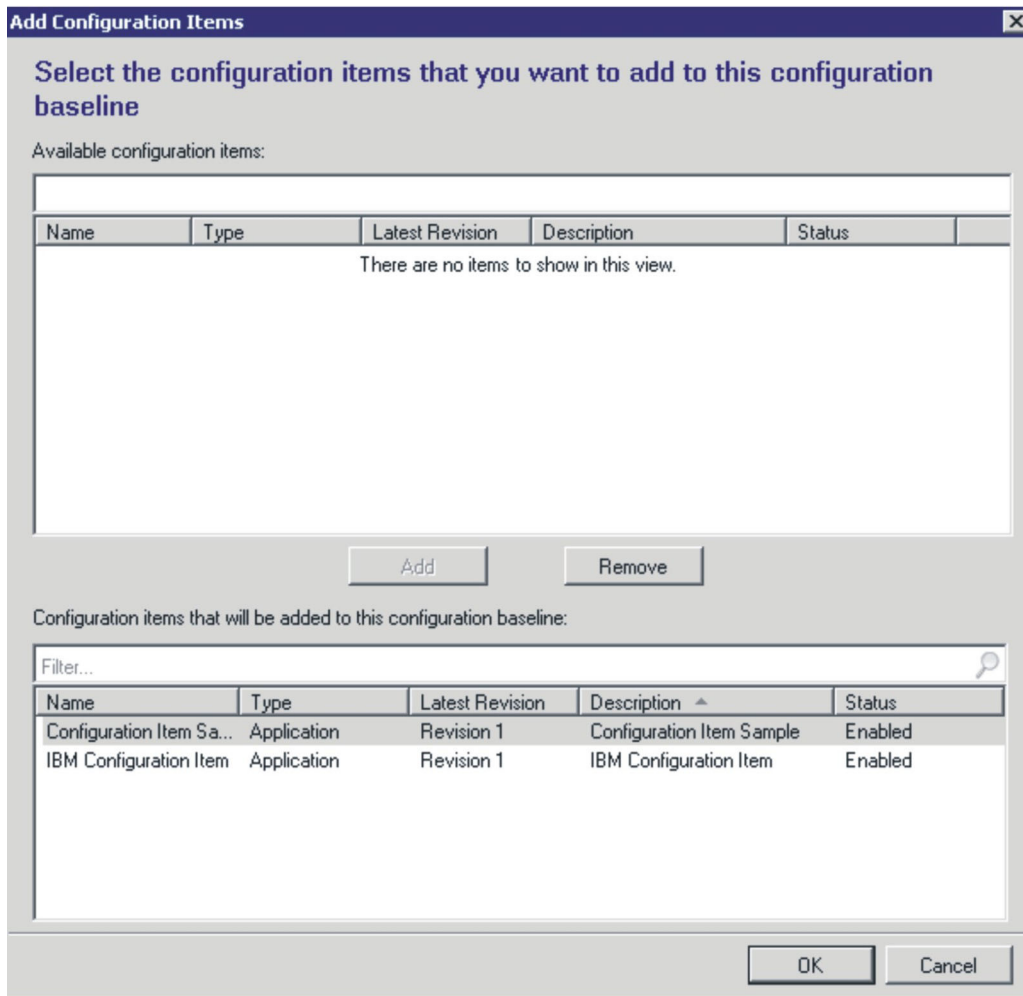


Figure 91. Add Configuration Items window

5. Click **OK** to exit the wizard.

Assigning the baseline to a collection

About this task

If you want to check the settings of clients of one collection, you can assign a baseline to the collection.

Procedure

1. In the SCCM console, right-click the new baseline and select **Deploy**.

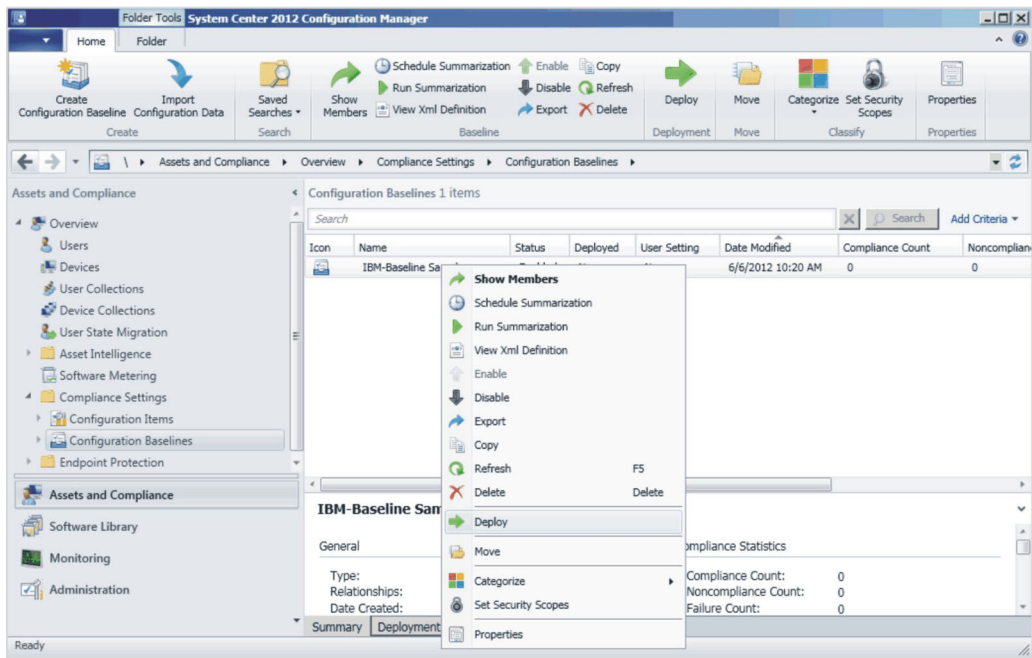


Figure 92. Deploy to a Collection function

The Assign Configuration Baseline wizard opens.

Deploy Configuration Baselines

Select the configuration baselines that you want to deploy to a collection

Available configuration baselines:

Filter...

There are no items to show in this view.

Add >

< Remove

Selected configuration baselines:

Filter...

IBM-Baseline Sample

☐ Remediate noncompliant rules when supported

☐ Allow remediation outside the maintenance window

☐ Generate an alert:

When compliance is below: 90 %

Date and time: 6/ 6/2012 10:23 AM

☐ Generate System Center Operations Manager alert

Select the collection for this configuration baseline deployment.

Collection: [Red exclamation mark icon] Browse...

Schedule

Specify the compliance evaluation schedule for this configuration baseline:

☒ Simple schedule

Run every: 7 Days

☐ Custom schedule

No custom schedule defined. Customize...

OK Cancel

Figure 93. Assign Configuration Baseline function

Note: If you want to remediate the noncompliant settings, select **Remediate noncompliant rules when supported**. When this setting is selected, nothing happens if the setting is compliant. If the setting is non-compliant, SCCM will attempt to change it to the expected value. The remediate action may not always succeed.

