Installing MarkLogic Server

MarkLogic 11

Publication date 2023-10-09 Copyright © 2023 Progress Software Corporation

All Rights Reserved

Table of Contents

1. Requirements and Database Compatibility	3
1.1. Introduction	3
1.2. MarkLogic Server Assumptions	3
1.3. Memory, Disk Space, and Swap Space Requirements	3
1.4. Supported Platforms	
1.5. Supported Filesystems	
1.6. Supported Browsers	6
1.7. Java Virtual Machine Requirements	6
1.8. Upgrades and Database Compatibility	7
1.9. MarkLogic Converters Installation Changes Starting at Release 9.0-4	7
2. Procedures	
2.1. Upgrading from Previous Releases	9
2.1.1. Windows Service Parameters	9
2.1.2. Upgrading from Release 9.0-1 or Later	9
2.1.3. Upgrading Clusters with DB Replication Configured	
2.1.4. Upgrading a Cluster Configured with Local Disk Failover	
2.2. Installing MarkLogic	
2.3. Starting MarkLogic Server	
2.4. Configuring the First and Subsequent Hosts	
2.4.1. Configuring a Single Host or the First Host in a Cluster	. 16
2.4.2. Configuring an Additional Host in a Cluster	
2.4.3. Leaving a Cluster and Becoming a Single Host	
2.5. Entering a License Key	
2.6. Checking for the Correct Software Version	
2.7. Configuring MarkLogic Server to Run as a Non-Daemon User	
2.8. Removing MarkLogic	. 23
3. Appendix: Packages by Linux Platform	
3.1. Red Hat Enterprise Linux 7	. 25
3.1.1. MarkLogic Server	
3.1.2. MarkLogic Converters	. 25
3.2. Red Hat Enterprise Linux 8	. 25
3.2.1. MarkLogic Server	. 25
3.2.2. MarkLogic Converters	. 26
3.3. CentOS 7	. 26
3.3.1. MarkLogic Server	. 26
3.3.2. MarkLogic Converters	. 26
3.4. Amazon Linux 1	. 26
3.4.1. MarkLogic Server	. 26
3.4.2. MarkLogic Converters	
3.5. Amazon Linux 2	
3.5.1. MarkLogic Server	
3.5.2. MarkLogic Converters	
4. Technical Support	
5. Copyright	29

1. Requirements and Database Compatibility

This section introduces MarkLogic Server, lists the product requirements and supported platforms, and describes the database compatibility with previous releases.

1.1. Introduction

MarkLogic Server is a powerful NoSQL database for harnessing your digital content base, complete with enterprise features demanded by real-world, mission-critical applications. MarkLogic enables you to build complex applications that interact with large volumes of content in JSON, XML, SGML, HTML, and other popular content formats, as well as binary formats. The unique architecture of MarkLogic 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. MarkLogic can be configured for a distributed environment, enabling you to scale your infrastructure through hardware expansion.

This installation guide explains the procedures needed to install MarkLogic on your system. It is intended for a technical audience. This document explains how to install the software, not how to use the software. To learn how to get started using the software, see the rest of the MarkLogic documentation, including the following documents:

- What's New in MarkLogic 11
- · Getting Started with MarkLogic Server
- · Concepts Guide
- Administrating MarkLogic Server
- Getting Started with Optic
- · Application Developer's Guide
- · Search Developer's Guide
- · JavaScript Reference Guide
- · MarkLogic XQuery and XSLT Function Reference

1.2. MarkLogic Server Assumptions

During the installation process, MarkLogic sets memory and other settings based on the characteristics of the computer in which it is running. MarkLogic is a scalable, multi-threaded server product, and as such it assumes it has the entire machine available to it, including the CPU and disk I/O capacity. It is important to follow the guidelines as described. Furthermore, MarkLogic assumes there is only one MarkLogic Server process running on any given machine, so it is not recommended to run multiple instances of MarkLogic on a single machine.

MarkLogic Server expects the system clocks to be synchronized across all the nodes in a cluster. The clock skew should be less than 0.5 seconds. You should use a time service such as NTP to keep your system clocks synchronized. For more details, see the following Knowledge Base article: https://help.marklogic.com/knowledgebase/article/View/24/15/synchronizing-system-clocks-in-a-cluster.

1.3. Memory, Disk Space, and Swap Space Requirements

Before installing the software, be sure that your system meets the following requirements:

 For a production deployment, MarkLogic recommends at least 8 vCPUs per host, with 8 GB of memory per vCPU. For example, for a production host with 16 vCPUs the recommended memory is at least 128 GB. For bare-metal systems, a hardware thread (hyperthread), is equivalent to a vCPU. Use memory optimized cloud compute instances or virtual machines. Memory requirements may increase over time as projects evolve and databases grow with more content and more indexes. See comment 1 in the following table. MarkLogic 11 Supported Platforms

• For a prototyping or development deployment, MarkLogic requires a minimum of 4 GB of system memory and recommends at least 8 GB of memory. See comment 1 in the following table.

• For small forests that will not grow, such as Security and Schemas, the reserve size is two times the size of the forest.

For data forests, we recommend a size of 500 GB, where 400 GB is allocated to content, and 100 GB is left as reserved space to handle merges. See comment 2 in the following table for details about this storage calculation.

• On Linux systems, you need at least as much swap space as the amount of physical memory on the machine or 32 GB, whichever is lower.

If you have Huge Pages set up on a Linux system, your swap space on that machine must be at least the size of your physical memory minus the size of your Huge Pages (because Linux Huge Pages are not swapped), or 32 GB, whichever is lower. For example, if you have 48 GB of physical memory, and if you have Huge Pages set to 18 GB, then you need swap space of 30 GB (48 - 18). For details on setting up Huge Pages, see https://access.redhat.com/solutions/1578873 on the Red Hat website.



NOTE

A Red Hat subscription is required to view the content on the Web page.

At system startup on Linux machines, MarkLogic Server logs a message to the ErrorLog.txt file showing the size of the Huge Pages, and the message indicates if the size is below the recommended level.

If you are using Red Hat Enterprise Linux 7, you must turn off Transparent Huge Pages (Transparent Huge Pages are configured automatically by the operating system). For details on disabling Transparent Huge Pages, see https://access.redhat.com/solutions/1320153.

On Windows systems, twice the physical memory is also recommended for the swap (page) file. For Windows 10, you configure this by searching for View Advanced System Settings in the taskbar. Next, click the icon. Then, in the Performance area, click Settings > Advanced and set the virtual memory to twice the physical memory. For earlier Windows systems, click System Control Panel > Advanced System Settings > Performance Settings > Advanced tab and set the virtual memory settings to twice the physical memory.

No	Comment
[1]	MarkLogic automatically configures itself to reserve as much system memory as it can the first time it runs. If you need to change the default configuration, you can manually override these defaults later, using the Admin Interface.
[2]	For content forests that are expected to grow over time, with the default merge settings, you need to reserve 100 GB of storage. Here is the calculation:
	You need at least 2 times the merge max size of free space per forest, regardless of the forest size. Therefore, with the default merge max size of 48 GB, you need at least 96 GB of free space. Additionally, if your journals are not yet created, you need 2 times the journal size of free disk space (if the journal space is not yet allocated). Therefore, to be safe, you need 100 GB of free space for each content forest.

