MarkLogic Server

Getting Started With MarkLogic Server

MarkLogic 6
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1.0 Introduction to MarkLogic Server

MarkLogic Server is a powerful software solution for harnessing your digital content base. MarkLogic Server enables you to build complex applications that interact with large volumes of XML, SGML, HTML, JSON, and other popular content formats. The unique architecture of MarkLogic Server ensures that your applications are both scalable and high-performance, delivering query results at search-engine speeds while providing transactional integrity over the underlying content repository.

1.1 Requirements

Before using the procedures in this guide, you must first install MarkLogic Server, including accepting the MarkLogic License Agreement and creating the initial MarkLogic user. Both a successful installation and acceptance of the license agreement are required before using the software. For instructions on installing the software, including a list of supported platforms, see the *Installation Guide*.

1.2 About this Document

This document describes how to get started using MarkLogic Server on your system. It introduces some concepts of MarkLogic Server and XQuery, and is intended for first-time users of MarkLogic Server. For more detail on other aspects of MarkLogic Server, see the following documentation, available on http://docs.marklogic.com/:

Documentation	Description
Release Notes	Contains a summary of new features, upgrade compatible information, and known issues.
Installation Guide	Provides procedures for installing MarkLogic Server.
Administrator's Guide	Provides procedures for administrative tasks such as creating servers, creating databases, backing up databases, creating users, setting up your security policy, and so on.
Scripting Administrative Tasks Guide	Provides information on writing code to script various administrative tasks such as creating and modifying databases, App Servers, and so on.
Database Replication Guide	Provides information on database replication, useful for disaster recovery scenarios.
Flexible Replication Guide	Provides information on Flexible Replication, useful for information sharing from one database to another.

Documentation	Description
Application Developer's Guide	Provides procedures, methodologies, and conceptual information about general MarkLogic Server application development tasks.
Search Developer's Guide	Provides procedures, methodologies, and conceptual information about search-based application development tasks.
Application Builder Developer's Guide	Provides step-by-step information on using Application Builder to build a search application, and also provides information on customizing applications built with Application Builder.
Information Studio Developer's Guide	Provides step-by-step information on using Information Studio to load and transform content.
REST Application Developer's Guide	Provides information on administration of and application development using the MarkLogic REST API.
Java Application Developer's Guide	Provides procedures, methodologies, and conceptual information about developing MarkLogic Server applications using the Java API.
Monitoring MarkLogic Guide	Provides information on monitoring MarkLogic Server, including using the built-in monitoring tools and integrating with external tools such as Nagios and HP Operations Manager.
MarkLogic Connector for Hadoop Developer's Guide	Provides information on the MarkLogic Connector for Hadoop, a Java library to help you build applications that combine MarkLogic Server and Hadoop map-reduce jobs.
Content Processing Framework Guide	Provides an introduction to the Content Processing Framework and procedures for installing the default content processing framework.
Understanding and Using Security Guide	Provides information on the role-based security model in MarkLogic Server.
Query Performance and Tuning Guide	Provides performance-related information that is useful to application developers and administrators.
Scalability, Availability, and Failover Guide	Provides information on large-scale system architecture, clustering, availability, and details on setting up shared-disk and local-disk failover.

