MarkLogic Server

Common Criteria Evaluated Configuration Guide

MarkLogic 6
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1.0 About the Evaluated Configuration

This chapter introduces the Evaluated Configuration of MarkLogic Server, which is evaluated under the Common Criteria. This chapter includes the following sections:

- Common Criteria
- The Evaluated Configuration
- Authorized Administrator
- TOE Requirements

1.1 Common Criteria

The Common Criteria is an organization that performs evaluation of commercial products to test the security requirements of these products. MarkLogic Server is evaluated under the Common Criteria Evaluated Assurance Level 2 (EAL2). The Common Criteria web site further describes its organization as follows (from the http://www.niap-ccevs.org/cc-scheme/aboutus.cfm web page):

"The National Institute of Standards and Technology (NIST) and the National Security Agency (NSA) have established a program under the National Information Assurance Partnership (NIAP) to evaluate IT product conformance to international standards. The program, officially known as the NIAP Common Criteria Evaluation and Validation Scheme for IT Security (CCEVS) is a partnership between the public and private sectors. This program is being implemented to help consumers select commercial off-the-shelf information technology (IT) products that meet their security requirements and to help manufacturers of those products gain acceptance in the global marketplace."

For the documentation describing the Common Criteria evaluation process and methodology, see the documents at http://www.niap-ccevs.org/Big_Picture/eval-primer.cfm.

1.2 The Evaluated Configuration

The evaluated configuration of MarkLogic Server is the configuration in which the Common Criteria evaluation was performed. This is a specific version of MarkLogic Server set up in a specific way. That configuration is outlined in this guide. This guide does not explain the various features of MarkLogic Server. For information on the MarkLogic Server features, see the MarkLogic Server documentation.

This guide includes the list of features that cannot be used in an evaluated configuration, along with any needed guidelines for how to exclude these features from your configuration. The evaluated configuration assumes that the configuration is set up according to these guidelines; configurations that do not follow these guidelines are not considered evaluated configurations.

1.3 Authorized Administrator

An Authorized Administrator is any user that has the `admin` role or any user that has the privilege(s) needed to run the Admin API (`admin-module-read` and `admin-module-write`), the Security API (any of the privileges in the `security` role), or the PKI API (`pki-read` and `pki-write`). These privileges exist in roles that are installed in the TOE, such as the `security` role, or can be added to any role by an Authorized Administrator. Any role that provides access to administering security functional requirements, whether the role is predefined at installation time or user-created (by an Authorized Administrator), must be granted by an Authorized Administrator; it is the responsibility of Authorized Administrators to be aware of these privileges when granting privileges or roles to users. Furthermore, any user who has any such privileges is considered an Authorized Administrator.

Additionally, there are other administrative XQuery built-in functions (https://docs.marklogic.com/xdmp/admin) that perform functions such as starting and stopping the server, and these functions each have privileges associated with them. Any user that is granted any of the privileges associated with these functions (for example, `xdmp-shutdown`) should be considered an Authorized Administrator.

Administrators with the `admin` role have full privileges to the system. Administrators who have any of the privileges to run functions in the security-related APIs (Admin API, Security API, PKI API, and XQuery Admin built-in functions) only have those privileges that have been granted to them (via roles) by an Authorized Administrator. Those privileges each protect specific functions or sets of functions; the functions are primitives and must be used in a program with the proper logic in order to perform Security Functional Requirements. It is up to the Authorized Administrator who grants these privileges to determine which privileges a user is granted.

If administration is performed using the Admin API, Security API, PKI API, and/or the built-in Admin functions, those APIs must run against an HTTP or XDBC App Server that is set up to use SSL/TLS in FIPS mode. Actions against the Admin Interface, HTTP interfaces, and XDBC interfaces are auditable, based on the configuration for the App Server. You should audit actions based on your own security policies.