2. Next to the **Collection** field, click **Browse** and select a target client collection.
3. Click **OK**.

Evaluating the baseline on the endpoint

About this task

The baseline and its child configuration items will be automatically evaluated (settings for configuration items will be checked) according to the schedule you created or selected. But you can advance for evaluation as follows:

Procedure

1. Ensure that the endpoint can be found on the SCCM server, and that you have the SCCM client agent installed. Otherwise, the endpoint will not receive the baseline from the SCCM server.
2. If the endpoint is 32-bit, click **Control Panel > Configuration Manager**. If the endpoint is 64-bit, open **Control Panel > View 32-bit Control Panel Items > Configuration Manager**.

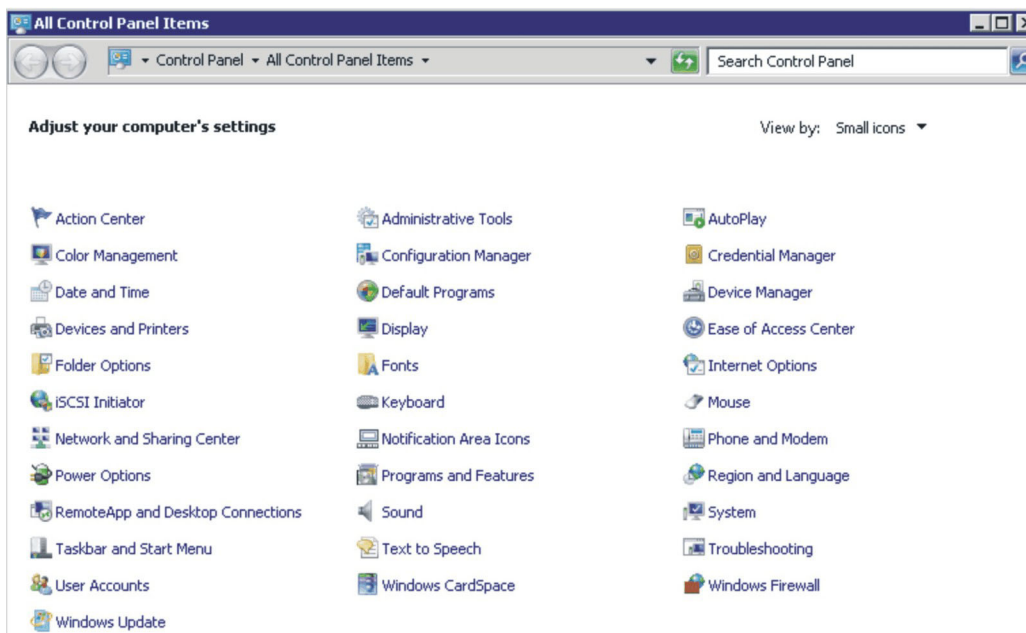


Figure 94. Configuration Manager in Control Panel folder

The Configuration Manager Properties window opens.

3. On the **Actions** tab, select **Machine Policy Retrieval & Evaluation Cycle**, and click **Initiate Action**. A window opens notifying you that the action has been initiated. Click **OK**.

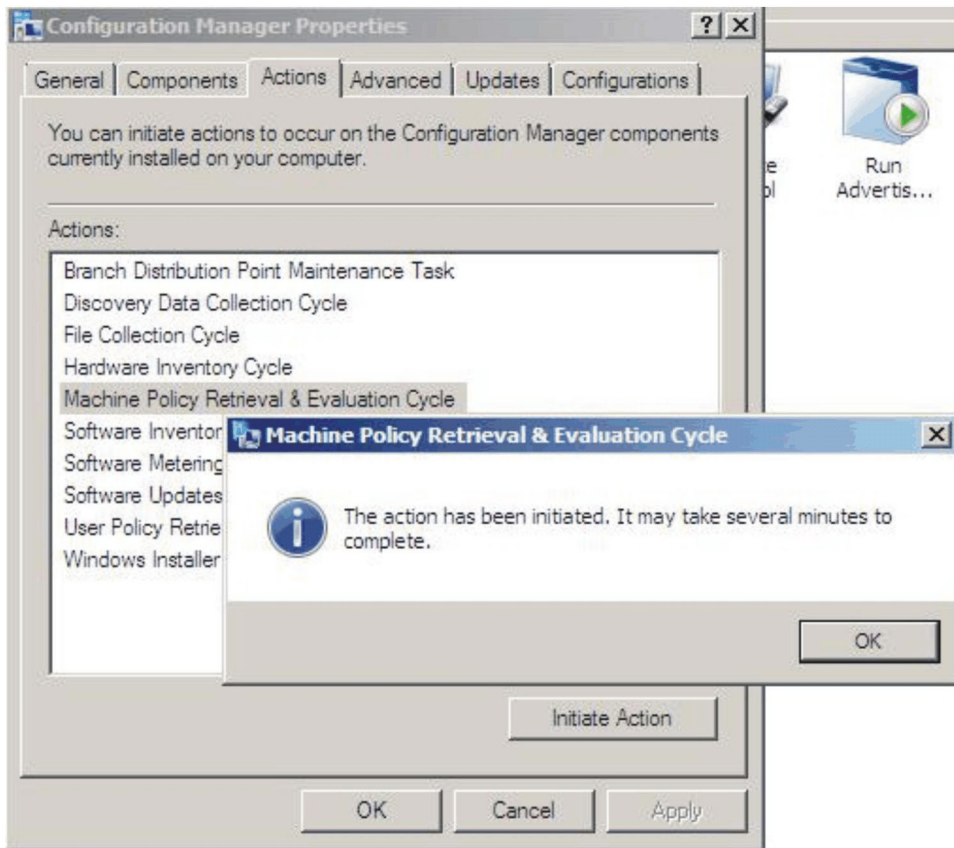


Figure 95. Action Initiated window

4. After a few minutes, the baseline will be displayed beneath the **Configurations** tab. If it is not displayed, click **Refresh**.

