

Documents server FTP(S)

Documentation

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I. PREREQUISITES

- ➤ A FTP(S) server (example : FileZilla Server)
- > Check your server configuration to apply it on Digdash's FTP(S) Client
- > Open the necessary ports so that Digdash can connect to your FTP(S) server
- > An external IP address visible from outside for a FTP connection in passive mode (see below)
- > In this document:
 - → P refers to the port of the FTP server (21 by default)
 - → PE refers to the port if Explicit FTP over TLS is used (by default: P = PE = 21)
 - → PI refers to the port if Implicit FTP over TLS is used (990 by default)

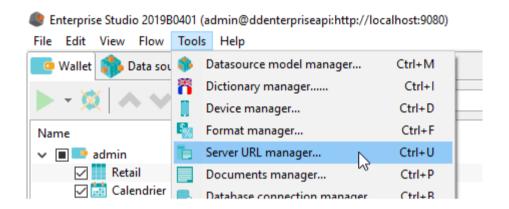
You need to adapt according to your ports, if default ones are not used.

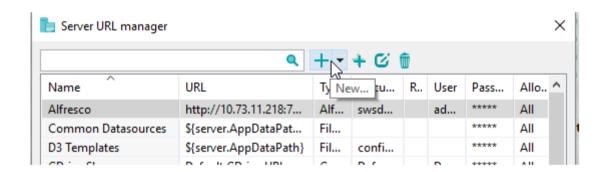
II. CREATING A NEW FTP(S) DOCUMENT SERVER

· Via the Digdash Studio

To create a new FTP(S) document server in the Digdash Studio :

Open Digdash's Enterprise Studio > Tools > Server URL manager... > New...

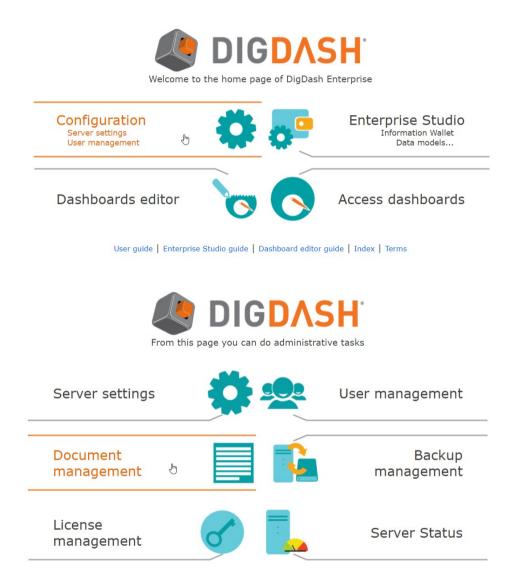




Screenshot: Creation of a new FTP(S) document server

III. SERVER CONFIGURATION

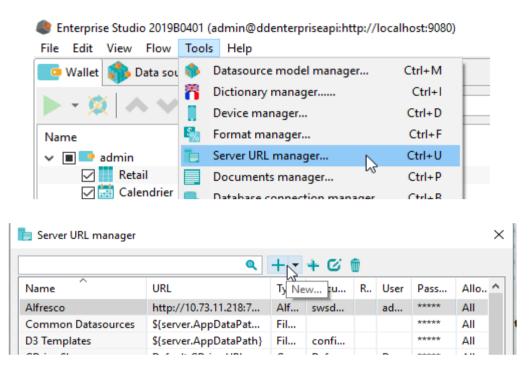
· Via the browser

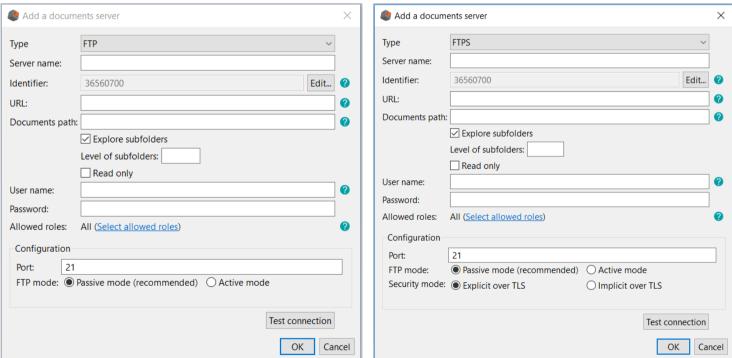


Screenshot: Creation of a new FTP(S) document server via the browser

Via Digdash's Enterprise Studio

Open Digdash's Enterprise Studio > Tools > Server URL manager... > New...



