

AIX Profile Manager V1.1.0



# AIX Profile Manager for IBM Systems Director



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# AIX Profile Manager for IBM Systems Director

**Note**

Before using this information and the product it supports, read the information in "Notices" on page 23.

**First Edition (September 2010)**

This edition applies to AIX Profile Manager Version 1.1 and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About this document

AIX® Profile Manager for IBM® Systems Director is a program that manages the runtime properties of AIX systems.

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## Highlighting

The following highlighting conventions are used in this book:

<b>Bold</b>	Identifies commands, subroutines, keywords, files, structures, directories, and other items whose names are predefined by the system. Also identifies graphical objects such as buttons, labels, and icons that the user selects.
<i>Italics</i>	Identifies parameters whose actual names or values are to be supplied by the user.
Monospace	Identifies examples of specific data values, examples of text similar to what you might see displayed, examples of portions of program code similar to what you might write as a programmer, messages from the system, or information you should actually type.

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## Case-sensitivity in AIX

Everything in the AIX operating system is case-sensitive, which means that it distinguishes between uppercase and lowercase letters. For example, you can use the **ls** command to list files. If you type **LS**, the system responds that the command is not found. Likewise, **FILEA**, **FiLea**, and **filea** are three distinct file names, even if they reside in the same directory. To avoid causing undesirable actions to be performed, always ensure that you use the correct case.

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## ISO 9000

ISO 9000 registered quality systems were used in the development and manufacturing of this product.





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# AIX Profile Manager

System administrators and users can learn how to manage the runtime properties of the system.

The AIX Profile Manager is a program that interrogates and affects all configuration layers of many AIX instances. There are tools in such domains as reliability, availability, serviceability, security, or kernel, that are used to change settings within each component layer in order to tune the operating system to a particular need or requirement.

To view or download the PDF version of this topic, select AIX Profile Manager for IBM Systems Director.

**Downloading Adobe Reader:** You need Adobe Reader installed on your system to view or print this PDF. You can download a free copy from the Adobe website ([www.adobe.com/products/acrobat/readstep.html](http://www.adobe.com/products/acrobat/readstep.html)).

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## Overview of AIX Profile Manager

This section provides an overview of AIX Profile Manager, including accessibility and description of the AIX Profile Manager components.

AIX Profile Manager is a program that manages the configuration of multiple remote AIX systems. AIX Profile Manager for IBM Systems Director uses various configuration methods to know the configuration of each system, to compare configurations between systems, and to set multiple systems to the same configuration.

## Accessibility features for AIX Profile Manager

Accessibility features help users who have a disability, such as restricted mobility or limited vision, to use information technology products successfully.

### Accessibility features

The AIX Profile Manager plug-in for IBM Systems Director supports the accessibility features that are supported in IBM Systems Director.

The IBM Systems Director Information Center and its related publications are accessibility-enabled. For additional information about the accessibility features of the information center, select **Viewing information in the information center** → **Accessibility and keyboard shortcuts in the information center**.

## AIX Profile Manager components

The AIX Profile Manager plug-in manages AIX systems configurations through profiles. The topic provides an overview on profiles and AIX Profile Manager flags. It also provides information about how to use the profiles.

### Understanding profiles

A profile is an XML-formatted file that contains a set of runtime properties for a given domain of activity, such as a user or TCP/IP. A profile contains a set of parameters with optional flags and values.

Parameters represent runtime controls that are used on AIX systems:

- Tunables (for example, `kernel_heap_size`)
- Configuration files (for example, `/etc/inetd.conf`)

- Environment variables (for example, PATH)

Parameters are added into the profiles according to their domain of activity. See AIX Runtime Expert profiles for more information about profiles. Profiles cannot be created manually. They rely on catalogs residing on the AIX systems you are monitoring that contain all the information needed to process operations on those profiles. Profiles can be imported on your IBM Systems Director plug-in (see the topic “Importing profiles to AIX Profile Manager” on page 6). The imported profiles cannot be edited.

**Note:** Only the system administrator is allowed to modify the values of a profile. The AIX Profile Manager plug-in does not allow you to set the values of the parameters in the profile. After a system runs in a satisfying manner, its configuration can be collected and kept as reference in a readable, standard XML-formatted profile. Several sets of profiles with the same parameters can be set to different values for different purposes.

To understand the meaning of the flags that appear in profiles, see “AIX Profile Manager flags.”

## AIX Profile Manager flags

This section provides information about the flags that can appear in a profile.

The possible values for flags are as follows:

- **apply\_type:** The value that is retrieved for a parameter is the current or the nextboot value, that is, the value that the parameter has after the system is rebooted. By default, a parameter has the apply type *running*.
- **read-only:** A profile with the read-only flag cannot be used to create a template. A parameter that is read-only is used when retrieving the value of the profile, but is skipped when deploying or comparing the profile.
- **reboot:** A parameter with this flag (associated with the flag `apply_type=nextboot`) needs the system to be rebooted before its value can be changed.

### How to use profiles:

Profiles are used to deploy configurations on your managed systems, to check your systems compliance to the profiles that you have already deployed, to compare the configuration of systems to a reference profile or to retrieve the values of a profile on a system's running configuration.

To use AIX Profile Manager on a managed system, you must do the following:

- Import profiles on your IBM Systems Director Server (see the topic “Importing profiles to AIX Profile Manager” on page 6)
- Create templates from profiles (see the topic, Creating templates)
- Deploy template on managed systems (see the topic Deploying configuration templates)

After a template is deployed on a system, its configuration status is computed relative to its conformity to the template. This conformity is measured by performing a comparison operation between a reference profile (the profile linked to the last deployed template on the system) and the running configuration of the system. The result of the comparison determines the configuration status of the system.

