



# Replicator

## Advanced Installation Guide

VERSION 7.4.0

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Technical support specialists can be reached by phone at +1-202-609-9100. The level of technical support provided depends upon the support package that you have purchased. Contact us to discuss your support requirements.

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# Advanced Installation Guide

## Metalogix Replicator Documentation

Metalogix Replicator documentation ships with the Metalogix Replicator distribution. It is also available at the Metalogix Product Resource Center, <http://www.metalogix.com/Support/Product-Resource-Center.aspx>.

The Metalogix Replicator documentation set consists of the following guides:

### **Whats New**

The Whats New document provides an overview of all the new and improved features available in Replicator within the editions.

### **Product and Concepts Guide**

The Product and Concepts Guide provides a high-level overview of Metalogix Replicator and describes new features introduced in this release.

### **Quick Start Guide**

The Quick Start Guide guides you through a basic installation and configuration of Replicator. After completing this guide you will have a working Replicator Network where changes made on one web application are automatically replicated to the other. You will be able to move onto the Evaluation Guide to perform various Metalogix Replicator scenario tests on your environment.

### **Installation Guide**

The Installation Guide guides you through installation, uninstall, and upgrading of Metalogix Replicator in various SharePoint farm configurations.

### **Evaluation Guide**

The Evaluation Guide guides you through various Metalogix Replicator scenarios, provided for the purpose of reviewing Replicator within your own SharePoint environment. Prospective Clients are encouraged to use this guide to test Replicator.

### **Reference Guide**

The Reference Guide describes the operations and user interface available to replication administrators through the SharePoint Central Administration and Site Administration pages.

### **Command-line Reference**

The Command-line Reference describes the PowerShell commands you can use to configure and maintain your Replication Network.

### **Scenario Guides**

Scenario Guides describe specific product features and how to implement and configure them for your SharePoint environment.

## Introduction

A SharePoint network consists of one or more farms. Each farm is a collection of one or more connected computers. Each farm runs at least one web application. By installing and configuring Metalogix Replicator for SharePoint, you create a Replication Network, which replicates SharePoint content between web applications in your SharePoint environment. You can use Replicator to replicate this content between farms or within the same farm. In order to replicate between farms, you must install Replicator on each farm. This guide will run through various installations, upgrade, and uninstall scenarios based on various farm configurations.

For a basic installation scenario, see the [Replicator Quick Start Guide](#), and for further configuration and evaluation of Replicator see the [Replicator Evaluation Guide](#).

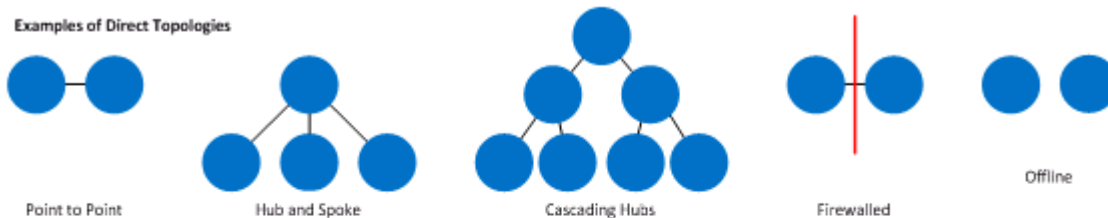
### Security Certification

All external communications by the Replicator software are Federal Information Processing Standard (FIPS) 140-2 compliant.

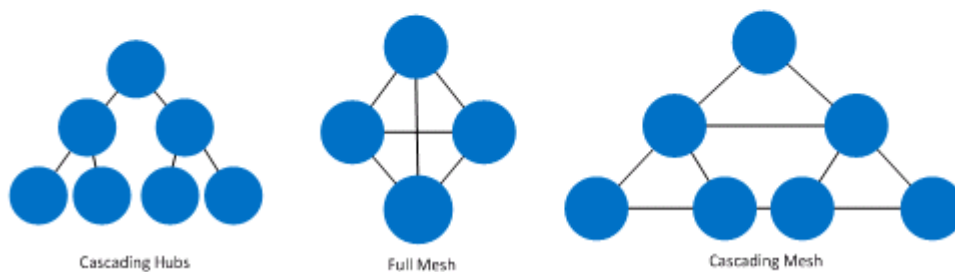
### Common Replication Network Topologies

In the case of each topology demonstrated below, Replicator would need to be installed on each farm for replication to take place.

Examples of Direct Topologies



Examples of Adaptive Topologies



## Planning your Deployment

This section provides an overview on how to plan the deployment of Replicator.

## Installing Replicator into your SharePoint Farm

Metalogix Replicator can be installed on any server in your SharePoint farm that is running the SharePoint web application service.

You can install Replicator on more than one server in your farm, but only Enterprise Edition licenses support running multiple Replicator installations at the same time in the same farm.

For every scenario of installation, and on every server/farm where you will be installing Replicator, you will have to download and run the installer. Downloading and running the installer are both detailed in this document in section Downloading and Preparing the Replicator Installer and section Installing Metalogix Replicator, respectively.

There are multiple benefits to running Replicator on more than one server. For a detailed list of these benefits, see the [Replicator Product and Concepts Guide](#).

## Silent Install

Replicator installations can be run directly from a command prompt without prompting for additional information. For more information on the installation and configuration commands, see the [Replicator Command Line Reference Guide](#).

## Estimated time to Install and Configure Replicator

By following the install process, we expect that most users will be able to install and configure Replicator in approximately four hours. The actual time required will vary based on the amount of preparation tasks you perform before running the Metalogix Replicator installer, the number of servers you have in a farm, and the number of farms you have in total.

## Requirements

The following tables describe the hardware, software, and access requirements for Metalogix Replicator. If our requirement is equivalent or less restrictive than a SharePoint requirement, then we do not document it here.

### Hardware Requirements

Component	Requirement
Processor	Under normal circumstances, the Replicator processor requirements are the same as SharePoint. When replicating large amounts of SharePoint content, Replicator uses a greater amount of CPU capacity. The expected load is comparable to up to 10 full time users accessing the web front end.
Memory	Replicator Basic and Standard editions require at least 1.25 GB of available memory.

Component	Requirement
	<p>Replicator Enterprise Edition requires at least 1.5 GB of available memory.</p> <p>Additionally, ensure there is approximately 10 times the size of the largest file you expect to replicate in available memory.</p> <p>For example, if you are using Replicator Standard Edition and expect to replicate files that are 25 MB and smaller, then you should have 1.5 GB (1.25 + 10 x 0.025) of available memory for Replicator.</p>
Disk Space	<p>At least 500 MB of free disk space in the %TEMP% folder of the server where Replicator is installed.</p> <p>At least 20 GB of free disk space in a shared network folder. This is for your Replicator Data Folders. This number is a rough guideline and is affected by how frequently changes occur in your SharePoint environment, how often packages are cleared, and several other Replicator configuration settings.</p> <p>At least 4 GB of free disk space in SQL Server is required where the SharePoint configuration database is stored.</p>

