WebSphere Developer Asset Analyzer Technology Preview

User's Guide

Version 6 Release 0

Contents

About this Book

This book explains how to use WebSphere Developer Asset Analyzer to scan, search, and analyze the impact of changes to software assets from a WebSphere® Developer for zSeries® workspace. For hardware and software prerequisites and for installation instructions, refer to readme.html, available on theWebSphere Developer Asset Analyzer Technology Preview download site, Tech Preview Download Site URL Goes Here.

Who Should Read this Book

This *User's Guide* is designed to be used by anyone using WebSphere Developer Asset Analyzer.

Related Information

WebSphere Developer Asset Analyzer extends the functions of WebSphere Studio Asset Analyzer v.4.1.0 to the WebSphere Developer for zSeries workspace. For more information on WebSphere Studio Asset Analyzer, refer to the following documents:

- *Configuration and Migration Guide (GC18-9517-00)*
- *Getting Started (SC18-9528-00)*
- *Quick Tour (SC18-9526-00)*
- *Taking an inventory using WebSphere Studio Asset Analyzer for Multiplatforms (SC18-9527-00)*
- *Web Services Guide (SC18-9518-00)*
- *Messages and Codes (GC18-9516-00)*

Using WebSphere Developer Asset Analyzer

WebSphere Developer Asset Analyzer allows you to use the asset management functions of WebSphere Studio Asset Analyzer from within a WebSphere Developer for zSeries workspace. When installed and configured, it automatically scans the files within your WebSphere Developer for zSeries v6.0 workspace and stores information about your files in a DB2 inventory database.

Overview of technology preview content

This technology preview contains the following functions:
- Automatic scanning of COBOL and PL/I assets on the workstation
- Search for declarations of data elements and programs
- Search for declarations of data elements from within the LPEX editors
- Search against remote z/OS® hosts
- Automatic retrieval of z/OS assets through search results
- Impact analysis for data elements

Before you start

Before you can scan and search assets on the workstation, you need to install and start WebSphere Application Server, DB2®, and the IBM® HTTP Server. Refer to the readme file for software prerequisites and installation instructions.

Setting up WebSphere Developer Asset Analyzer

Whenever a file is added, removed, or modified in your WebSphere Developer for zSeries workspace, WebSphere Developer Asset Analyzer updates information about the file in the inventory database so that you can search the database.

