

IBM Cognos Dynamic Query Analyzer
Version 11.0.0

Installation and Configuration Guide



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Product Information

This document applies to IBM Cognos Analytics version 11.0.0 and may also apply to subsequent releases.

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Introduction

IBM® Cognos® Dynamic Query Analyzer (DQA) provides a graphical interface for the execution tree logs produced by dynamic query mode queries.

DQA allows a report administrator to easily identify all the individual pieces of a dynamic query mode query and troubleshoot your query performance.

This document contains instructions for installing IBM Cognos Dynamic Query Analyzer.

Finding information

To find product documentation on the web, including all translated documentation, access IBM Knowledge Center (<http://www.ibm.com/support/knowledgecenter>). Release Notes are published directly to IBM Knowledge Center and include links to the latest technotes and APARs.

You can also read PDF versions of the product online help files by clicking the PDF links at the top of each HTML page, or access the PDFs from the IBM Cognos product documentation web page (www.ibm.com/support/docview.wss?uid=swg27047187).

Accessibility features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products. This product has accessibility features. For information on these features, see “Accessibility features,” on page 5.

IBM Cognos HTML documentation has accessibility features. PDF documents are supplemental and, as such, include no added accessibility features.

Forward-looking statements

This documentation describes the current functionality of the product. References to items that are not currently available may be included. No implication of any future availability should be inferred. Any such references are not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of features or functionality remain at the sole discretion of IBM.

Install and configure Dynamic Query Analyzer

Install Dynamic Query Analyzer from the installation wizard. After you install the product, use IBM Cognos Configuration to configure the product.

Supported environments

To ensure that your product works properly, apply all of the required operating system patches, and use only the supported versions of third-party software.

To review an up-to-date list of environments that are supported by IBM Cognos Analytics products, including information on operating systems, patches, browsers, web servers, directory servers, database servers, and application servers, see the IBM Software Product Compatibility Reports page (www.ibm.com/support/docview.wss?uid=swg27047186).

Unless otherwise indicated, IBM Cognos products are compatible with later versions of patches or service packs from the versions stated.

It is important to note that the Linux operating system is available in a number of distributions and supports a number of hardware platforms. Ensure that the combination of the operating system and hardware that you are using is supported.

Cognos products and virtualization environments

The IBM virtualization policy (www.ibm.com/software/support/virtualization_policy.html) describes IBM support for virtualization environments.

For more information, search supported server virtualization environments by product (pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity/vesForProduct.html).

Configure Dynamic Query Analyzer

Use IBM Cognos Configuration to configure Dynamic Query Analyzer. If you are using a Linux operating systems, you must ensure that you set the JAVA_HOME environment variable before you start IBM Cognos Configuration.

Install Dynamic Query Analyzer

Use the following steps to install Dynamic Query Analyzer.

Procedure

1. Go to the location where you downloaded and extracted the installation files, and choose the operating system directory, such as winx64h.
 - On Microsoft Windows operating systems, double-click the `ca_dqa_<platform>_<build>.exe` file.
 - On Linux operating systems, type `./ca_dqa_<platform>_<build>`.
2. Follow the directions in the installation wizard.

Update your Java environment on Linux operating systems

For Linux operating systems, ensure that you set the JAVA_HOME environment variable before you start IBM Cognos Configuration.

Procedure

1. Go to the IBM Software Compatibility reports page (www.ibm.com/support/docview.wss?uid=swg27042164).
2. Ensure that you have, at minimum, the Java™ version indicated.
3. Set a JAVA_HOME environment variable to your installed version of Java.

Creating a virtual directory to access log files

If you do not install Dynamic Query Analyzer on the same computer as you install IBM Cognos Analytics server, you can create a virtual directory, or alias, to allow Dynamic Query Analyzer to read query log files and workflow log files.

If you are using Dynamic Query Analyzer only to run the Aggregate Advisor, you do not have to create the virtual directory.

Procedure

Create a virtual directory that is named DQLogs that refers to the `<cognos_analytics_server_installation_location>/logs/XQE` location on the IBM Cognos Analytics server.

- For Apache Web Server or IBM HTTP Server, the directory definition would look like the following example:

```
Alias /DQLogs "<cognos_analytics_server_installation_location>/logs/XQE"

<Directory "<cognos_analytics_server_installation_location>/logs/XQE">
    Order allow,deny
    Allow from all
    Options +Indexes
</Directory>
```

- For Microsoft Internet Information Services (IIS), you must enable the **Allow double escaping** option for the virtual directory properties.
 - In the **Internet Information Services (IIS) Manager** console, create the virtual directory.
 - Select the virtual directory, and double-click **Directory Browsing**.
 - Click **Enable**.
 - Select the virtual directory, and double-click **Request Filtering**.
 - Click **Edit Feature Settings**.
 - Enable **Allow double escaping**, and click **OK**.

Start IBM Cognos Configuration

Use IBM Cognos Configuration to configure Dynamic Query Analyzer.