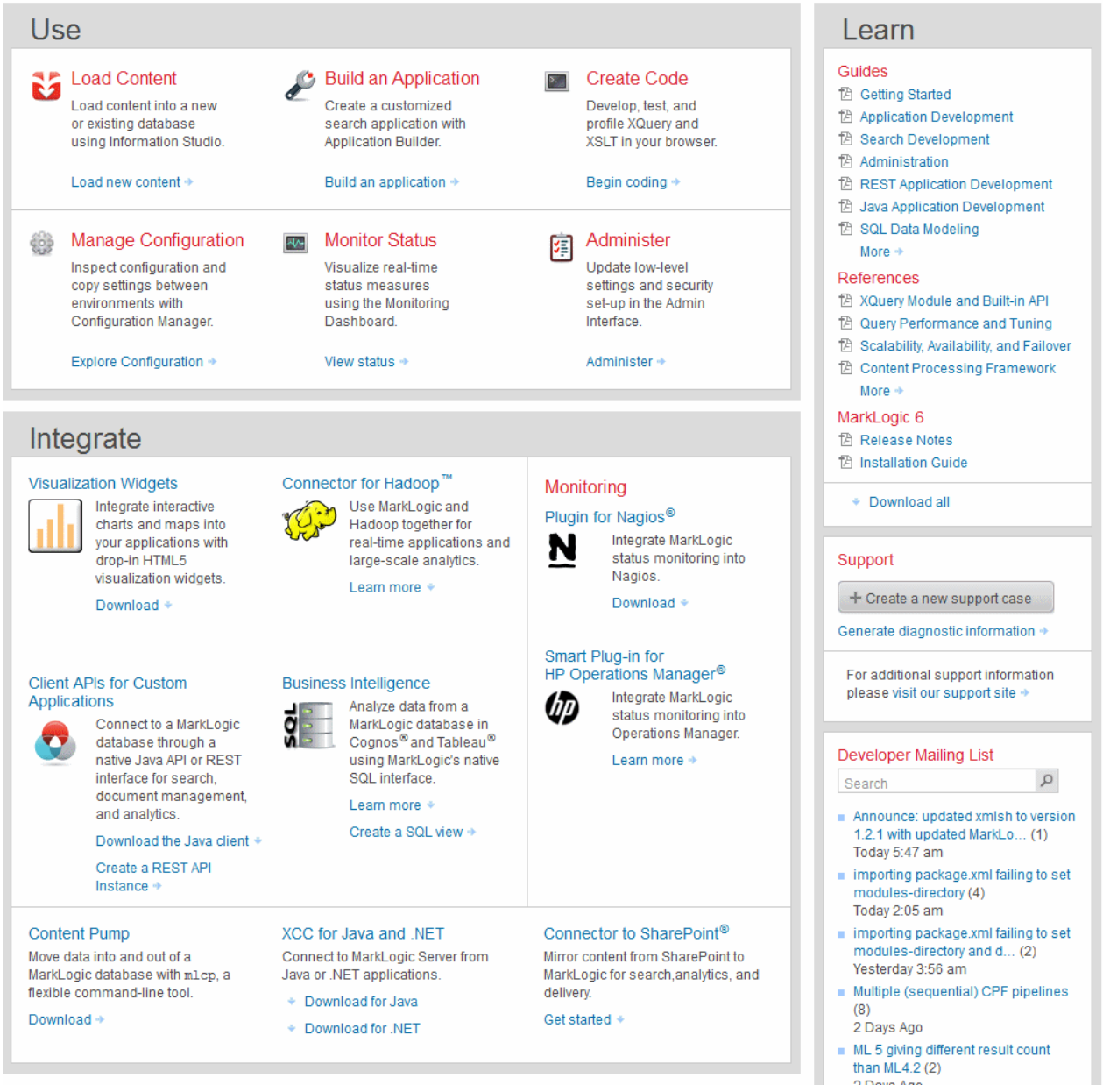
Documentation	Description
Query Console User Guide	Provides step-by step information on using Query Console, a tool to create and run arbitrary XQuery code.
SQL Data Modeling Guide	Provides information on how to use MarkLogic's SQL interface, including the creation of relational schemas and views.
Loading Content Into MarkLogic Server Guide	Provides procedures, methodologies, and conceptual information about loading content into MarkLogic Server. Includes an overview of ingestion techniques available using XQuery, Java, REST, .NET, and the MarkLogic Content Pump (mlcp).
MarkLogic XQuery and XSLT Function Reference	API documentation for the MarkLogic built-in and module extensions to the XQuery standard functions, as well as API documentation for the W3C functions implemented in MarkLogic Server.
MarkLogic REST API Reference	API documentation for the REST API.
XCC Javadoc and .Net C# API Documentation	API documentation for the MarkLogic XML Contentbase Connector for Java API (XCC/J) and .Net XCC C# API documentation.
XCC Developer's Guide	An overview of the what you can do with the XCC libraries, examples of how to use XCC, and an overview of the sample applications included with XCC.
XQuery and XSLT Reference Guide	A condensed overview of the XQuery language, including information on the three XQuery dialects in MarkLogic Server. This book does include some syntax information, although it is primarily intended as in introduction and quick-reference to the language, not as a comprehensive reference.
Getting Started with MarkLogic Server	A quick, step-by-step overview of how to get up and running with MarkLogic Server.

2.0 MarkLogic Server Entry Page

The MarkLogic Server Entry Page provides access to administrative, development, and other MarkLogic Server resources.

In your Start menu, go to MarkLogic Server and select Use MarkLogic Server, or enter the following URL (substitute your hostname if MarkLogic is not running on your local machine):

http://localhost:8000/



2.1 Use

This section includes links to the following applications that are part of your MarkLogic Server installation:

Category	Description
Load Content	This link launches Information Studio. For details, see the *Information Studio Developer's Guide*.
Build an Application	This link launches Application Builder. For details, see the *Application Builder Developer's Guide*.
Create Code	This link launches Query Console. For details, see the *Query Console User's Guide*.
Manage Configuration	This link launches the Configuration Manager. For details, see Using the Configuration Manager in the *Administrator's Guide*.
Monitor Status	This link launches the Monitoring Dashboard. For details, see the *Monitoring MarkLogic Guide*.
Administer	This link launches the Admin Interface. For details, see the *Administrator's Guide*.

2.2 Integrate

This section describes various connectors and tools that integrate with MarkLogic Server, including monitoring tool integrations that are described in the *Monitoring MarkLogic Guide*.

2.3 Explore

This section includes external links to varios MarkLogic applications, including he Oscars Explorer application. For details, see Using the Oscars Sample Application in the *Application Builder Developer's Guide*.

2.4 Community

This section includes links to various projects on the MarkLogic Developer Community (developer.marklogic.com) home page. These include open-source tools such as an Eclipse plug-in, Record Loader, XQSync, and many other useful projects.

2.5 Learn

This section includes links to the documentation and other resources available to help you learn about MarkLogic Server, including the following:

Category	Description
Guides and Reference	These sections include links to the various procedural and reference documentation for MarkLogic Server.
MarkLogic 6	This section includes links to the release-specific documentation for MarkLogic Server.
Support	This section includes a link to the MarkLogic support site and links to open a support case and get diagnostic information about your installation.
Developer Mailing List	This section includes links to various topics made available through the MarkMail application.

MarkLogic University provides technical training for developers and administrators. See www.marklogic.com/products-and-services/training for the class schedules and course descriptions.

3.0 Getting Started with MarkLogic Using REST or Java

MarkLogic 6 includes a REST API and a Java API. These APIs allow you to create full-featured, complex applications that create and update content in a MarkLogic database, search your content and return search results as well as facets, store JSON documents in MarkLogic, and much more. These APIs allow you to create these applications without needing to write any XQuery code.