Enabling local scanning

To enable WebSphere Developer Asset Analyzer to scan files in your WebSphere Developer for z/Series workspace, follow these steps:
1. From the WebSphere Developer for z/Series **Window**® menu, select **Preferences**.
2. In the Preferences dialog, select **WebSphere Developer Asset Analyzer**.
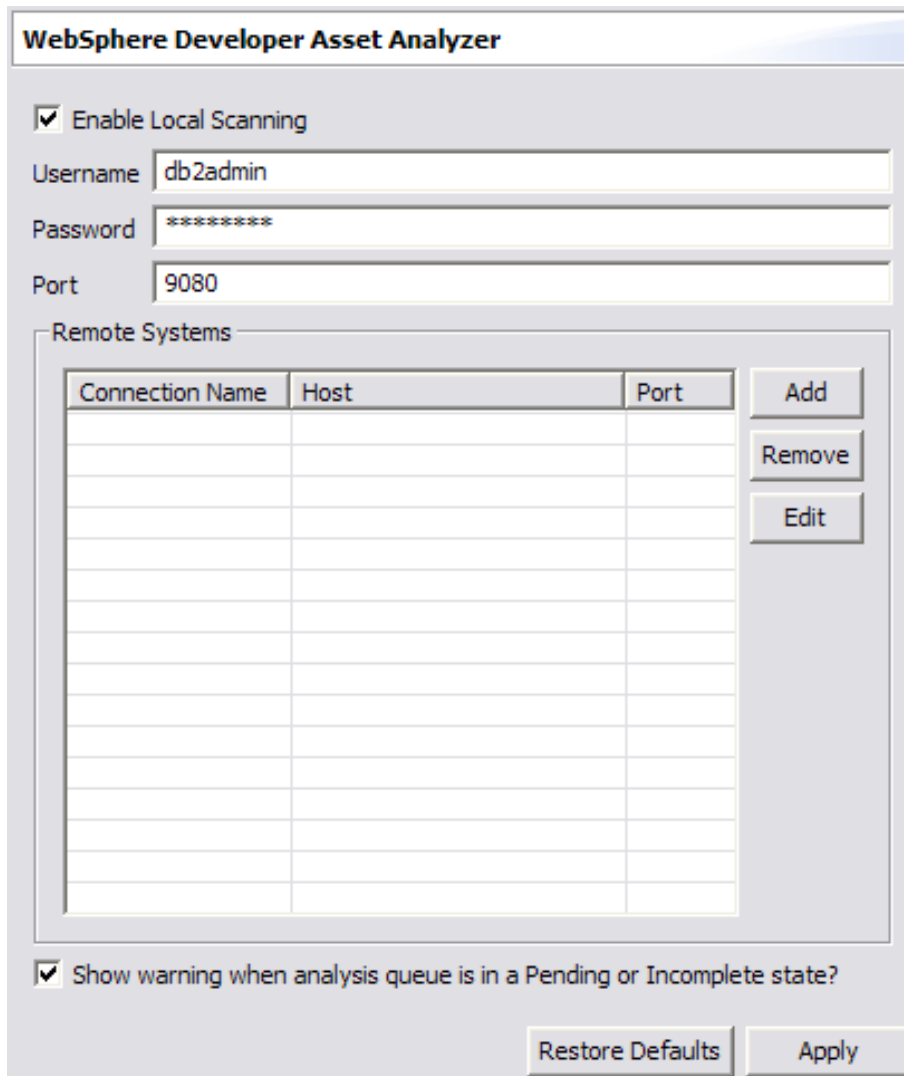
Figure 1. WebSphere Developer Asset Analyzer Preferences

3. Select **Enable Local Scanning** and type a DB2 user ID and password with administrator authority in the **Username** and **Password** fields.

4. In the **Port** field, type the port number that WebSphere Application Server is configured to use. The default is 9080.

5. Click **OK** or **Apply**.

Disabling local scanning

To disable local scanning, open the WebSphere Developer Asset Analyzer preferences page and clear the **Enable Local Scanning** check box. If you leave the values entered in the **Username**, **Password**, and **Port** fields, WebSphere Developer Asset Analyzer can search the local files that have already been scanned. The search results, however, will reflect the content of files when they were last scanned and will not provide up—to—date information.

Defining a remote system

WebSphere Developer Asset Analyzer allows you to search for assets on a remote z/OS host on which WebSphere Studio Asset Analyzer v4.1.0 is installed and

running. To do so, you need to define how to connect to the remote system using the Remote Systems dialog. To define a remote system, do one of the following:

From the WebSphere Developer Asset Analyzer Preferences page

1. Click the **Add** button in the Remote Systems section of the page. The Add Remote System dialog opens.
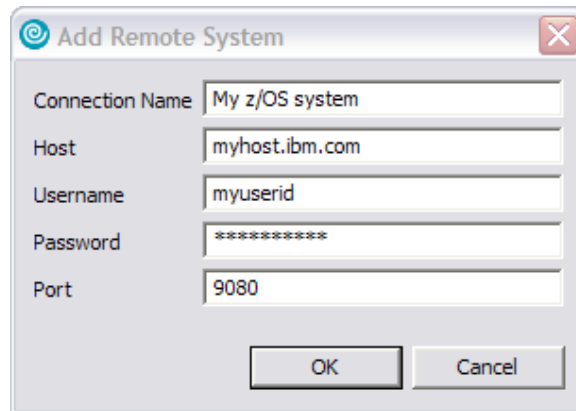

Figure 2. Add Remote System dialog

2. In the Add Remote System dialog complete each field as follows:

   Connection Name
   Type a name to identify this connection. This name is used on the WebSphere Developer Asset Analyzer search page to identify a remote system to search.

   Host Type the host name or IP address of the remote system on which WebSphere Studio Asset Analyzer is installed.