## Software Requirements

Component	Requirement
Operating System	<p>Any of:</p> <ul style="list-style-type: none"> <li>• Windows Server 2016</li> <li>• Windows Server 2012 R2</li> <li>• Windows Server 2012</li> <li>• Windows Server 2008 R2</li> <li>• Windows Server 2008</li> <li>• Windows Server 2003 SP1</li> </ul> <p>If you are using Replicator on Windows Server 2003, then you must also install the following from <a href="http://download.microsoft.com">http://download.microsoft.com</a>:</p> <ul style="list-style-type: none"> <li>• Background Intelligent Transfer Service (BITS) 2.5 or higher</li> <li>• .NET Framework 3.5 or higher</li> </ul>
SharePoint	<p>Any of:</p> <ul style="list-style-type: none"> <li>• Microsoft Office SharePoint Server 2016</li> <li>• Microsoft SharePoint Server 2013</li> <li>• Microsoft SharePoint Foundation 2013</li> <li>• Microsoft SharePoint Server 2010</li> <li>• Microsoft SharePoint Foundation 2010</li> <li>• Windows SharePoint Services 3.0</li> </ul>



Component	Requirement
	<ul style="list-style-type: none"> <li>• Microsoft Office SharePoint Server 2007</li> </ul> <p>Replicator does not support SharePoint standalone installations. The SharePoint standalone installation option includes a built-in database and restricts your SharePoint environment.</p> <p>Replicator does not support the use of the built-in Network Service account as your SharePoint farm application pool account.</p>
Database	<p>Any of:</p> <ul style="list-style-type: none"> <li>• SQL Server 2016</li> <li>• SQL Server 2014</li> <li>• SQL Server 2012</li> <li>• SQL Server 2008 R2</li> <li>• SQL Server 2008</li> <li>• SQL Server 2005</li> </ul> <p>Replicator does not support any database installed automatically by the SharePoint installer. Refer to <a href="#">Migrate content databases from Windows Internal Database to an instance of SQL Server</a><sup>[12]</sup> for more information.</p>
Ports	Ports 7357 and 7358 must be available for Replicator interprocess communication on the server where you install Replicator. If these ports are not available, then contact Metalogix Support for further instructions.
Windows PowerShell	If you want to run Replicator administration commands in Windows PowerShell, then you must install PowerShell before installing Replicator.
Remote Differential Compression	<p>To use Differencing Compression with Replicator, you must install the Remote Differential compression feature on servers in each farm where Replicator is installed.</p> <p>In Windows Server 2012, 2012 R2, 2008 R2, and 2008, this can be done from Server Manager.</p> <p>On Windows Server 2003, you must download and install the feature from <a href="http://download.microsoft.com">http://download.microsoft.com</a>.</p>

## Access Requirements

Component	Requirement
Installing User	<p>The Replicator installer must be run under a user account that is:</p> <ul style="list-style-type: none"> <li>• A member of the Local Administrators group on each server in the farm that replicator functionality will be deployed to.</li> <li>• A member of the Central Administration Application Pool. This is usually the Farm Admin account.</li> </ul>

Component	Requirement
	<ul style="list-style-type: none"> <li>"Db_owner" of the SharePoint Config DB in SQL Server, as well as a "dbcreator", "securityadmin", and member of the "public" role.</li> </ul> <p>This applies to all servers in the farm running either the Windows SharePoint Services Web Application service, or the Microsoft SharePoint Foundation Web Application service.</p>
Application Pool Accounts	<p>If you have different application pool accounts for Central Administration and your web applications, then add the user to the SharePoint configuration database and grant them the "public" role. This is done because permissions are copied from the SharePoint configuration to the replicator databases.</p> <p>Although this change can be done manually after installing Replicator, it is much simpler to grant these permissions prior to installation.</p>
Server Access	HTTP or HTTPS access to all replication servers, without proxies requiring a separate login.
SharePoint Access	Access to the Windows SharePoint Services SQL servers, via NTLM or Kerberos.
Firewalls	If there is a firewall separating the farms, then you must configure the firewall to allow servers in one farm to access a web front end in the other farm.
Activation	<p>Replicator activates your license key during its installation by contacting a Metalogix server. Replicator will periodically refresh the activation as it runs.</p> <p>For customers without an Internet connection or who want to review the information that is being sent to Metalogix, offline activation is available. Installations using offline activation must be manually refreshed every 365 days. For more information, see the <i>ActivateOffline</i> command in the <i>Replicator Command Line Reference Guide</i>.</p>
Replicator Service	The user you run replication services under must be a Central Administration Application Pool user.

## Availability Requirements

Component	Requirement
IIS and SharePoint	Replicator deploys solutions to the Central Administration and Web Front-end servers and must restart IIS to do this. A brief service outage will occur on these servers during the deployment process.

## Information Required for a Successful Deployment

The installation and configuration tasks described in this guide require two web applications, their corresponding Central Administration pages, and administration user accounts. The following table lists the information you will need to successfully deploy Replicator.

### First Web Application

Item	Example	Value for your Environment
Web Application URL	http://corporateoffice	
Central Administration	http://corporateoffice:2000	
Administration Account	contoso\spsadmin	

### Second Web Application

Item	Example	Value for your Environment
Web Application URL	http://londonoffice	
Central Administration	http://londonoffice:2000	
Administration Account	contoso\spsadmin	

## Installing Metalogix Replicator

The first part of any type of Metalogix Replicator installation requires you to prepare your SharePoint Farm, ensuring that all of the above software requirements have been met.

### Prepare your SharePoint Farm

In this section we will be preparing your servers and SharePoint environment for Metalogix Replicator. We do this by first performing prerequisite tasks.

### Backing Up the SharePoint Environment

Before installing Metalogix Replicator, we strongly recommend making a complete backup of your SharePoint environment. This backup should include any content and configuration databases, web server extensions, custom library files, and IIS settings.

For more information on these steps, see the Microsoft SharePoint documentation.

## Ensuring SharePoint Servers have Identical Customizations

Ensure that the identical versions of any SharePoint customizations are deployed to both SharePoint farms. Customizations can include custom web parts, solutions, event receivers, web services, site definitions, and list definitions.

For more information on these steps, see the Microsoft SharePoint documentation or the documentation for the customizations.

## Migrate content databases from Windows Internal Database to an instance of SQL Server

If you have installed SharePoint with an internal database, you must reinstall SharePoint to have an external database. Please see <http://technet.microsoft.com/en-us/library/cc287738.aspx> for installation information.

## Network Share

Replicator requires a network share to be set up, especially if Replicator will be installed on multiple web front ends. All servers on the farm must have access to the share in order for Replication to work. You can either manually create a network share, or allow the configuration wizard help you create one.

## Downloading and Preparing the Replicator Installer

To download Replicator and prepare the setup files for installation:

1. Download Replicator from the Metalogix website:  
<https://www.metalogix.com/content/replicator>
2. Extract the Replicator installer from the file you downloaded. In most cases you can right-click on the file and select Extract All.