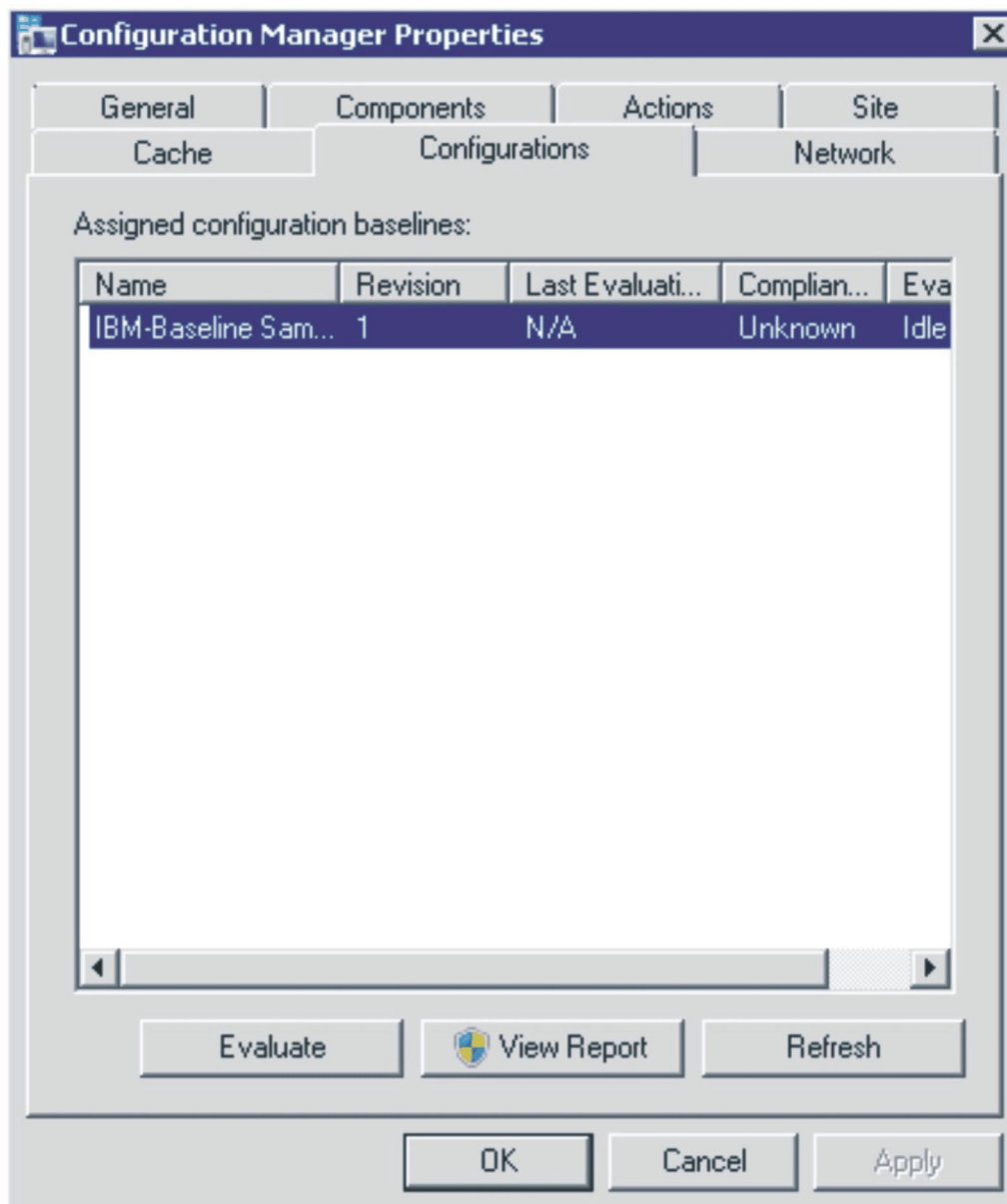


Figure 96. Configurations tab

5. Select the baseline, and click **Evaluate**. After a few minutes, the **Evaluate** button will become available. Select the baseline, and click **View Report** to review the report.

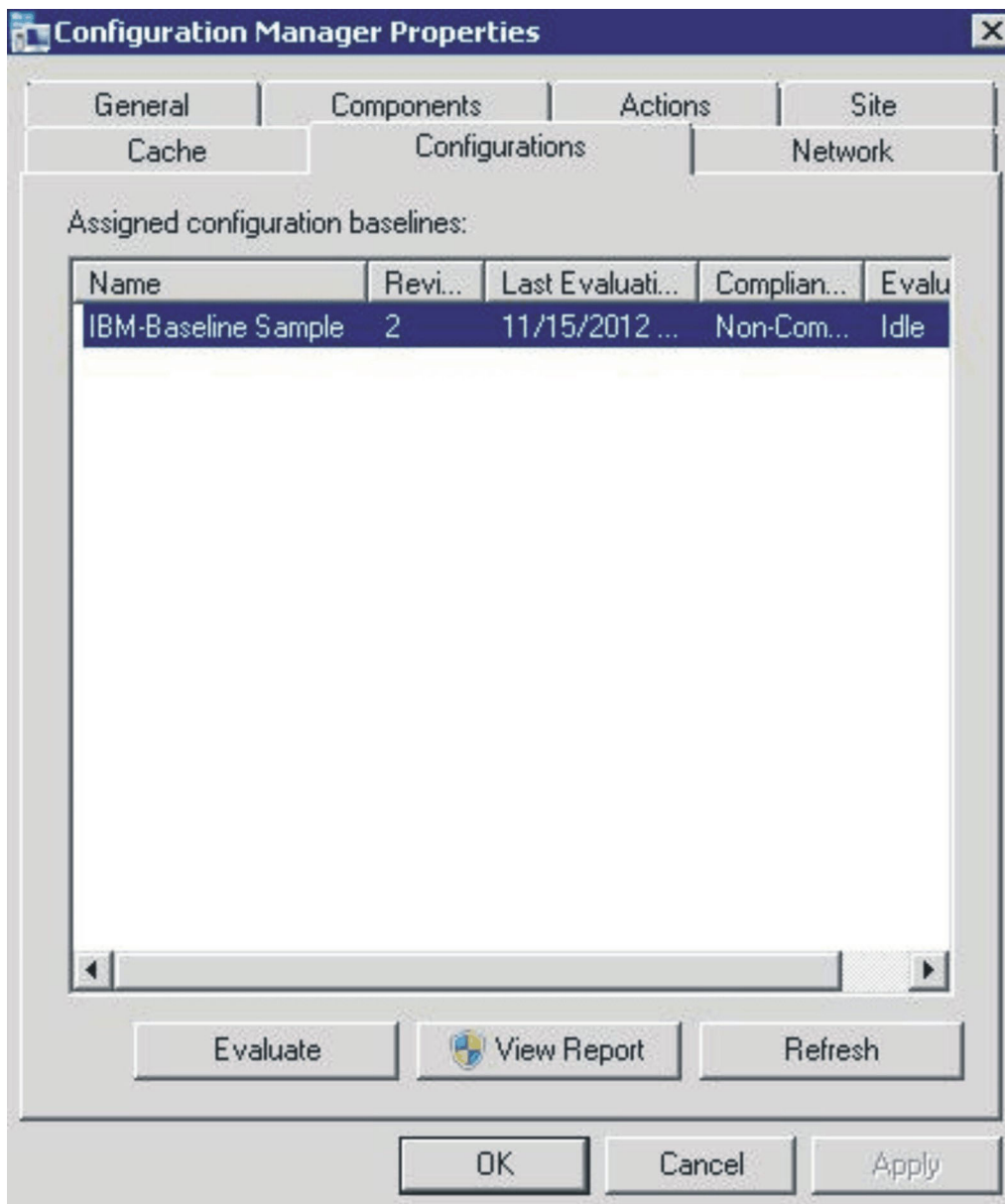


Figure 97. Configurations tab with View Report button available

Evaluation Report View

There are some situations where script does not return a value for the evaluated setting.

