



Informatica® Cloud Data Integration

Advanced FTP V2 Connector

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Publication Date: 2022-06-26

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Preface

Use the Advanced FTP V2 Connector to learn how to read files from and to write files to an FTP server. Learn how to create a connection and how to use connections in mass ingestion tasks and in Cloud B2B Gateway.

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CHAPTER 1

Introduction to Advanced FTP V2 Connector

This chapter includes the following topics:

- [Advanced FTP V2 Connector overview, 6](#)
- [Advanced FTP V2 supported task types and object types, 7](#)

Advanced FTP V2 Connector overview

Advanced FTP V2 Connector enables you to securely transfer to and from FTP servers.

When you transfer files to and from an FTP server, you can specify the Secure Agent. When you use FTP objects in file ingestion tasks, you configure properties specific to FTP.

Create an Advanced FTP V2 connection and use the connection as a source or as a target in file ingestion tasks.

When you create an Advanced FTP V2 connection, you specify the runtime environment that contains the Secure Agent. Create an Advanced FTP V2 connection to specify the location of FTP sources or targets that you want to include in a file ingestion task.

When you run a file ingestion task, the Secure Agent transfers files to or from an FTP server, based on the task and the Advanced FTP V2 connection configuration. The Secure Agent connects and reads files from and writes files to the FTP server through a TCP/IP network.

When you use an Advanced FTP V2 source in a file ingestion task, you can schedule the task to receive notifications from a file listener.

Example

You work for an organization that stores audit trail logs in an on-premises FTP server. You need to move data from the on-premises FTP site to an affordable cloud-based environment. Create a file ingestion task to read all the audit trail logs from the FTP server and write them to an Amazon S3 target.

Advanced FTP V2 supported task types and object types

The following table lists the tasks and object types that the Advanced FTP V2 Connector supports:

| Task Type | Source | Target |
|----------------|--------|--------|
| Mass Ingestion | Yes | Yes |

CHAPTER 2

Advanced FTP V2 Connections

This chapter includes the following topics:

- [Advanced FTP V2 connections overview, 8](#)
- [Advanced FTP V2 connection properties, 8](#)

Advanced FTP V2 connections overview

An Advanced FTP V2 connection enables you to read data from and write data to FTP servers. You can use an Advanced FTP V2 connection to specify sources and targets in file ingestion tasks.

Create an Advanced FTP V2 connection on the **Connections** page and associate it with a file ingestion task. Define the source properties to read from an FTP server or define the target properties to write to an FTP server.

Advanced FTP V2 connection properties

When you set up an Advanced FTP V2 connection, you must configure the connection properties.

The following table describes the Advanced FTP V2 connection properties:

| Connection property | Description |
|---------------------|---|
| Connection Name | The name of the connection. The name is not case sensitive and must be unique within the domain. You can change this property after you create the connection. The name cannot exceed 128 characters, contain spaces, or contain the following special characters:~`!\$%^&*() - + = {[]] \ : ; " ' < , > . ? / |
| Description | Optional. The description of the connection. The description cannot exceed 4,000 characters. |
| Type | Select the Advanced FTP V2 connection type. |
| Runtime Environment | The name of the runtime environment where you want to run the tasks. Specify a Secure Agent. |
| Host | The host name or IP address of the FTP server. |

| Connection property | Description |
|----------------------------|--|
| Port | The port number to use for connecting to the FTP server. If left blank, the default port number 21 is used. |
| Username | User name to connect to the FTP server. |
| Password | Password to connect to the FTP server. |
| Folder Path | The directory to use after connecting to the FTP server. |
| Use passive mode | <p>Indicates whether the connection uses Passive or Active mode. Specify Yes to use Passive mode. Specify No to use Active mode.</p> <p>The default value is Yes.</p> <p>In Passive mode, the server does not need to connect back to a port on the connection client, which is a firewall-friendly mode. If you have problems with connecting to the server, you might want to change the mode to Passive by selecting Yes for this option. In Passive mode, depending on the FTP server, the connection may require high port range based on the port availability to transfer data.</p> <p>In Active mode, the server attempts to connect back to a port on the connection client to perform the data transfer.</p> |
| Data Connection Start Port | The starting port number to use for the data connection. |
| Data Connection End Port | The ending port number to use for the data connection. |
| Timeout | The number of seconds to wait when attempting to connect to the server. A timeout occurs if the connection cannot be established in the specified amount of time. If left blank, the default value of 120 seconds is used. |
| Connection Retry Attempts | The number of times to connect to retry the FTP connection if a connection cannot be established. This setting is used for both the initial connection and any reconnect attempts due to lost connections. If left blank, no retries will be attempted. |
| Connection Retry Interval | <p>The number of seconds to wait between each connection retry attempt.</p> <p>Note: For instance, if you want to retry to connect up to 10 times with a five second delay between retries, then specify 10 for the Connection Retry Attempts and 5 for the Connection Retry Interval.</p> |
| Control Encoding | If left blank, the connection uses the ISO standard ISO-8859-1. If supported by the server, other encodings such as UTF-8 can be specified to support international characters. |
| List Parser | The list parser to use for the server connection. If the field is left blank, the Advanced FTP V2 Connector attempts to use the MLSD parser. If the MLSD parser is not supported by the server, the UNIX parser is used. If you experience problems listing directories, select a different list parser. |