If there are no errors returned for the comparison operation, use the system for other operations. The other operations include retrieving values for other profiles on the running configuration of the system, performing configuration comparisons, or redeploying the same template.

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## Planning for AIX Profile Manager

Planning involves understanding the hardware and software requirements for AIX Profile Manager.

Before using AIX Profile Manager, you must ensure that you have profiles that respond to your needs prepared by a system configuration expert. See the “Understanding profiles” on page 1 topic for more information.

## Hardware and software requirements

IBM Systems Director AIX Profile Manager is installed on systems running IBM Systems Director Server version 6.2. This topic describes hardware and software requirements that are unique to IBM Systems Director AIX Profile Manager.

For detailed information about the hardware and software requirements for IBM Systems Director, see Hardware and software requirements for IBM Systems Director.

## Supported IBM systems

IBM Systems Director AIX Profile Manager is supported on all IBM systems that are supported by IBM Systems Director Server version 6.2. For detailed information about the systems supported by IBM Systems Director Server, see Supported IBM systems and products.

## Supported operating systems

IBM Systems Director AIX Profile Manager is supported on all operating systems that are supported by IBM Systems Director Server version 6.2. For specific versions of these operating systems supported by IBM Systems Director Server, see Operating systems supported by IBM Systems Director 6.2.

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## Installing and uninstalling

You can install the AIX Profile Manager plug-in on IBM Systems Director management servers running AIX, Linux, or Windows.

The AIX Profile Manager subagent is installed by default on all AIX systems, beginning with AIX Version 6.1 with the 6100-06 Technology Level.

## Installing the AIX Profile Manager plug-in

You must install the AIX Profile Manager plug-in on the same system as the IBM Systems Director 6.2 server is installed.

- Ensure that you have the required authority to complete the installation.
  - For the Windows operating system, administrator authority is required.
  - For the AIX or Linux operating systems, root authority is required.
- Ensure that the target system satisfies all IBM Systems Director AIX Profile Manager specific prerequisites specified in “Hardware and software requirements.”

Complete the following steps to install the AIX Profile Manager plug-in:

1. Log in to the system with the required authority level.
2. Insert the media that contains the AIX Profile Manager into the media drive. On the AIX or Linux operating system, you can mount the media on the media drive by using the following command (where /mnt is the mount point for your media drive).

```
/usr/sbin/mount -v cdrfs -p -r /dev/cd0 /mnt
```

Ensure that the PATH variable includes a path to Java SE 6. For example, export PATH=\$PATH:/opt/ibm/director/jre/bin
3. Start the installation by running the following command to install AIX Profile Manager plug-in from the directory that contains the installer:
  - For the AIX or Linux operating system: APMgrSetup.sh

- For the Windows operating system: APMgrSetup.exe

**Important:** You should not edit the install script as it is a binary format.

Use the `-?` option to display the command usage.

By default, the installation uses the GUI mode on the Windows operating system and the console mode on the AIX and Linux operating systems.

Use one of the following `-i` console options to set the install mode or set the `INSTALLER_UI` variable in the `installer.properties` file accordingly:

- `-i swing` for GUI mode
- `-i console` for non-graphical, interactive mode
- `-i silent` for non-graphical, non-interactive mode

For silent mode, you must use `LICENSE_ACCEPTED=true` in the `installer.properties` file.

Restart the IBM Systems Director server to activate AIX Profile Manager plug-in. By default, the IBM Systems Director server does not restart after you install AIX Profile Manager. To automatically restart IBM Systems Director Server, set `RESTART_DIRECTOR=true` in the `installer.properties` file.

If a properties file named either `installer.properties` or `APMgrSetup.properties` resides in the same directory as the installer, the properties file is automatically used, overriding all other command line options. This properties file is used unless the `-f` option is used to point to another valid properties file.

On AIX and Linux operating systems, you need to ensure that the `DISPLAY` variable is set correctly to point to a graphical display. This must be done for GUI, console, and silent modes. If the current setting is not valid, use the `unset` command for the console and silent mode. For example:

```
# echo $DISPLAY
unix:0.0
# unset DISPLAY
```

The AIX Profile Manager plug-in is installed in the `/opt/ibm/director/ProfileManager` directory.

You can find the installation log at `/opt/ibm/director/ProfileManager/APMInstall.log`.

## Uninstalling AIX Profile Manager

You can remove AIX Profile Manager from your system by using IBM Systems Director.

To remove AIX Profile Manager from your system by using IBM Systems Director.

1. Log in as an administrator user to the system where AIX Profile Manager is installed.
2. Run the following command:

```
<Director_install_location>/ProfileManager/uninstall/Uninstall
```

---

## Accessing AIX Profile Manager

Use this topic to get started using AIX Profile Manager. AIX Profile Manager performs configuration operations based on profiles on systems. To do this, you need to add profiles and systems to your AIX Profile Manager resources.

## Logging in to IBM Systems Director

To access AIX Profile Manager, you must log in to IBM Systems Director.

To log in to IBM Systems Director, complete the following steps:

1. Go to browser to the following URL:  
`http://System_Name:Port_Number/ibm/console`

where *System\_Name* is the name of the system on which IBM Systems Director Server is installed and *Port\_Number* is the first (lower) of two consecutive port numbers that you specified for the Web server to use. The default ports for the Web server are **8421** and **8422**. If you use port 8422, make sure that you specify `https` to indicate a secure port.

2. Type the user ID and password that correspond to an authorized IBM Systems Director administrator user ID and password.
3. Click **Log in**.

**Notes:**

- a. For optimal performance, it is required that no more than 30 users log on to IBM System Director Server at one time.
- b. If you do not actively use the IBM Systems Director web interface for 30 minutes, the automatic-timeout feature logs out your user ID from IBM Systems Director Server.