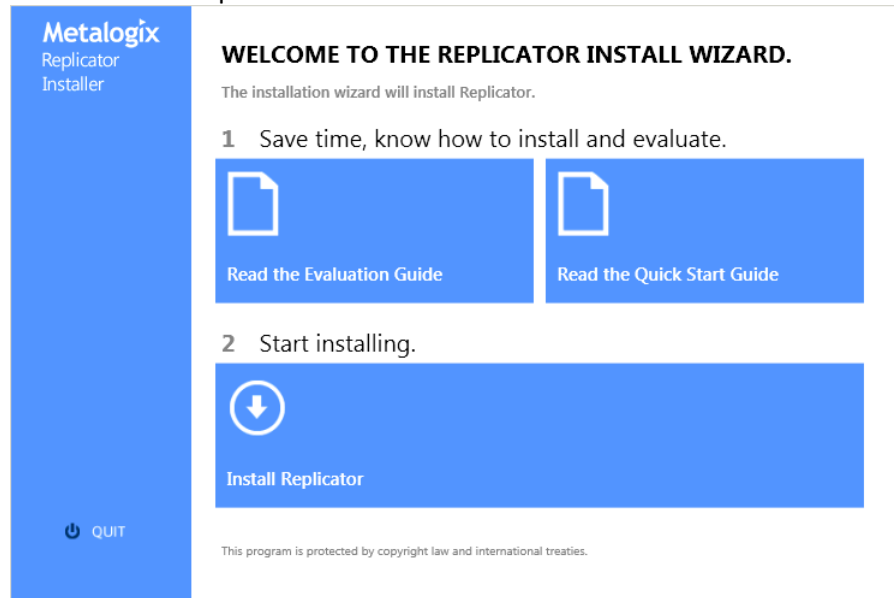
## Installing Metalogix Replicator

You must install on all servers within the farm that you want to have Replicator running on. The servers must also be running the SharePoint web app service.

To install Replicator to your SharePoint farm:

1. From the directory where you extracted the installer, run Metalogix Replicator for SharePoint to start the setup process. The exact file name depends on your operating system architecture.
2. The welcome page allows you to open the Evaluation Guide and/or the Quick Installation Guide for further information about Replicator. To proceed with installation click **Install Replicator**. This

will launch the Replicator Installer.



3. At the welcome screen, click **Next**.
4. At the License Agreement screen, review the agreement, select one of the choices, and click **Next**. If you do not accept the agreement, then you must click Cancel and exit the installer.
5. On the Installation Folder screen, select the default. Click **Next**.
6. On the Ready to Install the Program screen, click **Install** to start installing Replicator.
7. After the installer finishes, select **Launch the Replicator Configuration Wizard** and click **Finish**.

Replicator is now installed on the server. The following sections describe the various configuration wizard settings you can choose, based on the type of installation you are doing. Your installation will vary depending on where and why the installation of Replicator is being run. Please choose the section that pertains to your particular installation type.

## Configuring Replicator For the First Server in a Multi-Server Farm

In this installation scenario we will be configuring Replicator as an installation on the first server with SharePoint Service in a multi-server farm.

### Running the Replicator Configuration Wizard

The Replicator Configuration Wizard integrates Metalogix Replicator into your SharePoint farm. To complete the wizard:

If you launched the configuration wizard automatically after installing Replicator, then you can skip this step. To manually launch the configuration wizard, from the Windows Start menu, select **All Programs**, **Metalogix**, **Replicator**, and then **Replicator Configuration Wizard**.

1. On the Welcome screen, click **Next**.

- On the Central Administration Application Pool Credentials screen, enter the password for the current user.

The screenshot shows the 'Central Administration Application Pool Credentials' screen of the Metalogix Replicator Configuration Wizard. It features a title bar with the wizard's name and a back arrow. The main area has a heading 'Central Administration Application Pool Credentials' and two input fields: 'User Account' with the value 'JT-DOC\spadmin' and 'Password' with masked characters '\*\*\*\*\*'. At the bottom right, there are 'Next >' and 'Cancel' buttons.

- On the Prerequisite Checks screen, the configuration wizard tests your environment to ensure Replicator will run properly. Review the messages and click **Next** to continue.

The screenshot shows the 'Prerequisite Checks' screen of the Metalogix Replicator Configuration Wizard. It features a title bar with the wizard's name and a back arrow. The main area has a heading 'Prerequisite Checks' and a table with two columns: 'Check To Perform' and 'Message'. All checks are marked with a green checkmark and 'Pass'. A 'Retest' button is located below the table. At the bottom right, there are 'Next >' and 'Cancel' buttons.

Check To Perform	Message
SharePoint content database schemas match SharePoint version	Pass
Any existing Replicator solutions are correct	Pass
The SQL server has sufficient disk space	Pass
The SharePoint Administration service is running	Pass
The .NET Framework is v2.0 SP1 or higher	Pass
There is enough free disk space on this computer for the proces...	Pass
The BITS service is v2.5 or higher	Pass
The BITS service is enabled on this computer	Pass
The IIS physical path and the SharePoint physical path are cons...	Pass
This server has the SharePoint Web Application Service installed	Pass
The Replicator configuration database is supported by this version	Pass
Replicator can connect to SharePoint content database on jt-doc	Pass

4. On the Select Installation Type screen, select **Install or upgrade the first Replicator Engine in this farm** and click **Next**.

The screenshot shows the 'Metalogix Replicator Configuration Wizard' window. The title bar is blue with the Metalogix logo and the text 'Metalogix Replicator Configuration Wizard'. Below the title bar is a navigation bar with a back arrow. The main area is titled 'Select Installation Type' in blue. There are two radio button options: 'Install or upgrade the first Replicator Engine in this farm' (which is selected) and 'Install or upgrade an additional Replicator Engine in this farm'. At the bottom right, there are two buttons: 'Next >' and 'Cancel'.

5. On the License Key Information screen, enter your license key and select whether you want to activate the key automatically online, or activate manually offline. If you choose offline activation then go to step 6, if you choose online activation then click **Activate** and **Next** before continuing to step 10.

The screenshot shows the 'Metalogix Replicator Configuration Wizard' window. The title bar is blue with the Metalogix logo and the text 'Metalogix Replicator Configuration Wizard'. Below the title bar is a navigation bar with a back arrow. The main area is titled 'License Key Information' in blue. It says 'Please enter the license key purchased with this product:' followed by a text box containing 'xxxxx-xxxxx-xxxxx-xxxxx-xxxxx' and a green checkmark icon. Below the text box is the text 'Enterprise Edition. (Production)'. There are two radio button options: 'Activate Online' (which is selected) and 'Activate Offline'. Under 'Activate Offline', there are three numbered steps: 1. Click "Copy Activation Data to Clipboard" or "Save Activation Data to File" to collect the activation data. 2. Submit the collected data to <http://metalogix.com/OfflineActivation> to get an activation key file. 3. Click "Browse" to locate the file and click "Activate" to complete the activation process. There are two buttons: 'Copy Activation Data to Clipboard' and 'Save Activation Data to File'. Below the steps, there is a text box for 'Activation Key File:' and a 'Browse' button. At the bottom left, there is an 'Activate' button. At the bottom right, there are two buttons: 'Next >' and 'Cancel'.

6. In order to perform offline activation you must first select the **Activate Offline** option. Your first step is to copy the activation data to your clipboard or save the file.

7. Go to <http://metalogix.com/OfflineActivation> in order to get an activation key file. On this site you will have to either paste the Activation Data, or upload it by browsing your computer for the saved Activation Data file. Once you have pasted or uploaded the required Activation Data, click **Activate**.

## Offline Activation

This page serves for activating license keys in an offline mode. Use it in cases you do not have Internet connection available on the server where you have installed the Metalogix product.

The activation process consists of two simple steps. First, paste the Activation Request string you have generated in the Offline Activation Wizard in the product setup or management tool into the 'Activation text' box. If you do not have the Activation request string, but you have generated an Activation file, upload it. Click 'Activate'. Complete the form now to activate your license key.

### Enter activation data

Activation text

p2Ev+bx3XYOKpoyX5Ssz8y96I9ABE  
9XNCGlkgVhAx7NtyN7GJxY3Yoon  
UU9JaigKR4AtkQJQ6WWE+udLEF4  
yO+XtWh6+etA504D7ckkTrMzbAIP  
Avx1fnszH03c9PdVVaqeWX7v4NIO

OR

### Upload activation data

Activation file

Browse...

