



IBM Software Group

IBM WebSphere® Enterprise Service Bus V6.1 IBM WebSphere Process Server V6.1

Problem determination for installation and profile creation



@business on demand.

© 2008 IBM Corporation
Updated March 19, 2008

This presentation will cover the problem determination for installation and profile creation of the WebSphere Enterprise Service Bus and the WebSphere Process Server V6.1.

Goals

- Installation and profile creation troubleshooting
 - ▶ known limitations
 - ▶ best practices
 - ▶ Debugging
 - ▶ logging information
- Problem determination common to
 - ▶ WebSphere Enterprise Service Bus
 - ▶ WebSphere Process Server

The goal of this presentation is to discuss troubleshooting topics, known limitations, best practices, and debugging and logging information for the WebSphere Enterprise Service Bus and the WebSphere Process Server V6.1 Profile creation and augmentation. The information discussed in this presentation applies to both the WebSphere Enterprise Service Bus and the WebSphere Process Server V6.1.

Agenda

- Common problem determination
- Installation troubleshooting
- Profile creation troubleshooting
- Summary



This section will provide an overview of common problem determination.

Common problems, mistakes, and pitfalls

- Profile creation and augmentation problems on Windows®
 - ▶ Problems caused by path length limit of 256 characters on Windows
 - ▶ Limit the size of these to help
 - Process Server installation path
 - Do not use the default installation location
 - Host name
 - Keep machine names short
 - Node name
 - Keep node name short and meaningful
 - Profile name
 - Again, keep it short and meaningful

4

Problem determination for installation and profile creation

© 2008 IBM Corporation

The most common pitfall with profile creation and augmentation on Windows is related to the Windows limitation of 256 characters in a path length. Create the profile as close to the root drive as possible; for example, C:/ProcServer/profile1/. You should limit the length of the WebSphere Process Server installation path; do not use the default installation location, host name, node name, and profile name. All names and paths should be kept short and meaningful.

What to gather to troubleshoot installation

- Use collector.bat (send to IBM Support)
- The full set of files to immediately gather are:
 - ▶ <profilePath>/logs/* (zip recursively)
 - ▶ <profilePath>/properties/*
 - ▶ <WPS_HOME>/logs/wasprofile/*<profileName>*
 - ▶ <WPS_HOME>/logs/wbi/*
 - ▶ <WPS_HOME>/properties/profileRegistry.xml
 - ▶ <WPS_HOME>/properties/wasprofile.properties

In order to help debug a problem or find out what to send to IBM support, use collector.bat. The collector will combine the files that help debug a problem if they are gathered immediately after a problem or failure. The files collected are listed here.

Section

Installation troubleshooting



This section covers troubleshooting, including best practices, debugging and logging information.

Best practices

- Limit use of Complete install
 - ▶ Does not let user configure the profile
 - ▶ Selects all defaults
 - ▶ Use custom install and run the profile wizard
- Use the Installation Guide from WebSphere Process Server V6.1 online information center
http://publib.boulder.ibm.com/infocenter/dmndhelp/v6r1mx/index.jsp?topic=/com.ibm.websphere.wps.610.doc/welcome_top_wps.htm
- If installation fails
 - ▶ Refer to the information center when uninstalling any installed portions before reinstalling
 - Go to next selection in the navigation panel:
WebSphere Process Server for Multiplatforms 6.0 > Installing > Uninstalling the product > Preparing for reinstallation after a failed uninstallation.

Here are a few best practices, in addition to the information in the information center, readme, and release notes. Limit use of Complete installation since it does not let you configure the profile and it selects all the defaults for that profile. Instead, use “Custom” installation and run the Profile Wizard.

Always refer to the Installation Guide from WebSphere Process Server V6.1 online Information Center.

If the installation fails, refer to the Information Center when uninstalling any installed portions before reinstalling.

Debugging installation errors

- Use collector.bat (very useful to IBM Support)
- The full set of files to immediately gather are:
 - ▶ <profilePath>/logs/* (zip recursively)
 - ▶ <profilePath>/properties/*
 - ▶ <INSTALL_DIR>/logs/wasprofile/*<profileName>*
 - ▶ <INSTALL_DIR>/logs/wbi/*
 - ▶ <INSTALL_DIR>properties/profileRegistry.xml
 - ▶ <INSTALL_DIR>/properties/wasprofile.properties

To debug installation errors, gather the full set of files listed here. When working with IBM support, run collector.bat to collect all the necessary files to send.