## Adding managed resources to AIX Profile Manager

You can add systems and profiles to manage in AIX Profile Manager by adding these systems and profiles through IBM Systems Director.

### Related concepts

“Using AIX Profile Manager” on page 7

Use this section to get started with AIX Profile Manager after you have added profiles and discovered systems managed by AIX Profile Manager.

## Discovering AIX Profile Manager-capable systems

A system is said to be managed by AIX Profile Manager if AIX Runtime Expert is installed on it and the director agents such as Common Agent Service (CAS) are running. AIX Runtime Expert (artex file set) is installed by default on all the AIX systems, beginning with 6100-06 releases.

Discovery is the process by which IBM Systems Director Server identifies and establishes connections with network-level resources, such as AIX systems, that IBM Systems Director can manage.

There are two tasks that you can use to discover your resources:

### System discovery

Use this task if you want to discover systems at a specific network address or range of addresses. To use system discovery, see *Performing a system discovery in the IBM Systems Director Information Center*.

### Advanced system discovery

Use this task if you want to schedule a discovery task. You can also use this task if you want to specify credentials during the discovery process. To use advanced system discovery, see *Discovering systems with advanced system discovery in the IBM Systems Director Information Center*.

After discovering the resource, in most cases it is necessary to request access to the system and provide valid credentials. These credentials are usually a user ID and password. After a system has been discovered, you must collect its software inventory to make sure the product file sets and the CAS subagent are installed and running. To perform the inventory collection, see *Collecting inventory*.

After the inventory collection, if the product and AIX Runtime Expert (agent file sets) are found, the system is automatically added to the AIX Profile Manager dynamic group.

## Related concepts

“Managing systems” on page 12

The summary page of the AIX Profile Manager displays the configuration status of all systems that are managed by AIX Profile Manager systems and are discovered on your server.

## Importing profiles to AIX Profile Manager

Ensure that you import only those profiles that have been calibrated to your specific needs, reviewed, and validated by an AIX runtime expert person.

To import profiles, follow these steps:

1. Log in to IBM Systems Director.
2. On the Welcome page, click **Manage** → **AIX Profile Manager**.
3. On the AIX Profile Manager summary page, click **View and manage profiles** in the **Common Tasks** part of the Configuration Status section.
4. On the Profiles view page, click **Import**. The Import an AIX Profile Manager profile window opens that enables you to import profiles in one of the three following ways:

## Related concepts

“Managing profiles” on page 10

Use this section to manage the profiles that are used in AIX Profile Manager.

## Related information

“Creating templates” on page 8

An AIX Profile Manager template consists of a profile and the options used to deploy it.

## Importing profiles from your local file system:

This is default.

To import AIX Profile Manager profiles from your local file system, perform the following steps:

1. Log in to IBM Systems Director.
2. On the Welcome page, click **Manage** → **AIX Profile Manager**.
3. On the AIX Profile Manager summary page, click **View and manage profiles** in the **Common Tasks** part of the Configuration Status section.
4. On the Profiles view page, click **Import**. The Import an AIX Profile Manager profile window opens.
5. Click **Browse** to select a file on your file system. This file must be a valid AIX Profile Manager profile.
6. Optional: Change the name under which your profile will be known to the AIX Profile Manager plug-in. The name of the imported profile must not already exist on your IBM Systems Director server.
7. Click **OK**.

## Import profiles from a remote system:

This option is accessible only if there are systems that are managed by AIX Profile Manager and that are discovered on your IBM Systems Director server.

To import profiles from a remote system, perform the following steps:

1. Log in to IBM Systems Director.
2. On the Welcome page, click **Manage** → **AIX Profile Manager**.
3. On the AIX Profile Manager summary page, click **View and manage profiles** in the **Common Tasks** part of the Configuration Status section.
4. On the Profiles view page, click **Import**. The Import an AIX Profile Manager profile window appears.



5. Select **Import from a system**.
6. Select from the System list the system you want to import profiles from and click **OK**. The list contains systems that are managed by AIX Profile Manager discovered on your IBM Systems Director server.
7. Change the location in the Directory field to the location where the profiles you want to import reside. The **Directory** field was prefilled with the location of the sample profiles. Note that the sample profiles available on systems managed by AIX Profile Manager do not include any values and thus cannot be used to create a template.
8. Use the context selection menu to select the profiles you want to import. The profiles must not already exist under the same name on your IBM Systems Director server.
9. Optional: Select **Merge profiles** to import all the profiles that you selected to only one profile. Then enter the name under which the resulting merged profile is saved on your IBM Systems Director server. The name of the imported profile must not already exist on your IBM Systems Director server.
10. Click **OK**.

### Import Profiles from an LDAP Server:

This option is accessible only if there are systems that are managed by AIX Profile Manager and that are discovered on your IBM Systems Director server.

To import profiles from an LDAP server, perform the following steps:

1. Log in to IBM Systems Director.
2. On the Welcome page, click **Manage** → **AIX Profile Manager**.
3. On the AIX Profile Manager summary page, click **View and manage profiles** in the **Common Tasks** part of the Configuration Status section.
4. On the Profiles view page, click **Import**. The Import an AIX Profile Manager profile window opens.
5. Select **Import from LDAP**.
6. Enter the data for your LDAP repository in the following fields:
  - **LDAP system name:** The name of your LDAP server system
  - **Port:** The number of the port used by the LDAP server (389 is the default port for LDAP)
  - **Login:** The login name to log on to the server (for example, a common name such as cn=admin)
  - **Password:** The password associated with the loginOptional: Click **Check connection**. If the parameters for the fields are correct, then a blue box appears with the message The verification succeeded.
7. Click **OK**.
8. Enter the location where the imported profiles will reside on the LDAP repository in the **Base DN** field. This field is prefilled with the location "ou=artex,cn=AIXDATA".
9. Use the context chooser menu to select the profiles that you want to import. The profiles must not already exist under the same name on your IBM Systems Director server.
10. Click **OK**.