1.4. Supported Platforms

MarkLogic Server is supported on the following platforms:

Platform	Comment
Microsoft Windows Server 2019	Microsoft Windows Server supports Open Neural Network Exchange format (ONNX) for machine learning. To use the ONNX APIs and obtain the required Machine
Microsoft Windows Server 2016	Learning libraries, download the GPU-enabled version of MarkLogic Server for
Microsoft Windows Server 2012 (x64)	Windows.
Microsoft Windows 10 (x64)	Desktop Microsoft Windows 10 (x64) is supported for development only. Use Windows Server for Production.
Mac OS X 10.14 or later	Mac OS X is supported for development only. Conversion (Office and PDF) and entity enrichment are not available on Mac OS X. A 64-bit capable processor is required (http://support.apple.com/kb/HT3696).

Platform	Comment
Docker	Docker is supported for development and production (one container per host recommended). For more details, see https://developer.marklogic.com/code/docker/.
Red Hat Enterprise Linux 7 (x64) Red Hat Enterprise Linux 8 (x64)	Red Hat Enterprise Linux 7 (x64) and CentOS 7 (x64) are supported on VMware ESXi 6.0 and Kernel-based Virtual Machine. Starting with MarkLogic 10.0-2, Red Hat Enterprise Linux 8 (x64) is also supported.
CentOS 7 (x64)	CentOS 7 (x64) is supported on the Azure platform.
Amazon Linux 1 (x64)	All Linux platforms support Open Neural Network Exchange format (ONNX) for
Amazon Linux 2 (x64)	machine learning. To use the ONNX APIs and obtain the required Machine Learning libraries, download MarkLogic Server for Linux.
	Either none, deadline, mq-deadline, or kyber I/O scheduler is required to ensure efficient disk I/O for MarkLogic Server on Linux. When configuring an I/O scheduler with SSDs in a virtualized environment (including any cloud-based virtual machines), the OS I/O scheduling must be set to none for 4.x kernels or noop/none for older 3.x kernels. For more details, see:
	 https://help.marklogic.com/Knowledgebase/Article/View/8/0/notes-on-io-schedulers https://lonesysadmin.net/2013/12/06/use-elevator-noop-for-linux-virtual-machines/ https://access.redhat.com/solutions/5427
	For a list of packages required for each Linux platform, see Appendix: Packages by Linux Platform.



NOTE

MarkLogic now supports the 1-Click AWS option in AWS Marketplace. Because of this, the published MarkLogic AMIs will have data volumes predefined.

1.5. Supported Filesystems

MarkLogic relies on the operating system for filesystem operations. While any filesystem that works properly (including under heavy load) should work, the following table lists the operating systems along with the filesystems under which they are supported. Other filesystems may work but have not been thoroughly tested by MarkLogic.

Operating System	Supported Filesystems	
Linux (all varieties)	XFS (recommended), EXT3, and EXT4 as well as the clustered filesystems for shared-disk failover mentioned in Requirements for Failed Disk Failover in the Scalability, Availability and Failover Guide.	
	WARNING Do not use data=writeback with EXT3 and EXT4 filesystems.	
	NAS is supported on Red Hat Enterprise Linux 7 and NetAPP.	
Windows	NTFS	
Mac OS	HFS+	
All	Amazon S3 (no journaling with S3).	

MarkLogic 11 Supported Browsers



NOTE

The Solaris OS is not supported.

1.6. Supported Browsers

The following browsers are supported:

- · Google Chrome
- Mozilla Firefox
- · Microsoft Edge

1.7. Java Virtual Machine Requirements

MarkLogic Server can function with or without a Java Virtual Machine (JVM). The only requirement needed for a JVM to be installed on MarkLogic Server would be if you use HDFS (Hadoop Distributed File System).

Our provided Amazon AMIs have a JDK pre-installed that is used during the MarkLogic bootstrap process to setup and configure MarkLogic in the Amazon environment. Therefore, you do not need to install a JVM on any EC2 instance.

The following MarkLogic products and features require a JVM to either run or install:

- Gradle (https://developer.marklogic.com/code/ml-gradle/)
- DHF (https://marklogic.github.io/marklogic-data-hub/)

MarkLogic supports the Java 8, 9, 10, and 11 versions of the following JVMs:

- Oracle/Sun
- OpenJDK



NOTE

The IBM JRE is not supported.

By default, MarkLogic looks for Java in the location specified via the JAVA_HOME environment variable or in a specific set of default locations. If JAVA_HOME is not set in the startup environment, MarkLogic uses the first JRE or JDK found in one of the following locations. These locations are searched in the order listed.

- /usr/java/default
- /usr/java/latest
- /usr/java/jdk1.N*

*where **N** is a supported Java version. For example, /user/java/jdk1.8.0_202.

- /usr/lib/jvm/java
- /usr/lib/jvm/java-openjdk
- /usr/lib/jvm/jre-1.**N**.0-*.x86_64

^{*}where **N** is a supported Java version, such as Java 8.

If you have Java installed in a different location, you can communicate your JAVA_HOME to MarkLogic through the file /etc/marklogic.conf. For example:

```
cat > /etc/marklogic.conf
export JAVA_HOME=/path/to/your/jdk
```

1.8. Upgrades and Database Compatibility

MarkLogic 11 supports upgrades from MarkLogic 9.

During the upgrade, the Security database, the Schemas database, and the configuration files are automatically upgraded. The Security database is upgraded with the latest execute privileges and the Schemas database is upgraded with the latest version of the Schemas used by MarkLogic Server. The upgrade occurs as part of the installation procedure.

Databases that contain your own content are also upgraded; once you upgrade, you will no longer be able to use that database with previous versions of MarkLogic.



NOTE

MarkLogic Corporation strongly recommends performing a backup of your databases before upgrading. Additionally, MarkLogic Corporation recommends that you first upgrade to the latest maintenance release of the major version of MarkLogic you are running before upgrading.

For the procedure for upgrading, see Upgrading from Previous Releases. For details about known incompatibilities, see What's New in MarkLogic Server 11.

1.9. MarkLogic Converters Installation Changes Starting at Release 9.0-4

MarkLogic Converters are used to convert Microsoft Office Word, Excel, and PowerPoint documents, as well as Adobe PDF files, to XHTML. MarkLogic filters are used to filter a variety of document formats, extract metadata and text from them, and return XHTML. The following MarkLogic XQuery API functions, described in the MarkLogic XQuery and XSLT Function Reference, provide this functionality:

```
xdmp:word-convert()
xdmp:excel-convert()
xdmp:powerpoint-convert()
xdmp:pdf-convert()
xdmp:document-filter()
```

Converters/filters are also used as part of the *conversion pipeline* in Content Processing Framework. For more details, see The Default Conversion Option in the *Content Processing Framework Guide*.