Installation logs

- log.txt
 - ▶ On Linux® and UNIX® platforms: <INSTALL_DIR>/logs/wbi/log.txt
 - ▶ On Windows platforms: <INSTALL_DIR>\logs\wbi\log.txt
 - ▶ Logs all installation events relating to WebSphere Process Server
 - ▶ **INSTCONFFAILED**
 - Total installation failure
 - ▶ **INSTCONFSUCCESS**
 - Successful installation
 - ▶ **INSTCONFPARTIALSUCCESS**
 - Installation errors occurred but the installation is still usable
 - Additional information in other log files identifies the errors

There is an installation log named log.txt. On Linux, UNIX, and Windows platforms, this file can be found in <INSTALL_DIR>/logs/wbi/log.txt. The log.txt contains all installation events relating to WebSphere Process Server. There are three possible results in the log. INSTCONFFAILED means the installation failed.

INSTCONFSUCCESS means the installation was successful.

INSTCONFPARTIALSUCCESS means that errors occurred during the installation, but the installation is still usable. Additional information in other log files identifies the errors.

Installation logs

■ inst_config.log

- ▶ On Linux and UNIX platforms: *install_root*/logs/wbi/instconfig.log
- ▶ On Windows platforms: *install_root*\logs\wbi\instconfig.log
- ▶ Logs configuration actions that run at the end of the installation process to configure components, install system applications, and create Windows shortcuts and registry entries.
- ▶ Contains a series of <record> elements that document the configuration actions. If a post-installation configuration action fails, text like this appears in the log:

```

<record>
  <date>2005-05-26T11:41:17</date>
  <millis>1117132877344</millis>
  <sequence>742</sequence>
  <logger>com.ibm.ws.install.configmanager.ConfigManager</logger>
  <level>WARNING</level>
  <class>com.ibm.ws.install.configmanager.ConfigManager</class>
  <method>executeAllActionsFound</method>
  <thread>12</thread>
  <message>Configuration action failed: com.ibm.ws.install.configmanager.actionengine.ANTAction-
D:\WBIVAS\properties\version\install.wbi6.0.0.0\config\full\install\90S\InstallCEI.ant</message>
</record>

```

The inst_config.log will log configuration actions that run at the end of the installation process to configure components, install system applications, and create Windows shortcuts and registry entries. This file is found on Linux, UNIX, and Windows platforms as <INSTALL_DIR>/logs/wbi/inst_config.log. It contains a series of <record> elements that document the configuration actions. If a post-installation configuration action fails, text like that shown in this slide appears in the log.

Section

Profile creation troubleshooting

This section covers troubleshooting, including known limitations, best practices, and debugging and logging information.

Profile logging

- pcatLog<timestamp>.txt
 - ▶ On Linux® and UNIX® platforms: *profile_root/logs* /pcatLog<timestamp>.txt
 - ▶ On Windows platforms: *profile_root\logs* \pcatLog<timestamp>.txt
 - ▶ If this file does not exist in this directory on the system, profile creation failed early in the process
 - In this case, review the pcatLog.txt file in the *user_home* directory
 - ▶ Logs all events that occur when a default profile is created during a Complete installation or when the Profile Wizard is run
 - ▶ Three different results
 - **INSTCONFFAILED**
 - Total profile creation failure
 - **INSTCONFPARTIALSUCCESS**
 - Profile creation errors occurred but the profile is still functional
 - Check additional information in process server log files to identify the errors
 - **INSTCONFSUCCESS**
 - Successful profile creation

The profile log file is the pcatLog, which appears as “pcatLog” followed by a timestamp and the extension “.txt”. It is located in the *profile_root/logs* directory. If this file does not exist in this directory on the system, then profile creation failed early in the process. In this case, review the pcatLog.txt file in the *user_home* directory. The pcatLog contains all events that occur when a default profile is created during a complete installation or when the Profile Wizard is run. There are three possible results when looking at the pcatLog. INSTCONFFAILED means that profile creation failed. INSTCONFPARTIALSUCCESS means profile creation errors occurred but the profile is still functional. Check additional information in process server log files to identify specific errors. INSTCONFSUCCESS means that profile creation was successful.