To quickly get started, first run through Getting Started with the MarkLogic REST API in the *REST Application Developer's Guide*. You can use the REST API directly using an HTTP tool like cURL, or you can write a thin layer on top of it in your favorite scripting or programming language and then quickly use the language you are familiar with.

The Java API is built on top of the REST API. It includes the functionality of the REST API and is designed to be a familiar interface for Java developers. To get started with the Java API, see Getting Started in the *Java Application Developer's Guide*.

4.0 Getting Started with MarkLogic XQuery Applications

This section describes the following procedures to get started using MarkLogic Server on your system:

- Exploring the Use Cases
- Creating a New App Server
- Sample XQuery Application

Be sure to complete each procedure in the order presented.

4.1 Exploring the Use Cases

As part of the XQuery standard, the W3C working group has assembled a set of use cases that demonstrate how XQuery can be used to accomplish a variety of sample tasks. As part of its installation process, MarkLogic Server provides a workspace for Query Console containing working demonstrations of these use cases. The use cases provide an excellent starting point for familiarizing yourself with the XQuery language and with some important aspects of MarkLogic Server.

To explore the use cases, complete the following steps:

1. Go to the following URL (substitute your hostname if MarkLogic is not running on your local machine):

   http://localhost:8000/

2. Click the Query Console button in the top navigation bar.

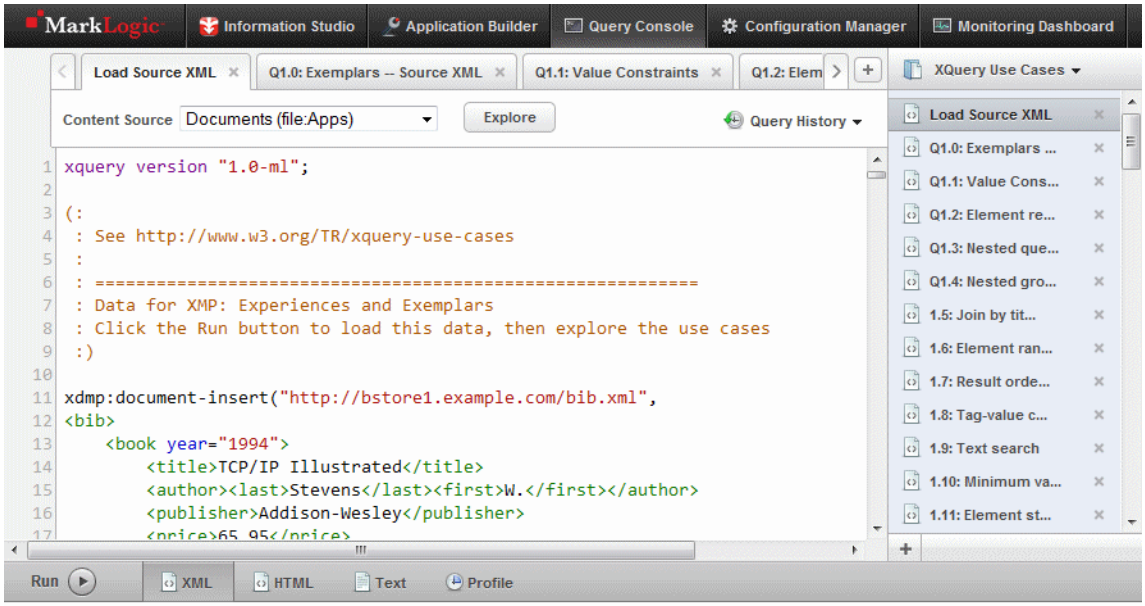
3. In Query Console, click the Workspace link (towards the upper right corner of Query Console) and select Import...

4. Navigate to `<marklogic-dir>/Samples/w3c-use-cases.xml`.

   Note: If MarkLogic is running on the same machine as your browser, you can navigate to this directory (for example, `c:/Program Files/MarkLogic/Samples` on Windows or `/opt/MarkLogic/Samples` on Linux), but if MarkLogic is installed on a remote server, then you must copy this file from the server to the machine in which your browser is running, and then navigate to the directory where you copied the file.

5. Click Import. The W3C XQuery use cases are imported into Query Console.

6. Click Load Source XML query buffer in the workspace pane to display the query into Query Console.



7. Click the Run button.

   A confirmation message displays indicating the documents have been loaded.

8. The use cases are divided into the following categories, with each category having several queries:

   - 1.0: Exemplars
   - 2.0: Tree
   - 3.0: Sequence
   - 4.0: Relational
   - 5.0: SGML
   - 6.0: String Search
   - 7.0: Namespace
   - 8.0: Recursive
   - 9.0: Strong

At this point, you have different options to explore the use cases. We recommend you use the following procedures as examples to maximize your experience with the use cases:

- Viewing the Source XML
- Viewing a Use Case
- Editing a Use Case

You can complete these procedures in any order.

4.1.1 Viewing the Source XML

Note: This procedure focuses on the first use case topic, "1.0: Exemplars." You can view the source XML for any of the use cases.

To view the source XML, complete the following steps:

1. Click the 1.0 Source XML query buffer in the workspace pane to display the query into Query Console.
2. View the source code in the query editor tab.
3. Click Run.
4. View the source XML at the bottom in the XQuery Results pane.