Activate

8. You will be notified if Activation was successful. At this point you will need to either copy the activation text and save it in a file or download it as a file in order to enter it into the



configuration wizard to complete activation of Replicator.

## Activation Successful.

Copy the Activation Response text into the clipboard or download it as a file. You will have to enter this text (or file) in the Offline Activation Wizard in the product setup or management tool in order to validate your license key.

Complete the form now to activate your license key.

Activation text

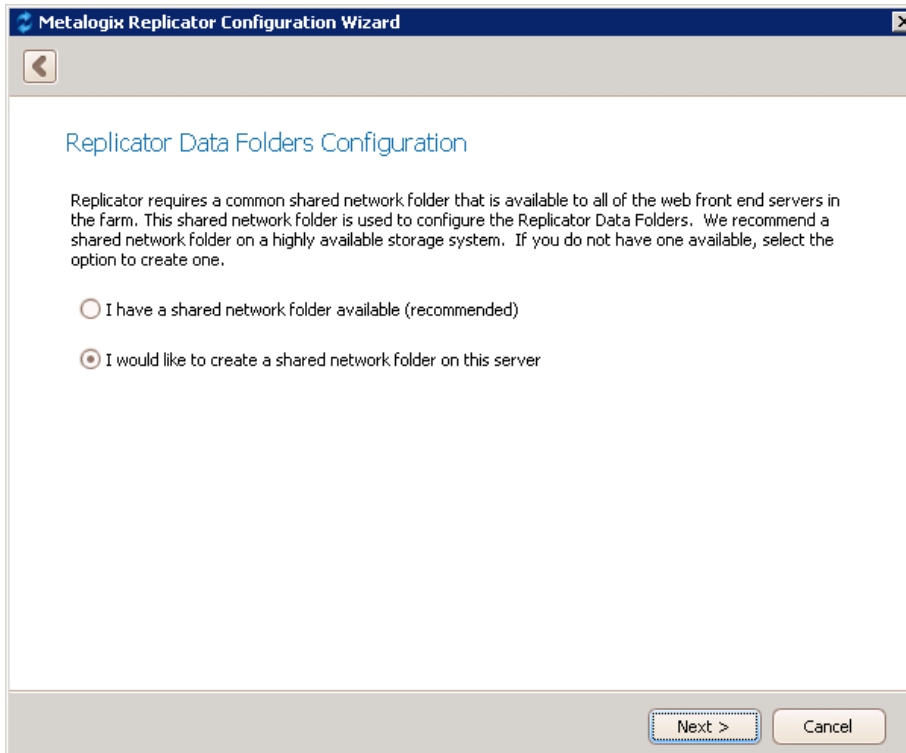
```
p2Ev+bx3XYOKpoyX5Ssz8y96I9ABE
9XNCGLkgVhAx7NtyN7GJxY3Yoon
UU9JaigKR4AtkQJQ6WxE+udLEF4
yO+XtWh6+etA504D7ckKTrMzbAIP
Avx1fnszH03c9PdVVaqeWX7v4NTO
```

[Download file](#) | [Copy text](#)

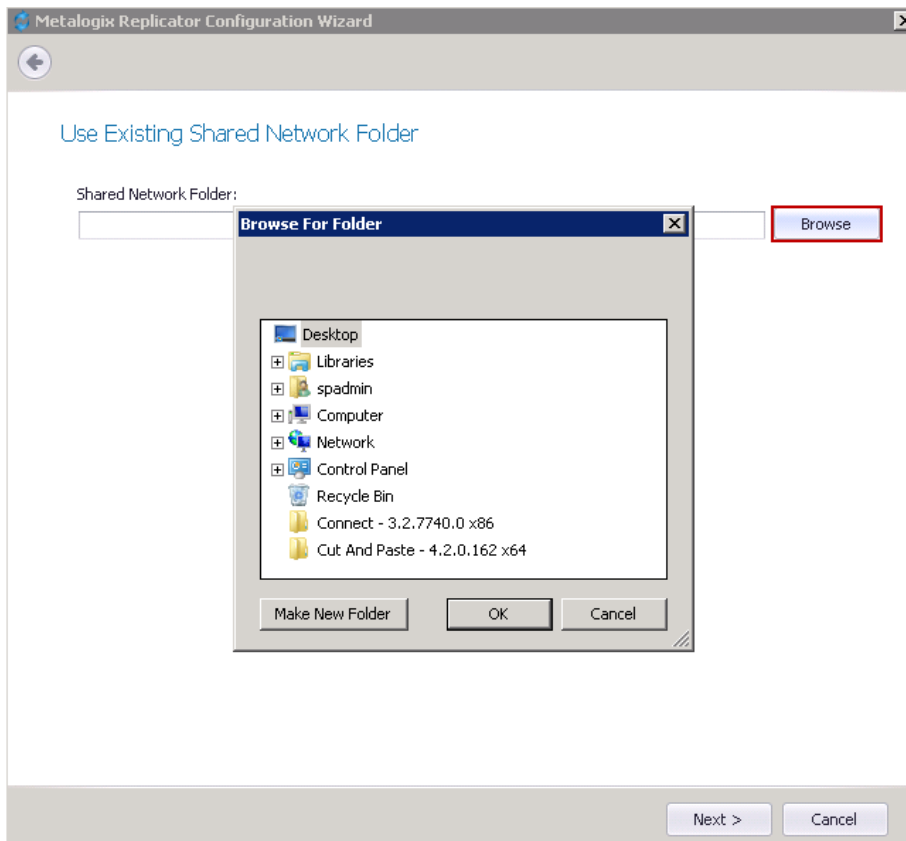
9. In the Configuration Wizard, hit **Browse** and find the file containing the activation text. Once you've selected the file with the Activation Key, select **Activate**.

The screenshot shows the 'Metalogix Replicator Configuration Wizard' window. The 'License Key Information' section is active. It contains a text box for the license key, which is currently empty and has a placeholder 'xxxxx-xxxxx-xxxxx-xxxxx-xxxxx'. Below this, there are two radio buttons: 'Activate Online' and 'Activate Offline'. The 'Activate Offline' option is selected. Under 'Activate Offline', there are three numbered steps: 1. Click 'Copy Activation Data to Clipboard' or 'Save Activation Data to File' to collect the activation data. 2. Submit the collected data to http://metalogix.com/OfflineActivation to get an activation key file. 3. Click 'Browse' to locate the file and click 'Activate' to complete the activation process. There are two buttons: 'Copy Activation Data to Clipboard' and 'Save Activation Data to File'. Below the steps, there is a text box for 'Activation Key File:' and a 'Browse' button. At the bottom of the wizard, there are 'Next >' and 'Cancel' buttons.