Profile creation logging

- `wasprofile_create_profile_name.log`
 - ▶ On Linux and UNIX platforms:
`install_root/logs/wasprofile_create_profile_name.log`
 - ▶ On Windows platforms:
`install_root\logs\wasprofile_create_profile_name.log`
 - ▶ Traces all events that occur during the creation of the named profile
 - ▶ Created during a Complete Installation or when using the Profile Wizard
 - ▶ Three different results
 - **INSTCONFFAILED**
 - Total profile creation failure
 - **INSTCONFPARTIALSUCCESS**
 - Profile creation errors occurred but the profile is still functional
 - Check additional information in process server log files to identify the errors
 - **INSTCONFSUCCESS**
 - Successful profile creation

Another log file to check when creating a profile is listed here. This log traces all events that occur during the creation of the named profile and is created during a complete installation or when using the profile wizard. Like the `pcatLog`, the same three results messages can be returned after a profile has been created.

Profile augmentation logging

- `wasprofile_augment_profile_name.log`
 - ▶ On Linux and UNIX platforms:
`install_root/logs/wasprofile_augment_profile_name.log`
 - ▶ On Windows platforms:
`install_root\logs\wasprofile_augment_profile_name.log`
 - ▶ Traces all events that occur during the augmentation of the named profile
 - ▶ Three different results
 - **INSTCONFFAILED**
 - Total profile creation failure
 - **INSTCONFPARTIALSUCCESS**
 - Profile creation errors occurred but the profile is still functional
 - Check additional information in process server log files to identify the errors
 - **INSTCONFSUCCESS**
 - Successful profile creation

There is a separate log for augmenting a profile. The `wasprofile_augment_profile_name.log` is located in the `install_root/logs/` directory. This log traces all events that occur during the augmentation of the named profile and again there are three possible results as shown here.

Profile template logging

- Individual profile template action log files
 - ▶ In the directory *profile_root*/logs on Linux and UNIX systems and *profile_root*\logs on Windows systems
 - ▶ Typically it is the name of the .ant script that failed followed by ".log"
 - ▶ For example, if this entry is in the wasprofile_augment_*profile_name*.log file:
 - <message>**Result of executing**
E:\o0536.15\profileTemplates\default.wbicore\actions\saveParamsWbiCore.ant was:
false</message>
 - ▶ Look for the corresponding log file for any failing .ant script entries. In this case, the log file created by the saveParamsWbiCore.ant script is saveParamsWbiCore.ant.log
 - ▶ Look at that file to investigate why the failure occurred

Each individual profile template has its own action log files, which can be found in the *profile_root*/logs directory. Typically it is the name of the .ant script that failed followed by ".log". For example, if the entry shown here is in the profile augment log, look for the corresponding log file for any failing .ant script entries. In this case, the log file created by the saveParamsWbiCore.ant script is saveParamsWbiCore.ant.log. Look at that file to investigate why the failure occurred.

Recovering from profile creation or augment failure

- Each log file must contain the "INSTCONFSUCCESS"
- If a file does not include this entry, a failure was detected
- Following is a list of log files to look at in the order given
 1. Log file created by the Profile Wizard
 - ▶ The name of the file is partially based on a timestamp and is in the form pcatLog<timestamp>.txt
 2. Log file wasprofile_create_profile_name.log
 - ▶ Search for the text "Result of executing" and verify that each occurrence ends with "true."
 3. Log file wasprofile_augment_profile_name.log
 - ▶ Search for the text "Result of executing" and verify that each occurrence ends with "true."
 4. Individual profile template action log files
 - ▶ If discovered "false" values in the log files described in steps 2 and 3 above, review these log files
 - ▶ These log files do not follow a consistent naming convention, but typically, it is the name of the .ant script that failed followed by ".log"

This slide shows a list of log files to look at in the order given. Each log file must contain the entry "INSTCONFSUCCESS." If a file does not include this entry, that means a failure was detected. First, check the log file created by the Profile Wizard. The name of the file is partially based on a timestamp and is in the form pcatLog<timestamp>.txt. This file can be found in the *profile_root/logs* directory.