Only Authorized Administrators can manage the target of evaluation (TOE) using the Admin Interface or using the various XQuery administrative functions included with MarkLogic (the Admin API, the Security API, the PKI API, or the built-in Admin functions). Additionally, all code must be evaluated through an interface that is set up to use SSL/TLS in FIPS mode. Authorized administrators are assumed to be non-hostile, appropriately trained, and follow proper administrative procedures. For more details about the Authorized Administrator and about performing administrative tasks in MarkLogic Server, see the *Administrator's Guide* and *Understanding and Using Security Guide*. For more details about the TOE, see "Target of Evaluation (TOE)" on page 8.

1.4 TOE Requirements

This section lists the requirements for the target of evaluation (TOE). This is a subset of the platforms in which MarkLogic Server runs (see the *Installation Guide* for those details), and includes the following parts:

- MarkLogic Server TOE Platforms
- Enterprise Edition Licence Key for TOE
- Admin Interface App Server Configured to Use HTTPS in FIPS Mode
- ALL TOE Access App Server Configured to Use HTTPS in FIPS Mode and Digest Authentication
- Controlling Password Strength Via Password Plugins
- Features Not Part of the TOE
- MarkLogic Server 6.0-4

1.4.1 MarkLogic Server TOE Platforms

In an evaluated configuration, MarkLogic Server is supported on the following platforms:

- Sun Solaris 10 (x64)
- Red Hat Linux 5 or 6 (x64)

For any other details about these platforms, see the *Installation Guide*.

1.4.2 Enterprise Edition Licence Key for TOE

The TOE requires Enterprise Edition of MarkLogic Server. Enterprise Edition is enabled by an Enterprise Edition license key. Contact your sales representative or Mark Logic Support for information about obtaining a license key.

1.4.3 Admin Interface App Server Configured to Use HTTPS in FIPS Mode

The App Server in which the Admin Interface runs must be configured to use HTTPS in FIPS mode. To configure HTTPS on the Admin App Server, follow the procedure described in “Configure the Admin App Server to Use HTTPS in FIPS Mode” on page 13. Additionally, any App Server where Admin API or Security API functions are run must also be set up to use HTTPS in FIPS mode.

1.4.4 ALL TOE Access App Server Configured to Use HTTPS in FIPS Mode and Digest Authentication

Any application that runs in the TOE should have its App Server(s) configured to use HTTPS in FIPS mode. To configure HTTPS on an App Server, follow the procedure in Configuring SSL on App Servers in the *Administrator's Guide*. Additionally, all App Servers must be configured to use digest authentication, which is the default.

1.4.5 Controlling Password Strength Via Password Plugins

By default, MarkLogic does not require any particular strength for passwords. MarkLogic does provide a plug-in mechanism to allow enforcement of custom password rules. It is up to the Authorized Administrators to decide how and whether to use this functionality. While there is no specific requirement to set up this functionality, organizations should use security best-practices around passwords.

There are sample plugin XQuery files in the shipped under the Samples directory of the MarkLogic installation. For details on setting up a password plugin, see the Password Plugin Sample section of the *Application Developer's Guide*.

1.4.6 Features Not Part of the TOE

MarkLogic Server must be configured so it does not use any features that are not part of the TOE. For details, see "Not Allowed in the TOE" on page 9.

1.4.7 MarkLogic Server 6.0-4

The evaluated configuration requires MarkLogic Server Enterprise Edition Release 6.0-4.

2.0 Target of Evaluation (TOE)

This chapter describes the target of evaluation (TOE) configuration for MarkLogic Server.

- Overview of the TOE
- Not Allowed in the TOE
- Admin Interface, Admin API, and Security API Must Run With HTTPS
- TOE Version
- TOE Assumptions

2.1 Overview of the TOE

The target of evaluation (TOE) is the configuration of MarkLogic Server that is certified by the Common Criteria evaluation process as the proper setup of the environment in which an evaluated configuration of MarkLogic Server can run. All of the requirements for setup set forth in this guide must be met for a configuration to be considered an evaluated configuration. This section briefly describes the TOE and includes the following parts:

- Common Criteria Evaluation Process
- Security Features of MarkLogic Server

2.1.1 Common Criteria Evaluation Process

MarkLogic Server has gone through a rigorous process for the Common Criteria evaluation. The process includes detailed specifications and testing of the security architecture and implementation of MarkLogic Server. It also includes processes for development, support, and maintenance of the product through all phases of product development. These tests and processes are conducted by Mark Logic Corporation and by the Common Criteria evaluation labs. They follow the process outlined in the Common Criteria Evaluation Methodology (CEM). The documents describing this process are available at http://www.niap-ccevs.org.