---

## Using AIX Profile Manager

Use this section to get started with AIX Profile Manager after you have added profiles and discovered systems managed by AIX Profile Manager.

Every step described in this section can be reached from the AIX Profile Manager summary page. To go to AIX Profile Manager summary page, click AIX Profile Manager on the **Manage** tab of the Welcome page of IBM Systems Director.

## Related tasks

“Adding managed resources to AIX Profile Manager” on page 5

You can add systems and profiles to manage in AIX Profile Manager by adding these systems and profiles through IBM Systems Director.

## Related information

Configuration template

## Managing templates

Use this section to create AIX Profile Manager templates and to deploy them to other systems.

From the AIX Profile Manager summary page, click **View and manage templates** in the Common Tasks part of the Configuration Status section.

The Configuration templates page, which is part of the IBM Systems Director Configuration Manager plug-in, is displayed. This page displays the templates. To find the AIX Profile Manager templates, look for the templates displaying "AIX Profile Manager" in the Configuration setting column. For more information on templates, see the Configuration templates topic.

## Creating templates

An AIX Profile Manager template consists of a profile and the options used to deploy it.

To create an AIX Profile Manager template from the Configuration template page, perform the following steps:

1. Click **Create**. Alternatively, select an existing AIX Profile Manager template and click **Create Like**.
2. A **Create** window opens. Select an operating system from the **Template type** drop-down list. The field **Configuration to create template** is automatically set to AIX Profile Manager.
3. Enter the name of the template. This name must be unique in your IBM Systems Director server.
4. Optional: Enter the description for your template.
5. Click **OK**. A **Create new AIX Profile Manager template** page opens.
6. On the **Create new AIX Profile Manager template** page, click **Browse** to open a profile chooser window. Select the profile that is applied to the system when the template is deployed from the table that contains the list of profiles. Note that only profiles including values appear in the table.

If the profiles table is empty, you can import profiles by clicking on **Import profiles**. For more information, see the topic “Importing profiles to AIX Profile Manager” on page 6.

**Note:** After a template is created with a profile, that profile cannot be changed. The template must be deleted and re-created. To delete a configuration template, see Deleting configuration templates.

7. Select deployment options and click **Save**.

The newly created AIX Profile Manager template appears in the Configuration template page. You can update this template, deploy it on a systems, or group it with other templates into a configuration plan. For more information, see the topic Managing configuration templates in IBM Systems Director Information Center.

## Deployment Options

You can select the following deployment options for creating a AIX Profile Manager configuration template:



## Related information

“Importing profiles to AIX Profile Manager” on page 6

Ensure that you import only those profiles that have been calibrated to your specific needs, reviewed, and validated by an AIX runtime expert person.

Deleting configuration template

## General options:

This section provides information about the general options that are used for managing the templates.

Possible options follows:

### check after setting

If you select this option, the deployment of the profile is followed by a retrieval operation to verify that all the parameter values have been set as expected. The values that are retrieved depend on each parameter apply type (see “AIX Profile Manager flags” on page 2).

- For parameters that have a running apply type (the default), the current value of the parameter is retrieved.
- For parameters that have a nextboot apply type, the value that is retrieved is the one that the parameter has after the system is rebooted.

If the comparison fails, the deployment aborts and the system rolls back to the previous setting if the rollback on failure option is selected. The default option is to not check the settings after deployment.

### rollback on failure

If you select this option and the deployment fails, the system attempts to roll back to the previous settings that were saved before the deployment. Previous settings are saved only if **do not generate a rollback profile** is not selected. If no configuration has been saved, then the rollback operation fails. A rollback consumes the saved profile. The **rollback on failure** option is the default option.

### do not generate a rollback profile

If you choose this option the current configuration of the system before deployment cannot be saved. This means that in case of failure and if the **rollback on failure** option is selected, the system attempts to roll back to the configuration that was saved previously. The default option is to generate a rollback profile before attempting a deployment.

## Master profile options:

When a master profile exists on a system, it is deployed each time the system is shut down or started. You can set a master profile or remove it with master profile options.

Possible options follow:

### do nothing

This is the default. Any existing master profile is not changed, and no new master profile is created. The profile is deployed.

### enable or set the master profile

If the deployment succeeds, the profile used in the template is set as master profile. The profile that is set as the master profile is automatically deployed on the system each time it is shut down or restarted. If this option is selected, no other option is available.

### disable or unset the master profile

After the deployment, any existing master profile is removed from the system. No deployment occurs when the system shuts down or restarts. If this option is selected, no other option is available.

**Note:** The profile that is deployed in this operation need not be related to any existing master profile.

### **Boot profile options:**

This option determines which parameters of the selected profile are deployed.

Possible options follow:

#### **all parameters**

All the parameters of the selected profile are set to the values that are specified in the profile when deployment occurs.

#### **dynamic**

The only parameters of the selected profile that are set are the ones that do not need any additional operation on the system for the values to effectively change.

#### **no reboot**

The only parameters of the selected profile that can be set are the ones that do not need the system to be rebooted for the values to effectively change. Note that some disruptive operations, such as the stopping of a service, might be needed for changes in value to occur.

**reboot** The only parameters of the selected profile that are set are the ones that need the system to be rebooted before the values effectively change.

## **Managing profiles**

Use this section to manage the profiles that are used in AIX Profile Manager.

Click **View and manage profiles** to display the Profiles page, that displays all the profiles registered in your IBM Systems Director server. You can add profiles to this view by importing them to AIX Profile Manager.