- The endpoint does not have the IMM module.
- The endpoint has the IMM module, but the evaluated setting cannot be found on the endpoint.
- An incorrect user ID and password were used to connect to the IMM module.
- The ASU.exe file version is not v3.60 or later.
- The evaluation timed out (5 mins). SCCM sets the time limit.

Note: If the evaluated setting does not return a value, the SCCM Client agent deems the setting as non-compliant on the endpoint, and it ranks the severity level as Information. The evaluation report cannot specify the causes; to determine the cause, you must review the logs in the Windows Event Viewer for details. (See

Figure 2 for example logs.)

Summary:

Name	Revision	Type	Baseline Policy	Compliance State	Non-Compliance Severity	Discovery Failures	Non-Compliant Rules	Remediated Rules	Conflicting Rules
Test	1	Baseline		Non-Compliant	Information	0	5	3	0
Test	1	Application Configuration	Required	Non-Compliant	Information	0	5	3	0

Figure 98. Summary of evaluated results

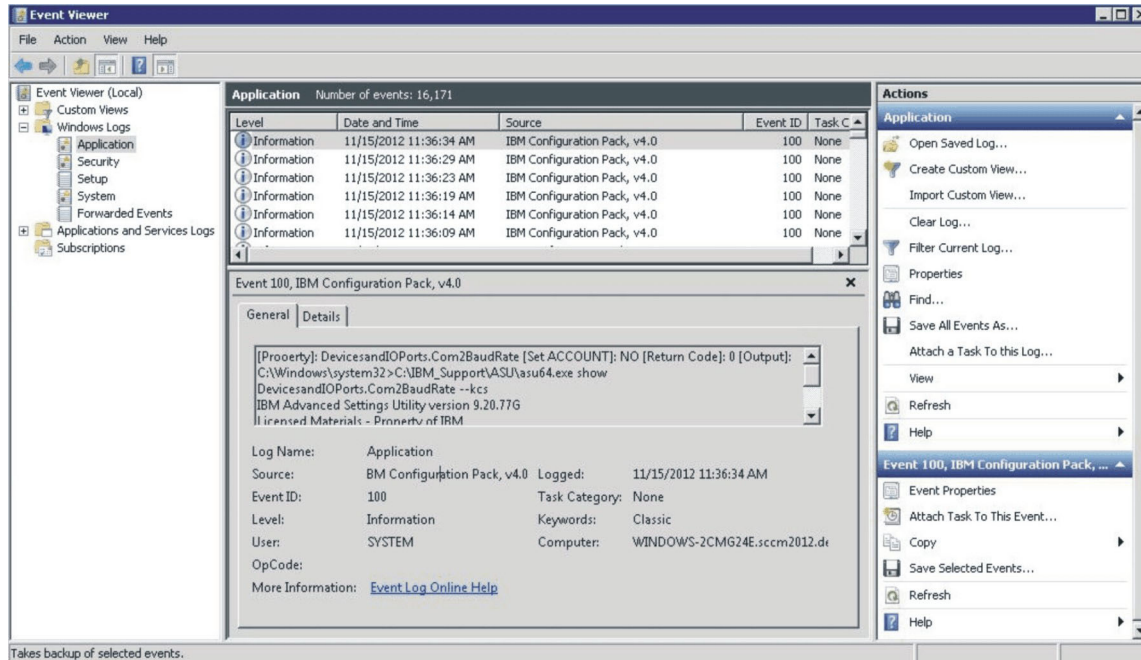


Figure 99. Windows Event Viewer logs

Figure 3 shows how to view the DCM log.

Remediated Rules:

Remediated Rule:

Rule Name	Rule Description	Setting Name	Setting Type	Setting Description	Instance Data			
rule	Description	IMM.AccountSecurity	Script	Configure the IMM Global Login Setting "Account security level." Select the authority level associated with this login id.	Expression	Instance Source	Previous Value	Remediated Value
					Equals High security settings	Property = Line[0]	Legacy security settings	High security settings

Remediated Rule:

Rule Name	Rule Description	Setting Name	Setting Type	Setting Description	Instance Data			
rule	Description	IMM.DefPasswordExp	Script	Configure the IMM Global Login Setting "Default Password Expired". To configure this setting, "Custom security settings" must be selected as the AccountSecurity level. Specify whether or not the default password is expired on the next login.	Expression	Instance Source	Previous Value	Remediated Value
					Equals Enabled	Property = Line[0]	Disabled	Enabled

Figure 100. Remediated Rules

Running IBM Configuration Capture

About this task

IBM Configuration Capture can capture IMM, UEFI and UEFI (Romley Platform) settings from an IBM server, and export those captured settings into a Configuration Description .xml file. To start IBM Configuration Capture, click the **IBM Configuration Capture** shortcut from the **Start** Menu. IBM Configuration Capture can also be launched on computers that do not have IBM Configuration Pack installed by copying the IBM Configuration Capture.exe file onto those computers.

Note: You can launch IBM Configuration Capture.exe without activating the License Entitlement.

