

Metalogix® Replicator 7.4

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Configuring SFTP With Metalogix Replicator

This guide describes how to enable replication using the SFTP transport protocol.

SFTP transport is one way outbound only communication, as a result acknowledgments and responses are not accepted back from the target. This will result in all outbound packages being set to completed

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Preparation

This guide describes how to enable replication using the SFTP transport protocol.

SFTP transport is one way outbound only communication, as a result acknowledgments and responses are not accepted back from the target. This will result in all outbound packages being set to completed

Local SFTP Server Settings:

Local SFTP Account Name: Name of the user with permission to connect to the local SFTP server running in the Replicator service. The default user name is typically "ReplicatorSFTPAccount".

Password for Password Authentication: The password for the user described above when using Password Authentication.

Public Encryption Key for Public Authentication: The public key to be used by the remote connection, and the private key pass phrase if key encryption is being used. Metalogix recommends using SSH-2 RSA keys of 2048-bit length for this.

Import Folder Name: The relative path name where Replicator will look for packages to upload via SFTP from another farm (e.g. /WebApp1SFTPImport).

This path is relative to the Replicator temporary folder, which is set to the following by default (where <Farm Admin> is the SharePoint Farm Administrator user):

C:\users\<Farm Admin>\appdata\Local\Temp\

Specify a folder name unique to this web application if more than one web application on this SharePoint farm is configured for replication using the SFTP transport method.

Target SFTP Server Settings

DNS name: The DNS name for the server hosting the SharePoint farm.

Port: The port number used by the SFTP server. Typically, the default port number is 22. Make sure that the firewall is not blocking this port to ensure that SFTP communication takes place.

User Name: Name of the user with permission to connect to the target SFTP server running in the Replicator service. The default user name is typically ReplicatorSFTPAccount.

Password for Password Authentication: The password for the user described above when using Password Authentication.

Private Encryption Key for Public Key Authentication: The private key to be used by the remote connection, and the private key pass phrase if key encryption is being used. Metalogix recommends using SSH-2 RSA keys of 2048-bit length for this.

Target Import Folder Name: The relative path name where Replicator will listen for packages to upload via SFTP from another farm (e.g. /WebApp1SFTPImport).

This path is relative to the Replicator temporary folder, which is set to the following by default (where <Farm Admin> is the SharePoint Farm Administrator user):

C:\users\<Farm Admin>\appdata\Local\Temp\

If more than one web application on this SharePoint farm is configured for replication using the SFTP transport method, specify the folder name that is unique to this web application.

Update Outbound Package Status from Package Response File: Select this option to enable outbound global package status updates from package response files received from the target server.

The following table can be used to gather the required information.

	Farm 1	Farm 2
Local SFTP Account Name		
Password for Password Authentication		
Public Encryption key for Public Key Authentication		
Import Folder Name		
DNS Name		
Port		
User Name		

	Farm 1	Farm 2
Private Encryption key for Public Key Authentication		
Target Import Folder Name		

Once Replicator has been installed, perform the following steps to enable replication between the two SharePoint web applications on Farm 1 and Farm 2 using the SFTP transport method:

1. On Farm 1, go to the Central Administration Application Management page.
2. Select Configure Web Application under the Metalogix Replicator menu, and enable replication for the web application.
3. Add a new connection to define the SFTP configuration between Farm 1 and Farm 2. Enter a connection name.
4. Click on the Transport drop down menu and select SFTP.

Configure Replication Connection ⓘ

i NOTE: If SFTP is not appearing as a possible Transport option here, review the [Preparation](#) section at the beginning of this document to ensure that the proper license has been activated.

5. Use the information recorded in the table above for Farm 1 Local SFTP Server settings. Set the Local SFTP Account Name to use to connect to the SFTP server on this farm.

Local SFTP Account Name:

6. Select the form of Authentication to use. Enter either the password for the above user to use password authentication, or upload/enter the public encryption key to use public key authentication.

i NOTE: When switching from Password Authentication to Public/Private Key Authentication for the same connections, the Metalogix Replicator Services and Transport Services should be restarted.