**Note:** Profiles retrieved successfully on a system can be saved as AIX Profile Manager profiles. For more information, see the topic “Saving a retrieve result as a profile” on page 18.

The profiles table contains the following information:

**Name** The name of the profile.

#### **Import date**

The time and date at which the profile was imported (or saved) to your IBM Systems Director server.

#### **Used by template**

The comma-separated names of the templates that use this profile.

#### **Version**

The version of the profile.

The following actions can be performed on profiles:

#### **Related information**

“Importing profiles to AIX Profile Manager” on page 6

Ensure that you import only those profiles that have been calibrated to your specific needs, reviewed, and validated by an AIX runtime expert person.

## **Viewing profiles**

Use this page to view the details of the catalogs and parameters included in a profile.

To view the details of the catalogs and parameters included in a profile, select one profile in the Profiles view and click **View**.

A profile can contain one or more catalogs. The detailed profile view displays the parameters included in one catalog at a time.

The details you can see about parameters are:

- The catalog that the parameter belongs to. A catalog is a special hidden file residing on the system that includes all the information relative to parameters.
- The parameter name.
- The value of the parameter as specified in the profile. No value is displayed if the parameter type is binary.
- The parameter type. This indicates the conditions under which the value of the parameter can be set, or whether the parameter is read-only.
- The instances the parameter applies to, if applicable. Some parameters are attributes of a system's object, such as a user, a device, a logical volume. Such parameters must be instantiated, that is, linked to an object, before being used, and the instances may differ from one system to another. There might be many instances of the same parameter in a single profile, each one being identified by the instance of the object to which it applies, for example, "user=root", "vg=rootvg".
- The description of the parameter.

#### **Related information**

"Viewing retrieve results" on page 18

This section displays the details of the result of a retrieve job.

### **Retrieving profiles**

Retrieving a profile is the action of getting the values of the parameters included in a profile from the running configuration of systems or groups.

Select the systems or groups on which you want to retrieve the values of the parameters in the profile. The values of the initial profile cannot be altered.

If the groups that are selected include systems that are not managed by AIX Profile Manager, a window opens that lists the systems that are skipped when performing the retrieval operation.

A job is launched to perform the retrieval operation on every system and group selected. The Retrieve results page is displayed next and updated as soon as the retrieval operations are completed. If a system appears in several selected groups, the retrieval operation is performed only once and only one retrieve result is generated for it.

#### **Related information**

"Retrieve results" on page 17

The Retrieve results page displays the results of all retrieve jobs that have been launched on your IBM Systems Director server.

### **Comparing profiles**

You can compare the values of a profile against the values of the same parameters retrieved from the running configuration of systems or groups.

Select the systems or groups against which you want to compare the values of the parameters in the profile. The values of the initial profile cannot be altered.

If the groups you selected include systems that are not managed by AIX Profile Manager, a window is shown that lists the systems that are skipped when performing the comparison operation.

A job is launched to perform the compare operation on every system and group selected. The Compare results page is displayed next.

### Related information

“Compare results” on page 19

The Compare results page displays the results of all compare jobs that have been launched on your IBM Systems Director server.

## Renaming profiles

You can change the name of an AIX Profile Manager profile if it is not used by a template.

To rename profiles, perform the following steps:

1. Select one profile in the Profiles view and click **Rename**.
2. Enter the new name of the profile in the text field of the Rename profile window. This name must not be the name of another profile that already resides on the Director server and must not include the characters blank, &, <, >, \, and " .
3. Click **OK**.

The name of the profile is changed.

## Deleting profiles

You can delete an AIX Profile Manager profile if it is not used by a template. It is necessary to remove the template first.

To delete profiles, do the following steps:

1. Select one or more profiles that are not linked to templates and click on **Delete**.
2. Click **OK** in the confirmation window.

The selected profiles are removed from your IBM Systems Director server.

### Related information

Deleting configuration template

## Exporting profiles

You can export profiles in an XML file on your local file system.

To export profiles, do the following steps:

1. Select one or more profiles in the profiles table and click **Export**.
2. Select **Save to disk** option on the download window.
3. Click **OK**.

The profile is saved on your file system.

## Managing systems

The summary page of the AIX Profile Manager displays the configuration status of all systems that are managed by AIX Profile Manager systems and are discovered on your server.

You can access the management of systems in one of the following ways:

- Click **View and manage systems** in the Common tasks part of the Configuration status section. This view displays the Groups table, filled in with the AIX Profile Manager static group.
- Click one of the sections of the pie chart or one of the associated links right of the chart. If the number of systems is not 0, the systems table is filled in with the list of systems and their corresponding configuration status.

You can perform the following operations on systems or groups:

### **Related concepts**

“Discovering AIX Profile Manager-capable systems” on page 5

A system is said to be managed by AIX Profile Manager if AIX Runtime Expert is installed on it and the director agents such as Common Agent Service (CAS) are running. AIX Runtime Expert (artex file set) is installed by default on all the AIX systems, beginning with 6100-06 releases.

“Configuration status” on page 14

### **Related information**

“Group view”

“Systems view”

## **Systems view**

The systems views list the systems according to their configuration status, if there is at least one system corresponding to this status.

The systems view can also be opened when navigating from the Groups view. If a group is opened that contains systems not managed by AIX Profile Manager, those systems are shown as unsupported in the table columns.

When systems are displayed in the Systems view, the table displays the following information:

**Name** The name of the system. This is a link that leads to the Properties page

### **Last deployed profile**

The name of the profile that is used to build the template last deployed on the system.

### **Profile differences (%)**

The percentage of differences found between the last deployed profile and the running configuration of the system in the last check.