Prior to MarkLogic release 9.0-4, converters/filters were bundled and automatically installed with MarkLogic Server. Starting with MarkLogic release 9.0-4, converters/filters are offered as a separate package: *MarkLogic Converters*.

This change provides better flexibility and enables you to install/uninstall MarkLogic converters/filters separately from MarkLogic Server.

With this change, MarkLogic Server does not include MarkLogic Converters. To use converters/filters, install both packages: MarkLogic Server and MarkLogic Converters. An XDMP-CVTNOTFOUND error will be thrown upon an attempt to use converters/filters on a MarkLogic node with no MarkLogic Converters installed.

The version of MarkLogic Converters is synchronized with the version of MarkLogic Server. For example, MarkLogic Converters 9.0-4 corresponds to MarkLogic Server 9.0-4 and may be installed with it.

You can obtain the version of MarkLogic Converters installed on a node by calling to MarkLogic server-side API function xdmp:host-status and examining the value of the converters-version element in the response. If the converters package is not installed on a node, the converters-version element will be empty.

MarkLogic Converters packages for all supported platforms are available for download at the same location where MarkLogic Server packages are available, namely at http://developer.marklogic.com.

If you want to use the converters package with MarkLogic 9.0-4 or later, you will have to perform a two-step installation: first install MarkLogic Server and then install MarkLogic Converters.

For details on MarkLogic Server and MarkLogic Converters installation for all supported platforms, see Installing MarkLogic.

If you want to uninstall MarkLogic 9.0-4 or later, and if the converters package was previously installed with it, you will have to perform a two-step uninstall: first uninstall MarkLogic Converters and then uninstall MarkLogic Server.

For details on uninstalling MarkLogic Server and MarkLogic Converters, see Removing MarkLogic.

MarkLogic 11 Procedures

2. Procedures

This section describes the procedures to install MarkLogic on your system.

2.1. Upgrading from Previous Releases

If you have previously installed MarkLogic on a machine, you must uninstall the old release before proceeding with the new installation. For information on removing the software, see Removing MarkLogic or the Installation Guide from the previous release.

If you are upgrading a cluster to a new release, see Upgrading a Cluster to a New Maintenance Release of MarkLogic Server in the Scalability, Availability and Failover Guide. The Security database and the Schemas database must be on the same host, and that host should be the first host you upgrade when upgrading a cluster.



WARNING

MarkLogic Server does not support downgrades. Once you have upgraded to a later release, you cannot downgrade to a previous version. To retain the option to restore to a previous version of MarkLogic Server, make a complete backup of your content and security databases before upgrading.

2.1.1. Windows Service Parameters

When you upgrade MarkLogic on Windows as a different user from the user that installed the previous version, the MarkLogic service parameters in the Windows registry will be changed. When the old version of MarkLogic is uninstalled, the service is deleted from the registry, including any customizations to the service parameters. When the new version of MarkLogic is installed, the service is re-created in the registry, with the default service parameters.

Before starting the upgraded version of MarkLogic, make any customization to the service parameters. Otherwise, the default service parameters will be set and MarkLogic will start up running as the local system user. Any MarkLogic configuration files saved as the local system user (such as those modified when making changes in the Admin Interface) will be created with the Windows file permissions for the local system user.



NOTE

When you make changes to the user in the service parameters, you should also change data directory file permissions. This is because files may be written when MarkLogic is running as the local system user.

2.1.2. Upgrading from Release 9.0-1 or Later

To upgrade from release 9.0-1 or later, follow these steps:

- Stop MarkLogic Server (as described in step 1 of Removing MarkLogic).
- Uninstall the old MarkLogic release (as described in Removing MarkLogic).



NOTE

If you want to uninstall MarkLogic 9.0-4 or later, and if the converters package was previously installed with it, you will have to perform a two-step uninstall: first uninstall MarkLogic Converters and then uninstall MarkLogic Server. For more detail, see MarkLogic Converters Installation Changes Starting at Release 9.0-4 and Removing MarkLogic.

3. Install the new MarkLogic release (as described in Installing MarkLogic).



NOTE

If you want to install MarkLogic 9.0-4 or later, and you plan to use the converters package with it, you will have to perform a two-step installation: first install MarkLogic Server and then install MarkLogic Converters. For more detail, see MarkLogic Converters Installation Changes Starting at Release 9.0-4 and Installing MarkLogic.

- 4. Start MarkLogic Server (as described in Starting MarkLogic Server).
- 5. Open the Admin Interface in a browser (http://localhost:8001).
- 6. When the Admin Interface prompts you to upgrade the databases and the configuration files, click the button to confirm the upgrade.

If you are upgrading a cluster to a new release, see Upgrading a Cluster to a New Maintenance Release of MarkLogic Server in the *Scalability, Availability and Failover Guide*. The Security database and the Schemas database must be on the same host, and that host should be the first host you upgrade when upgrading a cluster.

If you are upgrading two clusters that make use of database replication to replicate the Security database on the master cluster, then you must enter the following to manually upgrade the Security database configuration files on the machine that hosts the replica Security database:

http://host:8001/security-upgrade-go.xqy?force=true



WARNING

There is no direct upgrade path from Early Access releases to this release. If you need to move any data from an Early Access release to this release, you must re-create the data in the current release.

2.1.3. Upgrading Clusters with DB Replication Configured

If you are upgrading clusters with DB replication configured, see Upgrading Clusters Configured with Database Replication in the *Database Replication Guide* for details.

2.1.4. Upgrading a Cluster Configured with Local Disk Failover

- 1. If the security database is configured for local disk failover, make sure that the primary security, schema, and auxiliary forests are on the same host and are acting as primary.
- 2. To perform a rolling upgrade, see Rolling Upgrades in Administrating MarkLogic Server.

2.2. Installing MarkLogic

This section describes the procedure for installing MarkLogic Server on each platform. Perform the procedure corresponding to the platform to which you are installing.

Platform	Steps
Windows x64	If you are upgrading from a previous MarkLogic release, review Upgrading from Previous Releases and perform the necessary steps from that section first. Download the MarkLogic Server installation package. The latest installation packages are available from https://www.marklogic.com/product/getting-started/ .
	3. Double-click the .msi file to start the installer.
	4. The Welcome page displays. Click Next .
	5. Select Typical .
	6. Click Install.
	7. A dialog appears with the question Do you want to allow this app to make changes to your device? Click Yes .
	8. The installation process will begin. When the process is completed, click Finish .
	NOTE If you plan to use the converters package, also perform the following steps:
	 Download the MarkLogic Converters package (.msi) for Windows from http://developer.marklogic.com. Double-click the .msi file to start the installer.
	3. The welcome page displays Welcome to the MarkLogic Converters Setup Wizard. Click Next.
	4. The Choose Setup Type page displays. Select Typical.
	5. The Ready to Install page displays. Click Install to start the installation.
	6. A dialog appears with the question Do you want to allow this app to make changes to your device? Click Yes .
	7. The Installing MarkLogic Converters page displays.
	8. The final page displays Completing the MarkLogic Converters Setup Wizard. Click Finish.

