# MarkLogic Server

## Flexible Replication Guide

MarkLogic 7
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# 1.0 Flexible Replication in MarkLogic Server

This chapter describes Flexible Replication in MarkLogic Server in general terms, and includes the following sections:


- Terms Used in this Guide
- Understanding Flexible Replication


**Note:** To enable Flexible Replication, a license key that includes Flexible Replication is required. For details on purchasing a Flexible Replication license, contact your MarkLogic sales representative.

## 1.1 Terms Used in this Guide

The following are the definitions for the replication terms used in this guide:

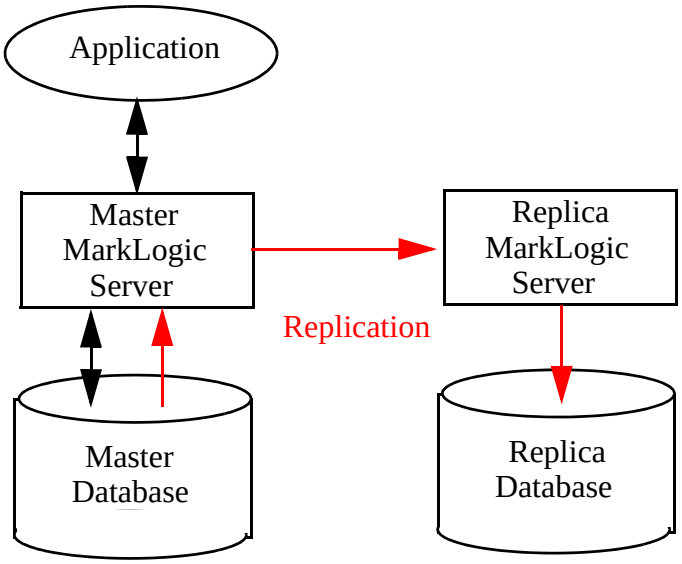
- To *Replicate* is to create a copy of a document in another database and to keep that copy in sync (possibly with some time-lag/latency) with the original.
- The *Master* is the repository that gets updated by the applications. The master, in turn, replicates the updates to other repositories, know as replicas.
- A *Replica* is a repository that receives replicated updates from the master.
- A *Master Copy* is the content being replicated. For any piece of replicated content there is a master and at least one copy.
- A *Master Cluster* is the cluster on which the replicated documents are updated by the applications.
- *Flexible Replication* is an implementation of replication based on the MarkLogic Server Content Processing Framework (CPF). Flexible replication is single-master, asynchronous, and provides a medium level of throughput and latency.
- *Replication Domain* is the specification of the set of documents to be replicated. This may be a collection or some other set definition.
- A *Filter* is an XQuery program that modifies the replicated documents in some manner, determines whether to replicate a change, or selects which parts of a document will be replicated.
- *Asynchronous Replication* refers to a configuration in which the Master does not wait for confirmation that the update has been received by the Replica before sending further updates. Flexible Replication is asynchronous.
- *Transaction-aware* refers to a configuration in which all updates that make up a transaction on the master are applied as a single transaction on the replica.
- *Zero-day Replication* refers to replicating the data in the replicated domains that existed before replication was configured.

## 1.2 Understanding Flexible Replication

Flexible Replication is the process of maintaining copies of data on multiple MarkLogic Servers. The purpose of replication is to make data continuously available to mission-critical applications and to enhance application performance. Some of the benefits of replication include:

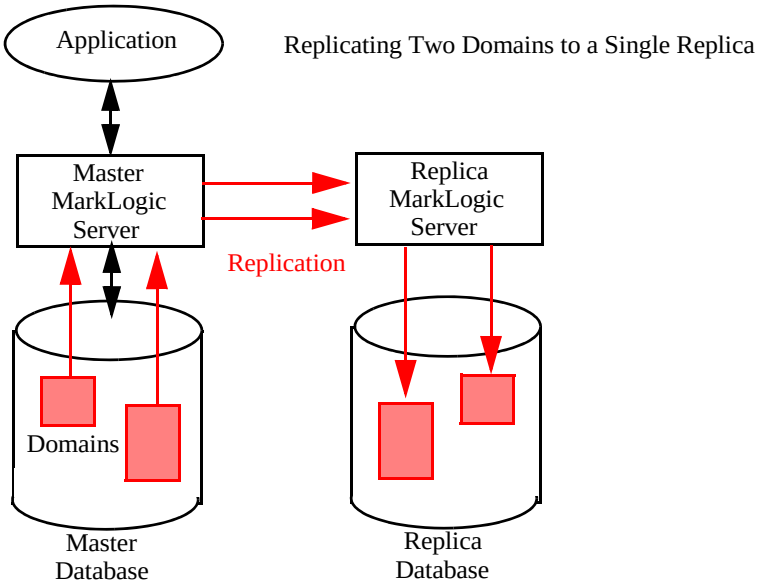
- High Availability: You can maintain duplicate data on two or more MarkLogic Servers. In the event of a software or hardware failure on one server, the data is available from another server.
- Disaster Recovery: In the event of some irreversible disaster on the Master server, duplicate data is preserved on its Replica.
- Performance: Companies with geographically dispersed clusters can use replication to maintain common data on each local cluster. Queries and updates done locally, are faster and the workload can be scaled across clusters, so that each cluster handles less of the query and update load.

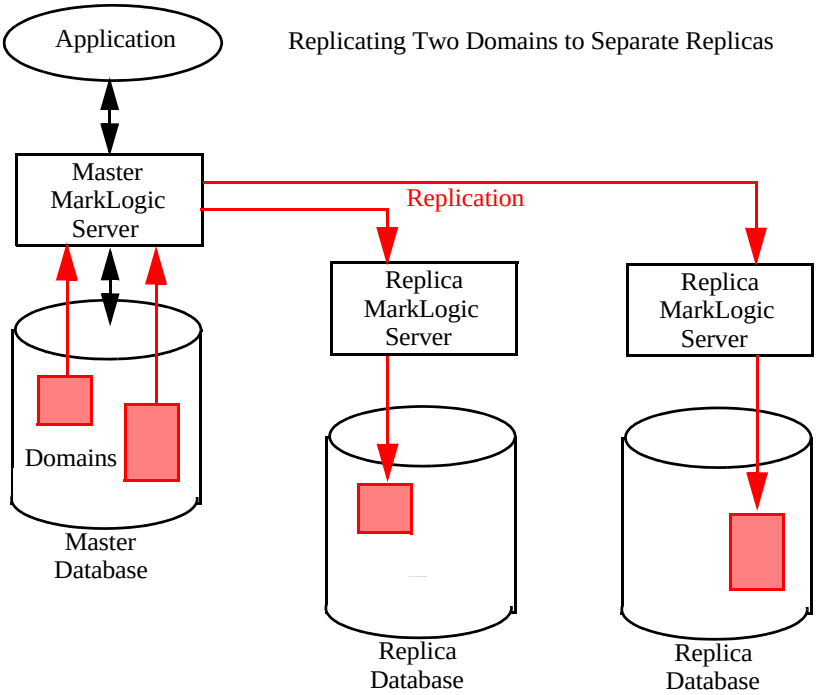
In a replicated environment, the original content is created by an application on the Master MarkLogic Server. Replication then copies the content to one or more Replica MarkLogic Servers. The Master and Replica servers are typically in different clusters, which may be in the same location or in different locations.




Flexible Replication is asynchronous, which means that the Master does not wait for confirmation that the update has been received by the Replica before sending further updates. Replication from the Master to the Replica occurs as soon as possible after the document is added or updated by the application.

MarkLogic Server uses the Content Processing Framework (CPF) as the underlying replication mechanism. The documents to be replicated are defined by a CPF domain. The scope of a domain may be a document, a collection of documents, or a directory. For more details about domains, see Understanding and Using Domains in the *Content Processing Framework Guide* Guide. You can replicate multiple domains either to the same Replica or to different Replicas, as shown is the illustrations below.

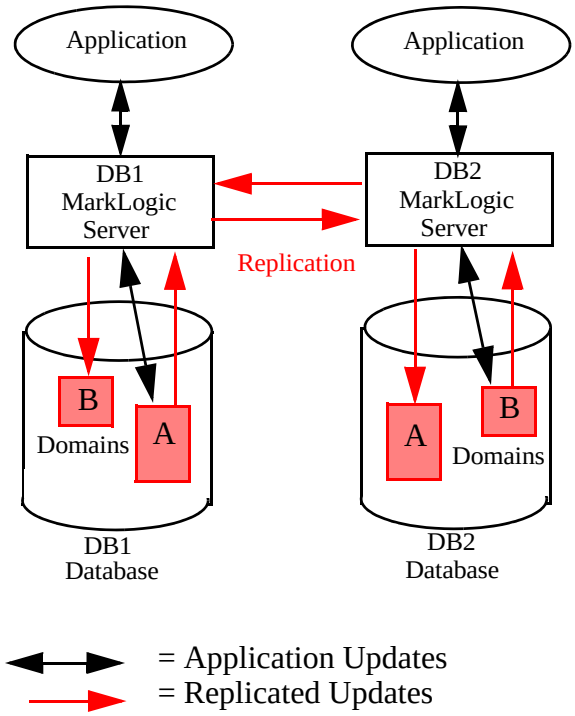


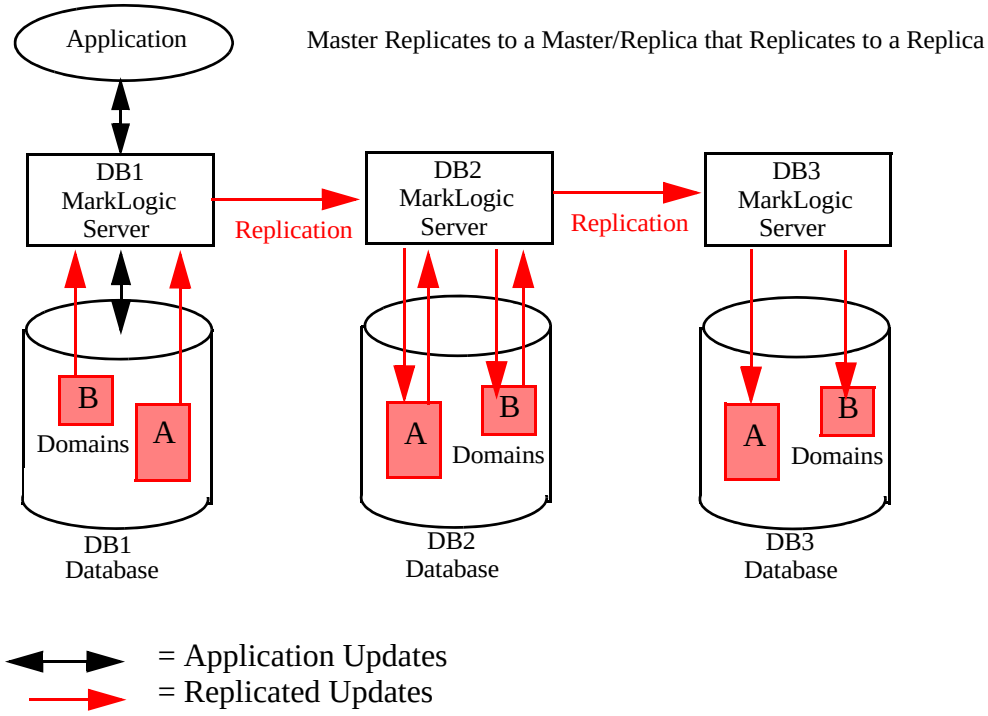
Replicated databases do not necessarily need to be configured as entirely a Master or a Replica in the replication scheme. For example, you may have two databases, DB1 and DB2, where DB1 replicates updates to the documents in Domain A to DB2 and DB2 replicates updates to the documents in Domain B to DB1.

**Note:** This is not a multi-master replication configuration, as the documents updated by each application must be in different domains. Any overlap between the replicated domains may result in unpredictable behavior.

Replicating Different Domains Between Databases



Another possible Master/Replica configuration is where a Master replicates updates to a Replica/Master that replicates the updates to another Replica. For example, you may have three databases, DB1, DB2, and DB3, where DB1 replicates updates to DB2 and DB2 replicates updates to DB3.




You can set up filters that narrow the scope of what documents and what parts of the documents are replicated within a domain. For example, you can set up a filter to replicate only XML documents, or you can create filters to only replicate inserts and updates (not deletes), or only replicate a particular node or element within each document.

Replication can be configured to either *push* or *pull* updates from the Master to the Replica. Push replication means that the Master pushes updates to the Replica. Pull replication means the Replica pulls updates from the Master. Push replication is triggered whenever an update is made on the Master database. Pull replication can only be configured as a scheduled task, as described in “Configuring Pull Replication” on page 36. Typically, you should use push replication, unless the Master and Replica are separated by a firewall through which a Replica server can only pull content from a Master server outside the firewall.

# 2.0 Flexible Replication Quick Start

This chapter provides the quick-start procedures for creating a simple flexible replication configuration on a single MarkLogic Server. Typical flexible replication configurations will have the Master and Replica databases on different MarkLogic Servers located on different hosts. Replicated MarkLogic Servers may reside in the same cluster or in different clusters. In order to keep the hardware requirements to a minimum, this quick start describes how to set up replication between two databases on the same MarkLogic Server.

This chapter includes the following sections:


- Creating Master and Replica Databases
- Configuring a Flexible Replication Pipeline for the Master Database
- Creating a Replication App Server
- Configuring Push Replication on the Master Database
- Scheduling Replication Push Task
- Loading Documents into the Master Database and Checking Replication


All of the procedures described in this chapter are done using the Admin Interface described in the Administrative Interface chapter in the *Administrator's Guide*.

## 2.1 Creating Master and Replica Databases

Before attempting to configure replication, create a Master and a Replica database. In these examples, the databases are named Master and Replica. However, you can use any name you wish for either the master or its replica.