| Connection property | Description |
|---------------------|--|
| Date Format | This date format is applied if the server returns a date that is different from the selected list parser default. If your location requires a different date format (for example, d MMM yyyy), specify the date format in this field. Not all list parsers support the date format setting. List parsers that do not support the date format setting ignores any user specified value. |
| Recent Date Format | Specify the date format to use when parsing the recent last modified date for each file. The recent date format applies in UNIX-based systems and appears on entries less than a year old. If your location requires a specific date format (for example, d MMM HH:mm), specify that pattern in this field. Not all list parsers support the recent date format setting. List parsers that do not support the recent date format setting ignores any user-specified value. |

CHAPTER 3

File transfer

You can send files to a remote server or receive files from a remote server, and get the job status through the REST API.

Use the following resources for file transfer:

- `sendfiles`. Use to send files to a remote server.
- `receivefiles`. Use to receive files from a remote server.
- `job`. Use to get the status of the supported file transfer jobs that are initiated using the `sendfiles` or `receivefiles` resource.

When you use these resources, note the following rules:

- Use JSON format.
- Use the following base URL:
`<serverUrl>/mftsaas/api/v1/<API name>`
- Use the following request header format:
`<METHOD> <serverUrl>/<URI> HTTP/<HTTP version>`
`Content-Type: application/json`
`Accept: application/json`
`IDS-SESSION-ID: <SessionId>`

Note: You must have the appropriate connector license to send and receive files.

sendfiles

Use the `sendfiles` resource to transfer files to a remote server.

The following connection types use the `sendfiles` resource to transfer files to the remote server:

- AS2
- Advanced FTP V2
- Advanced FTPS V2
- Advanced SFTP V2

Before you construct a `sendfiles` request to transfer files, obtain the identifier of the connection that provides access to the server. To get the connection ID, you can send a GET request using the connection resource.

The connection resource can return information for each of your organization's connections.

POST Request

To transfer files, include the connection ID in the following URI.

```
mftsaas/api/v1/sendfiles/<connection ID>
```

Include the following information in the request:

| Field | Type | Required | Description |
|----------------------|--------|----------|--|
| targetConnectionType | String | Yes | Connection type. The supported connection types are: <ul style="list-style-type: none">- Advanced FTP V2- Advanced FTPS V2- Advanced SFTP V2- AS2 |
| srcDirectoryPath | String | Yes | Directory path from where files are transferred. |
| tgtDirectoryPath | String | - | Directory path to where files are transferred. This option is available only for Advanced FTP V2, Advanced FTPS V2, and Advanced SFTP V2 connection types. Default is '/'. |
| srcFilePattern | String | Yes | Source file name pattern. Specify a file name pattern to identify which files to send. You can use the regular expression type. |
| deleteSourceFiles | String | - | Whether to delete source files after a successful POST request. Use one of the following values: <ul style="list-style-type: none">- true. Delete source files.- false. Save source files. Default is true. |

For example, to transfer the files that begin with "file_" that are located in the workspace directory, you might use the following request:

```
POST <serverUrl>/mftsaas/api/v1/sendfiles/<connection ID>
Accept:application/json
IDS-SESSION-ID: <icSessionId or INFA-SESSION-ID>
{
  "targetConnectionType": "as2",
  "srcDirectoryPath": "C:\\server\\userdata\\workspace",
  "srcFilePattern": "file_*"
}
```

For example, to transfer the files with ".txt" pattern, you might use the following request:

```
POST <serverUrl>/mftsaas/api/v1/sendfiles/<connection ID>
Accept:application/json
IDS-SESSION-ID: <icSessionId or INFA-SESSION-ID>
{
  "targetConnectionType": "Advanced SFTP V2",
  "srcDirectoryPath": "C:\\docstoreLocal2",
  "tgtDirectoryPath": "C:\\server\\userdata\\workspace",
  "srcFilePattern": ".*txt"
}
```

POST Response

If successful, Informatica Intelligent Cloud Services returns the run ID for the job. Use the run ID to monitor the job status.