Platform Steps Red Hat 1. If you are upgrading from a previous MarkLogic release, review Upgrading from Previous Releases and Linux x64 perform the necessary steps from that section first. Download the MarkLogic Server installation package to /tmp or another location. The latest installation packages are available from http://developer.marklogic.com. We recommend that you use yum to install MarkLogic instead of an rpm install. The yum install will automatically determine the dependencies. As the root user, install the package with the following command: yum install /tmp/MarkLogic-11.0.0-rhel.x86_64.rpm TIP If a yum installation cannot be completed, an rpm install can be used. To do an rpm install, as the root user, install the package with the following command: rpm -i /tmp/MarkLogic-11.0.0-rhel.x86_64.rpm NOTE If you are installing MarkLogic 9.0-4 or later, and you plan to use the converters package, also perform the following steps: Download the MarkLogic Converters package for Linux platform (for example, MarkLogicConverters-11.0.0-rhel.x86_64.rpm) from http://developer.marklogic.com to /tmp or another location. 2. We recommend that you use yum to install MarkLogic instead of an rpm install. The yum install will automatically determine the dependencies. As the root user, install the package with the following command: yum install /MarkLogicConverters-11.0.0-rhel.x86_64.rpm TIP If a yum installation cannot be completed, an rpm install can be used. To do an rpminstall, as the root user, install the package with the following command: rpm -i /tmp/MarkLogicConverters-11.0.0-rhel.x86_64.rpm

Platform Steps CentOS 1. If you are upgrading from a previous MarkLogic release, review Upgrading from Previous Releases and Linux perform the necessary steps from that section first. Download the MarkLogic Server installation package to /tmp or another location. The latest installation packages are available from http://developer.marklogic.com. We recommend that you use yum to install MarkLogic instead of an rpm install. The yum install will automatically determine the dependencies. As the root user, install the package with the following command: yum install /tmp/MarkLogic-11.0.0-rhel.x86_64.rpm TIP If a yum installation cannot be completed, an ${\tt rpm}$ install can be used. To do an ${\tt rpm}$ install, as the root user, install the package with the following command: rpm -i /tmp/MarkLogic-11.0.0-rhel.x86_64.rpm NOTE If you are installing MarkLogic 9.0-4 or later, and you plan to use the converters package, also perform the following steps: Download the MarkLogic Converters package for the Linux platform (for example, MarkLogicConverters-11.0.0-rhel.x86_64.rpm) from http://developer.marklogic.com to /tmp or another location. 2. We recommend that you use yum to install MarkLogic instead of an rpm install. The yum install will automatically determine the dependencies. As the root user, install the package with the following command: yum install /MarkLogicConverters-11.0.0.x86_64.rpm TIP If a yum installation cannot be completed, an rpm install can be used. To do an rpminstall, as the root user, install the package with the following command: rpm -i /tmp/MarkLogicConverters-11.0.0-rhel.x86_64.rpm NOTE For CentOS 8, MarkLogic has a dependency on libnsl.so.1(). You can either rely on

yum to pull in the dependency automatically, or install it manually.

Platform Steps Amazon 1. If you are upgrading from a previous MarkLogic release, review Upgrading from Previous Releases and Linux 2 perform the necessary steps from that section first. Download the MarkLogic Server installation package to /tmp or another location. The latest installation packages are available from http://developer.marklogic.com. We recommend that you use yum to install MarkLogic instead of an rpm install. The yum install will automatically figure out the dependencies. As the root user, load additional packages for EC2 support with the following command: sudo yum install java-11-openjdk xfsprogs 4. As the root user, create a symbolic link with the following command: sudo ln -s system-lsb /etc/redhat-lsb 5. As the root user, install the MarkLogic Server installation package with the following command: sudo yum install MarkLogic-11.0.0-rhel.x86_64.rpm NOTE If you are installing MarkLogic 9.0-4 or later, and you plan to use the converters package, also perform the following steps: 1. Download the MarkLogic Converters package for Linux platform (for example, MarkLogicConverters-11.0.0-rhel.x86_64.rpm) from http://developer.marklogic.com to /tmp or another location. 2. We recommend that you use yum to install MarkLogic instead of an rpm install. The yum install will automatically determine the dependencies. As the root user, install the package with the following command: yum install /MarkLogicConverters-11.0.0.x86_64.rpm **TIP** If a yum installation cannot be completed, an rpm install can be used. To do an rpm install, as the root user, install the package with the following command: rpm -i /tmp/MarkLogicConverters-11.0.0-rhel.x86 64.rpm Mac OS X If you are upgrading from a previous MarkLogic release, review Upgrading from Previous Releases and perform necessary steps from that section first. Download the MarkLogic Server installation package to your desktop. The latest installation packages are available from http://developer.marklogic.com. Double-click MarkLogic-11.0.0-x86_64.dmg to open the folder that contains the .pkg installer. Double-click on the installer to start. 4. The Welcome page displays. Click Continue. In the Select a Destination window, select a destination to install MarkLogic Server or continue to select the default destination In the Installation Type window, click Install. An Installation window appears that displays the progress of the installation When the Installation Summary window appears, click Close. 7. A MarkLogic control window appears from which you can start/stop MarkLogic Server, open the Admin Interface, and view the Error Log. NOTE If you are installing MarkLogic 9.0-4 or later, and you plan to use the converters package, also perform the following steps: 1. Download the MarkLogic Converters package for Mac OS platform (e.g. MarkLogicConverters-11.0.0x86_64.dmg) from http://developer.marklogic.com to your desktop. Double-click the MarkLogicConverters-11.0.0-x86_64.dmg icon to open the folder that contains ${\tt MarkLogicConverters-11.0.0-x86_64.dmg} \ in \textbf{staller}. \ \textbf{Double-click} \ \textbf{on the installer} \ \textbf{to start}.$ The Welcome page displays. Click Continue. In the **Select a Destination** window, select the default destination. In the Installation Type window, click Install. An Installation window appears that displays the progress of the installation When the Installation Summary window appears, click Close.

If you are upgrading a cluster to a new release, see Upgrading a Cluster to a New Maintenance Release of MarkLogic Server in the Scalability, Availability and Failover Guide The Security database and the Schemas database must be on the same host, and that host should be the first host you upgrade when upgrading a cluster.



NOTE

It is not recommended to install the converters while MarkLogic Server is running. The reason for this is that the server checks the converters presence and version number only upon start-up. So, the server will not have accurate information about the converters in this case. The recommended installation procedure is to stop the server if it is running, install or upgrade the server, install the converters, then start the server.

The following table shows the installation directory (<marklogic-dir>) and the default data directory for each platform:

Platform	Installation Directory	Default Data Directory
		for configuration and log files
Windows	c:\Program Files\MarkLogic\	c:\Program Files\MarkLogic\Data
Red Hat Linux	/opt/MarkLogic	/var/opt/MarkLogic
Mac OS X	~/Library/MarkLogic	~/Library/Application Support/MarkLogic/Data

The default forest directory is the same as the default data directory if the optional data directory is not specified during forest creation. On UNIX platforms, if you want MarkLogic Server to use another location for its default data directory, make your data directory (/var/opt/MarkLogic on Linux) a soft link to the alternate location.