### **Last check**

The time and date of the last comparison between the last deployed profile and the running configuration of the system.

### **Required reboot**

Whether the system needs to be rebooted before the values in the last deployment could be set.

### **Comment**

User comments. Edit comments by clicking system name and clicking Edit in the Properties page. Click **OK** to validate when comments are entered.

### **Related concepts**

“Managing systems” on page 12

The summary page of the AIX Profile Manager displays the configuration status of all systems that are managed by AIX Profile Manager systems and are discovered on your server.

## **Group view**

The group view includes all systems that are managed by AIX Profile Manager and are discovered on your IBM Systems Director server.

To display all groups in IBM Systems Director, click **Display root Director group** from the Group view page.

When systems are displayed in the view, the table displays the following information:

**Name** The name of the group. Click the name to expand the group.

**Type** Static or dynamic, depending on the nature of the group.

### Profile differences (%)

The consolidated configuration status of the systems included in the group. Possible values follow:

- **Unknown** (blue information square icon): This value is displayed if at least one of the systems included in the group has a status of **Unknown**.
- **Need reboot** (brown square icon with a tool sign): This value is displayed if none of the systems included in the group has a status of **Unknown** and if at least one of them has a status of **Pending**.
- **Critical** (red disk icon with a white x): This value is displayed if none of the systems included in the group has a status of **Unknown** or **Need reboot**, and at least one of the systems included in the group has a status of **Critical**.
- **Warning** (yellow triangle icon with a warning sign): This value is displayed if none of the systems included in the group has a status of **Unknown**, **Need reboot**, or **Critical**, and if at least one of the system has a status of **Warning**.
- **OK** (green square icon with a white check): This value is displayed if all the systems included in the group have a status of **Ok**.

### Required reboot

Whether at least one of the systems included in the group requires a reboot.

### Comment

User comments. Comments are entered at the creation of the group and cannot be edited.

### Related concepts

“Managing systems” on page 12

The summary page of the AIX Profile Manager displays the configuration status of all systems that are managed by AIX Profile Manager systems and are discovered on your server.

### Configuration status

The configuration status of a system is only defined when a template has been deployed on it. See the Deploying configuration templates topic in the IBM Systems Director Information Center for more information. If no templates have been deployed to a system, its configuration status is **Unknown**.

The definition of the configuration status of a system is the percentage of differences between the profile used in the last template deployed on it and the current configuration of the system for the same profile. The configuration status of systems is then determined when a comparison is run between the deployed profile and the current configuration of the system:

- If the percentage of differences found is lower than the warning threshold, the configuration status of the system is OK (green square icon checked in white).
- If the percentage of differences found is comprised between the warning threshold and the critical threshold, the configuration status of the system is Warning (yellow triangle icon with a warning sign).
- If the percentage of differences found is greater than the critical threshold, the configuration status of the system is Critical (red disk icon with a white x).
- If the profile in the deployed template contains nextboot parameters, the percentage of differences cannot be computed until the system is rebooted. The system will have a configuration status of Need reboot (brown square with white tool icon).

### Related concepts

“Managing systems” on page 12

The summary page of the AIX Profile Manager displays the configuration status of all systems that are managed by AIX Profile Manager systems and are discovered on your server.

### Related information

“Thresholds settings”

“Schedule configuration status monitoring”

“Checking all systems now”

**Thresholds settings:** To set the configuration status thresholds, click on the Thresholds configuration link either in the Configuration Status section or in the Common tasks part of the Manage monitoring section of the AIX Profile Manager summary page.

1. Optional: Change the value of the warning threshold. It must be 0 - 100, and it must be lower than the critical threshold.
2. Optional: Change the value of the critical threshold. It must be 0 - 100, and it must be greater than the warning threshold.
3. Click **OK**.

The summary page is updated.

### Related concepts

“Configuration status” on page 14

### Related information

“Compare results” on page 19

The Compare results page displays the results of all compare jobs that have been launched on your IBM Systems Director server.

**Schedule configuration status monitoring:** You can either run a configuration status check now or define a repetitive schedule for the monitoring.

To schedule configuration status, perform the following:

1. Click Schedule configuration status monitoring link in the Manage monitoring section of the AIX Profile Manager summary page to launch a Task dialog that will launch a comparison operation on the specified targets.
2. After the setting of the scheduling is done, click **OK** to validate your settings.

View the results of the scheduled jobs by clicking Active and scheduled jobs link in the Common tasks area of the Manage monitoring section of the Summary page of the AIX Profile Manager. See the Viewing active and scheduled jobs information topic for more information about the scheduler table. The table is filtered and only displays the configuration status jobs of the AIX Profile Manager plug-in.

### Related concepts

“Configuration status” on page 14

### Related information

Scheduling a task topic

**Checking all systems now:** Click **Check all systems now** in the Manage monitoring section of the AIX Profile Manager summary page to immediately launch a comparison job on all the systems that are managed by AIX Profile Manager and are discovered on your IBM Systems Director server.

The result of the job can be viewed by clicking **Active and scheduled jobs** in the Common tasks area of the Manage monitoring section of the Summary page of the AIX Profile Manager. See the Viewing active



and scheduled jobs topic, for more information about the scheduler table. The table displayed by following the link is filtered and will only display the configuration status jobs of the AIX Profile Manager plug-in.

### Related concepts

“Configuration status” on page 14

### View differences

In the Systems view page, select a system that has a configuration status of **OK**, **Warning**, or **Critical** and click **View differences**. This action is not available for groups.

The table displays only the parameters whose value is different in the profile that was last deployed from the running configuration of the system during the last configuration status check.

### Related information

“Viewing comparison results” on page 19

This section displays the details of the result of a compare job. .