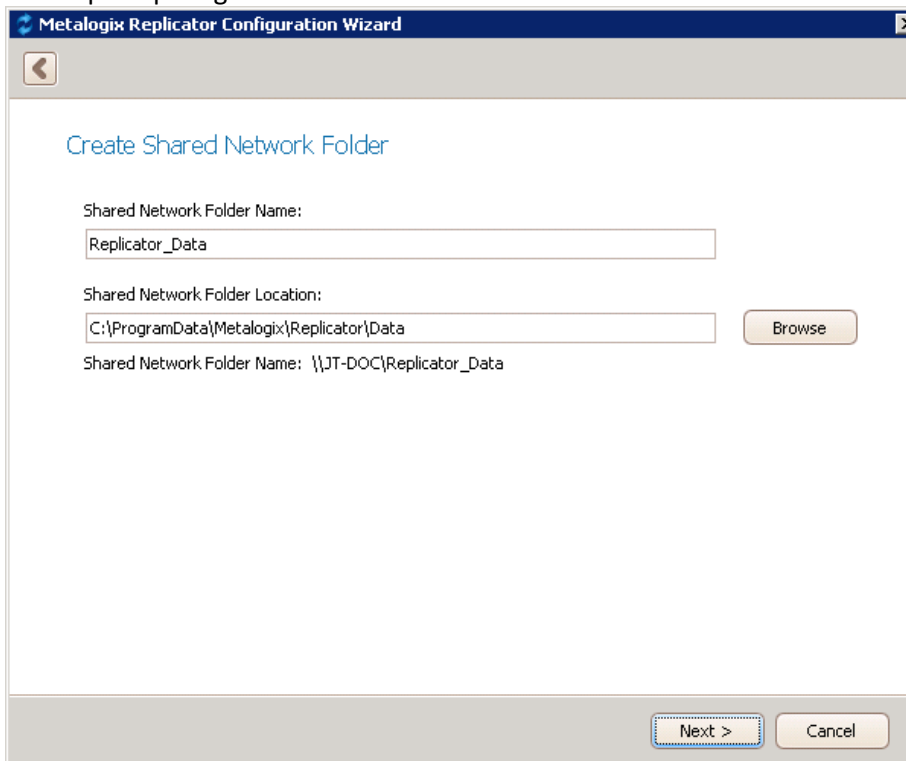
10. On the Replicator Data Folders Configuration screen, select whether you like to create a shared network folder on this server or whether you already have a shared network folder available. Click **Next**.



If you selected "I have a shared network folder available" then you will be prompted to browse and select this folder.



If you selected that you "would like to create a shared network folder on this server" then you will be prompted give the folder a name and choose its location.



The screenshot shows the 'Create Shared Network Folder' step of the Metalogix Replicator Configuration Wizard. It includes input fields for the folder name and location, a 'Browse' button, and 'Next >' and 'Cancel' buttons at the bottom.

Shared Network Folder Name:

Replicator\_Data

Shared Network Folder Location:

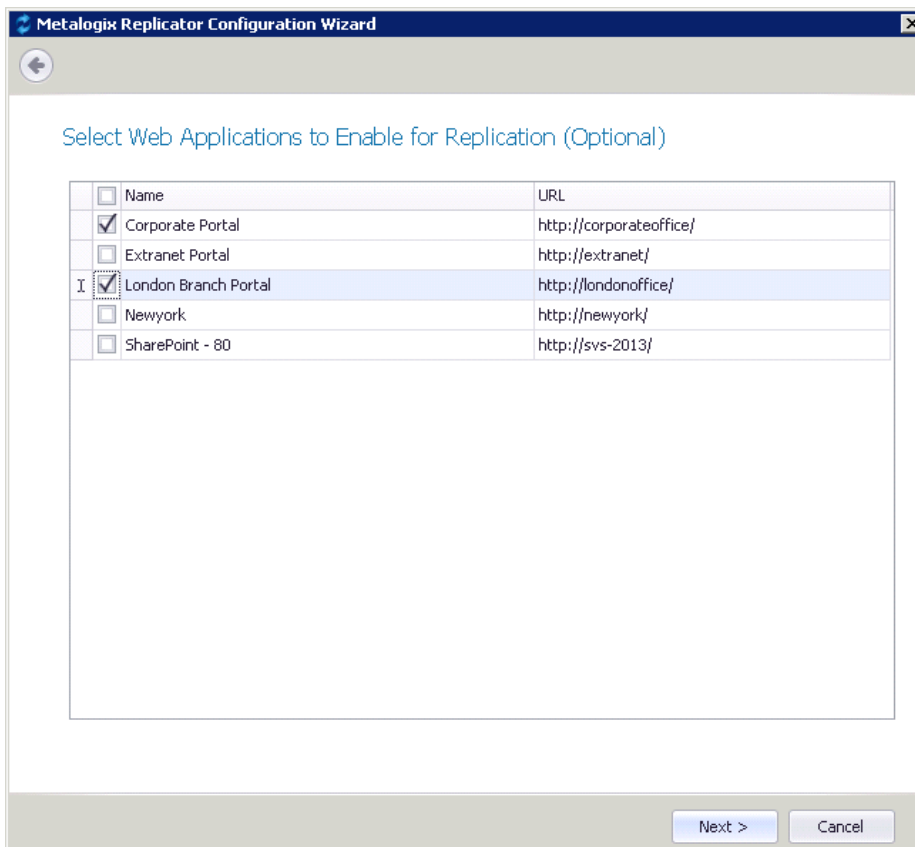
C:\ProgramData\Metalogix\Replicator\Data

Browse

Shared Network Folder Name: \\JT-DOC\Replicator\_Data

Next > Cancel

11. On the Select Web Application to Enable screen, you can select which applications, if any, you wish to enable for replication. Once you have selected the applications you wish to enable, click **Next**.



The screenshot shows the 'Select Web Applications to Enable for Replication (Optional)' step of the Metalogix Replicator Configuration Wizard. It features a table with checkboxes for selecting applications to enable for replication. The 'London Branch Portal' is selected.

<input type="checkbox"/>	Name	URL
<input checked="" type="checkbox"/>	Corporate Portal	http://corporateoffice/
<input type="checkbox"/>	Extranet Portal	http://extranet/
<input checked="" type="checkbox"/>	London Branch Portal	http://londonoffice/
<input type="checkbox"/>	Newyork	http://newyork/
<input type="checkbox"/>	SharePoint - 80	http://svs-2013/

Next > Cancel

## 12. On the Farm Options screen you can do the following:

**Farm Options**

Farm Friendly Name:

☒ Make this farm the Administrator for Replicator

Choose the administration Web Application for Replicator:

Name	URL
Corporate Portal	http://corporateoffice/
Extranet Portal	http://extranet/
London Branch Portal	http://londonoffice/
SharePoint - 80	http://svs-2013/

Alert Email Addresses (separate with ;) :