In MarkLogic release 9.0-4 and later, MarkLogic Converters installation directory remains the same as in previous releases, namely:

Platform	Converters Installation Directory
Windows	c:\Program Files\MarkLogic\Converters
Red Hat Linux	/opt/MarkLogic/Converters
Mac OS X	~/Library/MarkLogic/Converters



NOTE

When a new node joins an existing cluster, the server does not try to figure out automatically whether the MarkLogic Converters package is needed or not. An XDMP-CVTNOTFOUND error will be thrown if converters/filters built-in functions are called on nodes that do not have MarkLogic Converters installed.

2.3. Starting MarkLogic Server

MarkLogic Server will automatically start when the computer reboots. To start MarkLogic Server without rebooting, perform the following command for the corresponding platform:

Platform	Steps	
Windows 10	 In the Windows taskbar, click in the search area. Type MarkLogic. Right-click on Start MarkLogic Server. Select Run as administrator. When prompted, allow the app to make changes to your device. 	
Windows	Select Start > Programs > MarkLogic Server > Start MarkLogic Server.	
	NOTE When you start MarkLogic Server from the Start menu, the Windows service configuration for MarkLogic Server is set to start automatically. Also, to start the service, right-click the Start MarkLogic Server link in the Start menu and choose Run as Administrator, then choose to allow the action.	
Red Hat Linux	As the root user, enter service MarkLogic start	
	NOTE On an Azure MarkLogic VM, as well as some more recent Linux distributions, you must use sudo systemctl start MarkLogic. For more information on Linux language settings, see https://help.marklogic.com/Knowledgebase/Article/View/marklogic-fails-to-start-with-initialization-xdmp-encodi	
Mac OS X	Select System Preferences > MarkLogic to open the MarkLogic control window. Click Start MarkLogic Server.	

This starts all of the App Servers that are configured on your MarkLogic Server.

2.4. Configuring the First and Subsequent Hosts

The configuration procedures differ depending on if you run MarkLogic Server in a cluster configuration or on a single host.

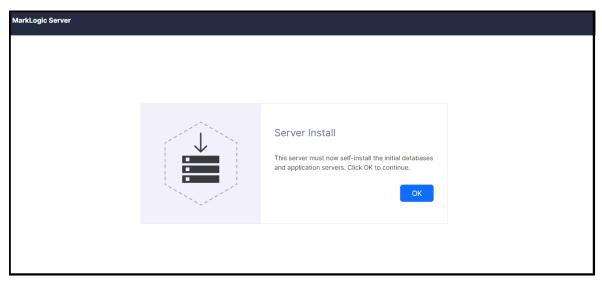
If you are configuring MarkLogic Server as a standalone host, or if this is the first host in a cluster configuration, follow the installation instructions in Configuring a Single Host or the First Host in a Cluster. Otherwise, follow the installation instructions in Configuring an Additional Host in a Cluster.

If you are upgrading a cluster to a new release, see Upgrading a Cluster to a New Maintenance Release of MarkLogic Server in the Scalability, Availability and Falover Guide. The Security database and the Schemas database must be on the same host, and that host should be the first host you upgrade when upgrading a cluster.

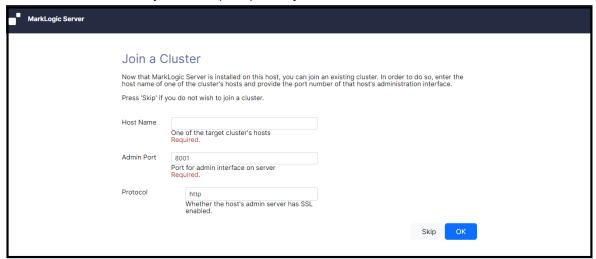
2.4.1. Configuring a Single Host or the First Host in a Cluster

To configure this installation as either a single host or as the first host in a cluster, perform the following steps:

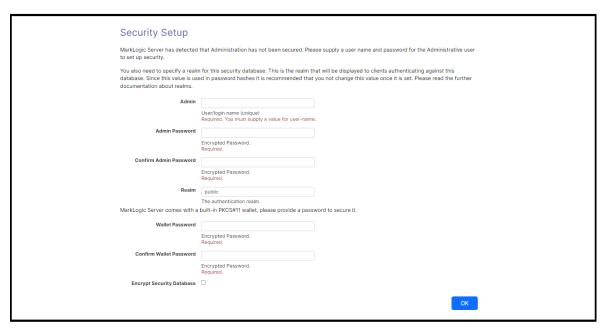
- 1. Install and start MarkLogic as described in Installing MarkLogic and Starting MarkLogic Server.
- 2. Log into the Admin Interface in a browser. It is on port 8001 of the host in which MarkLogic is running (for example, on the localhost, http://localhost:8001). The **Server Install** page appears:



- 3. Click **OK** to continue.
- 4. Wait for the server to restart.
- 5. After the server restarts, you will be prompted to join a cluster:



- 6. Click Skip.
- 7. You will be prompted to create an admin user and a PKCS#11 wallet password. Enter a login name and password for the admin user, and enter a wallet password.



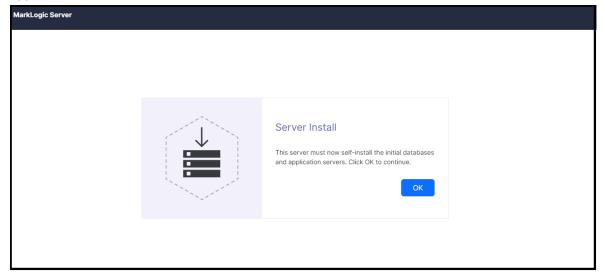
- 8. Click OK.
- 9. You will be prompted to log in with your admin username and password.

You will now see the Admin Interface. If you do not need to add any hosts at this time, skip to Checking for the Correct Software Version.

2.4.2. Configuring an Additional Host in a Cluster

All hosts in a cluster have to be on the same platform. To configure this installation as an additional host in a cluster of the same platform, perform the following steps:

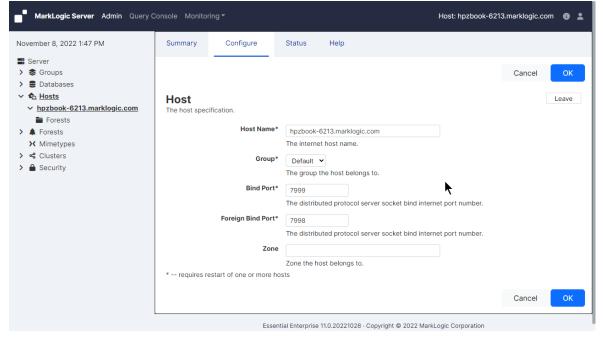
- On the node you want to add to an existing cluster, install and start MarkLogic as described in Installing MarkLogic and Starting MarkLogic Server.
- Log into the Admin Interface in a browser. It is on port 8001 of the host in which MarkLogic
 is running (for example, on the localhost, http://localhost:8001). The Server Install page
 appears:



- 3. Click **OK** to continue.
- 4. Wait for the server to restart.
- 5. After the server restarts, you will be prompted to join a cluster:



- 6. Enter the DNS name or the IP address of one of the machines in the cluster. For instance, if this is the second host you are installing, you can enter the DNS name of the first host you installed.
- 7. Click OK.
- 8. You will be prompted for an admin username and password. You can use the admin username and password you created when installing the first host. Click **OK**.
- 9. Select a **Group** to assign this host. Click **OK**.



