



HKEX Data Marketplace

Data Destination Configuration Guide – SFTP Pull

Version: 1.0

18 Dec 2024

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Document History

Version	Date of Issue	Comments
V1.0	18 Dec 2024	First distribution version

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1 Overview

This document describes how to set up and configure the SFTP Pull option for data product delivery in Data Marketplace.

The SFTP Pull functionality allows users to securely download data products they are entitled to via SFTP.

The data product files will be organized in folders in below format:

- Catalog: Arranged by Data product code\ Data asset code\YYYY\MM\DD

2 SFTP Pull Setup Guide

2.1 Prerequisites to using SFTP Pull

- a. The SFTP Pull user must be setup as a user in Data Marketplace (Please contact us for setup arrangement)
- b. Download the necessary tools (public-private key pair generator and SFTP Client)
- c. The SFTP user will need to generate a public-private key pair using a key pair generator
- d. Copy the Public Key to the SFTP server (Data Marketplace uses SFTP Go server)

Some examples are shown below to detail the steps above (you may use a tool of your choice):

Download a SFTP Client and key pair generator (b):

- For **Mac**: Use **Cyberduck** or **Transmit** (alternatively, [FileZilla](#) also works)
- PuTTYgen for a key generator tool for creating SSH keys
- For **Windows**: Download [FileZilla](#) or another SFTP client of your choice

Generate Private Key (c):

- For **Mac**: Use the [documentation from Acquia](#) to generate a SHA key pair
- For **Windows**: Use the [PuTTY for SSH key-based authentication](#) generate a SSH key pair

Use of SFTP Go Web Client (d):

- Access the SFTP Go web client via:
<https://sftp.core.hkexprod.hkexdatamarketplace.com/web/client/login>
- Click **Sign in with OpenID** and access it
- You will be taken to the Data Marketplace login screen - sign in using Data Marketplace username and password
- Setup a Profile using your email address and Public Key generated from PuTTY

2.2 FileZilla Configuration\ Log-on

- Open FileZilla and go to File → Site Manager
- Add a New Site and enter details as below:
 - Protocol: SFTP
 - Host: sftp.hkexprod.hkexdatamarketplace.com
 - Port: 22
 - Logon Type: Key File
 - User: Your email address
 - Key File: Under the Key file field, select the SSH key (**Private Key**) you saved earlier from Prerequisite → Generate Private Key section above
- After the configuration click “Connect”
- Verify File Transfer
 - Once connected, you should see the files available on the server
- Download: Select and download the files you need

2.3 How to Troubleshoot

If you face issues, consider the following:

- Check Key Format: Ensure the key is in the correct format (for e.g. PuTTY's .ppk format for Windows)
- Firewall/Port Issues: Ensure no firewall or port restrictions are blocking the SFTP port (22)
- Permissions: Verify that you has the required permissions to access the files

3 Folder Organisation Structure

3.1 Catalog View

Folders are arranged alphabetically by Data Product Code. (Please note the screen shots below are from the Staging environment; Production environment will have the correct Dataset codes).

The structure follows this format: Data Product Code
 \Data asset code
 \YYYY
 \ MM
 \ DD

Remote site: /CFBC

- > CFBC
- > CFBD-NSOM
- ? CFBD-SOM
- ? SHD
- ? SSD

Filename	Filesize	Filetype	Last modified	Permissions	Owr
..					
HKEX-DAILY-SFOB		Directory	01/01/1970	drwxr-xr-x	0 0

Remote site: /CFBC/HKEX-DAILY-SFOB/2024/11

- ? 07
- ? 08
- ? 09
- ? 10
- 11
- ? 01
- ? 04
- ? 05
- ? 06
- ? 07
- ? 08
- ? 11

Filename	Filesize	Filetype	Last modified	Permissions	Owner/Group
..					
20		Directory	01/01/1970	drwxr-xr-x	0 0
19		Directory	01/01/1970	drwxr-xr-x	0 0
18		Directory	01/01/1970	drwxr-xr-x	0 0
15		Directory	01/01/1970	drwxr-xr-x	0 0
14		Directory	01/01/1970	drwxr-xr-x	0 0
13		Directory	01/01/1970	drwxr-xr-x	0 0
12		Directory	01/01/1970	drwxr-xr-x	0 0
11		Directory	01/01/1970	drwxr-xr-x	0 0
08		Directory	01/01/1970	drwxr-xr-x	0 0

Should you have any questions, please contact datamarketplace@hkex.com.hk for assistance.