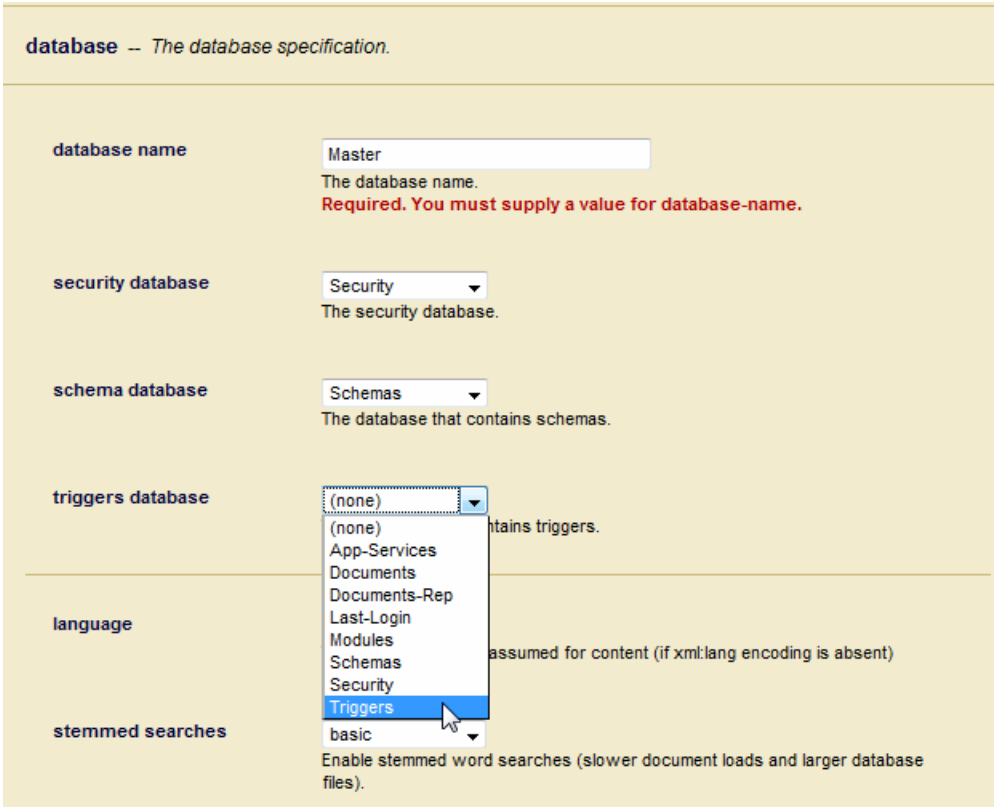
1. Create two forests, one for the Master database and one for the Replica database. For details on creating forests, see Creating a Forest in the *Administrator's Guide*.

2. Create two databases, Master and Replica, and attach the respective forest to each database. For details on creating databases and attaching forests, see Creating a New Database and Attaching and/or Detaching Forests to/from a Database in the *Administrator's Guide*.

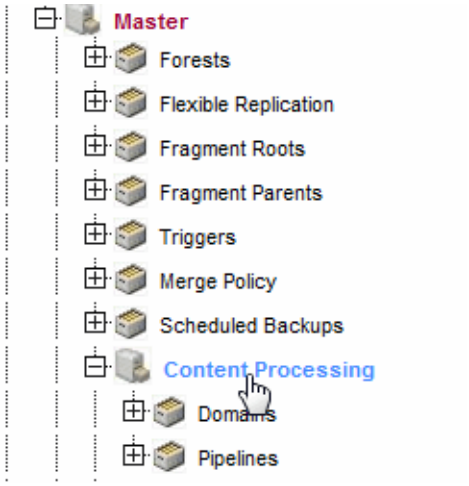
## 2.2 Configuring a Flexible Replication Pipeline for the Master Database

This section describes how to configure the Content Processing Framework (CPF) for the replicated domains on the Master database. In order to replicate data, CPF on the Master domains must be configured with the Status Change Handling and Flexible Replication pipelines. In this example, we use the existing Triggers database. However, if you are replicating more than one database, you should create a separate CPF database for each master database.

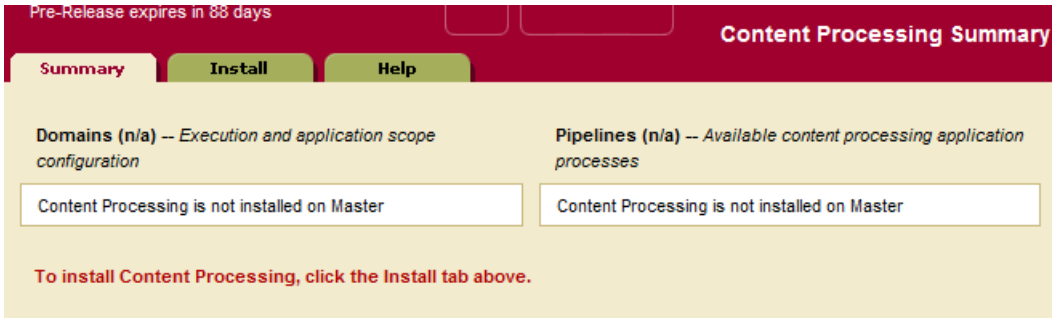
1. Configure the Master database to use a triggers database.



2. Select Content Processing on the Master database:



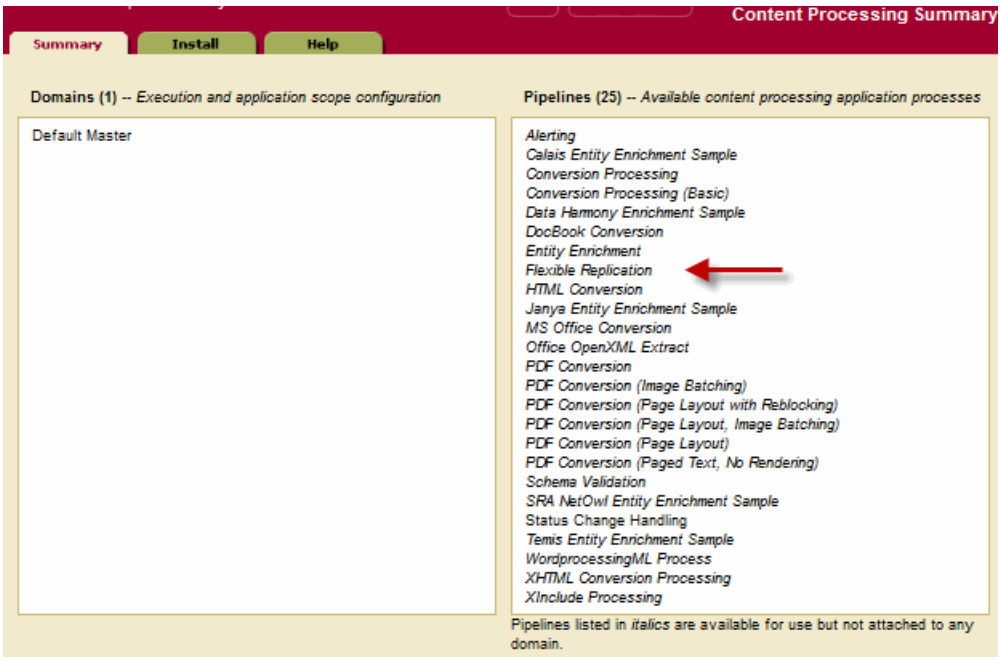

3. In the Content Processing Summary, click on the Install tab:



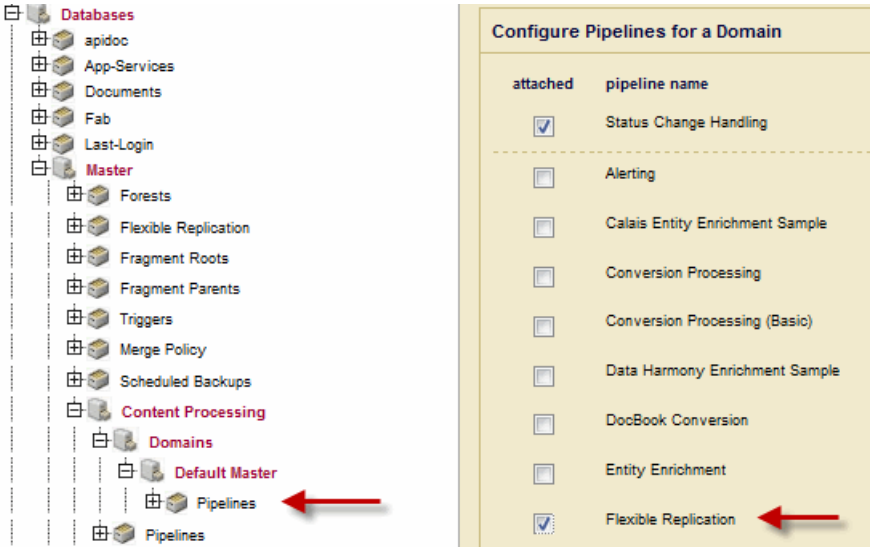

4. On the Content Processing Installation page, click Install:



5. Confirm that Flexible Replication appears in the Pipelines section of the Content Processing Summary page:




6. On the left-hand navigation menu, navigate to the Content Processing > Domains > Default Master > Pipelines page. Select the Status Change Handling and Flexible Replication pipelines and click OK:

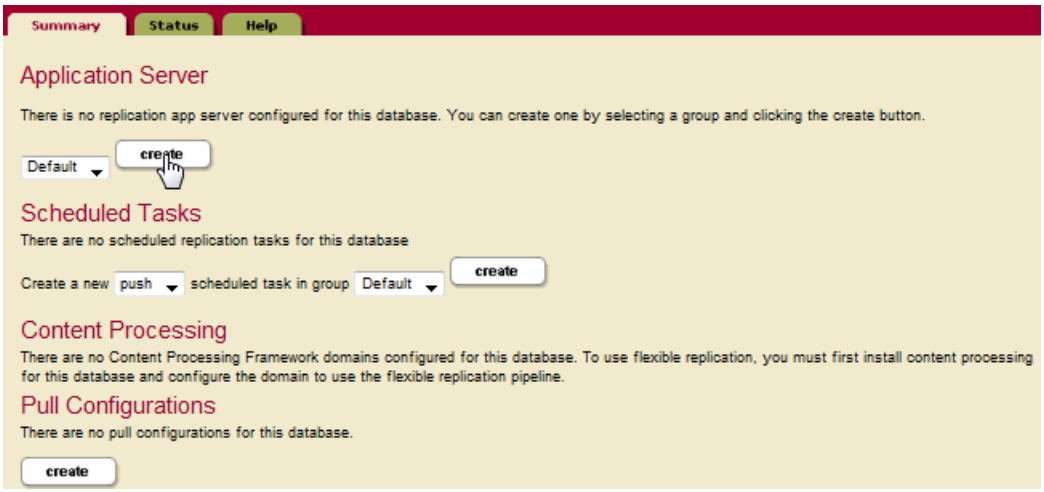


## 2.3 Creating a Replication App Server

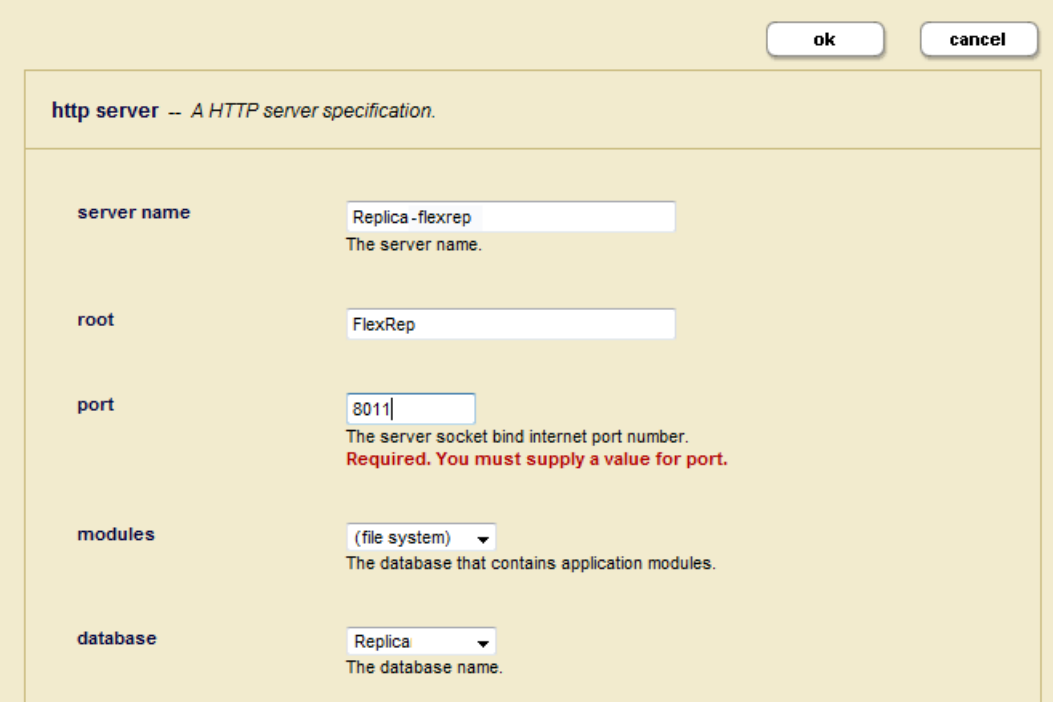
In a push replication configuration, the Replica database must be connected to a Replication App Server. In a pull replication configuration, the Master database must be connected to a Replication App Server.

The following procedure describes how to create an App Server for a Replica in a push replication configuration.

1. Under the Replica database, navigate to Flexible Replication. In the Database Replication page, click Create under Application Server:

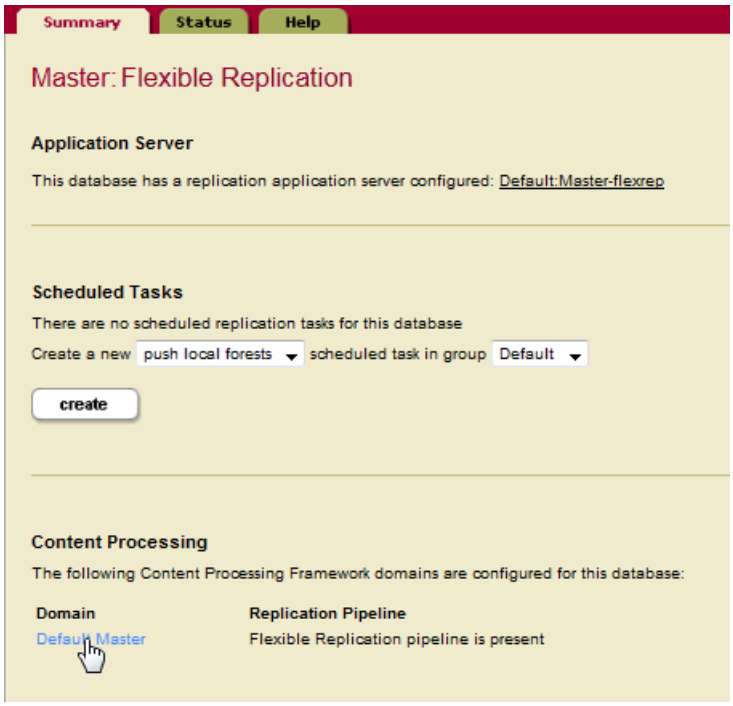


2. In the HTTP Server Configuration page, specify a port number of the App Server. Set the other fields as required, but do not change the server name, root directory, or database settings, which have been prefilled by MarkLogic Server. When finished, click Ok.