4.1.2 Viewing a Use Case

Note: This procedure focuses on the first use case in "Exemplars." You can view any use case in other topics as well.

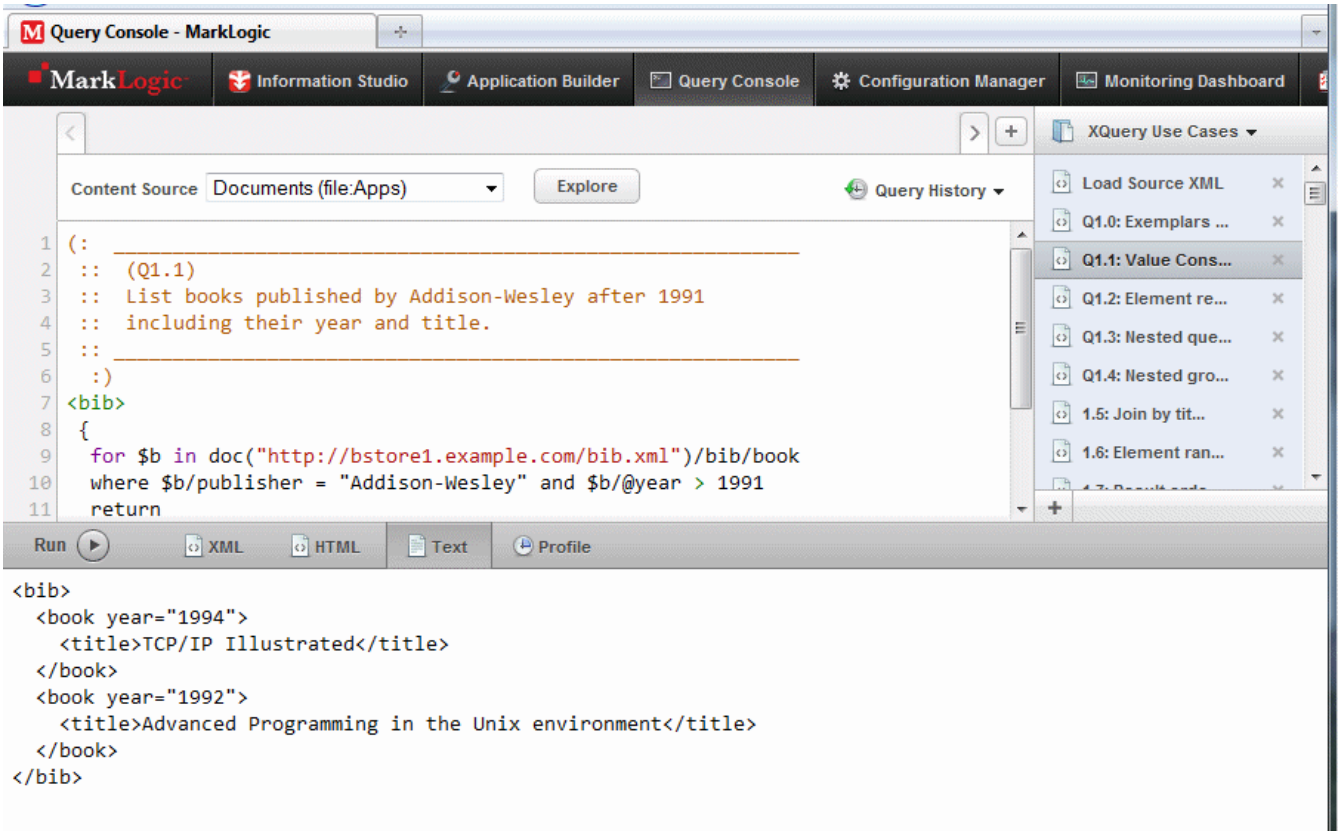
To view the use case, complete the following steps:

1. Click the 1.1 Value constraints query buffer in the workspace pane to display the query into Query Console.
2. View the source code in the query editor tab.

   ```
   Lists books published by Addison-Wesley after 1991 including their year
   and title.
   ```

   Notice that XQuery comments are wrapped in "smiley faces": `(: comment :)`
3. Click Run.
4. View your results.

The following shows the results:



4.1.3 Editing a Use Case

Note: This procedure focuses on the first use case in "Exemplars." You can edit any use case in the list.

To edit a use case, complete the following steps:

1. Click the 1.1 Value constraints query buffer in the workspace pane to display the query into Query Console.

2. View the source code in the query editor tab.

3. Change the following source from:

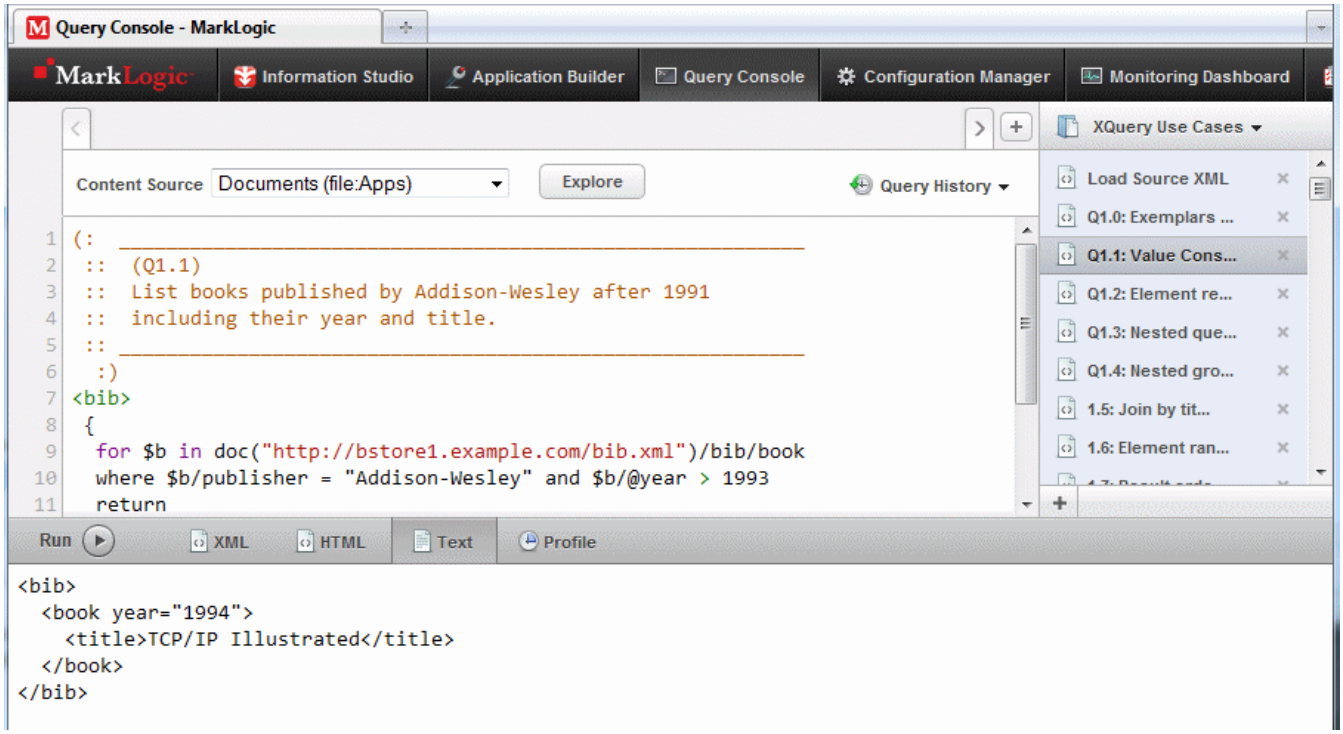
```
where $b/publisher = "Addison-Wesley" and $b/@year > 1991
```

to:

```
where $b/publisher = "Addison-Wesley" and $b/@year > 1993
```

4. Click Run.

5. View the new query results.



Note: You may change the source as much as you like. Explore and customize each use case as thoroughly as possible. You can reload the workspace from the Sample directory to restore it.

4.2 Creating a New App Server

In this section, you create a new HTTP App Server. An App Server is used to evaluate XQuery code against a MarkLogic database and return the results to a browser. This App Server uses the Documents database, which is installed as part of the MarkLogic Serverinstallation process. In “Sample XQuery Application” on page 18, you use this App Server to run a sample XQuery application.

To create a new App Server, complete the following steps:

1. Open a new browser window or tab.

2. Open the Admin Interface by navigating to the following URL (substitute your hostname if MarkLogic is not running on your local machine):

   http://localhost:8001/

3. Log in with your admin username and password.

4. Click the Groups icon on the left.

5. Click on the Default icon within the Groups branch.

6. Click on the App Servers icon within the Default group.

7. Click the Create HTTP tab.

8. Go to the HTTP Server Name field and enter TestServer.

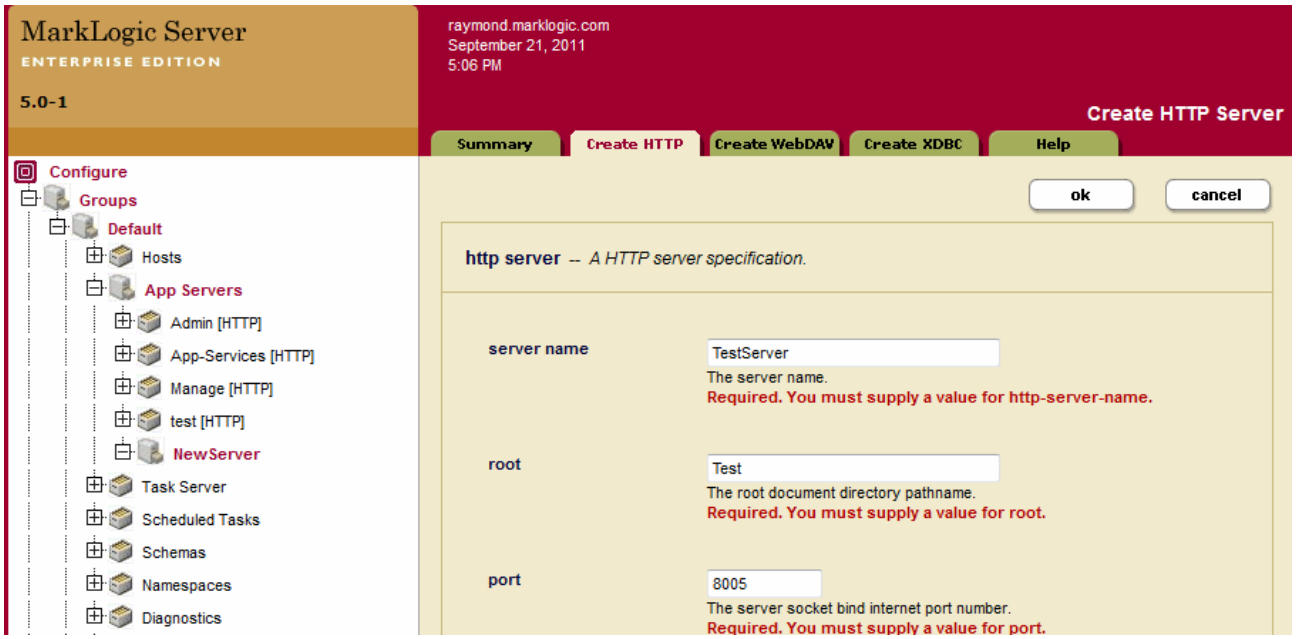
   This is the name that the Admin Interface uses to reference your server on display screens and in user interface controls.