The following example shows a successful response:

```
{
  "projectId": 0,
  "timeTaken": 0,
  "queuePriority": 0,
  "runPriority": 0,
  "runMode": "UNKNOWN",
  "submitSourceId": -1,
  "correlationId": "OWMxOTc2YjktNzI4YS00Mm",
  "runModeInteractive": false,
  "runModeBatch": false,
  "runModeDebug": false,
  "runModeUnknown": true,
  "formattedTimeTaken": "0.00",
  "id": 1000000000384,
  "runId": 385
}
```

If unsuccessful, the response includes a reason for the failure.

receivefiles

Use the receivefiles resource to get files from a remote server.

The following connection types use the receivefiles resource to transfer files to the remote server:

- Advanced FTP V2
- Advanced FTPS V2
- Advanced SFTP V2

Before you construct a receivefiles request to receive files, obtain the identifier of the connection that provides access to the server. To get the connection ID, you can send a GET request using the connection resource. The connection resource can return information for each of your organization's connections.

POST Request

To receive files, include the connection ID in the following URI.

```
mftsaas/api/v1/receivefiles/<connection ID>
```

Include the following information in the request:

| Field | Type | Required | Description |
|----------------------|--------|----------|--|
| sourceConnectionType | String | Yes | Connection type. The supported source connection types are: <ul style="list-style-type: none">- Advanced FTP V2- Advanced FTPS V2- Advanced SFTP V2 |
| tgtDirectoryPath | String | Yes | Directory path to where files are transferred. |
| srcDirectoryPath | String | - | Directory path from where files are transferred. Default is '/'. |
| srcFilePattern | String | Yes | Source file name pattern. Specify a file name pattern to identify which files to send. You can use the regular expression type. |

| Field | Type | Required | Description |
|-------------------------|--------|----------|--|
| processFilesRecursively | String | - | Whether to process files from all sub-folders within the base directory. Default is false. |
| afterFilePickupAction | String | - | Determines what to do with source files after the files transfer. The following options are available: <ul style="list-style-type: none"> - Keep the files in the source directory. - Delete the files from the source directory. - Rename the files in the source directory. You must specify a file name suffix that adds to the file name when renaming the files. - Archive the files to a different location. You must specify an archive directory. Default is KEEP. |
| skipDuplicateFiles | String | - | Do not transfer duplicate files. If files with the same name and creation date were transferred, the task does not transfer them again, and the files are marked as duplicate in the job log. If this option is not selected the task transfers all files. Default is false. |
| whenFileExists | String | - | Determines what to do with a file if a flat file with the same name exists in the target directory. The following options are available: <ul style="list-style-type: none"> - rename - overwrite - skip - stop - error Default is rename. |

For example, to transfer the files with ".txt" pattern, and rename the file if a flat file with same name exists in the target directory, you might use the following request:

```
POST <serverUrl>/mftsaas/api/v1/sendfiles/<connection ID>
Accept:application/json
IDS-SESSION-ID: <icSessionId or INFA-SESSION-ID>
{
  "sourceConnectionType": "Advanced SFTP V2",
  "tgtDirectoryPath": "C:\\docstoreLocal2",
  "srcDirectoryPath": "C:\\server\\userdata\\workspace",
  "srcFilePattern": ".*txt",
  "processFilesRecursively": false,
  "afterFilePickupAction": "KEEP",
  "skipDuplicateFiles": false,
  "whenFileExists": "rename",
}
```

POST Response

If successful, Informatica Intelligent Cloud Services returns the run ID for the job. Use the run ID to monitor the job status.

The following example shows a successful response:

```
{
  "projectId": 0,
  "timeTaken": 0,
  "queuePriority": 0,
  "runPriority": 0,
  "runMode": "UNKNOWN",
  "submitSourceId": -1,
  "correlationId": "OWMxOTc2YjktNzI4YS00Mm",
  "runModeInteractive": false,
}
```

```
"runModeBatch": false,
"runModeDebug": false,
"runModeUnknown": true,
"formattedTimeTaken": "0.00",
"id": 1000000000384,
"runId": 385
}
```

If unsuccessful, the response includes a reason for the failure.

job

When you use the REST API to send or receive files, use the REST API version 1 job resource to get the status of the file transfer.

Do not use the platform REST API version 2 job resource to get the status of an file transfer job.

Get Request

When you send the request for status of an file transfer job, include the run ID returned in the sendfiles POST response. Use the following URI:

```
mftsaas/api/v1/job/<runID>/status
```

Get Response

If successful, Data Integration returns the job status.

If unsuccessful, the response includes a reason for the failure.

Get Response Example

If the request is successful, you might receive a response similar to the following example:

```
{
  "jobStatus": "SUCCESS"
}
```

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