   Username
   Type a user ID that has access to WebSphere Studio Asset Analyzer on the remote system.

   Password
   Type a valid password for the user ID.

   Port Type a port address appropriate for the installation of WebSphere Studio Asset Analyzer on the remote system. The default port address is 9080.

3. Click **OK**. The connection is added to the Remote Systems section of the page.

From the WebSphere Developer Asset Analyzer search page

1. To open the WebSphere Developer Asset Analyzer search page, select **Search** from the WebSphere Developer for zSeries **Search** menu and then select the **WebSphere Developer Asset Analyzer** tab.
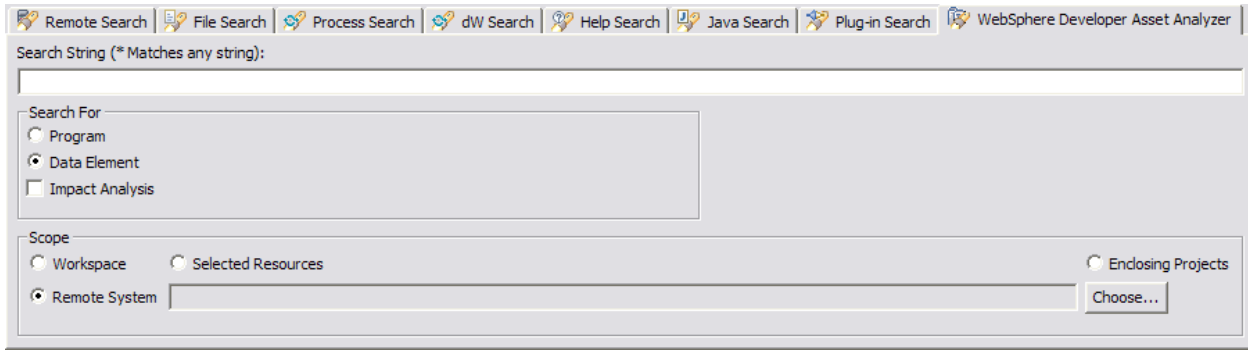
Figure 3. WebSphere Developer Asset Analyzer search page

2. Select **Remote System** from the **Scope** section of the page and then click **Choose**. The Remote systems dialog opens.
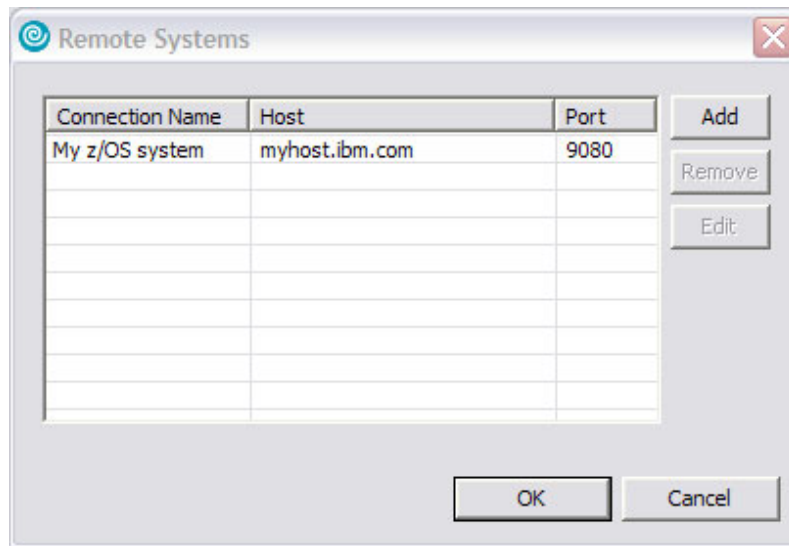
Figure 4. Remote Systems dialog

3. Click **Add** to open the Add Remote System dialog and complete the fields as described in "From the WebSphere Developer Asset Analyzer Preferences page" on page 3.

After you have added a remote system, you can search it by selecting it from the list of available connections. See "Searching for declarations of data elements and programs" on page 4 for instructions.