Procedure

1. Launch the IBM Configuration Capture Wizard by clicking on the .exe file. The Welcome page opens.

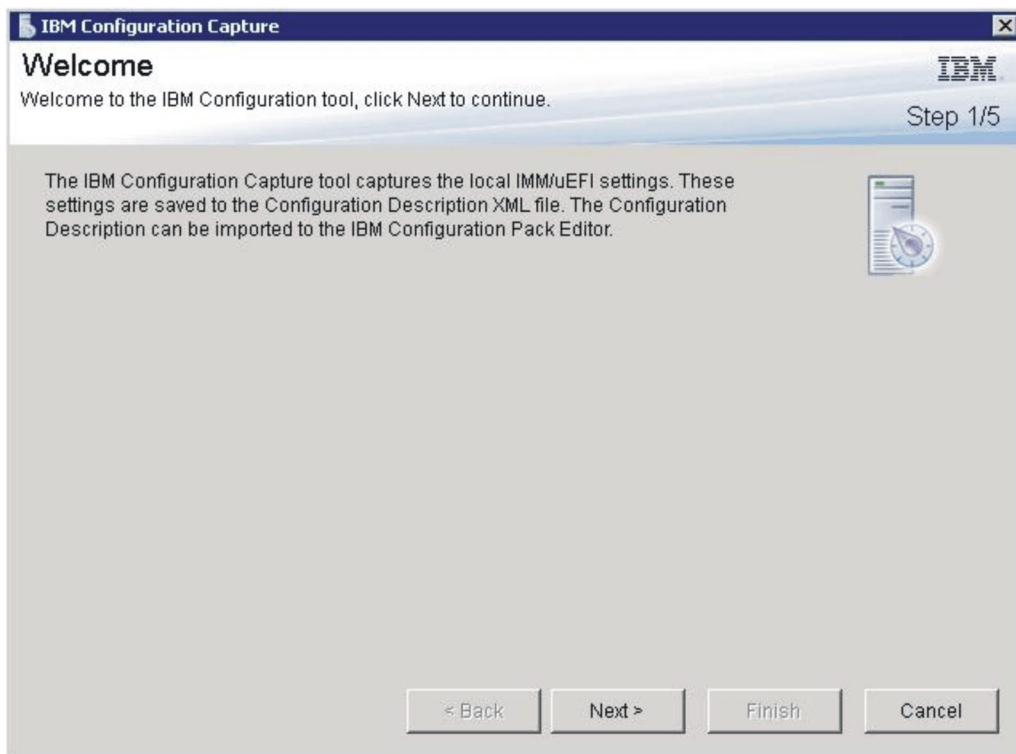


Figure 101. Welcome page

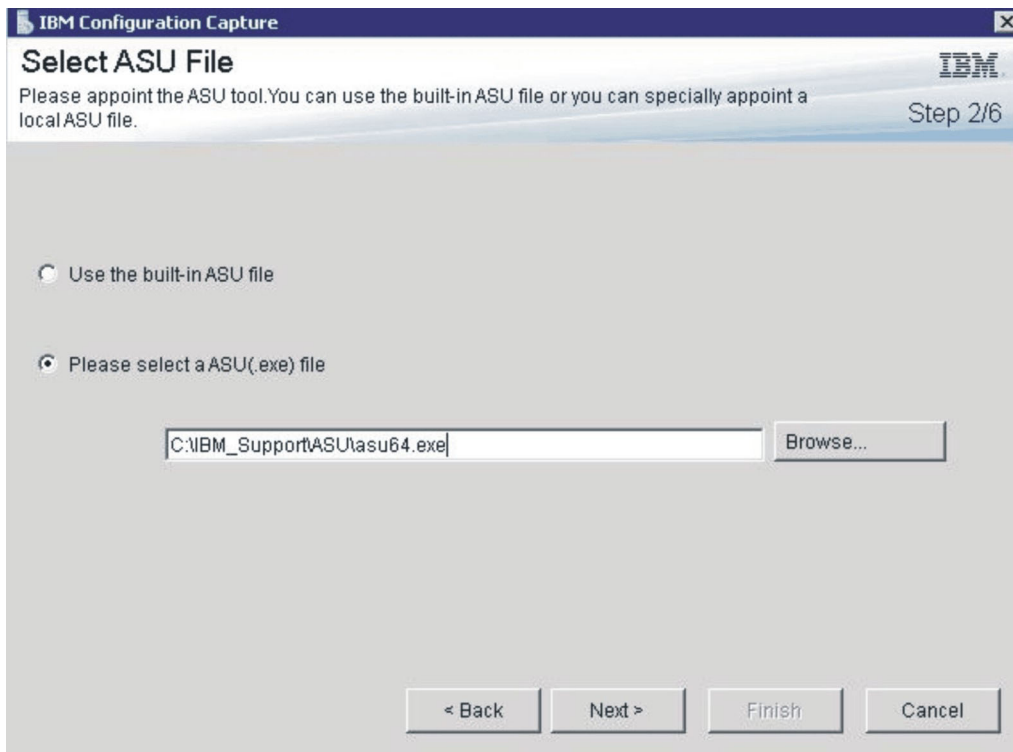


Figure 102. Select ASU File

2. Click the **Next** button to display the General Information page. This page automatically collects information from the local computer.

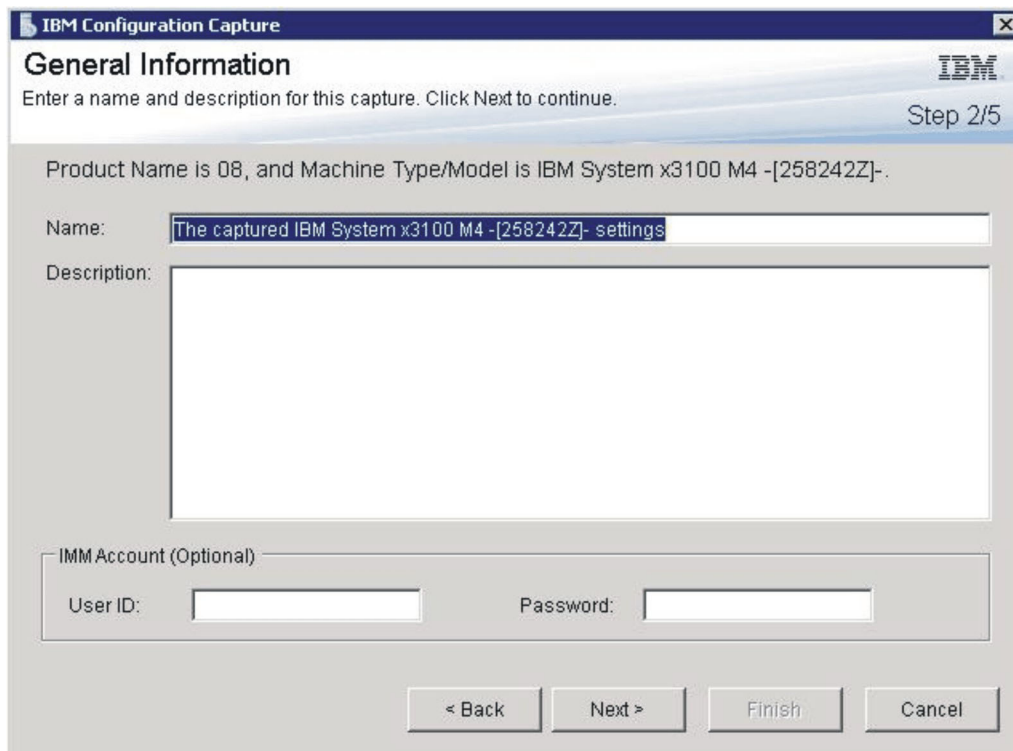


Figure 103. General Information page

3. Click the **Next** button in the General Information page. IBM Configuration Capture starts collecting the local computer's IMM/UEFI/UEFI (Romley Platform) settings.

IBM Configuration Capture

General Information

Enter a name and description for this capture. Click Next to continue.

Step 3/6

Product Name is 7.0, and Machine Type/Model is Virtual Machine.

Name:

Description:

Collecting information from local computer, please wait...

Figure 104. Collecting information

4. After a few minutes, IBM Configuration Capture completes collecting the settings. The Select Settings page opens, which lists the captured settings. From here you can select any settings that you want to export.