Next > Cancel

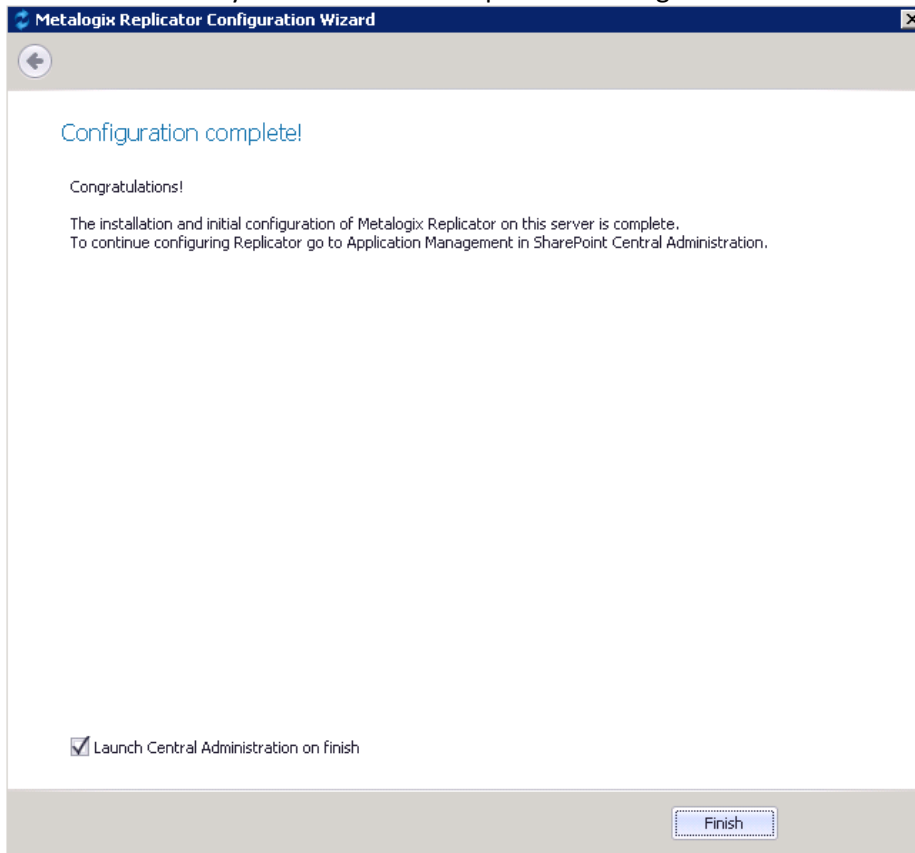
- Give your farm a farm friendly name
  - Select whether you would like to make this farm the administrator for Replicator.
  - Choose the administration Web Application.
  - Specify the email addresses that you would like Replicator email alerts to be sent to.
- Click **Next**.

13. On the Installation Options screen you can choose whether to deploy the Replicator solution, and whether to start the services. Click **Start**.

14. Once the Install and Deploy of solutions has completed, click **Next**.

15. Once the Configuration Confirmation is completed, click **Next**.

16. On the final screen you can select whether you would like the wizard to launch Central Administration for you on finish. To complete the configuration wizard click **Finish**.



## Configuring Replicator on Subsequent Servers in a Multi-Server Farm

The installation process for subsequent servers on a multi-server farm is fairly similar to the installation on the initial server. Begin by running through the Prepare your SharePoint Farm, Downloading and Preparing the Replicator Installer, and Installing Metalogix Replicator sections found above, for the subsequent server in question, before moving on to this next section.

## Running the Replicator Configuration Wizard

The Replicator Configuration Wizard integrates Metalogix Replicator into your SharePoint farm. To complete the wizard:

If you launched the configuration wizard automatically after installing Replicator, then you can skip this step. To manually launch the configuration wizard, from the Windows Start menu, select **All Programs**, **Metalogix**, **Replicator**, and then **Replicator Configuration Wizard**.

1. On the Welcome screen, click **Next**.

- On the Central Administration Application Pool Credentials screen, enter the password for the current user.

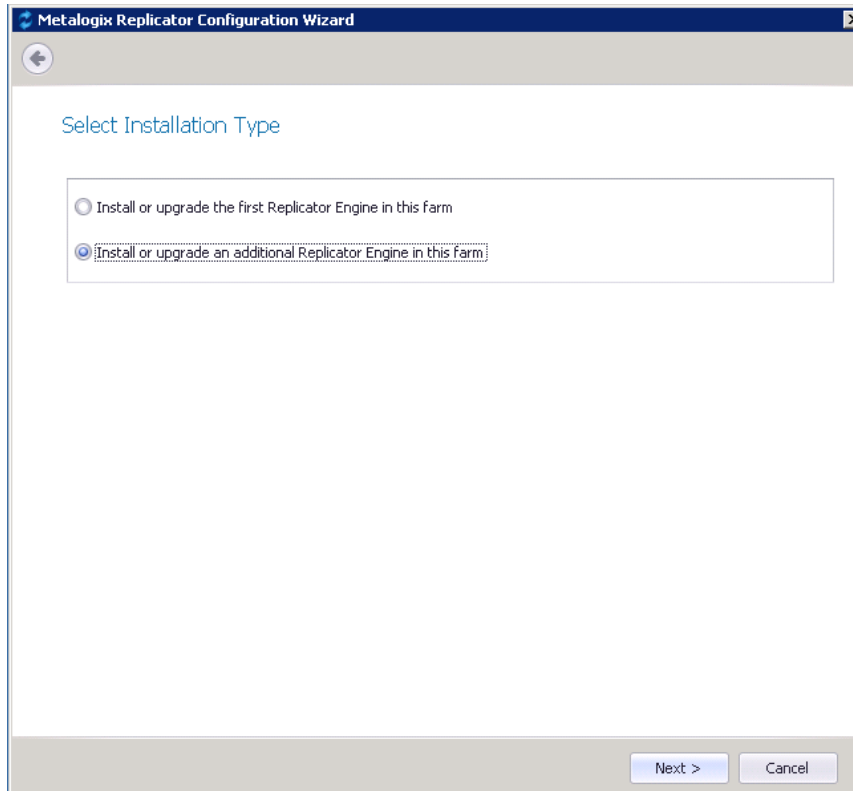
The screenshot shows the 'Central Administration Application Pool Credentials' screen of the Metalogix Replicator Configuration Wizard. The window title is 'Metalogix Replicator Configuration Wizard'. The screen has a back arrow icon in the top left. The title 'Central Administration Application Pool Credentials' is displayed in blue. Below the title, there are two input fields: 'User Account' with the text 'JT-DOC\spadmin' and 'Password' with masked characters '\*\*\*\*\*'. At the bottom right, there are two buttons: 'Next >' and 'Cancel'.

- On the Prerequisite Checks screen, the configuration wizard tests your environment to ensure Replicator will run properly. Review the messages and click **Next** to continue.

The screenshot shows the 'Prerequisite Checks' screen of the Metalogix Replicator Configuration Wizard. The window title is 'Metalogix Replicator Configuration Wizard'. The screen has a back arrow icon in the top left. The title 'Prerequisite Checks' is displayed in blue. Below the title, there is a table with two columns: 'Check To Perform' and 'Message'. All checks are marked with a green checkmark and the message 'Pass'. At the bottom right, there is a 'Retest' button. At the bottom of the window, there are two buttons: 'Next >' and 'Cancel'.

Check To Perform	Message
SharePoint content database schemas match SharePoint version	Pass
Any existing Replicator solutions are correct	Pass
The SQL server has sufficient disk space	Pass
The SharePoint Administration service is running	Pass
The .NET Framework is v2.0 SP1 or higher	Pass
There is enough free disk space on this computer for the proces...	Pass
The BITS service is v2.5 or higher	Pass
The BITS service is enabled on this computer	Pass
The IIS physical path and the SharePoint physical path are cons...	Pass
This server has the SharePoint Web Application Service installed	Pass
The Replicator configuration database is supported by this version	Pass
Replicator can connect to SharePoint content database on jt-doc	Pass

4. On the Select Installation Type screen, select **Install or upgrade an additional Replicator Engine in this Farm** and click **Next**.



5. On the Installation Options screen you can choose whether to deploy the Replicator solution. Click **Start**.
6. Once the install and deploy has completed, click **Next**.
7. Once the configuration confirmation has finished running, click **Next**.

8. On the Select Web Application to Enable screen, you can select which applications, if any, you wish to enable for replication. Click **Enable Replication**.