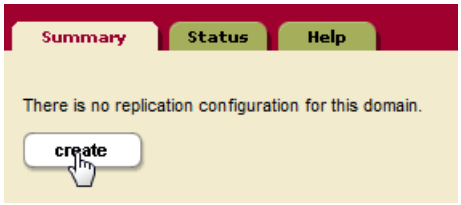


## 2.4 Configuring Push Replication on the Master Database

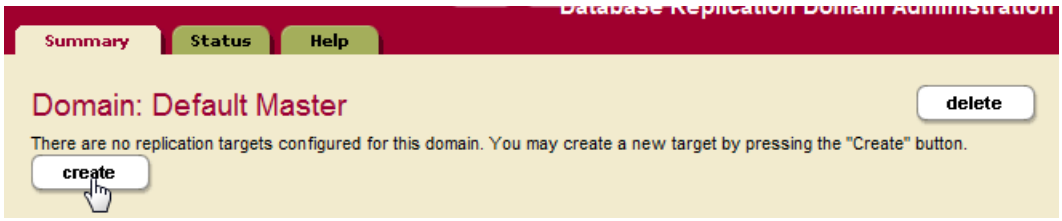
1. For the Master database, navigate to Flexible Replication and click Default Master under Content Processing:



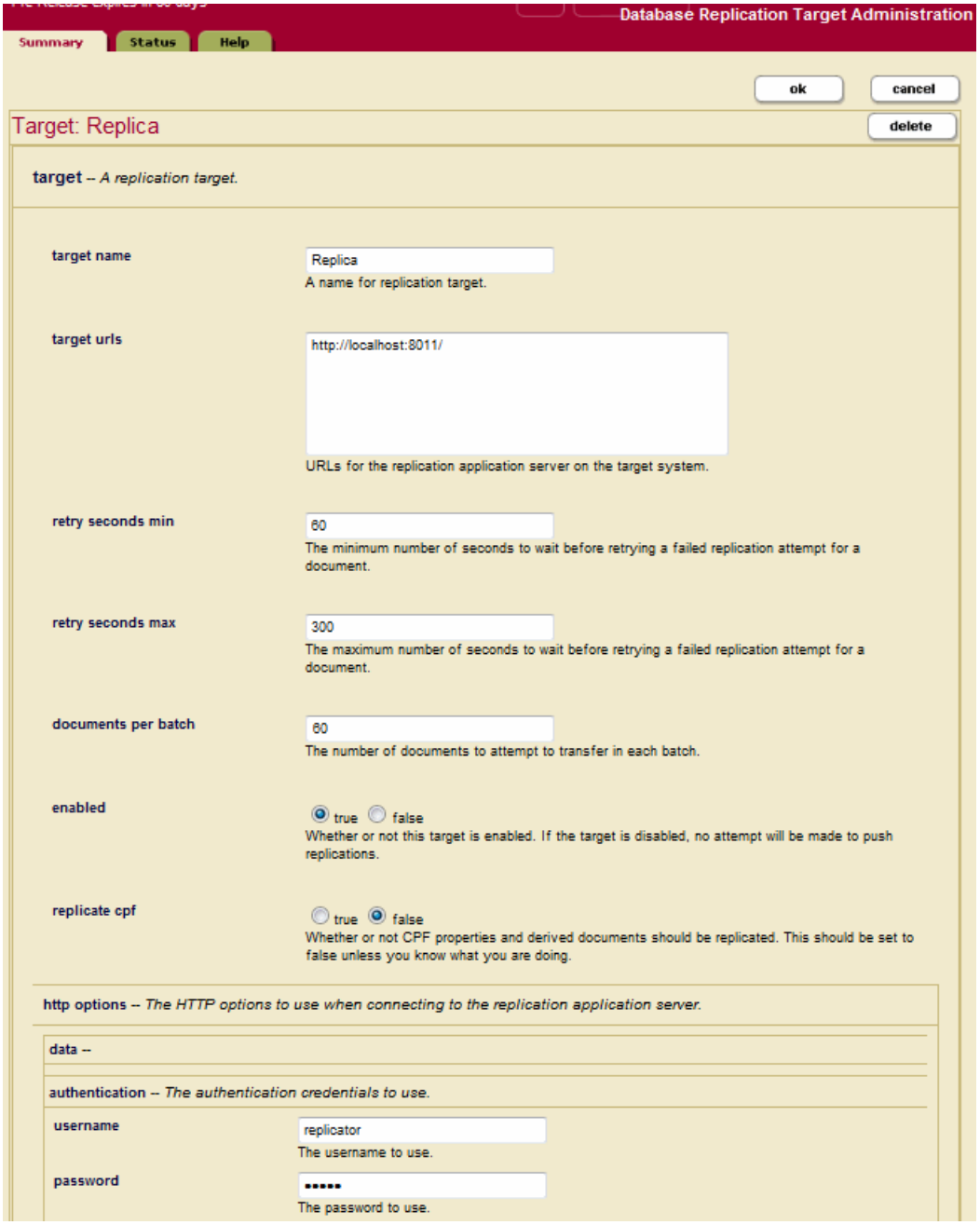

2. Click Create to configure replication for the Default Master domain:




3. Click Create to configure a replication target for the Default Master domain:



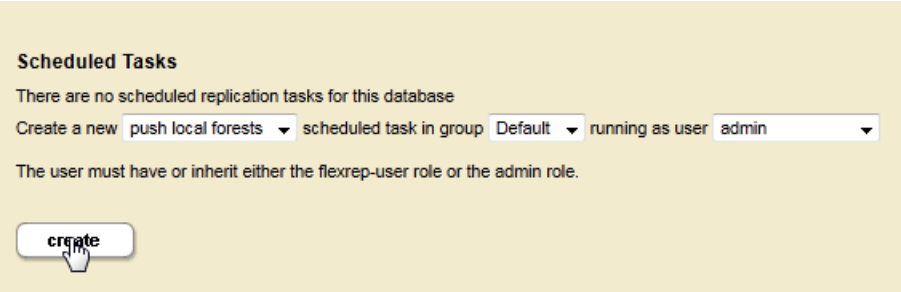
4. In the Database Replication Target page, specify a target name, the target URL that includes the hostname and port number you specified for the Replica's App Server in "Creating a Replication App Server" on page 13. Under Authentication, specify the username and password for a user assigned the `flexrep-user` role on the Replica's App Server:



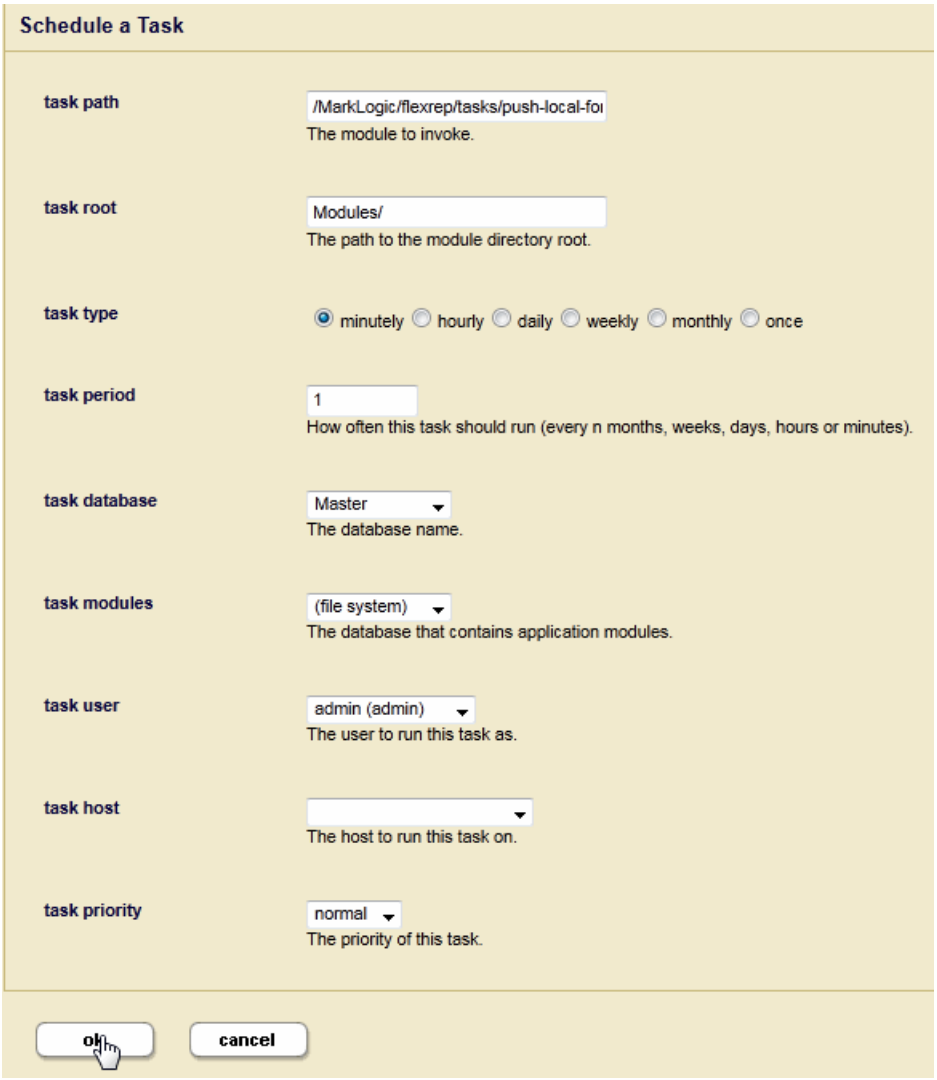
## 2.5 Scheduling Replication Push Task

You must create a scheduled task to periodically push updated content on the Master to the Replicas. When a document is updated on the Master, it is immediately replicated to the Replica. A scheduled replication task provides a retry mechanism in the event the initial replication fails. A task is also required to replicate deletes and to replicate all of the documents that were on the master before replication was enabled. For more information on scheduled replication tasks, see “Creating a Scheduled Replication Task” on page 29.

1. For the Master database, navigate to Flexible Replication and click Create under Scheduled Tasks:



2. Create a Scheduled Tasks that defines the frequency in which documents are to be replicated from the Master to the Replica. You must also specify the task user. Do not specify a task host. Click OK.



## 2.6 Loading Documents into the Master Database and Checking Replication

At this point, any documents loaded into the Master database will be replicated to the Replica database. You can use Information Studio to load documents into the Master database. For details on using Information Studio to load documents, see Creating and Configuring Flows in the *Information Studio Developer's Guide*.

> **Note:** Be sure to load your data using the same URI as specified in your replicated domain. For example, if you use the default URI (/), make sure all of your document names start with '/'.

Alternative methods for loading content into a database include:

- Using the XQuery load document functions, as described in Loading Content Using XQuery in the *Loading Content Into MarkLogic Server Guide*.
- Setting up a WebDAV server and client, such as Windows Explorer, to load your documents. See the section Simple Drag-and-Drop Conversion in the *Content Processing Framework Guide* guide for information on how to configure a WebDAV server to work with Windows Explorer.
- Creating an XCC application, as described in Using the Sample Applications in the *XCC Developer's Guide*.

One way to confirm the content has been replicated to the replica is to use the explore feature in Query Console to view the contents of the Replica database. For details on how to use Query Console to explore the contents of a database, see Exploring a Database in the *Query Console User's Guide*.

# 3.0 Configuring Replication

This chapter describes how to configure your MarkLogic Servers for replication. The topics in this chapter assume you are familiar with the replication principles described in "Understanding Flexible Replication" on page 5 and the basic configuration procedures described in the "Flexible Replication Quick Start" on page 9.

This chapter includes the following sections:


- Replication Security
- Defining Replicated Domains
- Configuring Replication App Servers
- Configuring Push Replication
- Creating a Scheduled Replication Task
- Configuring Pull Replication
- Backing Up, Restoring, and Clearing the Master and Replica Databases

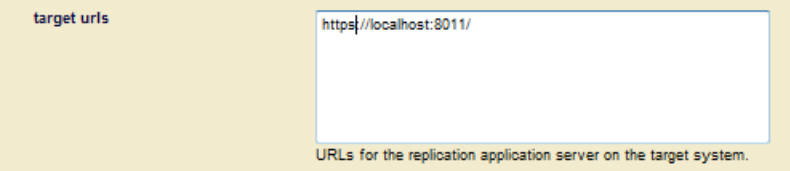

## 3.1 Replication Security

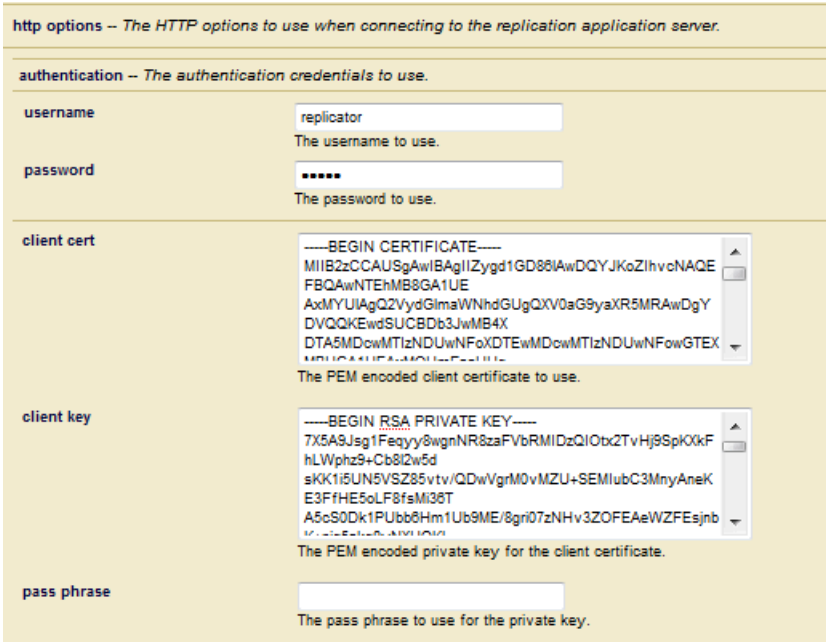
The `flexrep-admin` role is required to configure replication. The user you use to access the Replica App Server when pushing, or into the Master App Server when pulling, requires the `flexrep-user` role. Though you will typically configure replication as the Admin user, you should create a unique replication user to be associated with the replication tasks. The replication user must be given the `flexrep-user` role and have the privileges necessary to update the domain content on both the Master and Replica App Servers.

You can configure SSL on your Master and Replica App Servers to encrypt the replicated data passed between them. For details on configuring SSL on App Server, see the Configuring SSL on App Servers chapter in the *Administrator's Guide*.

If SSL on the Replica App Server is configured to require a client certificate from the Master, the Target URL must start with HTTPS. Paste the PEM-encoded client certificate and client key in the fields located at the bottom of the Database Replication Target Administration page. If the client key is encrypted, you must also specify a pass phase.