9. Go to the Root directory field and enter Test.

   By default, the software looks for this directory in your MarkLogic Server program directory, as specified in the *Installation Guide*. You can also specify an absolute path (such as `C:\MarkLogicFiles\Test` on a Windows platform or `/space/test` on a Linux platform).

10. Go to the Port field and enter 8005.

    The following screen shows an HTTP server with these values:

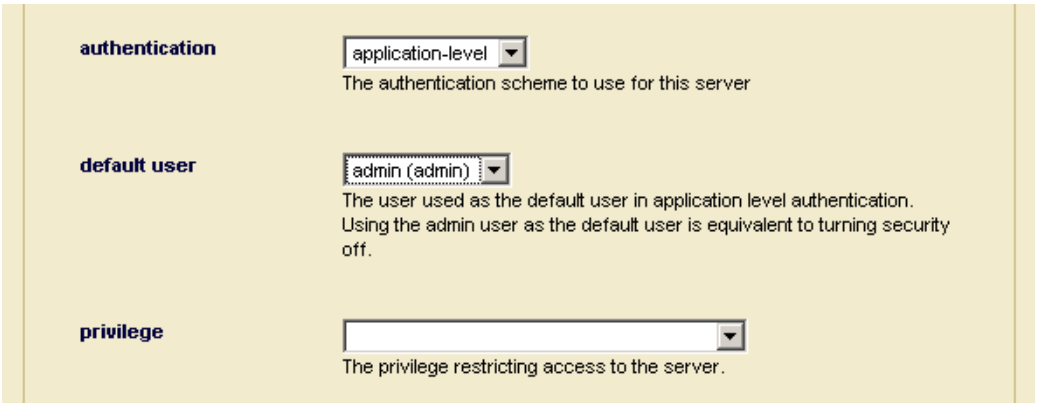


11. Scroll down to Authentication and select `application-level`.

12. Choose an admin user (it has the word `admin` in parenthesis) as the Default User.

13. Leave the privilege field blank.

    The following screen shows an HTTP server with these values



14. Scroll to the top or bottom and click OK.

15. See that TestServer is added to the HTTP Server branch.

4.3 Sample XQuery Application

In this section, you create a sample XQuery application. This is a simple browser-based application that allows you to load and modify some data.

To create and run the sample XQuery application, complete the following steps:

1. Use the following table to locate your MarkLogic Server installation directory (*<marklogic-dir>*):

Platform	Installation Directory
Microsoft Windows	`C:\Program Files\MarkLogic`
Red Hat Linux	`/opt/MarkLogic`
Sun Solaris	`/opt/MARKlogic`
Mac OS X	`~/Library/MarkLogic`

2. Go to this installation directory (*<marklogic-dir>*) and create a new directory called `Test`.

3. This `Test` directory is the root directory that you just configured for your new HTTP server.

4. Open a text editor and create a new file called `load.xqy` in the `Test` directory.

5. Copy and save the following code into this `.xqy` file:

```
xquery version "1.0-ml";
(: load.xqy :)
xdmp:document-insert("books.xml",
  <books xmlns="http://www.marklogic.com/ns/gs-books">
    <book bookid="1">
      <title>A Quick Path to an Application</title>
      <author>
        <last>Smith</last>
        <first>Jim</first>
      </author>
      <publisher>Scribblers Press</publisher>
      <isbn>1494-3930392-3</isbn>
      <abstract>This book describes in detail the power of how to use
XQuery to build powerful web applications that are built on the
MarkLogic Server platform.</abstract>
    </book>
  </books>
),

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Database loaded</title>
  </head>

  <body>
<b>Source XML Loaded</b>
<p>The source XML has been successfully loaded into the database</p>
  </body>
</html>
```

6. Create another file called `dump.xqy` in the `Test` directory.

7. Copy and save the following code into this `.xqy` file:

```
xquery version "1.0-ml";
(: dump.xqy :)
declare namespace bk = "http://www.marklogic.com/ns/gs-books";

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Database dump</title>
  </head>
  <body>
  <b>XML Content</b>
{
    for $book in doc("books.xml")/bk:books/bk:book
    return
    <pre>
        Title: { $book/bk:title/text() }
        Author: { ($book/bk:author/bk:first/text(), " ",
        $book/bk:author/bk:last/text()) }
        Publisher: { $book/bk:publisher/text() }
    </pre>
}
    <a href="update-form.xqy">Update Publisher</a>
  </body>
</html>
```