### Compare operation

The compare operation might be performed only for a single system in the Systems view. The profile that was last deployed on this system is the basis of the comparison with the running configuration of other systems or groups.

To perform the compare operation, perform the following steps:

1. Select a system in the System view and click **Compare**.
2. In the Compare Profile window, use the context chooser menu to select the systems or groups against which you want to compare the values of the parameters in the last deployed profile on the referenced system. The context chooser is initialized to the AIX Profile Manager static group, which contains all systems that are managed by AIX Profile Manager discovered in your IBM Systems Director server.
3. Optional: Enter a description for your comparison job and click **OK**.
4. If you choose to perform the compare operation on a group that includes some systems not managed by AIX Profile Manager, a window appears listing the systems that are skipped. Click **OK** to continue.

A job is launched to perform the compare operation on every system and group selected. The Compare results page is displayed.

### Related information

“Compare results” on page 19

The Compare results page displays the results of all compare jobs that have been launched on your IBM Systems Director server.

### Retrieve operation

The retrieve operation might be performed only for a single system in the Systems view. The profile that was last deployed on this system is the one that is retrieved on other systems or groups.

To perform the retrieve operation, perform the following steps:

1. Select a system in the System view and click **Retrieve**.
2. In the Retrieve profile window, use the context chooser menu to select the systems or groups on which you wish to retrieve the values of the parameters in the last deployed profile on the reference system. The context chooser is initialized to the AIX Profile Manager static group, which contains all systems managed by AIX Profile Manager discovered in your IBM Systems Director server.
3. Optional: Enter a description for your retrieve job and click **OK**.
4. If you choose to perform the retrieve operation on a group that includes some systems not managed by AIX Profile Manager, a window is shown that lists the systems that are skipped. Click **OK** to continue.



A job is launched to perform the retrieval operation on every system and group selected. The Retrieve results page is displayed next.

### **Related information**

“Retrieve results”

The Retrieve results page displays the results of all retrieve jobs that have been launched on your IBM Systems Director server.

### **Redeploy operation**

This operation might be performed on several systems and groups, and redeploys on each single system the template that was last deployed on it.

Groups can include systems that do not have a template deployed on them or even systems that are not managed by AIX Profile Manager, that are skipped in the operation. If a system is included more than once in several selected groups, the operation is performed only once.

To perform the redeploy operation, perform the following steps:

1. Select one or more systems in the Systems view, or one or more groups in the Groups view, and click **Redeploy**.
2. Click **OK** in the confirmation window, that lists the names of systems on which the redeployment occurs.

The result of the redeployment can be viewed by clicking **Display Properties** in the information box that appears once the job is launched, or by clicking **Active and scheduled jobs** in the Common tasks of the Manage monitoring section.

### **Retrieve results**

The Retrieve results page displays the results of all retrieve jobs that have been launched on your IBM Systems Director server.

This page is automatically displayed after a retrieve job has been launched, or can be reached directly by clicking **View and manage retrieve results** on the Common Tasks part of the AIX Profile Manager configuration status section on the AIX Profile Manager summary page.

A line is generated in the Retrieve results table for each system on which the retrieve operation has been launched. If a system is shown more than once in the groups on which the retrieve is performed, only one line is generated. Each line displays the following information:

#### **Profile name**

The name of the profile that is retrieved.

#### **System name**

The name of the system on which the retrieval operation is performed.

#### **Date of retrieval**

The date of retrieval. While the retrieve job is not completed, the column displays only **Loading**. When the operation is completed, the column displays the end-of-retrieval date.

#### **Retrieved profile**

Displays the result of the operation. While the job is not completed, this column displays only **Loading**. If the operation is successful, **OK** is displayed. If the operation failed, **Error** is displayed.

#### **Description**

The description that has been optionally entered when launching the job.

The following operations can be performed on a retrieve result:

## Related information

“Retrieving profiles” on page 11

Retrieving a profile is the action of getting the values of the parameters included in a profile from the running configuration of systems or groups.

“Retrieve operation” on page 16

The retrieve operation might be performed only for a single system in the Systems view. The profile that was last deployed on this system is the one that is retrieved on other systems or groups.

## Viewing retrieve results

This section displays the details of the result of a retrieve job.

You can either select a retrieve result and click **View**, or click on the retrieved profile link.

If the retrieve operation failed, an error string is returned by the system. If the retrieve operation is successful, the retrieved profile is displayed in a table.

## Related concepts

“Viewing profiles” on page 10

Use this page to view the details of the catalogs and parameters included in a profile.

## Saving a retrieve result as a profile

The result of a retrieve job can be saved as an AIX Profile Manager profile. The result then appears in the View profiles table and could be used to build a template.

To save a retrieve result as a template, complete the following steps:

1. Select a retrieve result that has a status of **OK** in the retrieve results table and click **Save as profile**.
2. Enter the name of the new profile in the text field of the **Save as profile** window. This name must not be the name of another profile that already resides on the Director server and must not include the characters blank, &, <, >, \, and " .
3. Click **OK**.

If the name is licit, the retrieve result is saved as a profile and can be viewed in the profiles list.

## Exporting retrieve results

You can export retrieve results as an XML file on your local file system.

To export a retrieve result, complete the following steps:

1. Select one or more retrieve results with a **OK** result in the retrieve result table and click **Export**.
2. Select **Save to disk** from the download window.
3. Click **OK**.

The retrieved profile is saved on to your file system.

## Deleting retrieve results

You can remove retrieve results from your IBM Systems Director server.

To remove a retrieve result, complete the following steps:

1. Select one or more retrieve results and click **Delete**.
2. Click **OK** in the confirmation window.

The selected retrieve results are removed from your IBM Systems Director server.

## Compare results

The Compare results page displays the results of all compare jobs that have been launched on your IBM Systems Director server.