The same security configuration applies when configuring the Replica App Server for pull replication, if the Master App Server requires a client certificate from the Replica. For details on how to configure pull replication, see “Creating a Pull Replication Task” on page 35



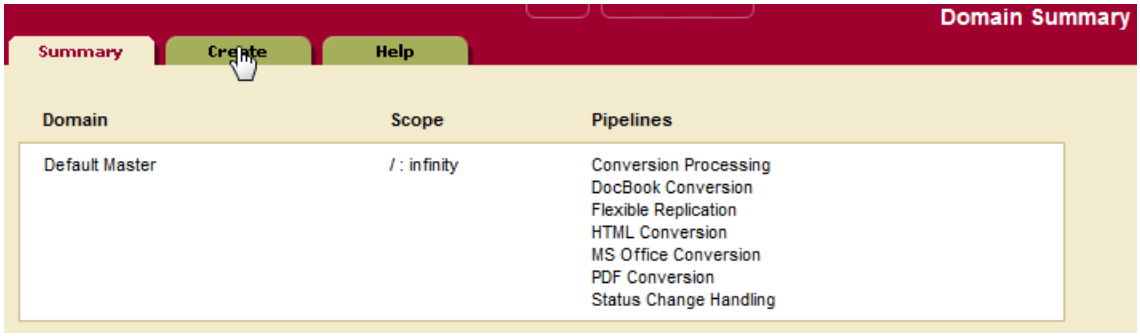



## 3.2 Defining Replicated Domains

Before you can define replicated domains, you must enable CPF as described in “Configuring a Flexible Replication Pipeline for the Master Database” on page 10.

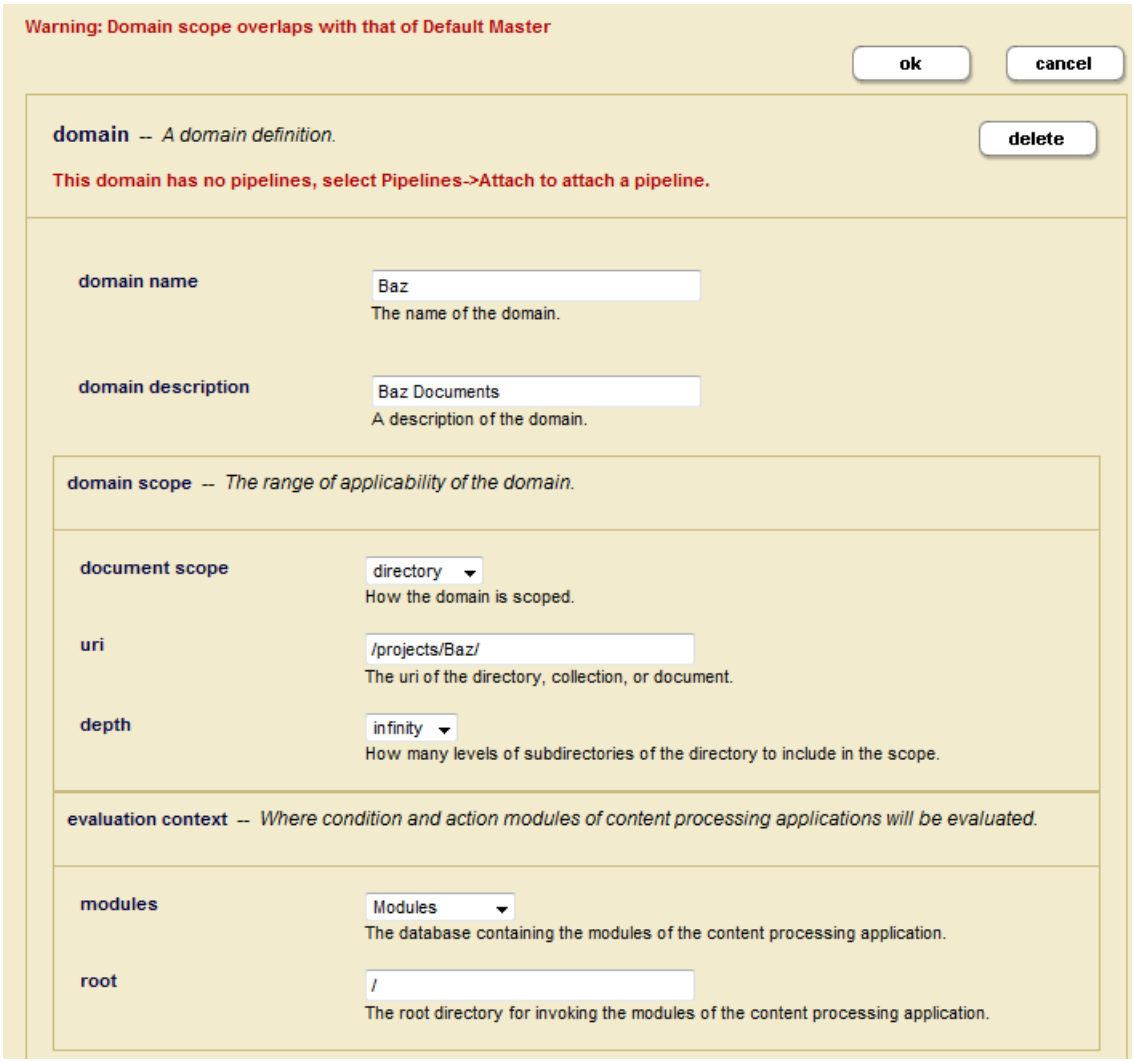
CPF domains are described in detail in the Understanding and Using Domains chapter in the *Content Processing Framework Guide* Guide. The purpose of this section is to describe how to create a domain that defines the scope of the documents in the Master database to be replicated to the Replica database.

**Warning** Each domain must contain a unique set of documents. No single document can be in more than one domain.



The following procedure describes how to create a new domain for defining the scope of the replicated documents. By default, CPF creates a Default Master domain to replicate from the "/" root directory of the Master database. The "/" root means that the document URIs must be preceded by a "/", such as `/foo.xml` or `/content/foo.xml`. You can also set the Document Scope of the domain to replicate a user collection or an individual document.

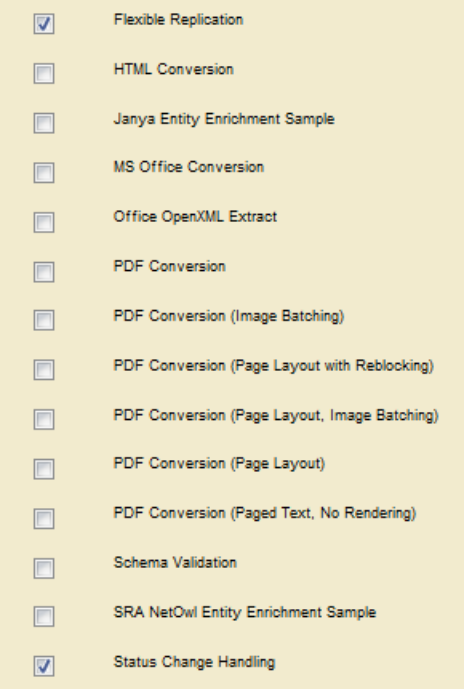
1. To replicate a portion of a database, you can create another domain. For example, you can create a domain that specifies the documents in the `/projects/Baz/` directory on the Master database, as shown below.




You may receive a warning that this domain overlaps with the Default Master domain. This means that the both the Baz domain and the Default Master domain are configured to replicate the documents in the `/projects/Baz/` directory. You cannot have any document that is in more than one domain, so you must either delete or modify the Default Master to resolve this conflict.

**Note:** If you want to create a domain to replicate the entire database, you can assign a default collection to all of your users and then set the Document Scope to Collections and the URI to the name of the default collection. For details on how to establish a default collection for a user, see Creating a User in the *Administrator's Guide*.

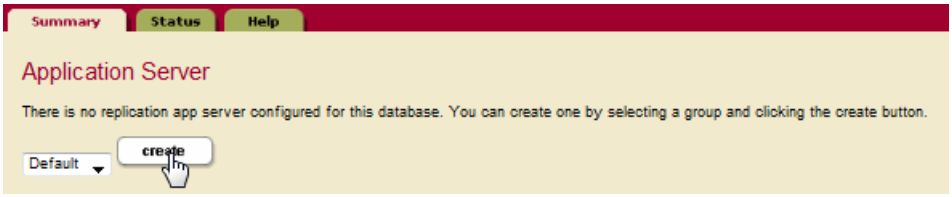
2. Select Pipelines in the navigation frame and select the Flexible Replication and Status Change Handling pipelines. These are the minimum pipelines required for replication. You can select other pipelines, as required for your configuration.



## 3.3 Configuring Replication App Servers

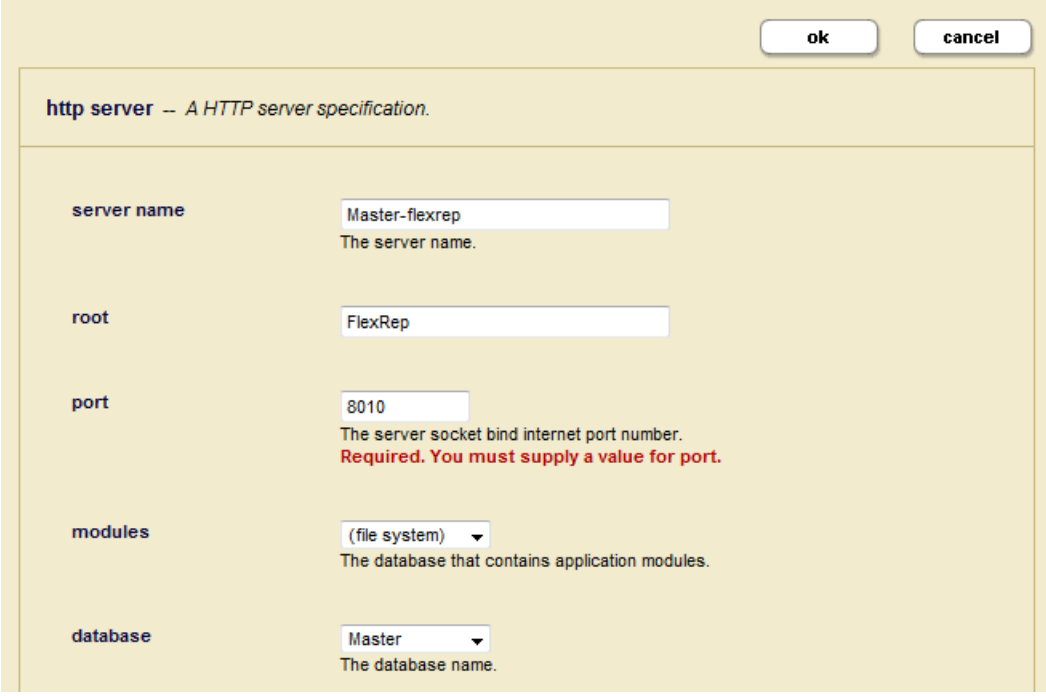
As described in “Creating a Replication App Server” on page 13, in a push replication configuration, the Replica database must be connected to a Replication App Server. In a pull replication configuration, the Master database must be connected to a Replication App Server. This section goes into more detail on creating and configuring Replication App Servers.

1. Create a Replication App Server by clicking Create in the Application Server section of the Database Replication Administration page:




**Note:** The Server Name, Root, and Database fields are preconfigured and should not be changed.

2. Enter a unique port number for the App Server:




The purpose of the other fields in the HTTP Server Configuration page are described in Creating a New HTTP Server in the *Administrator’s Guide*. If you are going to configure SSL on the App Server to require a client certificate, you must specify the certificate in the

Database Replication Target Administration configuration page, as described in “Replication Security” on page 20.

For example, if you are configuring the Master database to push updates to a Replica App Server that requires a client certificate, you must include a client certificate in the Database Replication Target Administration configuration page for the Master database. If you are configuring a Replica App Server to pull updates from the Master database that requires a client certificate, you must you must include a client certificate in the Replication Pull configuration page for the Replica database. For details on providing a client certificate for either a push or pull replication configuration, see “Replication Security” on page 20.

## 3.4 Configuring Push Replication

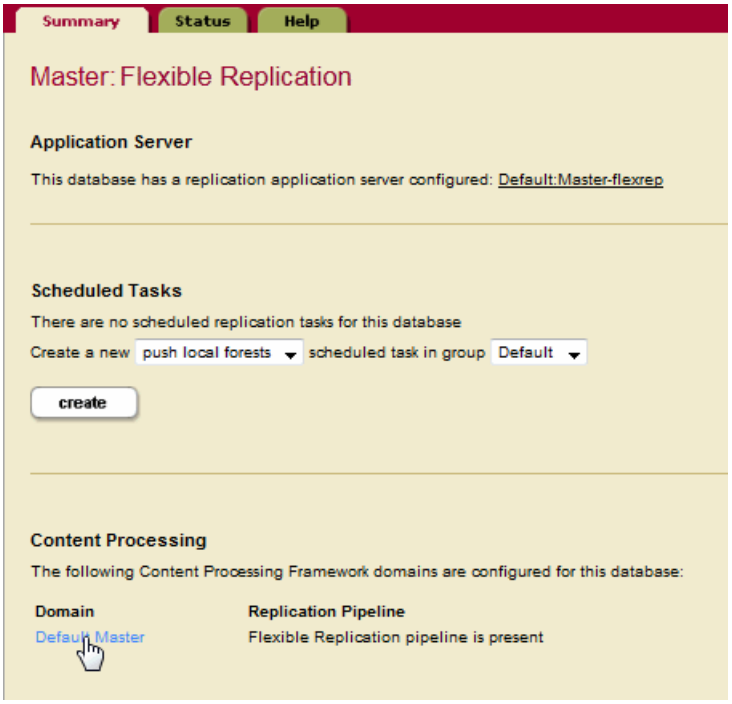
This section describes how to configure your Master database for Push Replication.

Before you can configure a replication target, you must have content processing enabled for the Master database. After configuring push replication, you must create a scheduled task, as described in “Creating a Push-Local-Forests Replication Task” on page 33.

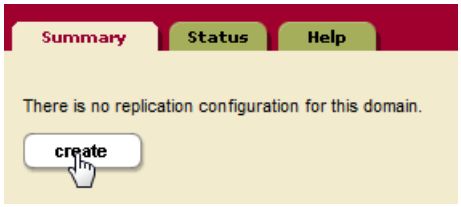
1. Under Databases, click the Master database.

2. Click Flexible Replication under the Master database.

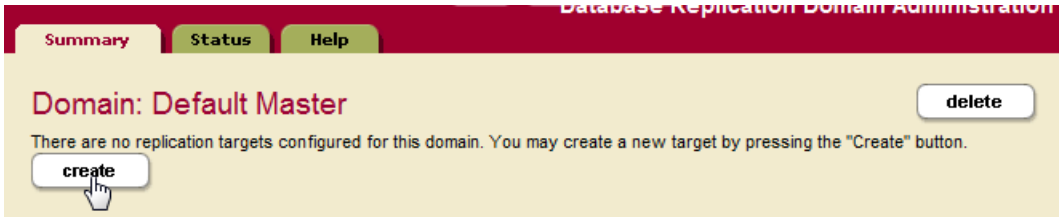
3. Locate the Content Processing section on the Database Replication Administration page and click on the domain name.



4. Click Create to configure replication for the domain:




5. Click Create to configure a replication target for the domain:




6. In the Database Replication Target Administration page, specify a target name and one or more target URLs that include the hostname and port number you specified for your Replica App Servers in “Creating a Replication App Server” on page 13. The Retry Seconds Min/Max and Documents Per Batch setting are for scheduled tasks, as described in “Creating a Scheduled Replication Task” on page 29.