<input type="checkbox"/>	Name	URL	Enabled	Solutions	IIS
<input checked="" type="checkbox"/>	CorporateOffice	http://corporateoffice/	No		
<input type="checkbox"/>	Extranet	http://extranet/	No		
<input checked="" type="checkbox"/>	LondonOffice	http://londonoffice/	No		
<input type="checkbox"/>	SharePoint - 80	http://it-doc/	No		

☒ Launch Central Administration on finish

Enable Replication Refresh

Finish

9. Replicator is now installed and configured on the server.

## In-Place Upgrade of Replicator

An in-place upgrade of Replicator simply requires you to run the newer versions of the installation and configuration wizard over your current version. Newer versions of Replicator can be installed directly over any earlier, Replicator 5, or Replicator 6 release. To do this, run the Replicator installer and complete the Configuration Wizard as described in this guide in the Configuring Replicator For the First Server in a Multi-Server Farm section and Configuring Replicator on Subsequent Servers in a Multi-Server Farm section. Upgraded Replicator farms will still be able to replicate to and from farms that are not upgraded.

After upgrading a farm, you may need to perform the following additional tasks:

- Replicator 4.1 rules are not upgraded to newer versions of Replicator. You must recreate any rules that were previously configured. For more information on creating rules, see the *Replicator Reference Guide*.
- To use adaptive replication, you must upgrade all farms to the current version of Replicator and then refresh all Replication Connections. You can refresh these connections by opening, testing, and saving them in Central Administration or by running the PowerShell `Update-ReplicatorConnections` command. For more information on this command, see the *Replicator Command Line Reference Guide*.



## Upgrade with Uninstall and Reinstall

In order to run an upgrade by first uninstalling and then reinstalling, you must perform the uninstall as detailed in the Uninstalling Replicator From a Multi-Server Farm section. You must then reinstall as you would a typical install - detailed in the Installing Metalogix Replicator. You can then proceed by configuring Replicator as detailed in the Configuring Replicator For the First Server in a Multi-Server Farm or Configuring Replicator on Subsequent Servers in a Multi-Server Farm sections.

## Upgrading on a Multi-Server farm

When upgrading on a multi-server farm where Replicator is installed on more than one server, you simply need to run the upgrade as an in-place upgrade, as instructed in the In-Place Upgrade of Replicator section. You will need to do this for each farm that you wish to have upgraded. Upgraded Replicator farms will still be able to replicate to and from farms that are not upgraded. This allows you to continue replicating while upgrading your individual farms one at a time.

## Uninstalling Replicator From a Multi-Server Farm

In order to uninstall Replicator from a farm in a multi-server farm, you must uninstall while keeping the databases. You do this so that your other servers continue to have access to them, and continue functioning. Follow these steps to uninstall Replicator while keeping the databases:

1. Start the uninstall application using one of the following methods:
  - (Windows Server 2003) In Control Panel, open Add or Remove Programs.
  - (Windows Server 2008) In Control Panel, under Programs, open Programs and Features.
  - (Windows Server 2012) In Control Panel, under Programs, open Programs and Features.
2. On the Replication Configuration Wizard welcome screen, click **Next**.

- On the uninstall options screen select **Remove Replicator from this computer** and enter your user account password. This ensures that Replicator is only removed from this one server, and it does not allow you to remove the Replicator databases, which are needed for your other Replicator servers to function. Click **Next**.

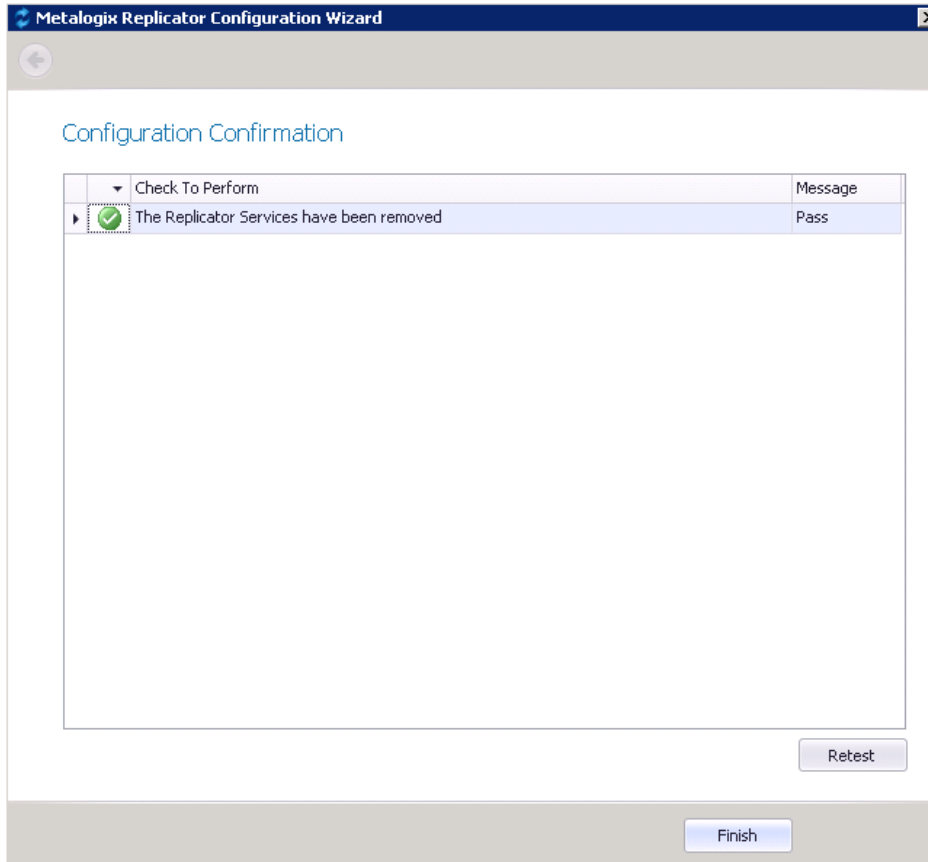
The screenshot shows the 'Uninstall Options' window of the Metalogix Replicator Configuration Wizard. The window has a title bar with the text 'Metalogix Replicator Configuration Wizard' and a close button. Below the title bar is a navigation bar with a back arrow. The main area is titled 'Uninstall Options' and contains the following fields and options:

- User Account:** A text box containing 'SYNTERGY\demo\_central'.
- Password:** A text box containing '\*\*\*\*\*'.
- Remove Replicator Databases:** A checkbox that is unchecked.
- Remove Connect Solution:** A checkbox that is unchecked.
- Remove Replicator from farm:** A radio button that is unselected.
- Remove Replicator from this computer:** A radio button that is selected and highlighted with a red rectangle.

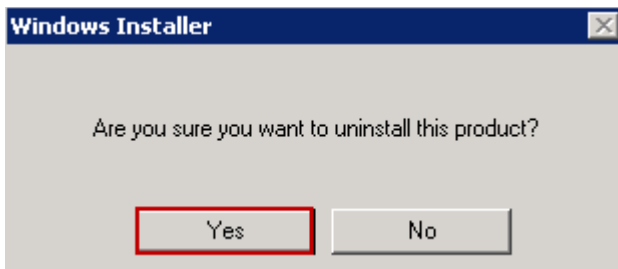
At the bottom right of the window are two buttons: 'Next >' and 'Cancel'.

- Once the Retract and Remove screen has completed, click **Next**.