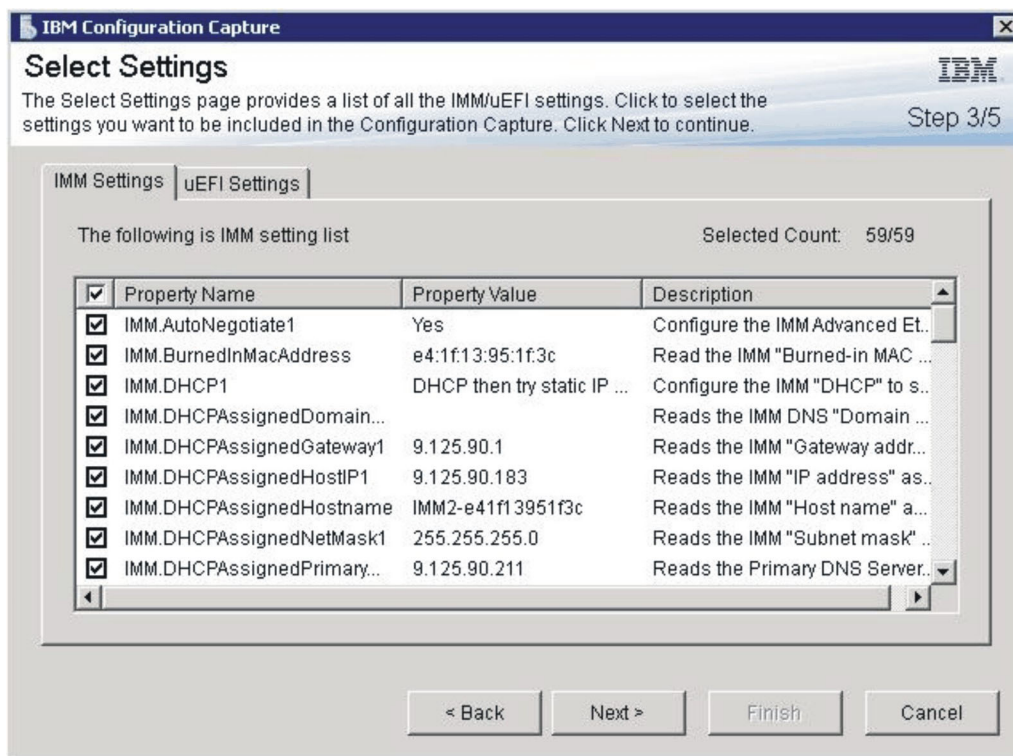


Figure 105. IMM settings

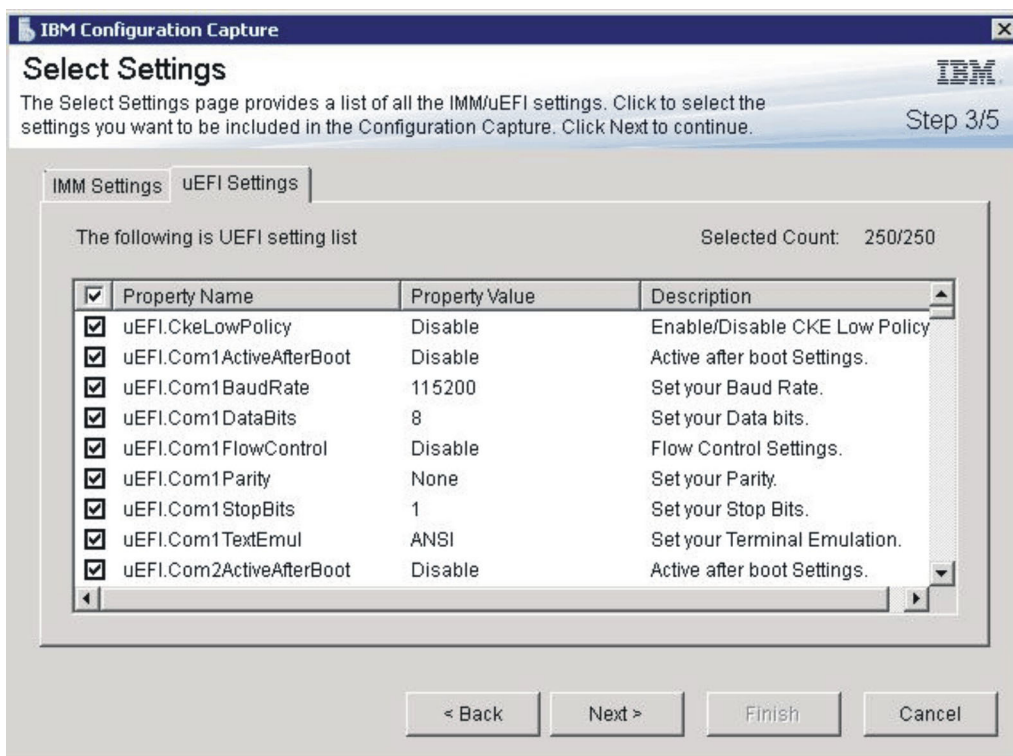


Figure 106. uEFI settings

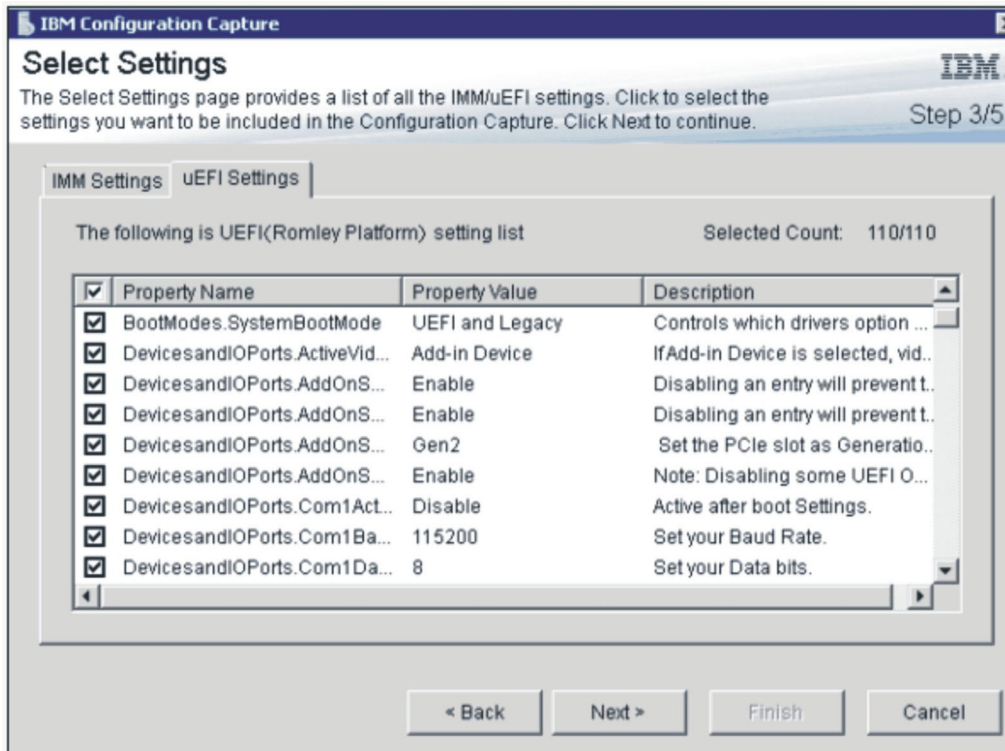


Figure 107. UEFI (Romley Platform) settings

Note: The capture can fail when the local computer does not have an IMM, UEFI, or UEFI (Romley Platform) module, or if the IMM Account is incorrect. When the capture fails, you can click the **Information** link button for details.