   Under Authentication, specify the username and password for a user assigned the `flexrep-user` role. This user must have the same username/password as the user on the Master App Server who creates and updates the documents. This user needs to have sufficient permissions on the target system to insert and update the replicated documents. Because Flexible Replication passes through the permissions set on the Master App Server when replicating, the user on the target must have permissions to update the document later on. Permissions can either be configured by the administrator on both the Master and Replica App Server, or you can use a filter to adjust the document permissions so the target user can later update the document, as described in “Adding Document Permissions” on page 48.

You can optionally disable pushing replication to the target by setting `Enabled` to `false`. Do not set the `Replicate CPF` option to without the direction from MarkLogic Customer Support.




7. If the Replica App Server requires a client certificate, the Target URL must start with HTTPS. Paste the client certificate, client key and pass phrase (if the client key is encrypted) in the fields located at the bottom of the Database Replication Target Administration page. For details on how to configure the Master to provide a client certificate, see “Replication Security” on page 20.

## 3.5 Creating a Scheduled Replication Task

Regardless of whether you configure replication as push or pull, you must create a scheduled task to periodically replicate updated content on the Master to the Replicas. A scheduled replication task does the following:

- Moves existing content that was on the Master before replication was configured (zero-day replication).
- Provides a retry mechanism in the event the initial replication fails.
- Replicates deletes on the Master to the Replica.
- Provides the ability to pull data from a Master server located outside a firewall.

There are three types of scheduled tasks, as described in the table below.

| Task | Description |
|---|---|
| push-local-forests | The push-local-forests task setting is the preferred method for retry and zero-day replication. Once the initial scheduled interval is reached, this task pushes each batch of documents, immediately following the previous batch, regardless of the scheduled task frequency. If you had previously used the push task, switching over to the push-local-forests setting will provide better performance.<br><br>**Note:** The push-local-forests task for each forest can only be respawned a maximum of 500 times per replication period. in order to avoid overflowing the task limit. After 500 respawns, the task will wait for the next replication period to start replicating again. For each respawn, the task will replicate the batch size to the replica.<br><br>Do not specify a task host for the push-local-forests task. This allows the task to run on all hosts in the cluster. |
| push | The push task pushes a batch of documents from all of the forests in the database. This task pushes one batch from the entire database per scheduled interval. This form of push replication is available for users who configured replication on earlier versions of MarkLogic Server. If you are currently configured for this form of push replication, you will obtain better performance if you switch to push-local-forests replication.<br><br>The push task runs on a single host, which you must specify as the task host. |

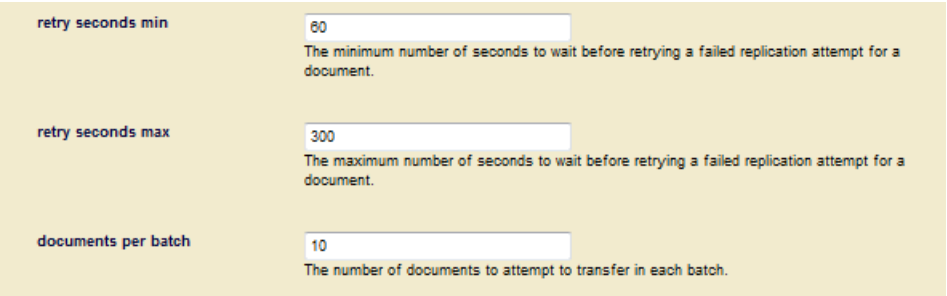
| Task | Description |
|---|---|
| pull | The pull task is configured on a Replica database to pull data from the Master database. This is the only replication option available to a Replica, so the pull scheduled task must serve as the initial replication mechanism in addition to retry and zero-day replication.<br><br>The pull task runs on a single host, which you must specify as the task host. |

For all scheduled replication tasks, the replication retry configuration is a combination of the scheduled task frequency settings and the target settings, Retry Seconds Min, Retry Seconds Max, and Document Per Batch.

The task type in the Scheduled Task Configuration page indicates the interval at which each scheduled replication task is to run. In most configurations, the task type will be minutely. For details on configuring scheduled tasks, see Scheduling Tasks in the *Administrator's Guide*.



The Retry Seconds Min/Max settings in the Database Replication Target Administration page indicate the minimum and maximum number of seconds any documents that failed to replicate are eligible for replication retries. In a push configuration, the Documents Per Batch setting specifies how many documents that have failed to replicate are to be retried during each scheduled task interval. In a pull configuration, the Documents Per Batch setting specifies the total number of replicated documents (retries of failed documents and newly added or updated documents) that are to be pulled from the Master during each scheduled task interval.




For example, the retry minimum is 30 seconds, the retry maximum is 300 seconds (five minutes) and the scheduled replication task period is every one minute. If a document fails replication, it is eligible to be retried in 30 seconds. This means that MarkLogic Server will attempt to replicate the document at the next minute interval. The retry interval is doubled each time the document fails to replicate until the interval reaches the maximum retry setting, at which time the retry interval remains at the maximum. So, if the document in our example fails a second time, it will be eligible for retry in one minute. Should the document fail to replicate the second time, the retry interval is set to two minutes, and so on until the interval reaches the five-minute retry maximum setting, after which MarkLogic Server tries to replicate the document every five minutes.

The Documents Per Batch setting also plays a role with replication retries. For example, if the batch value is one and five documents have failed to replicate, then MarkLogic Server will only attempt to retry one failed document that is eligible for replication retries during each scheduled task interval. The document selected for replication retry is the earliest eligible document.

Though the Documents Per Batch setting is 1 by default, a more typical value is in the range of 10 - 100. If there is a large number of documents to be replicated in a zero-day fashion, you can maximize the load speed by closely matching the scheduled interval with the Documents Per Batch setting, so that the maximum number of documents are loaded within the time interval. For example, if your scheduled interval is one minute and you have determined that you can replicate a maximum of 250 documents per minute, then the optimum Documents Per Batch setting would be 250.

When a flexible replication domain includes multiple targets, the scheduled task will use the smallest of the configured Documents per Batch settings. So if one target has Documents per Batch set to 1, and another has Documents per Batch set to 100, the scheduled task will use a batch size of 1.

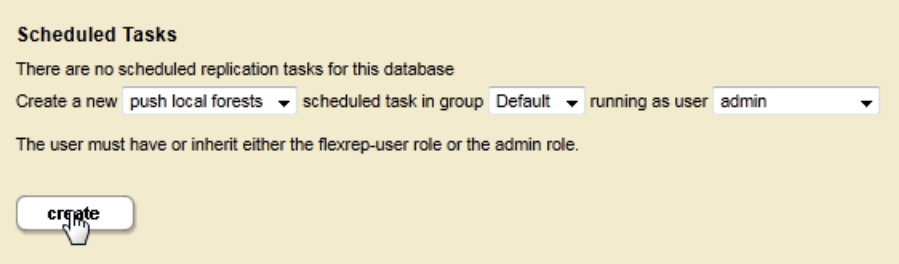
### 3.5.1 Creating a Push-Local-Forests Replication Task

This section describes how to configure a push-local-forests replication task to provide the Master with the means to replicate deletes to the Replica, retry replication on documents that have failed the initial attempt to replicate, and to replicate documents that were in the replicated domain before replication was configured.

> **Note:** A scheduled push-local-forests task should be run by a user assigned the `flexrep-admin` role or the `admin` role.

Do the following to create a push-local-forests scheduled replication task:

1. For the Master database, navigate to Flexible Replication, select push local forests in the drop-down menu, select the group in which you want to schedule the task, and click Create under Scheduled Tasks:



2. Create a Scheduled Tasks that defines the frequency in which documents are to be replicated from the Master to the Replica (when using push-local-forests, this interval only defines the timeframe to wait before pushing the initial batch). You must also specify the task user.

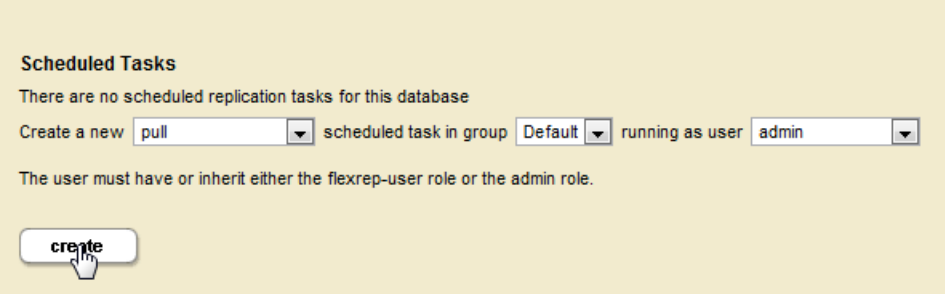
   **Note:** Do not specify a host if you are creating a push-local-forests scheduled task.



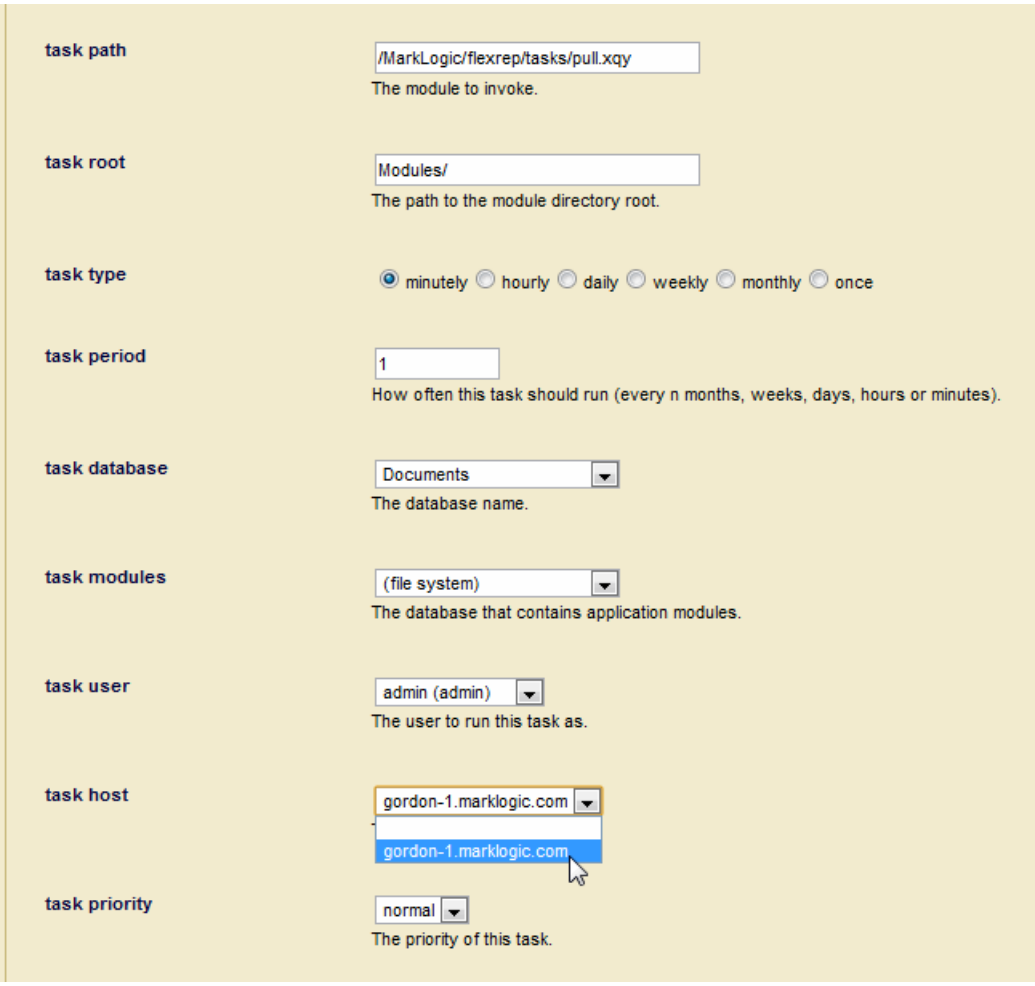
### 3.5.2 Creating a Pull Replication Task

In a pull replication configuration, the Replicas pull updates from the Master. Unlike push replication, which replicates as soon as the documents on the Master are updated, the only way to configure pull replication is by means of a scheduled task.

1. On the Replica, create a scheduled task to pull the content from the Master:



2. Specify the pull frequency. In the task user pull-down menu, select the user with the `flexrep-user` role on a Replica host. Under task host, select a Replica host or leave the field empty so the task can run on any host in the cluster. Click OK.



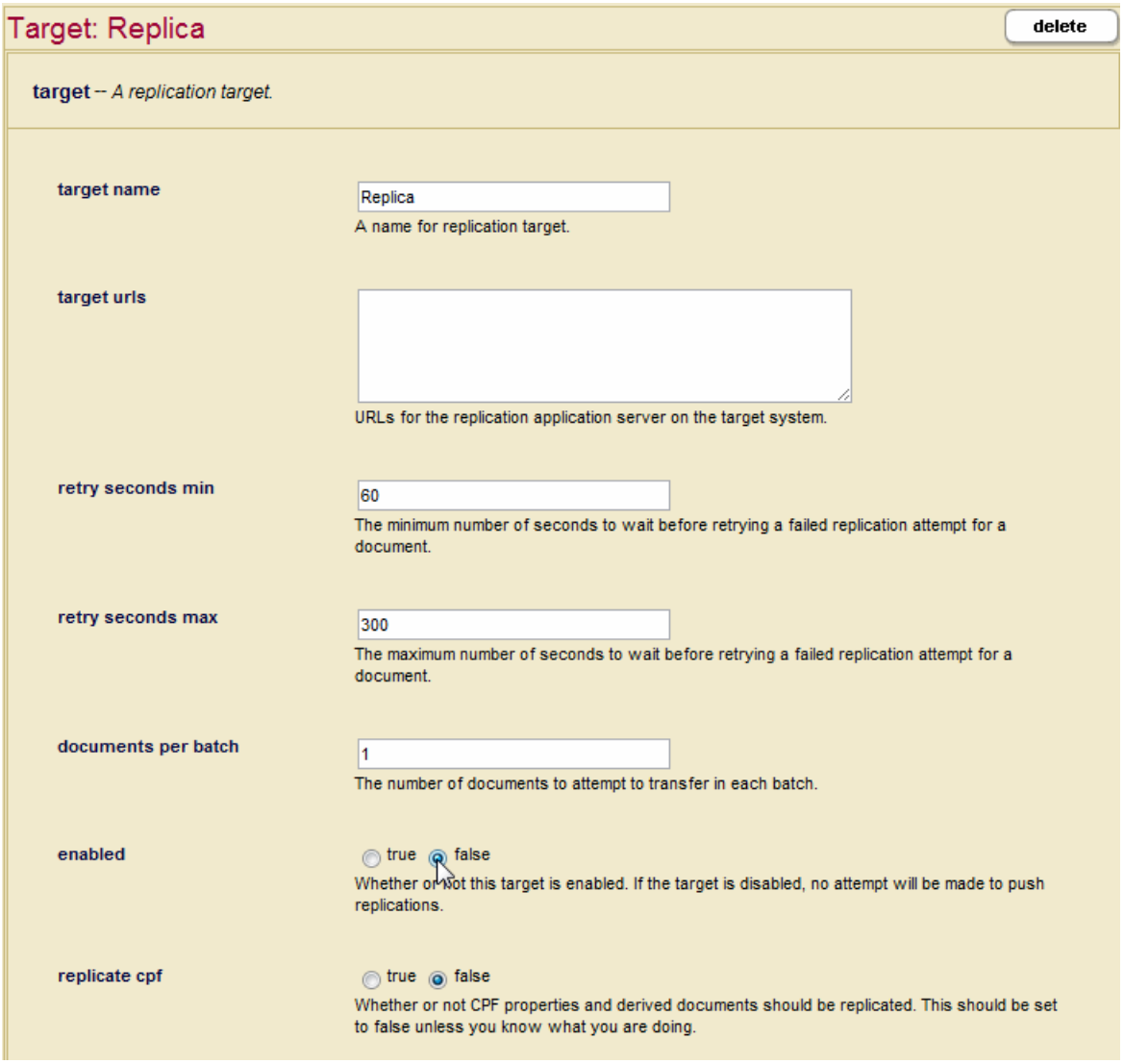

## 3.6 Configuring Pull Replication

Pull Replication is useful when a Replica is behind a firewall that only allows its internal servers to pull from a Master server outside the firewall. This section describes how to configure your Replica database for Pull Replication.