- 10. Click **OK** to confirm that you are joining the cluster.
- 11. You have now joined the cluster.
- 12. Click **OK** to transfer the cluster configuration information.

You have completed the process to join a cluster and will now see the Admin Interface.

2.4.3. Leaving a Cluster and Becoming a Single Host

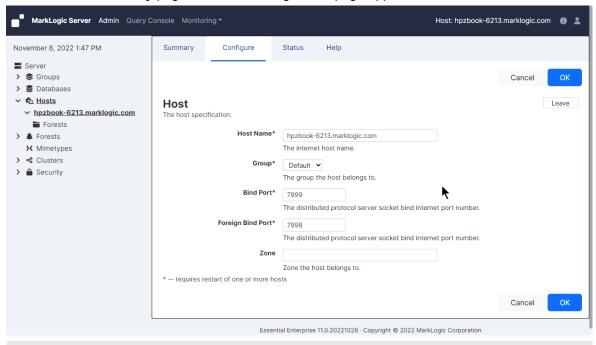
If your host is currently in a cluster of multiple hosts, and you would like to leave the cluster and switch to a single host environment, follow the steps in this section.

A host cannot leave a cluster if there are still forests assigned to it or if it has any foreign clusters associated with it. You must delete all forests assigned to the host and de-couple any clusters associated with a host before you can leave the cluster. However, if you delete only the configuration for a forest, the forest data will remain on the filesystem, allowing you to add the forest back to the

host after changing the configuration. For instructions on adding a forest to a host, see *Administrating MarkLogic Server*.

Follow these steps to leave the cluster to which a host is connected:

- Run the Admin Interface from the host you want to remove from the cluster.
- 2. Click the **Hosts** icon in the left menu tree. The **Host Summary** page appears.
- 3. Click the name of the host you want to remove from the cluster, either from the left menu tree or from the **Host Summary** page. The Host Configuration page appears:





NOTE

The Leave button only appears if the Admin Interface is running from this host.

- 4. Click the Leave button.
- 5. Click **OK** to confirm leaving the cluster.
- 6. The host restarts to load the new configuration.
- 7. Follow the instructions in sections Configuring a Single Host or the First Host in a Cluster or Configuring an Additional Host in a Cluster as appropriate.

2.5. Entering a License Key

MarkLogic will run without a license key, but after installing MarkLogic, you should enter a valid license key for the usage and features for which you are licensed. At any time, you can change the license key for a host from the Host Status page.

These are some reasons that you would need to change your license key:

- Your license key has expired.
- You need to use some features that are not covered by your existing license key.
- You upgraded your hardware with more CPUs and/or more cores.
- You need a license that covers a larger database.
- · You require different languages.

Changing the license key sometimes results in an automatic restart of MarkLogic (for example, if your new license enables a new language).

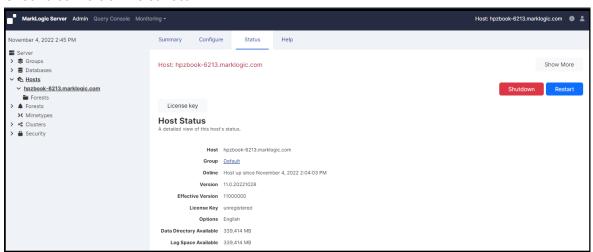
To change the license key for a host, perform the following steps using the Admin Interface:

- 1. Click the **Hosts** icon on the left tree menu.
- 2. Click the name of the host for which you want to change the license key, either on the tree menu or the summary page. The **Host Configuration** page appears.
- 3. Click the **Status** tab. The **Host Status** page appears.
- 4. Click the License key button. The License Key Entry page appears.
- 5. Enter your new license key information. For information about licensing MarkLogic Server, contact your MarkLogic sales representative.
- 6. After entering valid information in the **Licensee** and **License Key** fields, click **OK**. If it needs to, MarkLogic will automatically restart, and the new license key will take effect.

2.6. Checking for the Correct Software Version

After you log in with your admin username and password, the Admin Interface appears. To view more details about the release of MarkLogic Server that is installed and licensed, complete the following steps:

- 1. Click the **Hosts** icon on the left menu tree.
- Select the name of the host you just installed, either from the left menu tree or from the Host Summary page.
- 3. Click the **Status** tab. The **Host Status** page appears.
- 4. Check that <version> is correct.



You have successfully installed MarkLogic onto your system.

To begin using MarkLogic Server, see Getting Started with MarkLogic Server.

2.7. Configuring MarkLogic Server to Run as a Non-Daemon User

On UNIX-based systems (Linux), MarkLogic runs as the UNIX user named daemon. This section describes how to change a configuration to run as a different UNIX user. This procedure must be run by the root user. Additionally, the root user is still required for installing and uninstalling MarkLogic and for starting and stopping MarkLogic from the startup scripts.

To modify an installation to run as a user other than daemon, perform the following steps:

- 1. In a command window on the machine in which you installed MarkLogic, log in as the root user.
- 2. Make sure MarkLogic is stopped. If it is still running, stop it as follows:

Platfrom	Steps
Red Hat Linux	As the root user, enter the following command:
	/sbin/service MarkLogic stop

3. Edit the configuration file for your platform using a text editor such as vi.

Platform	Configuration file
Red Hat Linux	/etc/marklogic.conf



NOTE

You must create the /etc/marklogic.conf file if it does not exist. The file is only read by the MarkLogic startup: it is never written to. Therefore, it will survive uninstalling MarkLogic.

4. In the file /etc/marklogic.conf, add or edit the MARKLOGIC_USER environment variable to point to the user in which you want MarkLogic Server to run. For example, if you want it to run as a user named raymond, change the following line:

export MARKLOGIC_USER=daemon

to the following:

export MARKLOGIC_USER=raymond

- 5. Save the changes to the /etc/marklogic.conf file.
- 6. If you have not yet started MarkLogic after performing a clean installation (that is, after installing into a directory where MarkLogic has never been installed), then you are done and you can skip the rest of the steps in this procedure. If you have an existing installation (for example, if you are upgrading to a maintenance release), then continue with the following steps.
- 7. For all of the MarkLogic files owned by daemon, you need to change the owner to the new user. This includes all forest data and all of the configuration files. By default, the forest data is in the following directories:

Platform	Configuration file
Red Hat Linux	/var/opt/marklogic

8. For example, on a Linux system, perform a command similar to the following, which changes the owner to the user specified earlier in the /etc//MarkLogic.conf file:

chown -R raymond /var/opt/MarkLogic

- 9. Make sure to change the owner for all forests in the system; otherwise, forests will fail to mount upon startup. Note that the above command only changes the owner for forests installed in the default directory. You need to run a similar command on the data directory for each forest in which a data directory is specified.
- 10. When you have completed all the file and directory ownership changes, start MarkLogic as described in Starting MarkLogic Server.