Before you begin

On Linux operating systems, ensure that you update your Java environment before you start IBM Cognos Configuration.

Procedure

Do one of the following steps:

- On Microsoft Windows operating systems, from the **Start** menu, click **Programs > IBM Cognos Dynamic Query Analyzer > IBM Cognos Configuration**.
If you are using a Windows Vista, Windows 7, or Windows 2008 computer, and you have installed the product to the Program Files (x86) directory, start IBM Cognos Configuration as an Administrator.
- On Linux operating systems, go to the `<installation_location>/bin64` directory and then type the following command:
`./cogconfig.sh`
If IBM Cognos Configuration does not open, ensure that you set the DISPLAY environment variable.
If you see a `JAVA.Lang.unsigned` link message, verify that you are using a supported version of Java.
If you see a `Java.lang.UnsupportedClassVersionError` message, ensure that you are using a 64-bit version of Java.

Connect to IBM Cognos Analytics server

To configure Dynamic Query Analyzer, you must specify the location of the IBM Cognos Analytics gateway and a dispatcher for the server that contains the reports that you want to analyze.

Procedure

1. In IBM Cognos Configuration, in the **Explorer** window, click **Environment**.
2. Enter the **Gateway URI** and **Dispatcher URI for external applications** values for the IBM Cognos Analytics server.
3. Click **File > Save**.
4. Close IBM Cognos Configuration.

Viewing data from another version

Dynamic Query Analyzer displays results from a workspace that is defined in the `DQA.ini` file. You can change the workspace by editing the `DQA.ini` file.

For example, if you have two versions of Dynamic Query Analyzer, each version refers to its own workspace. If you want to view results from another version, you can edit the `DQA.ini` file to refer to the workspace of your other version.

Important: Dynamic Query Analyzer can display results from one workspace at a time. Ensure that you change the **-data** path back to the original location when you want to view those results.

Procedure

1. Go to the `installation_location/dqa/os-version/eclipse/workspace` directory where you installed the new version of Dynamic Query Analyzer.
2. Open `DQA.ini` in a text editor.
3. Edit the **-data** path to point to the workspace of your previous version of Dynamic Query Analyzer.
4. Save and close the file.

Start Dynamic Query Analyzer

Before you start Dynamic Query Analyzer ensure that you save your configuration settings, and that the IBM Cognos server is running.

Procedure

1. Do one of the following steps:
 - On Microsoft Windows operating systems, from the **Start** menu, click **Programs > IBM Cognos Dynamic Query Analyzer > IBM Cognos Dynamic Query Analyzer**.
 - On Linux operating systems, go to the `<installation_location>/bin64` directory and then type the following command:

```
./dqa.sh
```
2. If you are using Dynamic Query Analyzer for query log file analysis, do the following steps.
 - a. Click **Window > Preferences > Logs**.
 - b. In the **Logs directory URL** box, enter the path to the virtual directory created in “Creating a virtual directory to access log files” on page 2.
 - c. If the **Logs directory URL** link is secured, enter the required user name in the **Name** box and password in the **Password** box.
3. Test the configuration of Dynamic Query Analyzer.
 - a. In Dynamic Query Analyzer, click **Windows > Show View**.
 - b. In the **Show View** dialog box, click **Navigation > Content Store**, and click **OK**.

If the configuration is correct, in the **Content Store** pane, the IBM Cognos content from the specified server displays.

Appendix. Accessibility features

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

See the IBM Accessibility Center (<http://www.ibm.com/able>) for more information about the commitment that IBM has to accessibility.

Keyboard shortcuts for the installation wizard

Keyboard shortcuts, or shortcut keys, provide you with an easier and often faster method of navigating and using software.

The installation wizard uses standard Microsoft Windows operating system navigation keys in addition to application-specific keys.

Note: The following keyboard shortcuts are based on US standard keyboards.

The following table lists the keyboard shortcuts that you can use to perform some of the main tasks in the installation wizard on the Windows operating system.

Table 1. List of keyboard shortcuts on a Windows operating system

To do this	Press
Move to the next field on a page	Tab
Return to the previous field on a page	Shift+Tab
Close the installation wizard	Alt+F4
Move to the next configuration step	Alt+N
Return to the previous configuration step	Alt+B
Move to the next selection in a list	Down arrow
Move to the previous selection in a list	Up arrow

The following table lists the keyboard shortcuts you can use to perform some of the main tasks in the installation wizard on the UNIX or Linux operating system.

Table 2. List of keyboard shortcuts on a UNIX or Linux operating system

To do this	Press
Move to the next field on a page	Tab
Return to the previous field on a page	Shift+Tab
Close the installation wizard	Alt+F4
Move to the next selection in a list	Down arrow
Move to the previous selection in a list	Up arrow

The following table lists the keyboard shortcuts you can use to perform some of the main tasks in the License Agreement page of the installation wizard.

Table 3. List of keyboard shortcuts on the License Agreement page

To do this	Press
Accept the license agreement	Alt+A
Decline the license agreement	Alt+D
Quit the installation wizard	Alt+x

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