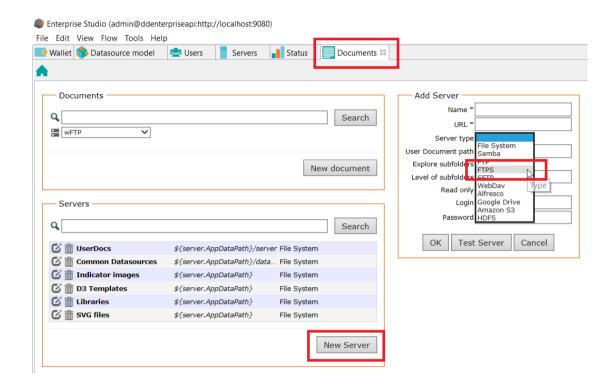


Screenshot: Creation of a new FTP document server

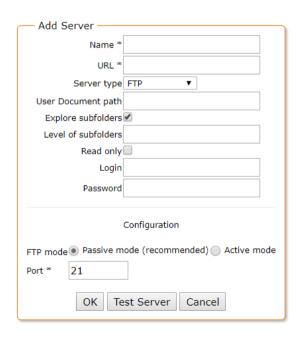
Screenshot: Creation of a FTPS document server

OU

The browser version is also available through a tab in Digdash's Enterprise Studio



Screenshot: creating a new FTP(S) document server via Digdash's Enterprise Studio



<u>Screenshot: new FTP document server</u>



Screenshot: new FTPS document server

III.1 Server name

Give a name to your FTP(S) document server.

III.2 URL

Enter the IP address of your FTP(S) server.

III.3 Path (documents path for a user)

It is from this path on the server that Digdash will start the exploration of your documents. If empty, Digdash will start the exploration from root.

III.4 Exploration of subfolders

You have the possibility to set the level of exploration of the subfolders from your document path.

By default, Digdash seeks for all your documents, recursively, and explores all the subfolders.

Fields	Explore subfolders	Level of subfolders	
Values	Selected	Empty	N > 0
		Default value, exploration in all subfolders	Exploration in the N subfolders
	Deselected	0	
		No exploration in the subfolders, only in the current directory	

Table for the different levels of exploration of subfolders

III.5 Read only

Only the lecture is possible when this option is selected.

III.6 Login

Enter the user's login.

III.7 Password

Enter the user's password.

IV. ACTIVE MODE / PASSIVE MODE

The notion of active/passive mode is really important when using FTP with firewalls :

Source: www.slacksite.com Source: https://wiki.filezilla-project.org/Network Configuration

Active mode

From the server-side firewall's standpoint, to support active mode FTP the following communication channels need to be opened:

- > FTP server's port P (21) from anywhere (Client initiates connection)
- > FTP server's port P (21) to ports > 1023 (Server responds to Client's control port)
- > FTP server's port P-1 (20) to ports > 1023 (Server initiates data connection to Client's data port)
- > FTP server's port P (20) from ports > 1023 (Client sends ACKs to Server's data port)

Active mode options

By default, the Client asks the operating system for the machine's IP address and for the number of a free port. This configuration can only work if you are connected to the internet directly without any NAT router, and if you have set your firewall to allow incoming connections on all ports > 1024.

If you have a NAT router, you need to tell the Client your external IP address in order for active mode connections to work with servers outside your local network.