2.1.2 Security Features of MarkLogic Server

MarkLogic Server is designed as a multi-user system, where each user can only see content or execute code according to the security policy implemented in the configuration. MarkLogic Server has many security features, including:

- auditing
- last-login database
- role-based security model to protect documents and code evaluation
- session-level limits

For details on the MarkLogic Server role-based security model, see *Understanding and Using Security Guide*. For details on administrative procedures in MarkLogic Server, including security administrative procedures, see the *Administrator's Guide*.

2.2 Not Allowed in the TOE

The MarkLogic Server TOE was tested in a secure configuration that specifically excludes certain product capabilities and functionality that might make the system more vulnerable to attack. The following features of the TOE should not be enabled or used in an evaluated configuration to ensure a secure configuration. Note that all system administration tasks must be performed by an Authorized Administrator, as described in "Authorized Administrator" on page 5, according to the guidance described in this guide and in the rest of the MarkLogic Server documentation. Excluded functionality is as follows:

- WebDAV Servers are not part of the TOE; do not create any WebDAV servers in an evaluated configuration. The rationale for excluding WebDAV servers is not any inherent problem with MarkLogic Server, but rather with the clients that access a WebDAV Server. WebDAV servers require access by WebDAV clients, and WebDAV clients are not nearly as mature as web browsers and often do not have very secure implementations. The warning not to create a WebDAV Server in an evaluated configuration is specifically to ensure there is no possibility of WebDAV client access to the TOE. While these clients are not provided as part of the TOE, they are freely available, and therefore the Administrator must take action to ensure there is no possibility of WebDAV client use with the TOE.
- Basic authentication and application-level authentication are not part of the TOE; all App Servers (HTTP Servers, XDBC Servers, and ODBC Servers) in an evaluated configuration must use digest authentication. Digest authentication (what the TOE requires) is the default. For details on configuring HTTP, XDBC, or ODBC Server authentication, see the *Administrator's Guide*.
- UDFs (user-defined functions) are not part of the TOE. MarkLogic includes an interface to create UDFs to perform custom aggregate tasks, written in C++, but that interface is not allowed in the TOE.

2.3 Admin Interface, Admin API, and Security API Must Run With HTTPS

Any administration activities on the MarkLogic Server TOE must be performed on an App Server that is configured to use Transport Layer Security (TLS), which allows communication over HTTPS. For information about configuring the Admin Interface to use SSL/TLS (HTTPS), see "Configure the Admin App Server to Use HTTPS in FIPS Mode" on page 13.

Additionally, if you are using the Admin API, Security API, PKI API, or the Admin Built-in functions to perform TOE Security Functions, the HTTP or XDBC servers on which the Admin API, Security API, PKI API, or Admin Built-In API code runs must be configured to use HTTPS. For details on configuring App Servers, see the *Administrator's Guide*.

2.4 TOE Version

The evaluated configuration of MarkLogic Server must run on the following version:

6.0-4, Enterprise Edition.

Additionally, the TOE must be installed on one of the platforms supported in the evaluated configuration, as specified in “MarkLogic Server TOE Platforms” on page 6.

Any software updates, patches, fixes, or changes from this configuration will render the TOE out of is evaluated configuration.

2.5 TOE Assumptions

The following assumptions (from section 3.1 of the *Security Target*) are made about the TOE:

- A.NO_EVIL
- A.OS_TIME
- A.TRUSTED_OS
- A.NO_GENERAL_PURPOSE
- A.PHYSICAL
- A.AUTH
- A.CLIENT

2.5.1 A.NO_EVIL

TOE Administrators are trusted to follow and apply all administrator guidance in a trusted manner.