**Note:** If the Replica is to act as a Master for another Replica, then you must have CPF enabled on the Replica, as described in "Configuring a Flexible Replication Pipeline for the Master Database" on page 10. However, if the Replica has CPF installed and it is not to act as a Master, then you must disable the Flexible Replication pipeline on the Replica.

The procedure for configuring Pull Replication on the Master and Replica databases is as follows:

1. On a Master host, define a replication target for the Master Content Processing Domain with push replication disabled. You can do this by either not defining a target URL in the target configuration page or by disabling the replication target, or by doing both as shown below.

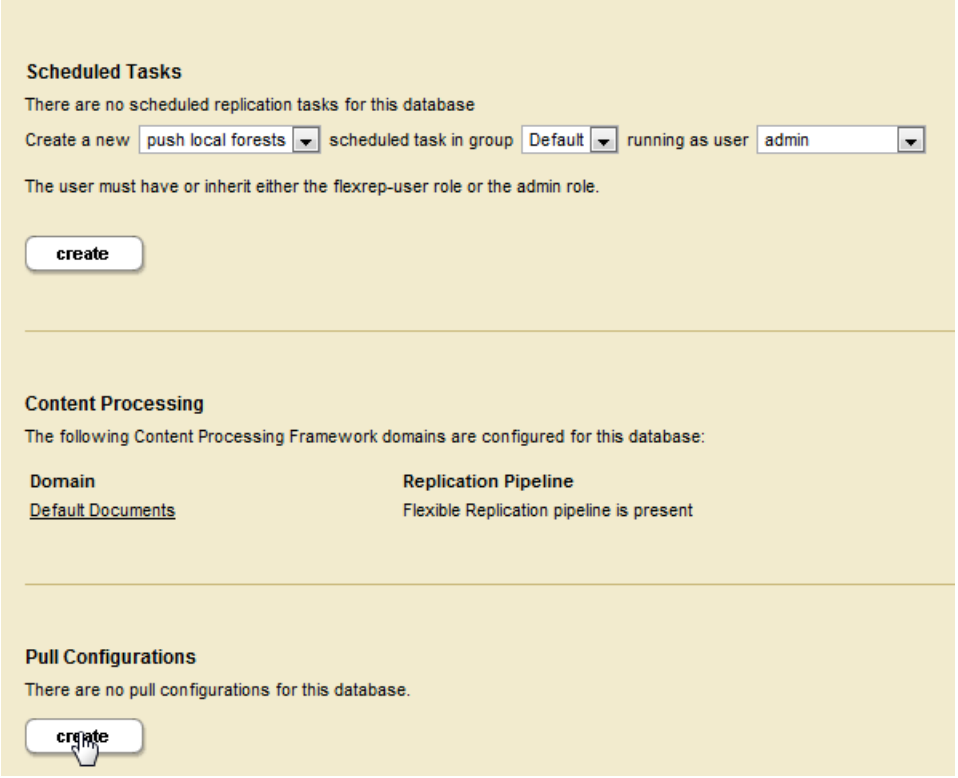



2. Under Databases, click the Replica database.

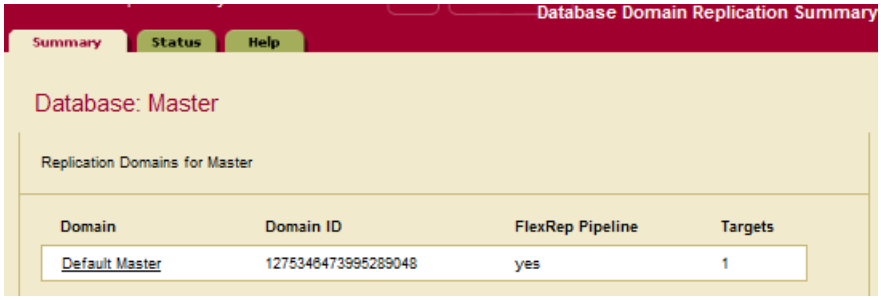
3. Click Flexible Replication under the Replica database.

4. Create a Pull Replication Task, as described in “Creating a Pull Replication Task” on page 35.

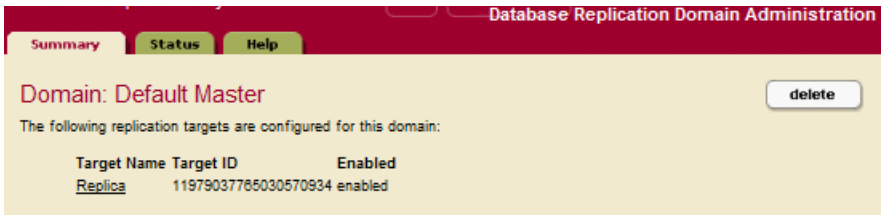
5. Under Pull Configuration, click Create:



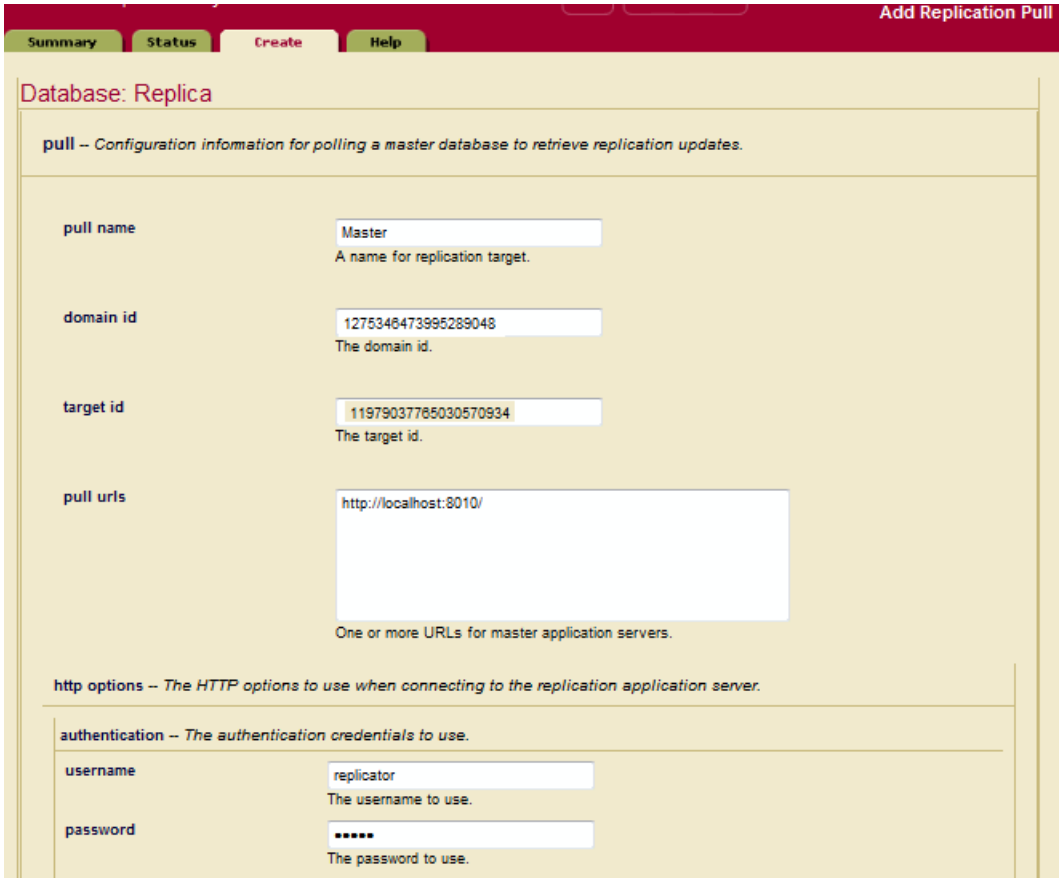

6. On a Master host, obtain the Master domain id from the Database Domain Replication Summary page:



7. On a Master host, obtain the Replica target id from the Database Domain Replication Administration page. If a Replica target does not exist, create one, as described in “Configuring Push Replication” on page 26, Step 5.




8. In the Replication Pull Administration page on the Replica host, enter a pull name, the domain id of the Master, the target id of the Replica, and one or more pull URLs for the Master App Servers. Fill in the username and password fields required to access the Master App Servers.




9. You can optionally specify a client certificate, if one is required by the Master App Server. For details on how to configure the Replica to provide a client certificate, see “Replication Security” on page 20.

## 3.7 Backing Up, Restoring, and Clearing the Master and Replica Databases

The configuration for flexible replication is stored in the Master and Replica databases. Clearing a Master database has the effect of deleting the target configurations, as well as all document-level information about target replication status. When you backup a Master database, you are also saving the replication configuration information. Should you restore that database to another cluster, the flexible replication configuration will also be present for the database in that cluster. Should you restore a database that is not configured for replication to one that was previously configured for replication, the replication configuration will be lost.

Before clearing or restoring a Master database, you can save the replication configuration by calling the `flexrep:configuration-get` function. Once the Master is cleared or restored, the replication configuration can be restored using the `flexrep:configuration-insert` function. Alternatively you can recreate the replication configuration programmatically, as described in Scripting Flexible Replication Configuration in the *Scripting Administrative Tasks Guide*.

Clearing a Replica database impacts the Master in that it no longer understands the status of the target. The same issues related to backing up and restoring the Master database described above also apply to backing up and restoring the Replica database. If the target status is lost on the Replica, new updates will replicate to the target, but the Master will not know that the older, unchanged documents are missing. Before clearing or restoring a Replica database, disable replication. After clearing or restoring the Replica database, delete the existing target on the Master, create a new target with the same configuration as the old one, and re-enable replication. The scheduled task will gradually populate the new target's database with all the documents in the domain.

If you have pull replication configured on the Replica, then you can save the configuration by calling the `flexrep:pull-get` function before clearing the database. After clearing or restoring the Replica database, you can restore the pull replication configuration by calling the `flexrep:pull-insert` function.

# 4.0 Filtering Replicated Documents

Documents may be optionally filtered as part of the replication process by configuring a filter module for the target in the master's configuration. You can create a filter module, place it in the modules database for the replicated domain, and specify it at the bottom of the Database Replication Target page.

When a document is replicated, the document node, along with either an update or delete node, are sent by the Master to the Replicas. You can create filters to modify the contents of the document, update or delete node before it is sent to the Replicas.

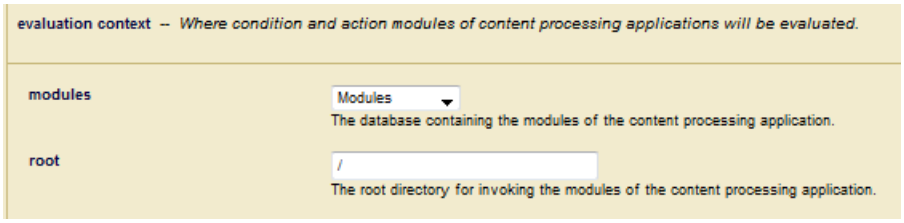
This chapter includes the following sections:


- Configuring MarkLogic Server to use a Replication Filter Module
- Creating a Filter Module
- Example Filters
- Setting Filter Options

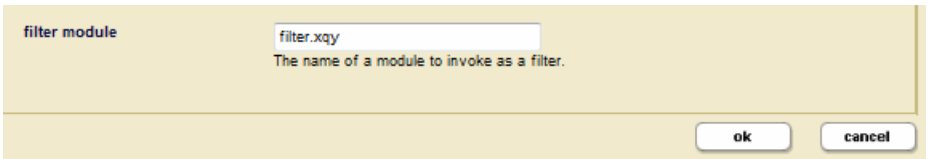

## 4.1 Configuring MarkLogic Server to use a Replication Filter Module

To configure MarkLogic Server to use a replication filter module, do the following:

1. Navigate to the Domain Definition page for the replicated domain, as described in “Defining Replicated Domains” on page 22. At the bottom of the page, specify the location of your replication filters. The default location for filters is the root directory in the modules database for the replicated domain:




2. Navigate to the Replication Target page, as described in “Configuring Push Replication” on page 26. At the bottom of the page, specify the name of the replication filter module to be used:



## 4.2 Creating a Filter Module

You can create replication filters to modify the document node, update node, or delete node before it is replicated to the target. If no document node follows the update node in the sequence, the document's root node will be removed on the Replica. If the filter returns an empty sequence, the framework will not replicate the document to the target.

A filter returns both an update and a document node in the case of a document update, or an update node only, in the case of a document delete. If a filter returns multiple update nodes, they will all be applied to the target. This could be used to break a replicated document apart into multiple documents on the target.

A replication filter receives the following external variables as parameters:

```
declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;
```

The `$flexrep:target` variable contains the replication target configuration and the `$flexrep:doc` variable identifies the replicated document node. The `$flexrep:update` variable will be either a `flexrep:update` or a `flexrep:delete` node. Following is an example of each to illustrate the contained information (in the flexrep namespace).