Add Server -

Security mode

Active mode options:

External IP address (client)

Port *

Port range

HRI * Server type FTPS

> Read only Login

Password

Configuration

OK Test Server Cancel

Explicit over TLS

Passive mode (recommended)

Active mode

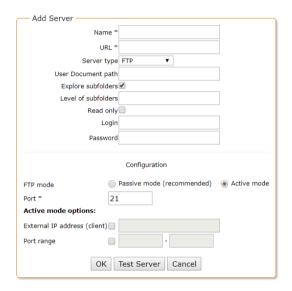
Implicit over TLS

User Document path

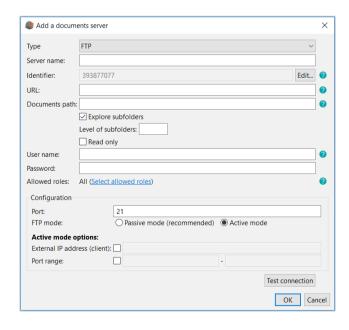
Explore subfolders

Level of subfolders

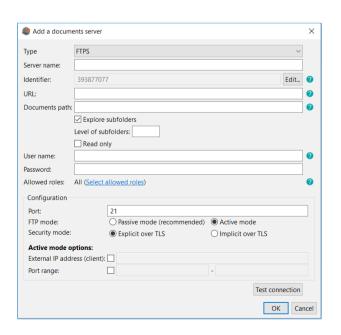
You also can limit the number of communication ports in active mode.



Screenshot: active mode option for FTP (web) Screenshot: active mode options for FTPS (web)



Screenshot: active mode option for FTP (studio)



Screenshot: active mode options for FTPS (studio)

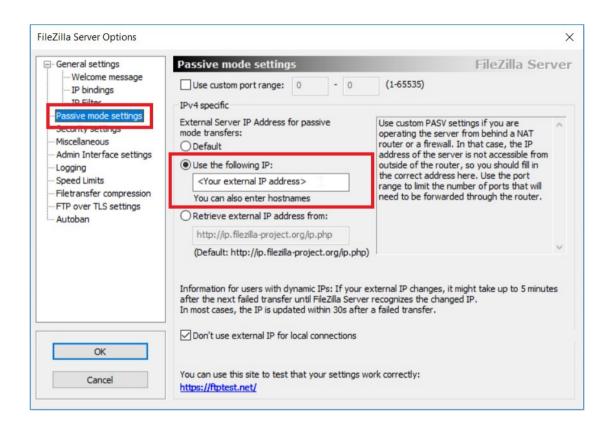
Passive mode (recommended)

From the **server-side firewall's standpoint**, to support passive mode FTP the following communication channels need to be opened:

- > FTP server's port P (21) from anywhere (Client initiates connection)
- > FTP server's port P (21) to ports > 1023 (Server responds to client's control port)
- > FTP server's ports > 1023 from anywhere (Client initiates data connection to random port specified by server)
- > FTP server's ports > 1023 to remote ports > 1023 (Server sends ACKs (and data) to client's data port)

Particularly, for the passive mode, the FTP Client only sees the local IP address of the server, that is not reachable from outside.

You will need to configure the passive mode settings of your FTP server to mention an IP address visible from outside. Let's take a FTP Filezilla server as an example to illustrate:



Screenshot: Use of an external IP address for a FTP connection in passive mode

V. EXPLICIT FTP OVER TLS MODE / IMPLICIT FTP **OVER TLS MODE (ONLY FTPS)**

To work with a secured FTP server (FTPS), you have to configure the protocol in the settinas:

Source: www.attachmate.com

Explicit FTP over TLS mode

By default the FTP Client makes SSL/TLS connections using Explicit security. In order to establish the SSL connection, explicit security requires that the FTP client issue a specific command (AUTH TLS) to the FTP server after establishing a connection. If the server gives a success response, the client begins the TLS negotiation. The default FTP server port (21) is used.