8. Create another file called `update-form.xqy` in the `Test` directory.

9. Copy and save the following code into this `.xqy` file:

```
xquery version "1.0-ml";
(: update-form.xqy :)
declare namespace bk="http://www.marklogic.com/ns/gs-books";

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Change Publisher</title>
  </head>
  <body>
    {
      let $book := doc("books.xml")/bk:books/bk:book[1]
      return
      <form action="update-write.xqy">
        <input type="hidden" name="bookid" value="{ $book/@bookid }"/>
        <p><b>
Change publisher for book <i>{ $book/bk:title/text() }</i>:
        </b></p>
        <input type="text" name="publisher"
            value="{ $book/bk:publisher/text() }"/>
        <input type="submit" value="Update publisher"/>
      </form>
  }
  </body>
</html>
```

10. Create another file called `update-write.xqy` in the `Test` directory.

11. Copy and save the following code into this `.xqy` file:

```
xquery version "1.0-ml";
(: update-write.xqy :)
declare namespace bk="http://www.marklogic.com/ns/gs-books";

declare function local:updatePublisher()
{
  if (doc("books.xml")) then
    let $bookid := xdmp:get-request-field("bookid")
    let $publisher := xdmp:get-request-field("publisher")
    let $b := doc("books.xml")/bk:books/bk:book[@bookid = $bookid]
  return
      if ($b) then
    (
      xdmp:node-replace($b/bk:publisher,
            <bk:publisher>{ $publisher }</bk:publisher>)
,
       xdmp:redirect-response("dump.xqy")
    )
      else
    <span>Could not locate book with bookid { $bookid }.</span>
      else
    <span>Unable to access parent XML document.</span>
};

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Update In Process</title>
  </head>

  <body>
Attempting to complete update and redirect browser to detail page.
    <p>
If you are seeing this page, either the redirect has failed
or the update has failed.  The update has failed if there is
a reason provided below:
      <br/>
      { local:updatePublisher() }
    </p>
  </body>
</html>
```

12. Confirm that you have the following new files in your `Test` directory:

- `load.xqy`
- `dump.xqy`
- `update-form.xqy`
- `update-write.xqy`

13. Confirm that all files end with the `.xqy` extension, not the `.txt` extension.

14. Using these files, continue to the following procedures:

    - Loading the Source XML
    - Generating a Simple Report
    - Submitting New Information

    Be sure to complete these procedures in order.

4.3.1 Loading the Source XML

To load the source XML, complete the following procedure:

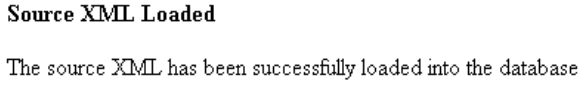
1. Open a new browser window or tab.

2. Go to the following URL (substitute your hostname if MarkLogic is not running on your local machine):

   http://localhost:8005/load.xqy

   MarkLogic Server runs the new `load.xqy` file.

3. View the following confirmation message:



4.3.2 Generating a Simple Report

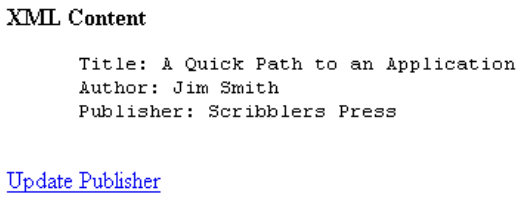
To generate a simple report from the newly loaded XML, complete the following steps:

1. Go to the following URL (substitute your hostname if MarkLogic is not running on your local machine):

   http://localhost:8005/dump.xqy

   MarkLogic Server runs the `dump.xqy` file.

2. View the new HTML-compatible report:



4.3.3 Submitting New Information

To submit new information to the database, complete the following steps:

1. Go to the following URL (substitute your hostname if MarkLogic is not running on your local machine):

   http://localhost:8005/update-form.xqy

   MarkLogic Server runs the new `update-form.xqy` file.

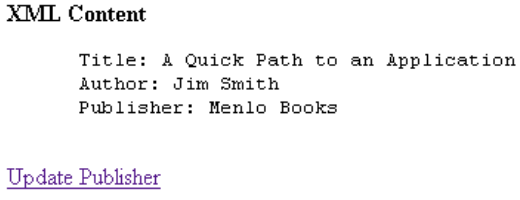
2. View the simple form to update a publisher:



3. Enter “Menlo Books” as the new publisher.

4. Click Update publisher.

   This action automatically calls `update-write.xqy`, which updates the publisher element in the database, and then redirects the browser to `dump.xqy` which displays the updated book information.



5. (Optional) Continue exploring your new files or write your own code to create new XQuery applications.

5.0 Getting Started with XQuery

This chapter describes how to use Query Console to interactively create and execute XQuery code. This chapter includes the following sections::

- About Query Console
- XQuery Mini Tutorial
- What Next?

5.1 About Query Console

Query Console is an interactive web-based query tool that is bundled with MarkLogic Server. Query Console enables you to write ad-hoc queries and view the results without using .xqy files. You can view the results as HTML, XML, or plain-text output. Query Console is designed for a modern web browser with JavaScript support and XML display.