5. Once Configuration Confirmation has completed, click **Finish**.



6. You will now be prompted about whether you are sure you would like to uninstall Replicator. Click **Yes**.



7. The uninstall will run and complete on its own. To ensure that the program has been uninstalled, you can check under your program list, accessed through control panel. Metalogix Replicator should no longer be listed there.

## Full Uninstall for Replicator

To remove Replicator completely from your single-server farm, or from the "last" sever in a multi-sever farm, do the following:

- Start the uninstall application using one of the following methods:
  - (Windows Server 2003) In Control Panel, open Add or Remove Programs.
  - (Windows Server 2008) In Control Panel, under Programs, open Programs and Features.
  - (Windows Server 2012) In Control Panel, under Programs, open Programs and Features.

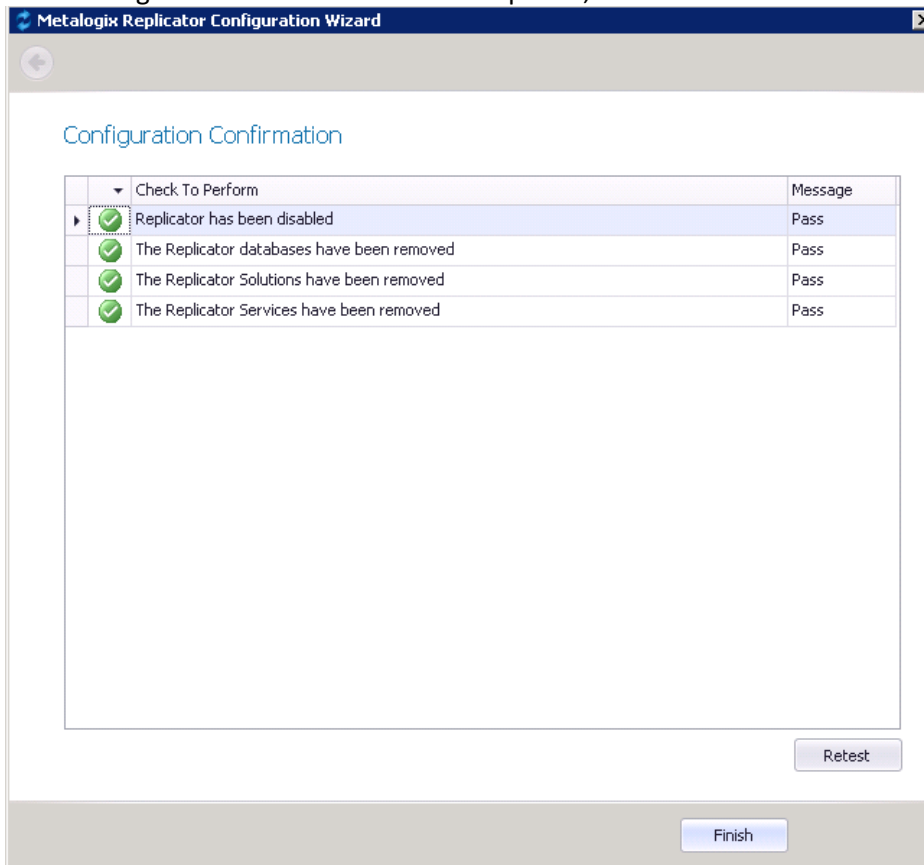
2. Select **Metalogix Replicator for SharePoint** and follow the on-screen instructions to uninstall a program. This launches the Metalogix Replicator Configuration Wizard.
3. In the Configuration Wizard, at the Welcome screen, click **Next**.
4. On the Uninstall Options screen select **Remove Replicator from farm**, and be sure that **Remove Replicator Databases** is selected, to ensure a complete uninstall of Replicator. Click **Next**.

The screenshot shows the 'Uninstall Options' window of the Metalogix Replicator Configuration Wizard. The window has a title bar with the text 'Metalogix Replicator Configuration Wizard' and a close button. Below the title bar is a navigation bar with a back arrow. The main content area is titled 'Uninstall Options' and contains the following fields and options:

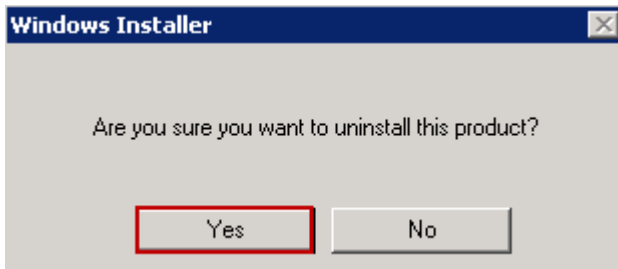
- User Account:** A text box containing 'SYNTERGY\demo\_central'.
- Password:** A text box containing '\*\*\*\*\*'.
- Remove Replicator Databases:** A checkbox that is checked, highlighted with a red rectangle.
- Remove Replicator from farm:** A radio button that is selected, highlighted with a red rectangle.
- Remove Connect Solution:** An unchecked checkbox.
- Remove Replicator from this computer:** An unselected radio button.

At the bottom right of the window are two buttons: 'Next >' and 'Cancel'.

5. Once the Retract and Remove screen has completed, click **Next**.
6. Once Configuration Confirmation has completed, click **Finish**.



7. You will now be prompted about whether you are sure you would like to uninstall Replicator. Click **Yes**.



8. The uninstall will run and complete on its own. To ensure that the program has been uninstalled, you can check under your program list, accessed through control panel. Metalogix Replicator should no longer be listed there.

## Maintain Replication Network

In this phase of the lifecycle, we maintain the health and optimize your Replication Network.

Maintaining your Replication Network is out of scope for this guide. See the *Metalogix Replicator Reference Guide* and *Knowledge Base articles* for more information about maintenance activities and tasks.

## Installing SQL Server Updates

Before installing any SQL Server updates, disable the Metalogix Replicator services running in the farms using that database.

To install a SQL Server update:

1. On each server in the farm where Replicator is running, open the Windows Services window and stop both Metalogix Replicator services.
2. Install the SQL Server update.

Restart all of the Metalogix Replicator services that were stopped in step 1.

## Installing SharePoint Updates

Before installing any SharePoint updates, disable replication for any web applications in the SharePoint farm you are updating. The following tasks guide you through the process of installing a SharePoint update on any farms configured for replication.

## Confirming Replicator works with the SharePoint Update

To confirm Replicator works with the SharePoint Update:

1. In Central Administration, open Application Management and select **About Metalogix Replicator**.
2. On the About Metalogix Replicator page, click **Get Version Information**. This updates the SharePoint version shown on the page to show the most recent SharePoint version supported by this version of Metalogix Replicator.

If a newer version of Metalogix Replicator is available, then you will also see that on this page and the latest SharePoint version it supports.

If you are updating SharePoint to a version that is supported by Replicator then continue with the next task.

If you are updating SharePoint and Replicator at the same time, then you must first disable replication for all web applications in this farm. After the web applications are disabled, you can update both products in any order.

If the SharePoint update is not supported by Replicator, then you should not install the SharePoint update. Contact Metalogix Technical Support for additional information.

## Installing the SharePoint Update

To install a SharePoint update:

1. From the Central Administration Application Management page, select **Configure Web Application** and disable replication for each web application in the SharePoint farm you are updating. This must be done for all web applications in the farm that are enabled for replication.
2. Install the SharePoint update.

From the Central Administration Application Management page, select **Configure Web Application** and enable replication for each web application you disabled earlier.