A `flexrep:update` node looks like:

```
<flexrep:update
  xmlns:flexrep="http://marklogic.com/xdmp/flexible-replication">
    <doc:uri xmlns:doc="xdmp:document-load">
       /content/myDoc.xml
    </doc:uri>
    <flexrep:last-updated>
2010-09-29T14:08:28.391-07:00
    </flexrep:last-updated>
    <doc:format xmlns:doc="xdmp:document-load">xml</doc:format>
    <flexrep:permissions>
      <flexrep:permission>
        <sec:role-name xmlns:sec="http://marklogic.com/xdmp/security">
            admin
        </sec:role-name>
        <sec:capability
          xmlns:sec="http://marklogic.com/xdmp/security">
            read
        </sec:capability>
      </flexrep:permission>
      <flexrep:permission>
        <sec:role-name xmlns:sec="http://marklogic.com/xdmp/security">
            admin
        </sec:role-name>
        <sec:capability
          xmlns:sec="http://marklogic.com/xdmp/security">
```

```
                update
            </sec:capability>
          </flexrep:permission>
        </flexrep:permissions>
        <doc:collections xmlns:doc="xdmp:document-load"/>
        <doc:quality xmlns:doc="xdmp:document-load">0</doc:quality>
        <flexrep:forests/>
        <prop:properties xmlns:prop="http://marklogic.com/xdmp/property"/>
    </flexrep:update>
```

A `flexrep:delete` node looks like:

```
    <flexrep:delete xmlns:flexrep=
      "http://marklogic.com/xdmp/flexible-replication">
        <doc:uri xmlns:doc="xdmp:document-load">
           /content/myDoc.xml
        </doc:uri>
        <flexrep:last-updated>
           2010-03-04T14:35:12.714-08:00
        </flexrep:last-updated>
    </flexrep:delete>
```

## 4.3 Example Filters

This section shows the following filter examples:

- Adding a Collection
- Changing the Document Quality
- Adding Document Permissions
- Adding a Forest Name
- Changing the Document URI
- Changing a Document Element
- Prohibiting Replication on Select Documents

The first example, Adding a Collection, demonstrates how to use either an XQuery function or an XSL stylesheet to produce the same results. The remaining examples make use of XQuery functions, only.

> **Note:** Filter modules must be in the modules database for the replicated domain. You can either use `xdmp:document-insert` to insert the module into the modules database or specify '(file system)' for the modules database and place the module in the `/MarkLogic/Modules` directory.

### 4.3.1 Adding a Collection

This section shows two filters that add a collection to replicated documents. The first example is a filter that makes use of an XQuery function. The second is a filter that makes use of an XSL stylesheet. Both filters produce the same results.

The following filter defines an XQuery function that iterates through the elements of the update node, locates the `doc:collections` element, and inserts a `sec:uri` element with the value of `http://marklogic.com/flexrep/collection-two`:

```
xquery version "1.0-ml";

declare namespace flexrep =
  "http://marklogic.com/xdmp/flexible-replication";

declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

declare function local:add-my-collection(
  $update as element(flexrep:update))
  {
    element flexrep:update {
      $update/@*,
      for $n in $update/node()
      return
        typeswitch($n)
        case element(doc:collections)
          return element doc:collections {
            $n//sec:uri,
            element sec:uri
               { "http://marklogic.com/flexrep/collection-two" }
          }
        default return $n
    }
  };

(
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return (local:add-my-collection($flexrep:update), $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

The following filter defines an XSLT stylesheet that creates a copy of the update node, locates the `doc:collections` element, and inserts a `sec:uri` element with the value of `http://marklogic.com/flexrep/collection-two`:

```
xquery version "1.0-ml";

declare namespace flexrep =
"http://marklogic.com/xdmp/flexible-replication";
declare namespace doc = "xdmp:document-load";
declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

let $stylesheet :=
 <xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
       xmlns:doc = "xdmp:document-load"
       xmlns:sec="http://marklogic.com/xdmp/security"
       version="2.0">
   <!-- Default recursive copy transform -->
   <xsl:template match="@*|node()">
     <xsl:copy>
       <xsl:apply-templates select="@*|node()"/>
     </xsl:copy>
   </xsl:template>

   <!-- Add my collection to the existing collections  -->
   <xsl:template match="doc:collections">
     <xsl:copy>
       <xsl:apply-templates select="node()"/>
       <sec:uri>http://marklogic.com/flexrep/collection-two</sec:uri>
     </xsl:copy>
   </xsl:template>
 </xsl:stylesheet>

return (
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return (
       xdmp:xslt-eval($stylesheet, $flexrep:update)/flexrep:update,
       $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

Either of the above filters will convert the update node to:

```
<flexrep:update xmlns:flexrep=
  "http://marklogic.com/xdmp/flexible-replication">
    ........
    <doc:collections xmlns:doc="xdmp:document-load">
       <sec:uri xmlns:sec="http://marklogic.com/xdmp/security">
          http://marklogic.com/flexrep/collection-two
       </sec:uri>
    </doc:collections>
    ........
    <prop:properties xmlns:prop="http://marklogic.com/xdmp/property"/>
</flexrep:update>
```

### 4.3.2 Changing the Document Quality

The following filter changes the quality of documents to 3. This is done by iterating through the elements of the update node, locating the `doc:document-quality` element, and resetting its value to 3.

```
xquery version "1.0-ml";

declare namespace flexrep =
  "http://marklogic.com/xdmp/flexible-replication";

declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

declare function local:change-quality($update as
element(flexrep:update))
{
  element flexrep:update {
    $update/@*,
    for $n in $update/node()
    return
      typeswitch($n)
      case element(doc:quality)
        return element doc:quality   { 3 }
      default return $n
  }
};

(
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return (local:change-quality($flexrep:update), $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

This will convert the update node to:

```
<flexrep:update xmlns:flexrep=
  "http://marklogic.com/xdmp/flexible-replication">
    ........
    <doc:quality xmlns:doc="xdmp:document-load">3</doc:quality>
    ........
</flexrep:update>
```

### 4.3.3 Adding Document Permissions

The following filter adds read and update permission for users with the "developer" role to documents. This is done by iterating through the elements of the update node, locating the `doc:permissions` element, and inserting `sec:permission` elements containing `sec:capability` and `sec:role-id` elements that establish read and update permissions for "developer" users.

```
xquery version "1.0-ml";

declare namespace flexrep =
  "http://marklogic.com/xdmp/flexible-replication";

declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

declare function local:change-permission(
  $update as element(flexrep:update))
{
  element flexrep:update {
    $update/@*,
    for $n in $update/node()
    return
      typeswitch($n)
      case element(flexrep:permissions)
        return element flexrep:permissions {
          $n/flexrep:permission ,
          element flexrep:permission  {
            element sec:role-name { "developer" },
            element sec:capability  { "read" }
          },
          element flexrep:permission  {
            element sec:role-name { "developer" },
            element sec:capability  { "update" }
          }
        }
      default return $n
  }
};

(
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return (local:change-permission($flexrep:update), $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

This will convert the update node to:

```
<flexrep:update xmlns:flexrep=
  "http://marklogic.com/xdmp/flexible-replication">
    ........
    <flexrep:permissions>
      <flexrep:permission>
        <sec:role-name xmlns:sec="http://marklogic.com/xdmp/security">
             admin
        </sec:role-name>
        <sec:capability
          xmlns:sec="http://marklogic.com/xdmp/security">
             read
        </sec:capability>
      </flexrep:permission>
      <flexrep:permission>
        <sec:role-name xmlns:sec="http://marklogic.com/xdmp/security">
             admin
        </sec:role-name>
        <sec:capability
          xmlns:sec="http://marklogic.com/xdmp/security">
             update
        </sec:capability>
      </flexrep:permission>
    </flexrep:permissions>
    <flexrep:permissions>
      <flexrep:permission>
        <sec:role-name xmlns:sec="http://marklogic.com/xdmp/security">
             developer
        </sec:role-name>
        <sec:capability
          xmlns:sec="http://marklogic.com/xdmp/security">
             read
        </sec:capability>
      </flexrep:permission>
      <flexrep:permission>
        <sec:role-name xmlns:sec="http://marklogic.com/xdmp/security">
             developer
        </sec:role-name>
        <sec:capability
          xmlns:sec="http://marklogic.com/xdmp/security">
             update
        </sec:capability>
      </flexrep:permission>
    </flexrep:permissions>
    ........
</flexrep:update>
```

### 4.3.4 Adding a Forest Name

The following filter adds the forest name, `myFavoriteForest`, to the update node. MarkLogic Server maps the forest name to its ID and passes it to the `xdmp:document-insert` function to insert the document into the named forest. If you specify multiple forests, MarkLogic Server will insert the document into one of them. See the documentation for the `xdmp:document-insert` function for more information.

```
xquery version "1.0-ml";

declare namespace flexrep =
  "http://marklogic.com/xdmp/flexible-replication";

declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

declare function local:add-forest(
  $update as element(flexrep:update))
  {
    element flexrep:update {
      $update/@*,
      for $n in $update/node()
      return
        typeswitch($n)
        case element(flexrep:forests)
          return element flexrep:forests {
            element flexrep:forest { "myFavoriteForest" }
          }
        default return $n
    }
  };

(
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return (local:add-forest($flexrep:update), $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

This will convert the update node to:

```
<flexrep:update xmlns:flexrep=
  "http://marklogic.com/xdmp/flexible-replication">
    ........
    <flexrep:forests>
        <flexrep:forest>myFavoriteForest</flexrep:forest>
    </flexrep:forests>
    ........
</flexrep:update>
```

### 4.3.5 Changing the Document URI

The following filter adds `/replicated/` to the front of each document URI. This is done by iterating through the elements of the update node, locating the `doc:uri` element and adding `/replicated/` to its value.

```
xquery version "1.0-ml";

declare namespace flexrep =
  "http://marklogic.com/xdmp/flexible-replication";

declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

declare function local:change-uri($update as element(flexrep:update))
{
  element flexrep:update {
    $update/@*,
    for $n in $update/node()
    return
      typeswitch($n)
      case element(doc:uri)
        return element doc:uri {
          fn:concat("/replicated", $flexrep:uri)
        }
      default return $n
  }
};

(
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
     return (local:change-uri($flexrep:update), $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

This will convert the update node to:

```
<flexrep:update xmlns:flexrep=
  "http://marklogic.com/xdmp/flexible-replication">
    <doc:uri xmlns:doc="xdmp:document-load">
       <doc:uri>/replicated//content/foo.xml</doc:uri>
    </doc:uri>
    ........
</flexrep:update>
```

### 4.3.6 Changing a Document Element

The following filter changes all <PARA> elements in replicated documents to <PARAGRAPH> and leaves all of the other elements in the documents unchanged. This is done by iterating through the elements of the document node, locating each PARA element and converting its value to PARAGRAPH.

```
xquery version "1.0-ml";

declare namespace flexrep =
   "http://marklogic.com/xdmp/flexible-replication";
declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()* external;

(: recursive typeswitch function to transform the element :)
declare function local:change-element($x as node()*) as node()*
{
for $n in $x return
  typeswitch ($n)
    case document-node() return
       document {local:change-element($n/node())}
    case text() return $n
    case element (PARA)
       return <PARAGRAPH>{local:change-element($n/node())}</PARAGRAPH>
    default return element {
       fn:node-name($n)} {$n/@*, local:change-element($n/node())}
};

  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return ($flexrep:update, local:change-element($flexrep:doc) )
  case element(flexrep:delete)
    return $flexrep:update
  default return fn:error((), "FILTER-UNEXPECTED", ())
```

### 4.3.7 Prohibiting Replication on Select Documents

Should you want to prohibit replication on certain documents in a replicated domain, you can add a property to the document that flags it as a no-replicate document. You can then write a filter that checks for the property and determines whether or not to replicate the document, depending on the presence or value of the property.

For example, if the `/content` directory is in a replicated domain, but you don't want to replicate the document, `/content/foo.xml`, you can assign the document a `replicate` property with a value of `no`.

```
xquery version "1.0-ml";

declare namespace prop = "http://marklogic.com/xdmp/property";

xdmp:document-add-properties(
    "/content/foo.xml",
    (<prop:replicate>no</prop:replicate>) )
```

You can write a filter that looks for the `replicate` property on each document. If the property is missing or it is some value other than `no`, then the document is replicated. If the property is set on the document and its value is `no`, then the document will not be replicated.

```
xquery version "1.0-ml";

declare namespace flexrep =
  "http://marklogic.com/xdmp/flexible-replication";

declare namespace doc = "xdmp:document-load";

declare variable $flexrep:uri as xs:string external;
declare variable $flexrep:target as element(flexrep:target) external;
declare variable $flexrep:update as element() external;
declare variable $flexrep:doc as document-node()? external;

(
  xdmp:log(fn:concat("Filtering ", $flexrep:uri)),
  typeswitch($flexrep:update)
  case element(flexrep:update)
    return
    if (xdmp:document-properties($flexrep:uri)//prop:replicate = "no")
    then ()
    else ($flexrep:update, $flexrep:doc)
  case element(flexrep:delete)
    return $flexrep:update
  default
    return fn:error((), "FILTER-UNEXPECTED", ())
)
```

## 4.4 Setting Filter Options

You can use the `flexrep:configuration-target-set-filter-options` function to change the evaluation parameters used to invoke your replication filter. For example, you can specify filter options that determine which user can invoke the filter or on what database the filter is to be invoked. The options specified by the `flexrep:configuration-target-set-filter-options` function are passed to the `xdmp:invoke` function of the filter module, so any of the options you would specify in the `xdmp:eval` function are recognized.

Filter options cannot be set in by the Admin Interface. You must set filter options programmatically using the flexrep API. The flexrep API is described in the Scripting Flexible Replication Configuration chapter in the *Scripting Administrative Tasks Guide* and the reference documentation for each function is in the *MarkLogic XQuery and XSLT Function Reference*.