Next, check the wasprofile_create_profile_name.log, located in the *install_root/logs/wasprofile* directory. Search for the text "Result of executing" and verify that each occurrence ends with "true."

Next, check the wasprofile_augment_profile_name.log, located in the *install_root/logs/wasprofile* directory. Search for the text "Result of executing" and verify that each occurrence ends with "true."

Finally, check the Individual profile template action log files. If you discovered "false" values in the log files described in steps 2 and 3 above, review these log files in the *profile_root/logs* directory. These log files do not follow a consistent naming convention, but typically, it is the name of the .ant script that failed followed by ".log".

Recovering from profile creation failure

- After determining why profile creation failed and addressing the cause of the failure, try to create the profile again.
- When creating a profile using the WebSphere Process Server profile wizard:
 - ▶ wizard first creates a WebSphere Application Server profile
 - ▶ then augments it with WebSphere Process Server profile templates
 - This creates a WebSphere Process Server profile
- When profile creation fails:
 - ▶ a profile can exist that does not have all the needed augmentations
- To determine if the profile exists, run the command:
`install_root/bin/wasprofile.sh -listProfiles` (Linux or UNIX)
`install_root\bin\wasprofile.bat -listProfiles` (Windows)
 - ▶ If profile name does not exist, re-create the profile
 - ▶ If the profile name exists, then the profile was created but augmentation failed

After determining why profile creation failed and addressing the cause of the failure, try to create the profile again.

When you create a profile using the WebSphere Process Server Profile Wizard, the wizard first creates a WebSphere Application Server profile and then augments it with WebSphere Process Server profile templates to create a WebSphere Process Server profile. When profile creation fails, a profile can exist that does not have all the necessary augmentations, presumably because of the failure. To determine if the profile exists, run the `wasprofile` command with a parameter of “-listProfiles”. If the profile name used for creation does not exist, re-create the profile. If the profile name does exist, then the profile was created and has encountered an augmentation failure.

Recovering from profile augmentation failure

- After determining why profile augmentation failed and addressing the cause of the failure, try to augment the existing profile again to successfully create a complete WebSphere Process Server profile
- Start the profile wizard
 - ▶ Instead of creating new profile, augment an existing profile
 - ▶ Choose the profile and enter the correct information for it
- Some of the augmentations might have completed successfully the first time profile wizard was run
 - ▶ Not all panels are displayed
 - ▶ The profile wizard detects which remaining augmentations must be completed and displays only the necessary panels

After determining why profile augmentation failed and addressing the cause of the failure, try to augment the existing profile again to successfully create a complete WebSphere Process Server profile. Start the Profile Wizard, and instead of creating a new profile, choose to augment an existing profile. Choose the profile and enter the correct information for it.

Some of the augmentations might have completed successfully the first time profile wizard was run. As a result, not all the panels that were presented the first time are displayed.

This is because the Profile Wizard detects which remaining augmentations must be completed and displays only the necessary panels.

Section

Summary

This section will provide a summary of this presentation.

Summary

- Troubleshooting topics
 - ▶ Known limitations
 - ▶ best practices
 - ▶ debugging/logging information
- WebSphere Process Server support page:
<http://www.ibm.com/software/integration/wps/support/>

In this presentation, troubleshooting topics such as known limitations, best practices, and debugging and logging information for the installation and profile creation were discussed. Refer to the support page for the latest information in Technotes and troubleshooting guides.

Feedback

Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send e-mail feedback:

mailto:iea@us.ibm.com?subject=Feedback_about_WBIV61_WESBWPS_PD.ppt

This module is also available in PDF format at: [../WBIV61_WESBWPS_PD.pdf](..WBIV61_WESBWPS_PD.pdf)



You can help improve the quality of IBM Education Assistant content by providing feedback.

Trademarks, copyrights, and disclaimers

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

IBM WebSphere

Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements or changes in the products or programs described herein at any time without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product in this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not infringe IBM's intellectual property rights, may be used instead.

Information is provided "AS IS" without warranty of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. IBM shall have no responsibility to update this information. IBM products are warranted, if at all, according to the terms and conditions of the agreements (for example, IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided. Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products.

IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

© Copyright International Business Machines Corporation 2008. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.

