



IBM Software Group

IBM® WebSphere® Application Server V6.1 Feature Pack for Web Services

Policy set administration



@business on demand.

© 2007 IBM Corporation
Updated August 6, 2007

This presentation will explain the administration of policy sets for the Feature Pack for Web Services.

Agenda

- Managing policy sets



This presentation will explain how to manage and administer Policy Sets in a WebSphere Application Server V6.1 environment with the Feature Pack for Web Services installed. Policy Sets are reusable configuration data associated with Web Services applications, and greatly reduce the amount of configuration that must be done for Web Services.

Section

Managing policy sets

The next section discusses the details of managing policy sets.

Creating policy sets

- Create a brand new policy set
 - ▶ Configure the QOS for the new policy set
- Create a new policy set based on an existing policy set
 - ▶ Copy and modify an existing (default) policy set
- Not based on WS-Policy specification

New Policy Sets can be created to configure a quality of service to be used. When creating a new Policy Set, users can copy an existing Policy Set and then modify that to create a new custom Policy Set. Policy Sets with the Feature Pack for Web Services are not based on the WS-Policy specification, but are instead specific to WebSphere Application Server.

Attaching policy sets

- During deployment
 - ▶ New policy sets can not be created during the deployment process
- After application deployment
 - ▶ A policy set is associated with an application, service, endpoint or operation
 - A policy set associated with a resource at any level is inherited by any resources underneath that resource
 - Application must be restarted to pick up changes

An existing Policy Set can be attached to an application, service, endpoint or operation during deployment or after an application has been deployed. During application deployment only an existing Policy Set can be attached, a new Policy Set can not be created at that time. When a Policy Set is attached, the application must be restarted in order to pick up the configuration changes. A policy set associated with a resource at any level is inherited by any resources underneath that resource, if the child resources aren't attached directly to another policy set. An application-level attachment is inherited by all child services, endpoints, and operations, a service-level attachment is inherited by all child endpoints and operations, and an endpoint-level attachment is inherited by all child operations.

Modifying policy sets

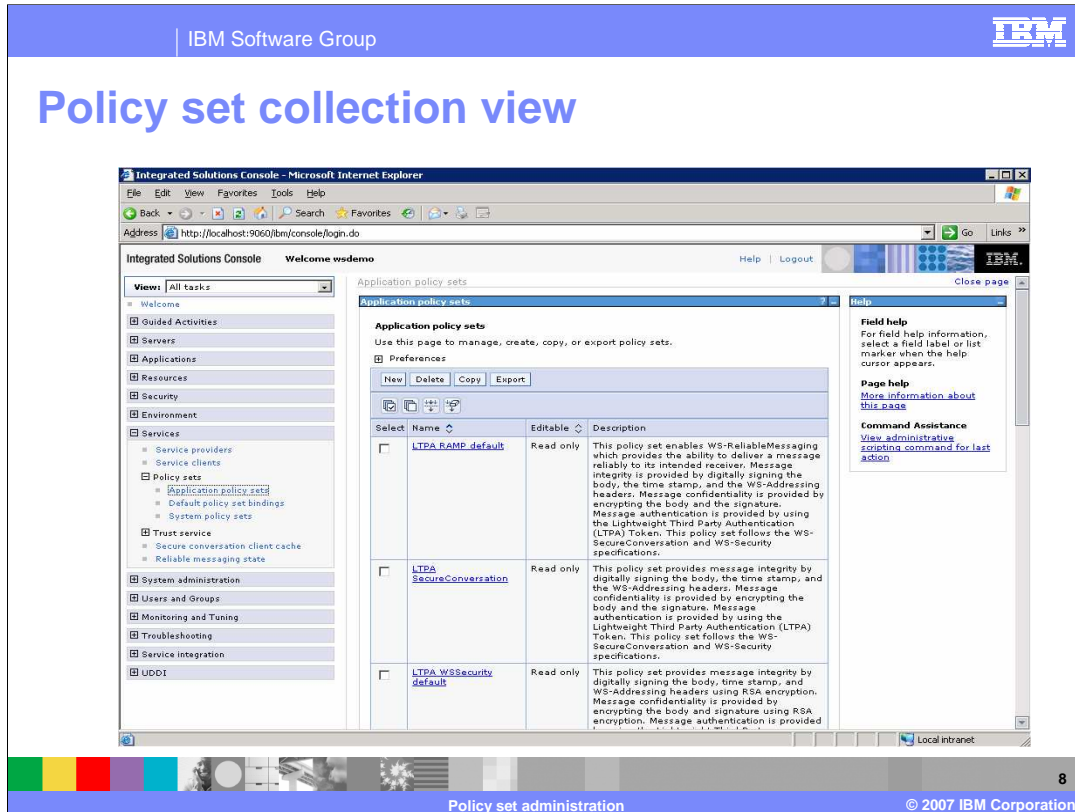
- Unattached policy set
 - ▶ Similar to creating new policy set
- Attached policy set
 - ▶ Applications using the policy set are required to be restarted to pick up changes

Existing Policy Sets can be modified. With an unattached Policy Set, there is little to be concerned with. However, with an attached Policy Set, where this will alter the configuration for a deployed application, a warning will let the administrator know that specific endpoints will be effected. Once changes have been made, the associated application will still need to be restarted to pick up the changes.