Implicit FTP over TLS mode

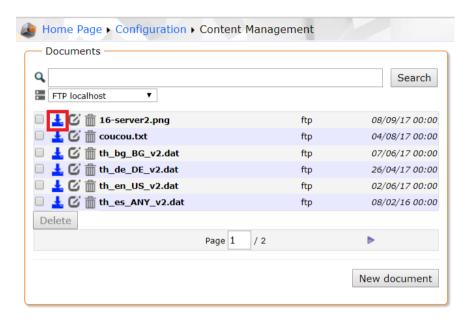
When you select Implicit SSL/TLS Connection, the FTP Client uses Implicit security. Implicit security automatically begins with an SSL connection as soon as the FTP client connects to the server; no AUTH TLS command is sent prior to the TLS negotiation.

By default, the FTP Client uses PI port = 990 for Implicit connections.

VI. POSSIBLE ACTIONS

Via the browser version of the document manager, you can proceed many actions on your documents on your FTP(S) server.

VI.1 Downloading

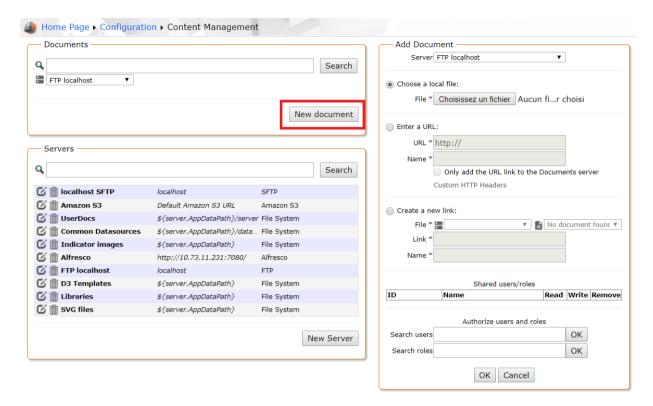


Screenshot: Downloading a file from FTP(S) server

It is a basic action. Every connected Digdash user is at least able to read any documents on the server.

This action is possible via this icon: ...

VI.2 Uploading



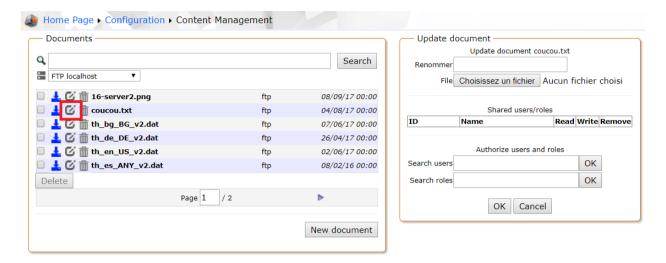
Screenshot: Uploading a document on FTP(S) server

Note: In Digdash, it is preferable to upload documents with explicit extensions.

Three options are possible:

- Choose a local file: click on Browse... to select the document to add. Click **OK**. The dialog **Open** shows.
- Enter a URL: Enter the URL of your document. If the checkbox Only add the URL link to the Documents server is deselected, the content pointed by the URL is downloaded only just once. If the checkbox Only add the URL link to the Documents server is selected, the content will be downloaded by the server every time it needs to (for a data source or required by the user). If required by the user, the URL must be reachable by the server. You can also insert user variables in the URL (\${user.uid}, etc. Cf documentation). You can use a URL starting with « file:// » but in that case, the option Only add the URL link to the Documents server is selected by default. This kind of URL should refer to a file on the disk of the server. The link name must end with the extension of the file (.csv, .html, etc.).
- Create a new link: Create a new link to a document on the server. The pointed file is the last document (alphabetically) corresponding to the link. For example, a link like "document*.csv" will refer to the last CSV file starting with "document".

VI.3 Updating



Screenshot: Updating a document on FTP(S) server

This action is possible via this icon: .

Here are the possible actions:

VI.3.1 Updating a document content

You are able to update the content of an existing document selecting another file on their file system.



This unique action will not alter the document name.

VI.3.2 Renaming

You are able to rename a document. You will specify in the text field the new name without any extension (it remains the same).

VI.4 Deleting

You are able to delete one or several existing documents in the directory specified during the server configuration.

If the user wants to delete more than one document, they can do it thanks to the check boxes.

This action is possible via this icon: .