Searching for declarations of data elements and programs

WebSphere Developer Asset Analyzer allows you to search through COBOL and PL/I files that have been scanned for declarations of data elements and programs. The search against local files works only if a user name, password, and port are supplied on the WebSphere Developer Asset Analyzer Preferences page.

To search for declarations of data elements and programs, follow these steps:

1. From the WebSphere Developer for zSeries **Search** menu, select **Search**, or press **Ctrl+h**. The Search dialog opens.

2. Click the **WebSphere Developer Asset Analyzer** tab.

Figure 5. WebSphere Developer Asset Analyzer search page

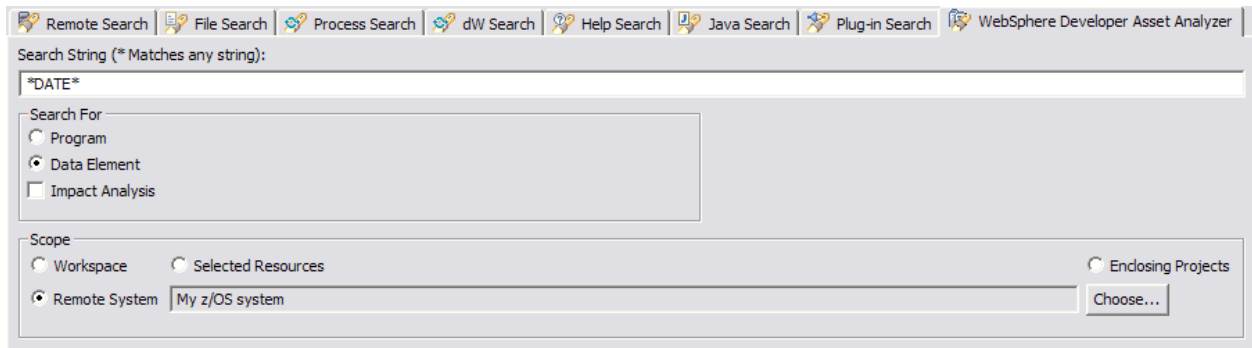3. In the **Search String** field, type the string you want to search for. Search strings are not case-sensitive and can include * as a wildcard character. Searching on p*t, for example, yields results for both "PRINT" and "pTot".

4. To select the asset type you want to search for, select **Program** or **Data element**. Ignore the **Impact Analysis** check box for now; you will use this option later to analyze the impact of a change.

5. To set the scope for the search, select one of the following options:

   Workspace
   > Searches your entire workspace.

   Selected Resources
   > Searches resources that are currently selected the Navigator view. To use this option, you need to select resources in the Navigator view before opening the Search dialog.

   Enclosing Projects
   > Searches the projects that hold the currently selected resources. To use this option, you need to select resources in the Navigator view before opening the Search dialog.

   Remote System
   > Searches a remote system that you have previously defined to WebSphere Developer Asset Analyzer. To use this option, follow these steps:
   >
   > a. Click **Choose** to open the Remote Systems dialog.
   >
   > b. Select a Connection Name from the list.
   >
   > c. Click **OK**.
   >
   > See "Defining a remote system" on page 2 to learn how to add a remote system connection to this list.

6. Click **Search**.

The results are displayed in the Search view. To open a file listed in the search results, double-click the file name. If you requested a data element search, the file opens with markers indicating the data element declarations.

In the event that you receive the warning, "The analysis queue is in a Pending or Incomplete state. Results might not be accurate," try your search again in a few minutes. If the warning persists, most likely the scanners encountered an error, which has been left in the analysis queue. If you are searching against a remote

system, contact your WebSphere Studio Asset Analyzer administrator to correct the problem. If you are searching locally, follow these steps:

1. Open an Internet Explorer browser on http://localhost:9080/dmh.
2. Log in using the same user name and password you use when scanning.
3. From the home page, select **Database->Analysis Queue**.
4. In the Details section of the Analysis queue information page, click the number next to **Outstanding MVS queue requests**.
5. Delete any items that show an error in the **Description** field.
6. Return to the Analysis queue information page and select **Start MVS postprocessor** from the **Actions** drop-down list.