This page is automatically displayed after a compare job has been launched, or can be reached directly by clicking **View and manage compare results** link on the Common Tasks part of the AIX Profile Manager configuration status section on the AIX Profile Manager summary page.

A line is generated in the Compare results table for each system on which the compare operation has been launched. If a system appears more than once in the groups on which the compare operation is performed, only one line is generated. Each line displays the following information:

### Profile name

The name of the profile that is the reference of the comparison.

### System name

The name of the system on which the compare operation is performed.

### Profile differences (%)

The result of the operation. While the job is not completed, this column displays only **Loading**. If the operation is successful, a status icon and a percentage string are displayed. The percentage represents the differences found, in number of parameters, between the referenced profile and the running configuration of the system. The icon displayed depends on the value of the percentage and the status thresholds

- If the percentage is lower than the warning threshold, a green square checked icon is displayed.
- If the percentage is comprised between the warning threshold and the critical threshold, a yellow triangle with a warning sign is displayed.
- If the percentage is greater than the critical threshold, a red disk with a white 'x' critical icon is displayed.

If the operation failed, a blue information square with **Unknown** string is displayed.

### Date of comparison

The date of the completed operation. While the job is not completed, this column displays only **Loading**. When the operation is completed, it displays the end-of-comparison date.

### Description

The description that is optionally entered when you launch a job.

### Related information

“Comparing profiles” on page 11

You can compare the values of a profile against the values of the same parameters retrieved from the running configuration of systems or groups.

“Compare operation” on page 16

The compare operation might be performed only for a single system in the Systems view. The profile that was last deployed on this system is the basis of the comparison with the running configuration of other systems or groups.

“Thresholds settings” on page 15

## Viewing comparison results

This section displays the details of the result of a compare job. .

You can either select a compare result and click **View**, or click on the percentage link

If the compare operation failed, an error is returned by the system. If the compare operation is successful, the result of the comparison is displayed in a table. Only the parameters whose value retrieved in the running configuration of the system differs from the value in the profile are displayed.

The type of parameter filter determines which parameters to display, according to their type:

**All parameters**

Displays all the parameters that are included in this catalog.

**Dynamic**

Displays only the parameters that do not need any additional action to be performed before a change in value actually takes place.

**Reboot**

Displays only the parameters that need the system to be rebooted before a change in value actually occurs.

**Disruptive**

Displays only the parameters that need a disruptive operation, such as the stopping of a service, to be performed on the system before a change in value actually takes place.

For each displayed parameter, the following information is displayed:

**Parameter name**

The name of the parameter.

**Parameter category**

The parameter type (dynamic, reboot and so on).

**Expected value**

The value included in the referenced profile. No value is displayed if the parameter type is binary.

**Reported value**

The value of the parameter as retrieved from the running configuration of the system. If the parameter type is binary, no value is displayed.

**Apply to**

Some parameters are attributes of a system's object, such as a user, a device, a logical volume, and so on. Such parameters must be instantiated, that is, linked to an object, prior to its usage, and the instances might differ from one system to another. There may be many instances of the same parameter in a single profile, each one being identified by the instance of the object it applies to, for example, "user=root", "vg=rootvg".

**Description**

The description of the parameter.

**Related information**

"View differences" on page 16

In the Systems view page, select a system that has a configuration status of **OK**, **Warning**, or **Critical** and click **View differences**. This action is not available for groups.

**Exporting comparison results**

You can export compare results as an XML file on your local file system:

To export the compare results, complete the following steps:

1. Select one or more compare results that have a percentage result in the compare result table and click **Export**.
2. Select the **Save to disk** option on the download window and click **OK**.

The compare results file is saved on your file system.

## Deleting compare results

You can remove compare results from your IBM Systems Director server.

To remove the compare results, do as follows:

1. Select one or more compare results and click **Delete**.
2. Click **OK** in the confirmation window.

The selected compare results are removed from your IBM Systems Director server.

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## Security

AIX Profile Manager exploits the security features provided by IBM Systems Director.

### Related information

Security

## Authenticating users to AIX Profile Manager

AIX Profile Manager uses the authentication features of IBM Systems Director.

To log in to IBM Systems Director, you must provide the login name and the password of a user on your IBM Systems Director server. Depending on the authorizations and roles the user possesses, you can access only certain areas of the AIX Profile Manager plug-in.

To create a user with an SMAdministrator role, log in to the operating system of your IBM Systems Director server, create the user if it does not already exist and assign it to the pre-existing smadmin group.

To create a user with an SMMonitor role, select an existing user or create a user and then assign it to the pre-existing smmonitor group. This can be performed either on the operating system of your IBM Systems Director server, or from the IBM Systems Director plug-in (see User and user groups in IBM Systems Director ).

### Related information

“User authorizations in AIX Profile Manager”

AIX Profile Manager uses two of the predefined IBM Systems Director roles.

## User authorizations in AIX Profile Manager

AIX Profile Manager uses two of the predefined IBM Systems Director roles.

Users with the SMAdministrator role can access to all panels and tasks of the AIX Profile Manager plug-in.

Users with the SMMonitor role can perform the following functions:

- Access the View and manage systems window
- Perform the View systems differences task
- Access the View and manage profiles window
- Perform the Export profiles task
- Access the View Compare and Retrieve results window
- Perform the Export Compare and Retrieve results task
- Perform the Delete Compare and Retrieve results task
- Perform the Save Retrieve result as profile task
- Access the View scheduled jobs panel.

**Note:** Basic authenticated users with only the SMUser role have no access to AIX Profile Manager.

**Related information**

“Authenticating users to AIX Profile Manager” on page 21

AIX Profile Manager uses the authentication features of IBM Systems Director.

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