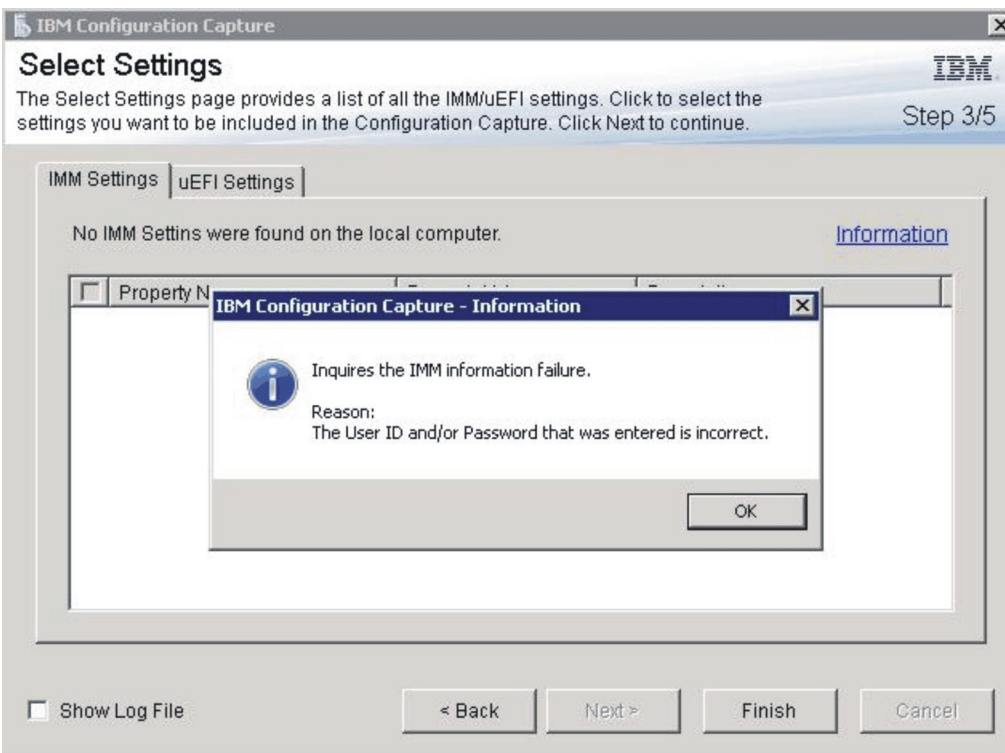


Figure 108. Incorrect IMM account is incorrect

5. Select the settings that you want from the Select Settings page, and click the **Next** button. The Export page lists settings that you can export to a Configuration Description .xml file.

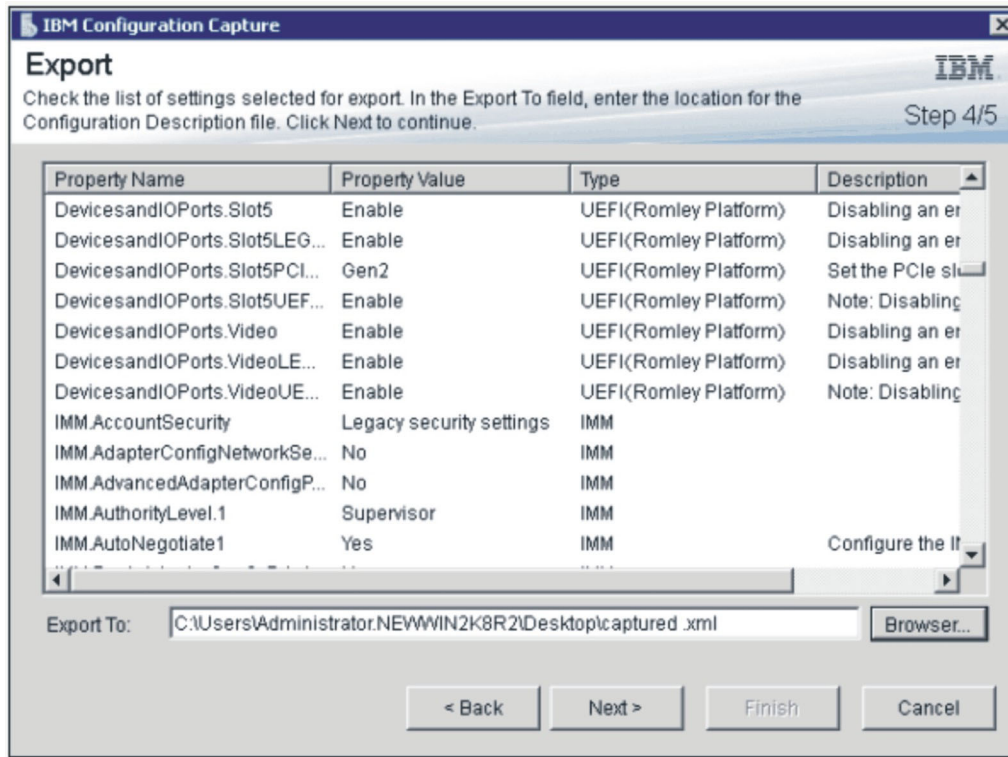


Figure 109. Export Page

6. Click **Next**. The Export Successfully Completed window opens.

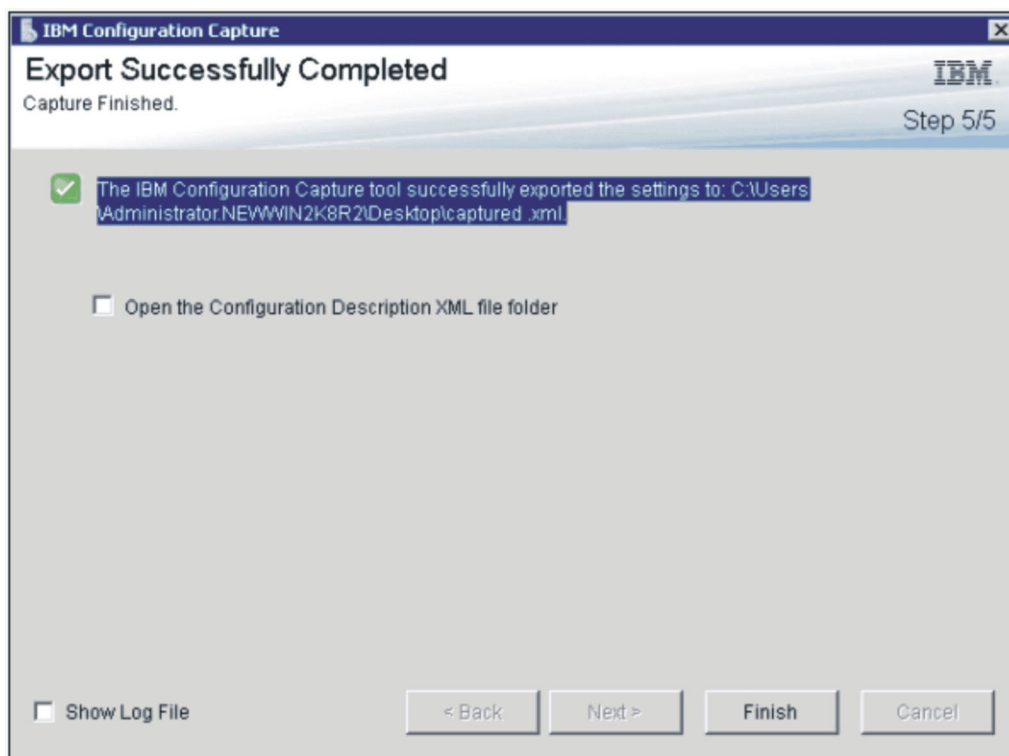


Figure 110. Export Successfully Completed

Note: You can export the captured Configuration Description file into any IBM Configuration Pack Editor to manage. For details see “Creating a configuration item” on page 21.