Searching for declarations of data elements from the LPEX editor

To search for declarations of data elements in COBOL or PL/I files from the LPEX editor, follow these steps:

1. Place the cursor on the data element name you want to search for.
2. Click mouse button 2 to open the context menu and then select **Asset Analyzer Search** from the **Search** menu. The Search dialog opens.
3. Set search options. For the scope, only the **Workspace** and **Enclosing Projects** options are available.
4. Click **Search**. The search results are displayed in the Search view.

Editing a file on z/OS

After you have searched for assets on a remote system, you can edit the files on the host from your workstation, provided your z/OS host has WD/z Host Component installed. To edit a file on z/OS, follow these steps:

1. Search for assets on a remote system. See "Searching for declarations of data elements and programs" on page 4 for instructions.
2. From the results listed in the Search view, double-click the file you want to edit.

WebSphere Developer Asset Analyzer tries to open the appropriate file using Remote Systems Explorer (RSE). If you have not defined an RSE connection to the host, a wizard opens to guide you in setting up a remote connection to the appropriate host.

Analyzing the impact of a change

WebSphere Developer Asset Analyzer can help you determine the impact of changing a data element on a local or remote system. Performing an impact analysis returns a scalable vector graph (SVG) diagram that shows which other assets are affected by a change to a particular data element. To see this diagram, you need to install the Adobe SVG Viewer. Refer to the readme file for software prerequisites and installation instructions.

To perform an impact analysis on a data element, follow these steps:

1. From the WebSphere Developer for zSeries **Search** menu, select **Search**, or press **Ctrl+h**. The Search dialog opens.
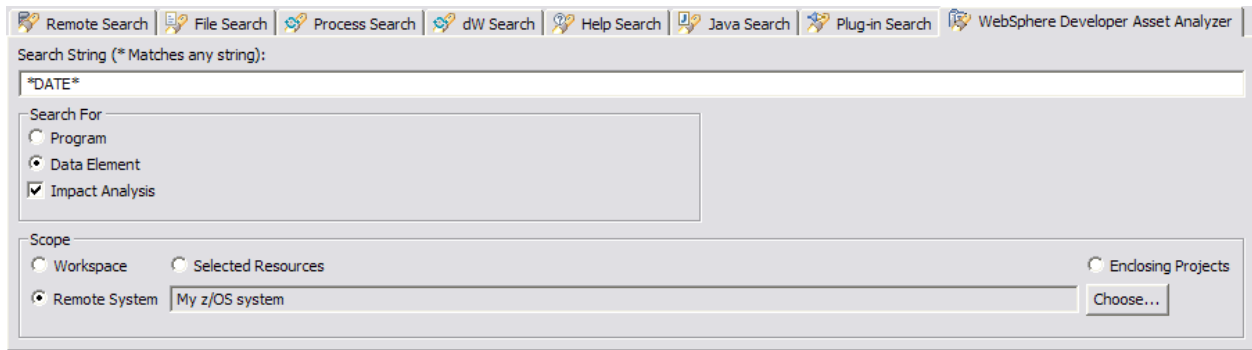
Figure 6. Search fields for an impact analysis

2. Click the **WebSphere Developer Asset Analyzer** tab.

3. In the **Search String** field, type the string you want to search for. Search strings for impact analysis cannot include wildcard characters.

4. Select **Data element** as the asset type to search.

5. Click the **Impact Analysis** check box.

6. To set the scope for the search, select one of the following options:

   Workspace
   Searches your entire workspace. The impact analysis does not differentiate between Workspace, Selected Resources, or Enclosing Projects scopes. An impact analysis is always performed against all scanned files.

   Remote System
   Searches a remote system that you have previously defined to WebSphere Developer Asset Analyzer. To use this option, follow these steps:

   a. Click **Choose** to open the Remote Systems dialog.

   b. Select a Connection Name from the list.

   c. Click **OK**.

   See "Defining a remote system" on page 2 to learn how to add a remote system connection to this list.

The impact analysis may take some time to complete. After it is finished, a Web browser opens with an impact analysis diagram.

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