Once you have performed this procedure, all new files created by MarkLogic are created with the new user ownership; there will be no need to change any ownership again.

MarkLogic 11 Removing MarkLogic



WARNING

On Linux systems, use the /etc/marklogic.conf script to set environment variables. Any configuration changes you make to the MarkLogic-supplied startup script (for example, /etc/sysconfig/MarkLogic) will not survive an upgrade and need to be merged in during any upgrade of MarkLogic (because the installation installs a new version of the startup scripts). Under Linux, the uninstallation process saves an old version of the scripts (for example, /etc/sysconfig/MarkLogic.rpmsave), so you can use that version to merge in your changes. If you perform a clean installation (not an upgrade installation), however, you will need to run this entire procedure again. If you use /etc/marklogic.conf for your environment variable changes, they will survive an upgrade and you will not need to merge your changes.

The following are default values of environment variables you can override in /etc/marklogic.conf on Linux-based systems (you will have to create the file if it does not exist):

```
export MARKLOGIC_INSTALL_DIR=/opt/MarkLogic
export MARKLOGIC_DATA_DIR=/var/opt/MarkLogic
export MARKLOGIC_FSTYPE=ext4
export MARKLOGIC_USER=daemon
export MARKLOGIC_PID_FILE=/var/run/MarkLogic.pid
export MARKLOGIC_UMASK=022
export MARKLOGIC_DISABLE_JVM=0
export MARKLOGIC_EC2_HOST
export TZ=:/etc/localtime
```

2.8. Removing MarkLogic

To remove MarkLogic from your system, complete the following steps for the corresponding platform:

Platform	Perform the following:	
Windows 10	 In the Windows taskbar, click in the search area. Type MarkLogic. Click Stop MarkLogic Server, then choose to allow the action. The server is now stopped. [Uninstalling MarkLogic 9.0-4 or later] If you have the converters package installed, you need to uninstall it before continuing: Go to Add or remove programs, select MarkLogic Converters and click Uninstall. Uninstall MarkLogic by navigating to Add or remove Programs, selecting MarkLogic Server and 	
Windows	1. Select System Control Panel > Programs > MarkLogic Server >. 2. Right-click Stop MarkLogic Server. 3. Select Run as Administrator, then choose to allow the action. The server is now stopped. 4. [Uninstalling MarkLogic 9.0-4 or later] If you have the converters package installed, you need to uninstall it before continuing: Select MarkLogic Converters in Add/Remove Programs of Control Panel, right click on it, and select Uninstall. 5. Uninstall MarkLogic: select MarkLogic Server in Add/Remove Programs of Control Panel, right click on it, and select Uninstall.	

MarkLogic 11 Removing MarkLogic

Platform	Perform the following:	
Red Hat Linux	Stop MarkLogic: as the root user, enter the following command:	
	/sbin/service MarkLogic stop	
:	[Uninstalling MarkLogic 9.0-4 or later] If you have the converters package installed, you need to uninstall it before continuing: As the root user: enter the following command:	
	yum remove MarkLogicConverters	
	For environments that don't allow a yum uninstallation, the rpm uninstall can be used. To do an rpm uninstall: As the root user, uninstall the package with the following command:	
	rpm -e MarkLogicConverters	
;	3. Uninstall MarkLogic: as the root user, enter the following command:	
	yum remove MarkLogic	
	For environments that don't allow a yum uninstallation, the rpm uninstall can be used. To do an rpm uninstall: as the root user, uninstall the package with the following command:	
	rpm -e MarkLogic	
Mac OS X	 Stop MarkLogic: select System Preferences> MarkLogic to open the MarkLogic control window, and click Stop MarkLogic Server. 	
:	[Uninstalling MarkLogic 9.0-4 or later] if you have the converters package installed, you need to uninstall it before continuing: Use these commands:	
	sudo pkgutilforget com.marklogic.converters	
	rm ~/Library/MarkLogic/Converters	
;	No action is necessary when upgrading. If you want to remove the user data and do a fresh install, then remove the following directory:	
	~/Library/ApplicationSupport/MarkLogic/Data	
4	4. To entirely remove MarkLogic, remove the following directories:	
	~/Library/MarkLogic ~/Library/Application Support/MarkLogic ~/Library/StartupItems/MarkLogic ~/Library/PreferencePanes/MarkLogic.prefPane	
	 To make Mac OS X completely forget it ever had a MarkLogic installation, run the following command from a terminal window: 	
	sudo pkgutilforget com.marklogic.server	



NOTE

Using this procedure to remove MarkLogic from your system will not remove user data (configuration information, XQuery files used by HTTP or XDBC servers, or forest content). This data is left in place to simplify the software upgrade process. If you wish to remove the user data, you must do so manually using standard operating system commands.

In case you previously used converters/filters and want to remove this functionality:

- To remove MarkLogic Converters from a node that has MarkLogic 9.0-4 or later release installed, you can use a package management tool, such as Control Panel on Windows or rpm on Linux, to uninstall MarkLogic Converters.
- To remove converters/filters from a node that has MarkLogic 9.0-3 or earlier release installed, you
 need to uninstall that release of MarkLogic, and then install MarkLogic Server from release 9.0-4 or
 later but do not install MarkLogic Converters.

3. Appendix: Packages by Linux Platform

This appendix is a reference guide for packages by Linux platform used for installing MarkLogic Server installation and MarkLogic Converters packages. If you cannot download the MarkLogic Server installation and MarkLogic Converters packages from http://developer.marklogic.com, you can download the packages required for the Linux platform you are installing.

3.1. Red Hat Enterprise Linux 7

3.1.1. MarkLogic Server

Dependency	Package
gdb	gdb-7.6.1-114.el7.x86_64
libc.so.6(GLIBC_2.14) (64bit)	glibc-2.17-260.el7.x86_64
libgcc_s.so.1()(64bit)	libgcc-4.8.5-39.el7.x86_64
libltdl.so.7()(64bit)	libtool-ltdl-2.4.2-22.el7_3.x86_64
libnsl.so.1()(64bit)	glibc-2.17-196.el7.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-4.8.5-39.el7.x86_64
lsb-core-amd64	redhat-lsb-core-4.1-27.el7.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-35.el7.x86_64
/bin/sh	bash-4.2.46-31.el7_4.x86_64

3.1.2. MarkLogic Converters

Dependency	Package
libc.so.6(GLIBC_2.14)	glibc-2.17-260.el7.i686
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.17-260el7.x86_64
libgcc_s.so.1	libgcc-4.8.5-39.el7.i686
libgcc_s.so.1()(64bit)	libgcc-4.8.5-16.el7.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)	libstdc++-4.8.5-16.el7.i686
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-4.8.5-39.el7.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-35.el8.x86_64
/bin/sh	bash-4.2.46-31.el7_4.x86_64