For example, you can write a module that specifies that the filter can only be invoked by the user John:

```
xquery version "1.0-ml";

import module namespace flexrep =
   "http://marklogic.com/xdmp/flexible-replication"
      at "/MarkLogic/flexrep.xqy";

import module namespace trgr="http://marklogic.com/xdmp/triggers"
   at "/MarkLogic/triggers.xqy";

let $trigger := trgr:get-trigger("cpf:update Replicated Content")

(: Obtain the id of the replicated CPF domain from the
   Triggers database. :)

let $domain := xdmp:eval(
    'xquery version "1.0-ml";
    import module namespace dom = "http://marklogic.com/cpf/domains"
      at "/MarkLogic/cpf/domains.xqy";
    fn:data(dom:get( "Replicated Content" )//dom:domain-id)',
    (),
    <options xmlns="xdmp:eval">
      <database>{xdmp:database("MyTriggers")}</database>
    </options>)

(: Obtain the replication configuration. :)
let $cfg := flexrep:configuration-get($domain, fn:true())

(: Obtain the ID of the replication target. :)
let $target-id := flexrep:configuration-target-get-id($cfg, "Replica")
```

```
(: Define a flexrep:filter-options element. :)
let $filter-opts :=
  <flexrep:filter-options>
    <user-id xmlns="xdmp:eval">{xdmp:user("John")}</user-id>
  </flexrep:filter-options>

(: Set the flexrep:filter-options element. :)
let $cfg :=
  flexrep:configuration-target-set-filter-options(
    $cfg,
    $target-id,
    $filter-opts)

(: Save the new replication configuration. :)
return flexrep:configuration-insert($cfg)
```

# 5.0 Checking Replication Status

This chapter describes how to check replication status for a Master database, a domain, and a target. This chapter includes the following sections:


- Special Circumstances that Impact Replication
- Checking the Replication Status of a Master Database
- Checking the Replication Status of a Domain
- Checking the Replication Status of a Target

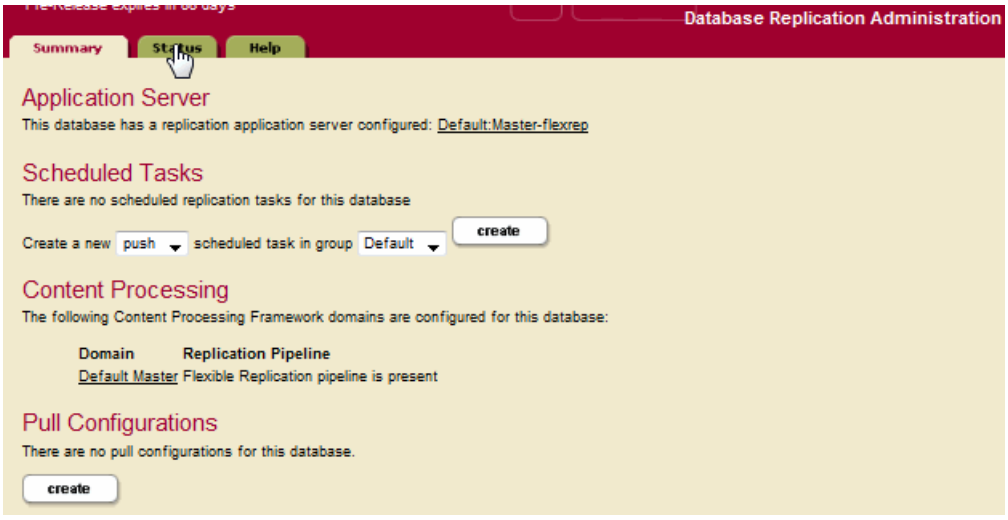

## 5.1 Special Circumstances that Impact Replication

If the task server queue is more than half full, the Master Server will not push documents to the Replica and will instead leave it for the scheduled push task. This is to help avoid overflowing the task queue when ingesting at a high rate.

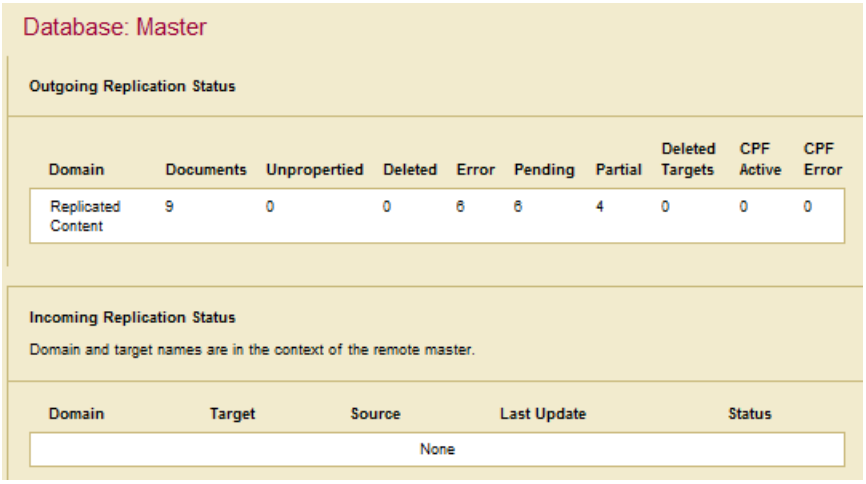
See Examining the Host and Task Server Status Pages For Tasks in the Queue in the *Content Processing Framework Guide* for information on checking the status of the task server.

## 5.2 Checking the Replication Status of a Master Database

You can check the replication status of a Master database by selecting the Flexible Replication icon under the Master database in the left tree menu and clicking on the Status tab on the Database Replication Administration page.



The Outgoing Replication Status indicates the replication status for each replicated domain from the perspective of the Master database.


Database: Master

Outgoing Replication Status

| Domain | Documents | Unpropertied | Deleted | Error | Pending | Partial | Deleted Targets | CPF Active | CPF Error |
|---|---|---|---|---|---|---|---|---|---|
| Replicated Content | 9 | 0 | 0 | 6 | 6 | 4 | 0 | 0 | 0 |

Incoming Replication Status

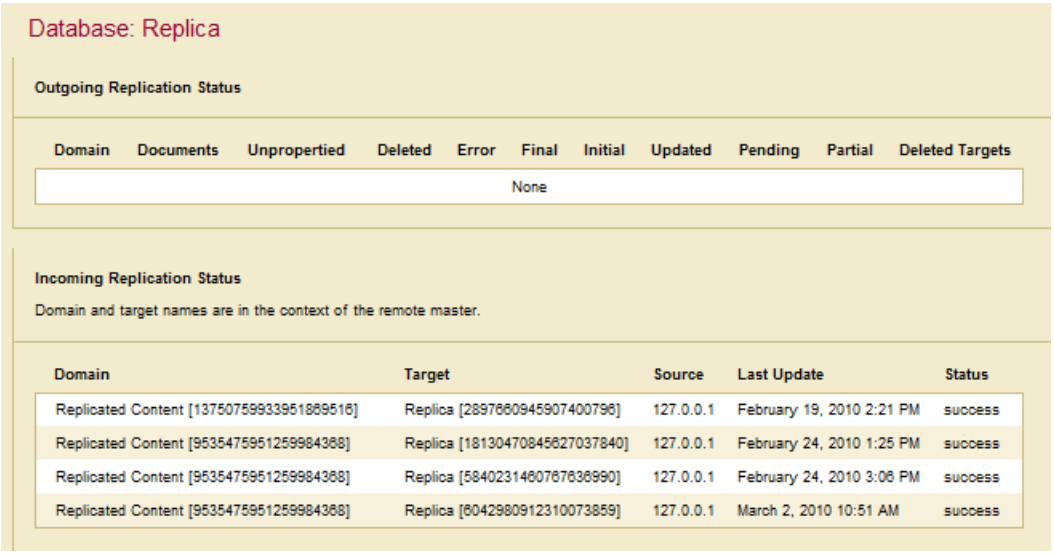
Domain and target names are in the context of the remote master.

| Domain | Target | Source | Last Update | Status |
|---|---|---|---|---|
| None | | | | |

| Field | Description |
|---|---|
| Domain | The name of the replicated domain. |
| Documents | The number of documents in the domain on the Master. |
| Unpropertied | The number of documents in the replicated domain without a replication status. This generally means that these documents existed before the replication domain was configured and have not yet been replicated. |
| Deleted | The number of replicated documents that were deleted, but the delete has not yet been replicated. |
| Error | The number of replication errors. |
| Pending | The number of documents in the replicated domain that have not yet been replicated to the Replicas. |
| Partial | The number of documents in the replicated domain that have been sent to one or more Replicas, but are pending or have errors for at least one Replica. |
| Deleted Targets | The number of targets that were deleted from the replication configuration for this domain. |

| Field | Description |
|---|---|
| CPF Active | The number of documents that are currently in the CPF pipeline. |
| CPF Error | The number of documents that encountered an error while in the CPF pipeline. |

The Incoming Replication Status indicates the replication status for each replicated domain from the perspective of the Replica database.

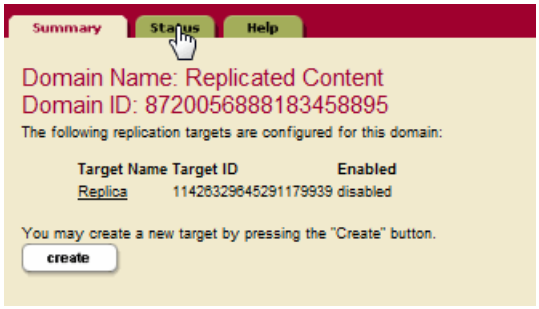



| Field | Description |
|---|---|
| Domain | The name of the replicated domain. |
| Target | The name and id of the replication target. |
| Source | The IP address of the Master host server. |
| Last Update | The date and time of the last replicated update. |
| Status | The status of the last replicated update |

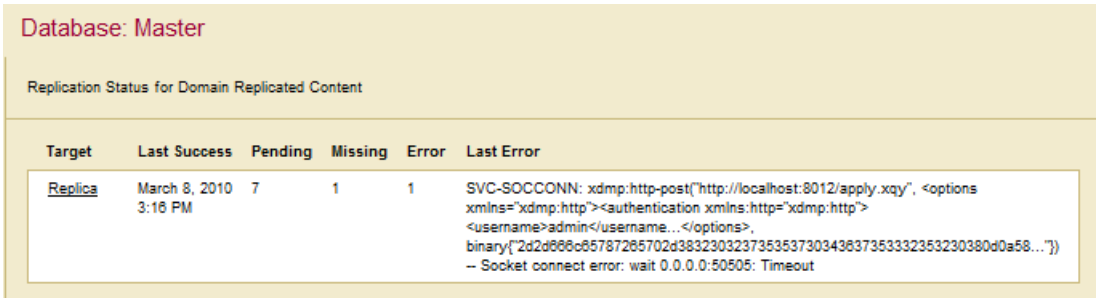
## 5.3 Checking the Replication Status of a Domain

You can check the replication status of a replicated domain by the following procedure:

1. Select the domain icon under Flexible Replication in the left tree menu and click on the Status tab on the Database Replication Domain Administration page:




2. The page containing the replication status of the domain appears:

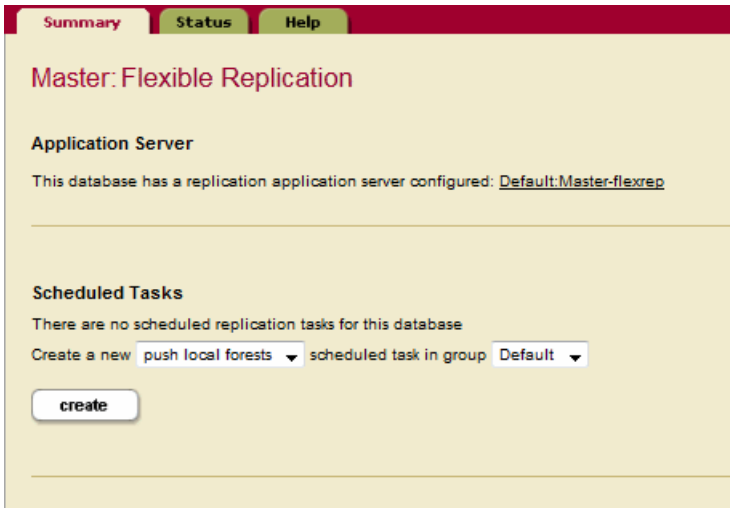



| Field | Description |
|---|---|
| Target | The name of the replication target. |
| Last Success | The date and time of the last successful update to the target. |
| Pending | The number of documents in the replicated domain that have not yet been replicated to the target. |
| Missing | The number of documents missing replication properties. For example, documents that were already in the replicated domain before replication was configured. |
| Error | The number of replication errors. |
| Last Error | The last replication error. |

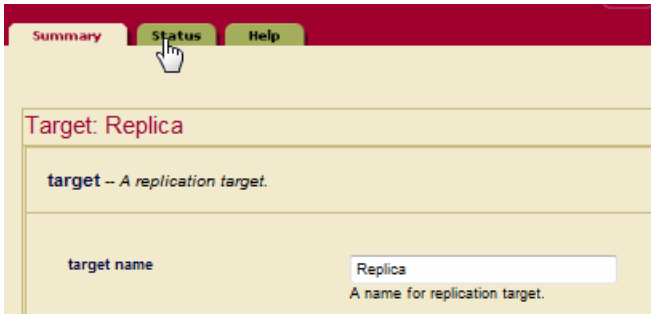
## 5.4 Checking the Replication Status of a Target

You can check the replication status of a replication target by the following procedure:

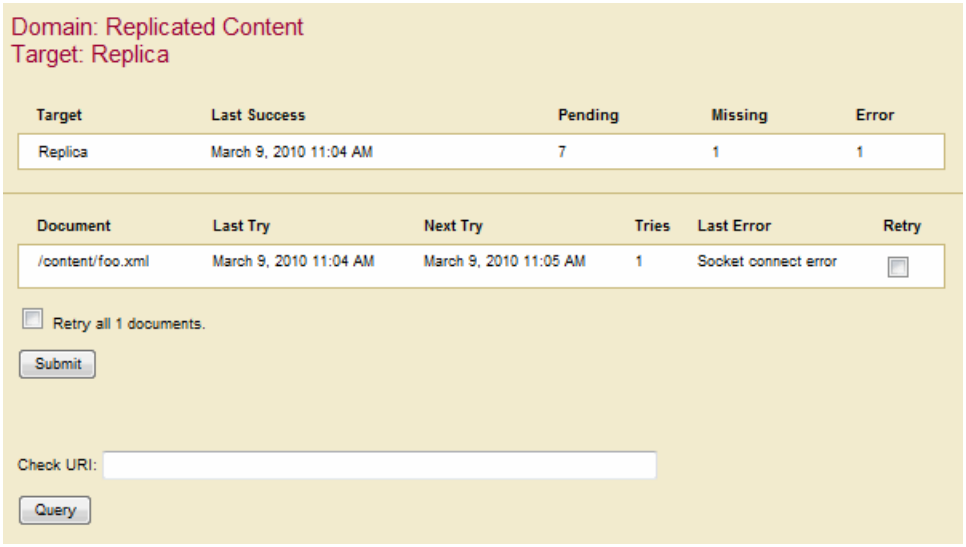
1. Select the domain icon under Flexible Replication in the left tree menu, selecting the target from the and clicking on the Status tab on the Database Replication Target Administration page.




2. Click the Status tab on the Database Replication Target Administration page:



3. The page containing the replication status of the target appears. The overall status of replicated documents to the target appears in the top field. The documents that failed to replicate are listed in the second field, along with last and next replication retry times. You can click Retry to retry replication on selected documents or Retry All Documents to retry replication on all of the documents in the list.




| Field | Description |
|---|---|
| Target | The name of the replication target. |
| Last Success | The date and time of the last successful update to the target. |
| Pending | The number of documents in the replicated domain that have not yet been replicated to the target. |
| Missing | The number of documents missing replication properties. For example, documents that were already in the replicated domain before replication was configured. |
| Error | The number of replication errors. |
| Document | The document that failed to replicate to the Replica. |
| Last Try | The last attempt to replicate the failed document. |
| Next Try | The next attempt to replicate the failed document. |
| Tries | The number of times MarkLogic Server attempted to replicate the failed document. |

| Field | Description |
|---|---|
| Last Error | The error generated on the last attempt to replicate the failed document. |
| Retry | Check box to retry replicating the failed document. |

You can query the status of a specific document by entering its URI in the Check URI field and clicking Query. The status of the document, whether it replicated successfully or returned an error is displayed and highlighted in the above field.



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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, be sure to include the sample XQuery code.

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MarkLogic Server 7.0-6 and supporting products.
Last updated: December 11, 2015.

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