Authentication Type:

☒ Password Authentication ☐ Public Key Authentication

Password for Password Authentication:

.....

Public Encryption Key for Public Key Authentication:

```

AAAAAB3NzaC1yc2EAAAADAQABAAQgQDI4rsLZIK19Z5N4tOqu0/IBzlSnhe/8kmqM3RcRQTczl
WLe0t6IpPgWgyXiUUEdZ9jkLyF+ZWJV4WnQ0LfE1yWaY+dGILzFqZeWema+AA+FxFQZZk4hp
KWKRDXohJifZavWA8YB5qdGZMJurl1tX0a8G7U1Zyo5ODmvHlz5Olnw==

```

7. Set the Import folder name using a relative URL.

Import Folder Name:

/WebApp1Import

8. Use the information recorded in the table above for Farm 2 Target SFTP Server settings. Set the DNS name and SFTP port from Farm 2.

DNS Name:

londonoffice

Port:

22

9. Set the Username from Farm 2.

User Name:

ReplicatorSFTPAccount

10. Select the form of Authentication to use. Enter either the password for the above user if password authentication is being used, or upload/enter the private encryption key if public key authentication is being used.

Authentication Type:

☒ Password Authentication ☐ Public Key Authentication

Password for Password Authentication:

.....

Private Encryption Key for Public Key Authentication:

```

MIICXgIBAAKBgQDI4rsLZIK19Z5N4tOqu0/IBzlSnhe/8kmqM3RcRQTczlWLe0t6
IpPgWgyXiUUEdZ9jkLyF+ZWJV4WnQ0LfE1yWaY+dGILzFqZeWema+AA+FxFQZZk
4hpKWKRDXohJifZavWA8YB5qdGZMJurl1tX0a8G7U1Zyo5ODmvHlz5OlnwIEAAEA
AQKBgGRI/Li66GDsesvOW59usjb0dU+3N4N1Ih/wS216CS4ZAX1uh5BpC6MLHIP2
BQpvhtOKGM6UqInVtjScRyWaVaDrhfgII5bCGdr+h//EDp7buAhyfhnGn4UwI7KAH
6O4O8Zsjc0bLCZUnGL4yd9Yxkjin2GpfmRmjND08/2gcA6mMxAKkEA9ad15k/a5Yhn
5ohFx49p4MzDLmx1/Hf4B5fq0rdaf2dUA/MxyOAB6y+dsif0PTrwwFndjNyEWBXF
ZNOEkr2dPQJBANFYmGJh/4vqqqZQ6syxjWp4iWwSoA0cu6YgGzP+CAjty+DgusHi
UhVmORGABPTOKQrVMbnr8JzP6pYmN2MbtAsCQCKdKpE9zk/KdS14JTD15crdv2D
iuotNEj9rqhRv7ooGMSHtuiWeXtbXWkaYt6MLE5Je90daaTGK08q1vTf6DNZakEA

```

11. Set Target Import Folder Name path to the same value as the Import Folder name from Farm 2.

Target Import Folder Name:

/WebApp1Import

12. Add the connection to the adaptive replication group created in step 3, and remove associations with any other replication group.

13. Save the connection. The SFTP server running within the Replicator service is started by default.
14. Repeat the previous steps on Farm 2 using Farm 2 Local SFTP Server settings and Farm 1 Target SFTP Server Settings.
15. Add a map family in the usual manner. Select the adaptive replication group created in step 3 as the replication group for the map family. Set the Package File Format field to XML.

i | **NOTE:** It is important you set the Package File Format to XML, especially if you are using a Cross Platform license, where the default is XML Minimal.

The map family is replicated to the target automatically. Note that when creating multiple connections using SFTP transport on the same replication server, the user account names must be different. For example, if Server A has two connections, the user names should be distinguishable as in the following example:

Connection Names User Name

UK-SFTPConnection-1 Local and Target user name = UKReplicatorSFTPAccount

AP-SFTPConnection-2 Local and Target user name = APReplicatorSFTPAccount