3.2. Red Hat Enterprise Linux 8

3.2.1. MarkLogic Server

Dependency	Package
gdb	gdb-8.2-5.el8.x86_64
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.28-42.el8_0.1.x86_64
libgcc_s.so.1()(64bit)	libgcc-8.2.1-3.5.el8.x86_64
libltdl.so.7()(64bit)	libtool-ltdl-2.4.6-25.el8.x86_64
libnsl.so.1()(64bit)	libnsl-2.28-42.el8_0.1.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-8.2.1-3.5.el8.x86_64
lsb-core-amd64	redhat-lsb-core-4.1-47.el8.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.14.3-23.el8.x86_64
/bin/sh	bash-4.4.19-7.el8.x86_64

MarkLogic 11 CentOS 7

3.2.2. MarkLogic Converters

Dependency	Package
libc.so.6(GLIBC_2.14)	glibc-2.28-42.el8_0.1.i686
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.28-42.el8_0.1.x86_64
libgcc_s.so.1	libgcc-8.2.1-3.5.el8.i686
libgcc_s.so.1()(64bit)	libgcc-8.2.1-3.5.el8.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)	libstdc++-8.2.1-3.5.el8.i686
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-8.2.1-3.5.el8.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.14.3-23.el8.x86_64
/bin/sh	bash-4.4.19-7.el8.x86_64

3.3. CentOS 7

3.3.1. MarkLogic Server

Dependency	Package
gdb	gdb-7.6.1-119.el7.x86_64
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.17-307.el7.1.x86_64
libgcc_s.so.1()(64bit)	libgcc-4.8.5-39.el7.x86_64
libltdl.so.7()(64bit)	libtool-ltdl-2.4.2-22.el7_3.x86_64
libnsl.so.1()(64bit)	glibc-2.17-307.el7.1.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-4.8.5-39.el7.x86_64
lsb-core-amd64	redhat-lsb-core-4.1-27.el7.centos.1.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-43.el7.x86_64
/bin/sh	bash-4.2.46-34.el7.x86_64

3.3.2. MarkLogic Converters

Dependency	Package
libc.so.6(GLIBC_2.14)	
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.17-307.el7.1.x86_64
libgcc_s.so.1	libgcc-4.8.5-39.el7.i686
libgcc_s.so.1()(64bit)	libgcc-4.8.5-39.el7.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)	libstdc++-4.8.5-39.el7.i686
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-4.8.5-39.el7.i686
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-43.el7.x86_64
/bin/sh	bash-4.2.46-34.el7.x86_64

3.4. Amazon Linux 1

3.4.1. MarkLogic Server

Dependency	Package
gdb	gdb-7.6.1-64.33.amzn1.x86_64
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.17-292.180.amzn1.x86_64
libgcc_s.so.1()(64bit)	libgcc72-7.2.1-2.59.amzn1.x86_64
libltdl.so.7()(64bit)	libtool-ltdl-2.4.2-20.4.8.5.32.amzn1.x86_64
libnsl.so.1()(64bit)	glibc-2.17-292.180.amzn1.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++72-7.2.1-2.59.amzn1.x86_64

MarkLogic 11 Amazon Linux 2

Dependency	Package
lsb-core-amd64	redhat-lsb-core-4.0-7.14.amzn1.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-40.76.amzn1.x86_64
/bin/sh	bash-4.2.46-28.37.amzn1.x86_64

3.4.2. MarkLogic Converters

Dependency	Package
libc.so.6(GLIBC_2.14)	glibc-2.17-292.180.amzn1.i686
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.17-292.180.amzn1.x86_64
libgcc_s.so.1	libgcc64-6.4.1-1.45.amzn1.i686
libgcc_s.so.1()(64bit)	libgcc72-7.2.1-2.59.amzn1.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)	libstdc++64-6.4.1-1.45.amzn1.i686
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++72-7.2.1-2.59.amzn1.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-40.76.amzn1.x86_64
/bin/sh	bash-4.2.46-28.37.amzn1.x86_64

3.5. Amazon Linux 2

3.5.1. MarkLogic Server

Dependency	Package
gdb	gdb-8.0.1-30.amzn2.0.3.x86_64
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.26-34.amzn2.x86_64
libgcc_s.so.1()(64bit)	libgcc-7.3.1-6.amzn2.0.4.x86_64
libltdl.so.7()(64bit)	libtool-ltdl-2.4.2-22.2.amzn2.0.2.x86_64
libnsl.so.1()(64bit)	glibc-2.26-34.amzn2.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-7.3.1-6.amzn2.0.4.x86_64
lsb-core-amd64	system-lsb-core-4.1-27.amzn2.3.6.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-40.amzn2.0.4.x86_64
/bin/sh	bash-4.2.46-33.amzn2.x86_64

3.5.2. MarkLogic Converters

Dependency	Package
libc.so.6(GLIBC_2.14)	glibc-2.26-34.amzn2.i686
libc.so.6(GLIBC_2.14)(64bit)	glibc-2.26-34.amzn2.x86_64
libgcc_s.so.1	libgcc-7.3.1-6.amzn2.0.4.i686
libgcc_s.so.1()(64bit)	libgcc-7.3.1-6.amzn2.0.4.x86_64
libstdc++.so.6(GLIBCXX_3.4.15)	libstdc++-7.3.1-6.amzn2.0.4.i686
libstdc++.so.6(GLIBCXX_3.4.15)(64bit)	libstdc++-7.3.1-6.amzn2.0.4.x86_64
rpmlib(CompressedFileNames) <= 3.0.4-1	rpm-libs-4.11.3-40.amzn2.0.4.x86_64
/bin/sh	bash-4.2.46-33.amzn2.x86_64

MarkLogic 11 Technical Support

4. Technical Support

MarkLogic provides technical support according to the terms detailed in your Software License Agreement or End User License Agreement.

We invite you to visit our support website at http://help.marklogic.com to access information on known and fixed issues, knowledge base articles, and more. For licensed customers with an active maintenance contract, see the *Support Handbook* for instructions on registering support contacts and on working with the MarkLogic Technical Support team.

Complete product documentation, the latest product release downloads, and other useful information is available for all developers at http://developer.marklogic.com. For technical questions, we encourage you to ask your question on Stack Overflow.

MarkLogic 11 Copyright

5. Copyright

MarkLogic Server 11 and supporting products. Last updated: October, 2023.

Copyright © 2023 Progress Software Corporation and/or its subsidiaries or affiliates. All rights reserved. This technology is protected by U.S. Patent No. 7,127,469B2, U.S. Patent No. 7,171,404B2, U.S. Patent No. 7,756,858 B2, and U.S. Patent No 7,962,474 B2, US 8,892,599, and US 8,935,267.

The MarkLogic software is protected by United States and international copyright laws, and incorporates certain third party libraries and components which are subject to the attributions, terms, conditions and disclaimers set forth below.

For all copyright notices, including third-party copyright notices, see the Combined Product Notices for your version of MarkLogic.