The examples in this chapter assume you are using Query Console. To learn more about Query Console, see the Query Console Walkthrough in the *Query Console User's Guide*

5.2 XQuery Mini Tutorial

This section includes the following procedures to demonstrate how to use Query Console to take a closer look at the XQuery code in the modules from "Sample XQuery Application" on page 18:

- Creating and Inserting a Document into the Database
- Querying the Document
- Modifying the Document
- Adding a New Element to the Document

5.2.1 Creating and Inserting a Document into the Database

This section examines a simple XQuery program that creates a document. First, run the code as follows:

1. Open Query Console in a browser and create a new query.

2. Cut and paste the following code into the XQuery source editor.

```
xquery version "1.0-ml";
xdmp:document-insert("books.xml",
  <books xmlns="http://www.marklogic.com/ns/gs-books">
    <book bookid="1">
      <title>A Quick Path to an Application</title>
      <author>
        <last>Smith</last>
        <first>Jim</first>
      </author>
      <publisher>Scribblers Press</publisher>
      <isbn>1494-3930392-3</isbn>
      <abstract>
          This book describes in detail the power of how
          to use XQuery to build powerful web applications
          that are built on the MarkLogic Server platform.
      </abstract>
    </book>
  </books>
)
```

3. Click Run. Query Console indicated that your query returned the empty sequence.

Taking a closer look at this code, we see it uses the `xdmp:document-insert` function to insert a `books` node into a document with the URI, `books.xml`. The `books` node is in the `http://www.marklogic.com/ns/gs-books` namespace, which is specified with the following namespace declaration:

```
xmlns="http://www.marklogic.com/ns/gs-books"
```

For details on the use of namespaces, see Understanding XML Namespaces in XQuery in the *XQuery and XSLT Reference Guide*.

5.2.2 Querying the Document

This section examines a simple XQuery program that queries the document you previously. First, run the code as follows:

1. Create another Query Console query.

2. Cut and paste the following code into Query Console in the new query editor. This code is from the `dump.xqy` module in "Sample XQuery Application" on page 18.

```
xquery version "1.0-ml";
(: dump.xqy :)
declare namespace bk = "http://www.marklogic.com/ns/gs-books";

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Database dump</title>
  </head>
  <body>
  <b>XML Content</b>
{
    for $book in doc("books.xml")/bk:books/bk:book
    return
    <pre>
        Title: { $book/bk:title/text() }
        Author: { ($book/bk:author/bk:first/text(), " ",
        $book/bk:author/bk:last/text()) }
        Publisher: { $book/bk:publisher/text() }
    </pre>
}
  </body>
</html>
```

3. Click on the `HTML` button to view the output in HTML.

4. Click Run and examine the results.

Taking a closer look at this query, we see it binds the `bk` prefix to the namespace in which the inserted `books` node resides.

```
declare namespace bk = "http://www.marklogic.com/ns/gs-books";
```

This `bk` prefix can now be used throughout the query to reference the namespace.

The query also defines a `for` clause with an XPath expression that iterates through each child element of the `book` element. Note that the `books` and `book` elements are in the namespace bound by the `bk` prefix:

```
for $book in doc("books.xml")/bk:books/bk:book
```

For details on the `for` clause, see FLWOR Expressions in the *XQuery and XSLT Reference Guide*.

The following lines include simple XPath expressions that return the text node inside each specified element. Note that each element is in the namespace bound by the `bk` prefix:

```
Title: { $book/bk:title/text() }
Author: { ($book/bk:author/bk:first/text(), " ",
           $book/bk:author/bk:last/text()) }
Publisher: { $book/bk:publisher/text() }
```

For details on XPath, see XPath Quick Reference in the *XQuery and XSLT Reference Guide*.

5.2.3 Modifying the Document

Create another Query Console query. Cut and paste the following code into the new query to change the text in the publisher element:

```
xquery version "1.0-ml";

declare namespace bk = "http://www.marklogic.com/ns/gs-books";

xdmp:node-replace(doc("books.xml")//bk:publisher,
  <bk:publisher>Pirate's Press</bk:publisher>)
```

After running this query, rerun the query in “Querying the Document” on page 27 and notice the changed content.

5.2.4 Adding a New Element to the Document

Create another query in Query Console. Cut and paste the following code into the new query to add another `book` to the `books` element described in “Creating and Inserting a Document into the Database” on page 26:

```
xquery version "1.0-ml";

declare namespace bk = "http://www.marklogic.com/ns/gs-books";

xdmp:node-insert-child(doc("books.xml")/bk:books,
  <book bookid="2" xmlns="http://www.marklogic.com/ns/gs-books">
    <title>An Alternate Path to an Application</title>
    <author>
      <last>Smith</last>
      <first>Jim</first>
    </author>
    <publisher>Scribblers Press</publisher>
    <isbn>3491-3234352-1</isbn>
    <abstract>This book describes another way to use XQuery to build
powerful web applications that are built on the MarkLogic Server
platform.</abstract>
  </book> )
```

Taking a closer look at this query, we see it uses the `xdmp:node-insert-child` function to insert the `book` element as a child of the existing `books` element. To construct the `book` element in the same namespace as the `books` element, we explicitly declare the inserted `book` element to be in the same namespace as the `books` element:

```
<book bookid="2" xmlns="http://www.marklogic.com/ns/gs-books">
```

After running this query, rerun the query in "Querying the Document" on page 27.

5.3 What Next?

To learn more about MarkLogic Server, take a closer look at the MarkLogic documentation on docs.marklogic.com, including the following:

- For more detail on the XQuery language, see the *XQuery and XSLT Reference Guide*.
- For a complete list of standard XQuery functions and MarkLogic Server enhanced functions, see the *MarkLogic XQuery and XSLT Function Reference*.
- For details on how to build XQuery applications, see the *Application Developer's Guide* and the *Search Developer's Guide*.
- For details on the features of Query Console, see *Query Console User's Guide*.

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