Chapter 4. Hardware and software support

The topics in this section describe the hardware and software that is supported by IBM Configuration Pack for Microsoft System Center Configuration Manager, v5.0.

Supported Microsoft System Center products

The IBM Configuration Pack for Microsoft System Center Configuration Manager, 5.0 solution supports the following Microsoft System Center products:

- Microsoft System Center Configuration Manager 2007 R2
- Microsoft System Center Configuration Manager 2007 SP2
- Microsoft System Center Configuration Manager 2012
- Microsoft System Center Configuration Manager 2012 SP1
- Microsoft System Center Configuration Manager 2012 R2

Supported client systems

IBM Configuration Pack for Microsoft System Center Configuration Manager supports the following client systems:

Table 2. Supported systems

Product family name	Machine type
System x3630 M4	7158
BladeCenter HS23E	8038,8039
BladeCenter HS22V	7871,1949
BladeCenter HS22	7870,1936,7809,1910
BladeCenter HS23	7875
System x3850 X6	3837
System x3550 M2	7946,4198
System x3550 M3	7944,4254
System x3550 M4	7914
System x3200 M2	4367,4368
System x3200 M3	7327,7328
System x3620 M3	7376
System x3630 M3	7377
System x3250 M4	2583
System x3100 M4	2582
System x3250 M3	4251,4252,4261
System x3250 M2	7657,4190,4191,4190
System 3630 M4	7158
Flex System x222 Compute Node	7916
Flex System x440 Compute Node	7917
Flex System x220 Compute Node	7906,2585
Flex System x240 Compute Node	8737

Table 2. Supported systems (continued)

Product family name	Machine type
NeXtScale Node	5455
System x® iDataPlex® dx360 M2 server	7321,6380,7323
System x iDataPlex dx360 M3	6391
System x3650 M4	7915
System x3650 M4 HD	5460
System x3650 M2	7947,4199
System x3650 M3	7945,4255,5454
System x3530 M4	7160
System x3500 M4	7383
System x3300 M4	7382
System x3500 M2	7839
System x3500 M3	7380
System x3400 M2	7836,7837
System x3400 M3	7378,7379
System x3750 M4	8752
System x3250 M5	5458
System x3650 M4 BD	5466

Supported operating systems for client machines

IBM Configuration Pack for Microsoft System Center Configuration Manager supports the following operating systems:

- Windows Server 2003 SP2/R2
- Windows Server 2003 SP2/R2 x64
- Windows Server 2008 SP1/SP2
- Windows Server 2008 SP1/SP2 x64
- Windows Server 2008 SP1/R2
- Windows Server 2012 R2

Chapter 5. Troubleshooting

- If you experience any issues when using IBM Configuration Pack Editor, you can check the log information in the `InstallationFolder\logs` folder. The logs folder will be automatically deleted when the product is uninstalled.
- If you want to export the evaluation logs for IBM Configuration Pack on the endpoint, follow these steps:
 1. After the evaluation, launch Event Viewer.
 2. Expand the **Windows Logs** tree view.
 3. Right click the **Application** node, and click **Save Events as**.

You can also use the following methods to check whether the property exists and the IMM account is correct:

- Get the specific IMM/uEFI property by typing the following command:

asu.exe show *propertyname*

For example, **asu.exe show IMM.HTTPPort**

- Get the specific IMM/uEFI property with the account by typing the following command:

asu.exe show *propertyname* **--user** *UserID* **--password** *Password*

For example, **asu.exe show IMM.HTTPPort --user admin --password esW2Ad**

- In the Evaluation Report View section, if the script cannot get the evaluated setting, it does not return a value, and the SCCM Client agent deems the evaluated setting to be non-compliant. You can get the details about this evaluated setting from application logs in Windows. The following are terms used in the application log and their explanations:

[Not Found ASU]

The ASU.exe file was not found in the specified location.

[TargetOS]

The version of the current operating system: either 64-bit or 32-bit.

[Found ASU]

The location of the ASU.exe file.

[Property]

The name of the evaluated property.

[Set ACCOUNT]

Reflects whether users set IMM account in IBM Configuration Pack Editor.

[TimeOut]

Indicates whether the evaluation has timed out.

[Return Code]

The return code for the ASU.exe file. If the evaluated setting can be found, the return code is 0. Otherwise, the return code is larger than 0. For more details about ASU return codes, refer to the following web page: <http://www-947.ibm.com/support/entry/portal/docdisplay?lnocid=TOOL-ASU>

[Error Output]

If the evaluated setting is not found, this code records the reason for the failure.

[Output]

If the evaluated setting is found, this code records the ASU.exe file search result.

- IBM Configuration Capture records a log file in the IBM_Support\DCM\logs folder of the System Driver during the launching process. For example, if your system driver is C:, then the log file is recorded under the C:\IBM_Support\DMC\logs\ folder.
- IBM Configuration Capture can capture all IMM/UEFI/UEFI (Romley Platform) settings from the IBM Server, but some captured settings may not be included in the common setting list of the IBM Configuration Pack Editor. The IBM Configuration Pack Editor cannot list the values of those settings after they are imported; the Editor assumes the type for those settings is String type.

IBM Configuration Pack Editor - Setting Editor

Select the property that you wish to monitor for compliance. If the property list does not include the desired property, type it in the Property Name field.

Property Name: IMM.DuplexAutoDisable

Description:

Comparator: Equals Value: Auto

Severity: Information

☐ Remediate noncompliant IMM/UEFI setting values on client automatically. The remediation action may be failed if the target setting is readonly.

Expected Value: Auto

When the property "IMM.DuplexAutoDisable" "Equals" "Auto", the property is compliant on the endpoint. Otherwise, the property is non-compliant and returns a severity of "Information".

OK Cancel Apply

Figure 111. IBM Configuration Pack Editor - Setting Editor page

In Figure 111, the IMM.DuplexAutoDisable property is not in the common setting list of the IBM Configuration Pack Editor, so the **Description** and **Expected Value** fields are empty. The IBM Configuration Pack Editor assumes that the type for the IMM.DuplexAutoDisable property is String. For details about the different types, see Table 1 on page 12.

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