Deleting policy sets

- Unattached policy set
 - ▶ No issues to consider
- Attached policy set
 - ▶ Policy set should be unattached before deleting
 - Detach the policy set
 - Delete the policy set

Policy Sets can also be deleted. An attached Policy Set must first be removed from any associations with applications. In order to accomplish this, the applications will need to be stopped, and then have the Policy Set removed from the configuration. Only after the Policy Set is not in use, can it be deleted.



This is an example of the screen in the administrative console where Policy Sets are listed. This collection of Policy Sets is found under the new Services tab. The available Policy Sets are listed in this panel, including a description of the quality of services provided by the Policy Set. From this panel, Policy Sets can be created, copied, or deleted. They can also be exported, so that they can then be imported to another WebSphere Application Server, or tools environment.

The screenshot displays the 'Service Providers' collection view in the IBM Integrated Solutions Console. The main content area shows a table of service providers with the following data:

Select	Name	Type	Application	Application Status
<input type="checkbox"/>	EchoService	JAX-WS	WSSampleServices	➔
<input type="checkbox"/>	MtomSampleService	JAX-WS	WSSampleMTOMService	➔
<input type="checkbox"/>	PingService	JAX-WS	WSSampleServices	➔

Below the table, it indicates 'Total 3'. The interface also includes a 'Start' and 'Stop Application' button, and a 'Preferences' section.

Also under the Services tab in the administrative console, is a list of all the deployed Web Services providers for the application server. This is a single place where an administrator can quickly configure Web Services in an environment without having to work through specific applications. From this panel the services can be started or stopped. In the Feature Pack for Web Services, this will stop or start the application associated with the Web Service provider. This is the same as going to the application in the list of deployed enterprise applications, and starting or stopping the application.

The screenshot displays the IBM Integrated Solutions Console interface. At the top, the header includes 'IBM Software Group' and the IBM logo. The main title is 'Application detail'. Below this, the console shows a navigation pane on the left with categories like 'View: All tasks', 'Welcome', 'Guided Activities', 'Servers', 'Applications', 'Resources', 'Security', 'Environment', 'Services', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main content area is titled 'Enterprise Applications' and shows the configuration for 'WSSampleMTOMService'. The configuration is divided into several sections: 'General Properties' (Name: WSSampleMTOMService, Application reference validation: Issue warnings), 'Detail Properties' (links for Target specific application status, Startup behavior, Application binaries, Class loading and update detection, Remote request dispatcher properties, View Deployment Descriptor, Last participant support extension), 'References' (Shared library references), 'Modules' (Manage Modules), 'Web Module Properties' (Session management, Context Root For Web Modules, JSP reload options for web modules, Virtual hosts), and 'Web Services Properties' (Provide JMS and EJB endpoint URL information, Publish WSDL files, Provide HTTP endpoint URL information, Service Providers Administration). The 'Service Providers Administration' link is circled in red. At the bottom of the console, there are buttons for 'Apply', 'OK', 'Reset', and 'Cancel'. The footer of the console shows 'Policy set administration' and '© 2007 IBM Corporation'.

Web Service providers can also be configured from the configuration panel for an application. Under the Web Service Properties section, which will be visible if the application contains Web Services, there is a section for the Service Providers Administration, this will list the Service providers for that application.

Section

Summary

The next section provides a summary of this presentation.

Summary

- Policy sets eases the complexity of administering Web services
 - ▶ Preconfigured policy sets
 - ▶ Reusable configurations
- Policy sets can be created and managed through the administrative console

Policy Sets are aimed at reducing the complexity of Web Services in WebSphere Application Server. By providing reusable configurations, administrators will be able to more quickly deploy and configure Web Services applications. The Policy Sets also provide a template for new users, that can show them how to properly configure WebSphere Application Server for specific qualities of service. Policy sets can be managed administratively through the administrative console.

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 WASv61_WSFP_PolicySetAdministration.ppt



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

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 NONINFRINGEMENT. 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 2007. 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.