2.5.2 A.OS_TIME

The OS in the environment shall be able to provide reliable time stamps for use by the TOE.

2.5.3 A.TRUSTED_OS

The underlying OS is trusted to provide protection of the DBMS processes and stored data from other processes running on the underlying OS.

2.5.4 A.NO_GENERAL_PURPOSE

It is assumed that there are no general-purpose computing capabilities (e.g., compilers or user applications) available on the DBMS, other than those services necessary for the operation, administration and support of the DBMS.

2.5.5 A.PHYSICAL

Physical security, commensurate with the value of the TOE and the data it contains, is assumed to be provided by the environment.

2.5.6 A.AUTH

Passwords are encrypted during the authentication process.

2.5.7 A.CLIENT

The web browsers used to access the Admin Interface perform correctly such that when the browser is closed, the active Admin session is terminated. Client applications used to access the Admin API, Security API, and PKI API will perform correctly and when the application is closed, the active Admin session will be terminated.

3.0 Installing MarkLogic Server in an Evaluated Configuration

This chapter describes the steps needed to install MarkLogic Server in an evaluated configuration.

- Ensure that All TOE Requirements Are Met
- Download the TOE
- Run Installation Process
- Configure the Admin App Server to Use HTTPS in FIPS Mode

3.1 Ensure that All TOE Requirements Are Met

As described in "TOE Requirements" on page 6, all of the requirements for the target of evaluation must be met. In particular, make sure that the platform is supported in the evaluated configuration (see "MarkLogic Server TOE Platforms" on page 6) and make sure none of the excluded features are being used (see "Not Allowed in the TOE" on page 9).

3.2 Download the TOE

Download the TOE from developer.marklogic.com/download. Ensure that the TOE version is the same as described in "TOE Requirements" on page 6.

Once downloaded, contact MarkLogic Technical Support (support@marklogic.com) to get the md5 hash corresponding to the installation binary you downloaded. MarkLogic Technical Support will supply you with the md5 hash as well as instructions to verify the download corresponds to the appropriate md5 hash.

3.3 Run Installation Process

Run the installation process as described in the *Installation Guide*. When it is time to enter the license key, make sure you have a license key for Enterprise Edition. Contact your sales representative or Mark Logic Support for information about obtaining a license key.

Warning: When the installation prompts you for a username and password for the initial user, what you enter will be the username and password for the initial authorized administrator for you evaluated configuration. Additionally, it prompts you for the realm (set to `public` by default), which is used in calculating the digest passwords—any subsequent change in the realm would invalidate all existing passwords. As the authorized administrator is assumed to be non-hostile, make sure you take the appropriate precautions with guarding the credentials of this authorized administrator.

3.4 Configure the Admin App Server to Use HTTPS in FIPS Mode

After completing the installation and starting MarkLogic Server, perform the following steps to configure HTTPS on the Admin App Server:

1. Log into the Admin Interface by accessing port 8001 on a host in which MarkLogic Server runs (for example, `http://my-server:8001`).
2. Select Clusters > *host-name* and ensure that FIPS-mode is enabled. If it is not enabled, then enable it.
3. Select Groups > Default > App Servers > Admin from the left tree menu.
4. Follow the procedes in Configuring SSL on App Servers in the *Administrator's Guide* to congfigure SSL on the Admin Server.

4.0 Technical Support

MarkLogic provides technical support according to the terms detailed in your Software License Agreement or End User License Agreement. For evaluation licenses, MarkLogic may provide support on an “as possible” basis.

For customers with a support contract, we invite you to visit our support website at http://support.marklogic.com to access information on known and fixed issues.

For complete product documentation, the latest product release downloads, and other useful information for developers, visit our developer site at http://developer.marklogic.com.

If you have questions or comments, you may contact MarkLogic Technical Support at the following email address:

support@marklogic.com

If reporting a query evaluation problem, please be sure to include the sample XQuery code.

Combined Product Notices

MarkLogic Server 6.0 and supporting products.
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