

Cryo-EM Microscope Data Management User Guide

Introduction

This document will guide user to upload and download from microscope to local computer as well as perform housekeeping. This guide will be based on an open source, FileZilla, which can be downloaded for free from <https://filezilla-project.org/download.php?platform=win64> . Mac and Linux versions are also available.

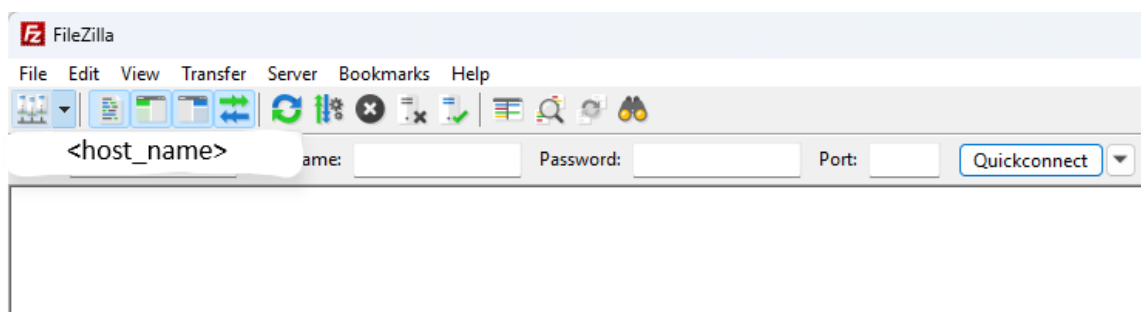
Note that this guide will not cover all features and how-to in using FileZilla but basic file transfer operation only. Please refer to the software website for more details.

Uploading data to the SFTP server

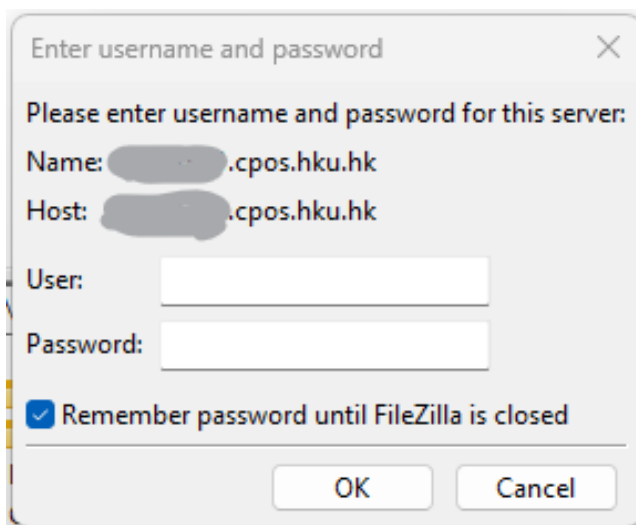
For Aquilos 2 Cryo-FIB and Talos L120C TEM 120kV only. Data generated from Glacios and Krios microscopes will have the data directly synced from their corresponding DMP server to the HPC central storage.

Next to the Microscope PC, there is a **User PC** in the microscope room. Data captured from the microscope is saved directly in the local drive of the **User PC** under the **ShareData** folder. **DO NOT transfer the data from the microscope PC directly.**

Once the data capture is complete, you can open FileZilla app in the **User PC**. Click the top left Site Manager icon and select <host_name>



You will be prompted to enter Username and Password. *If you don't already have a username and password, please contact Cryo-EM Lab team.*



Enter username and password

Please enter username and password for this server:

Name: [redacted].cpos.hku.hk

Host: [redacted].cpos.hku.hk

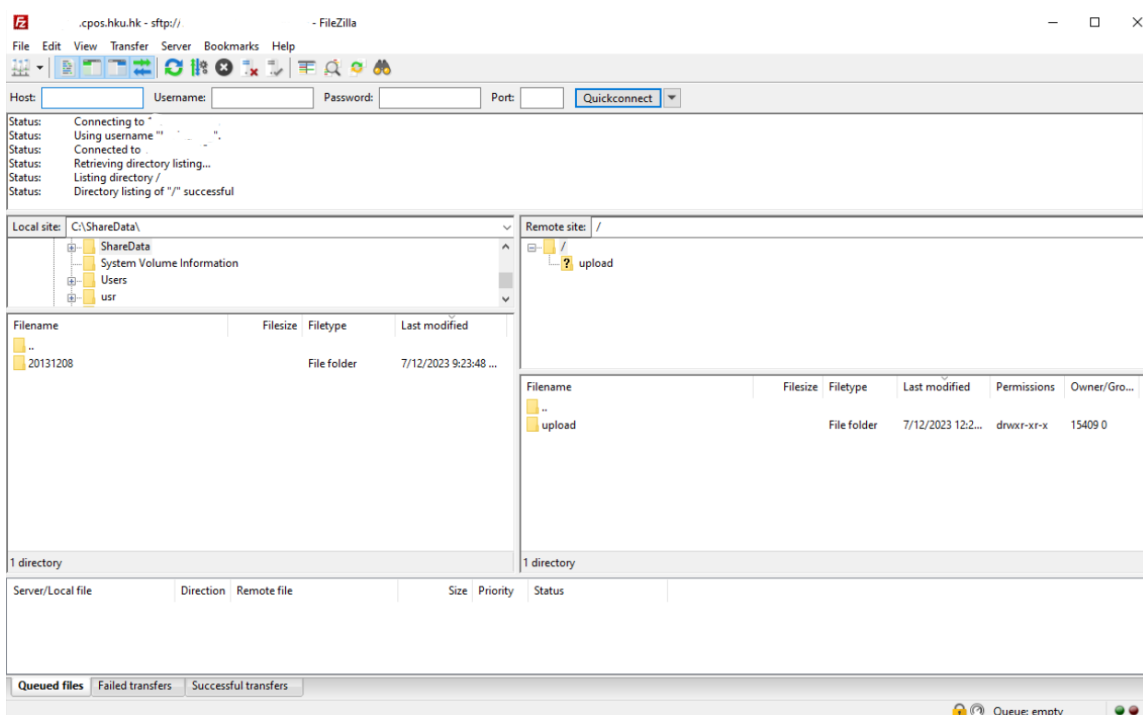
User:

Password:

☒ Remember password until FileZilla is closed

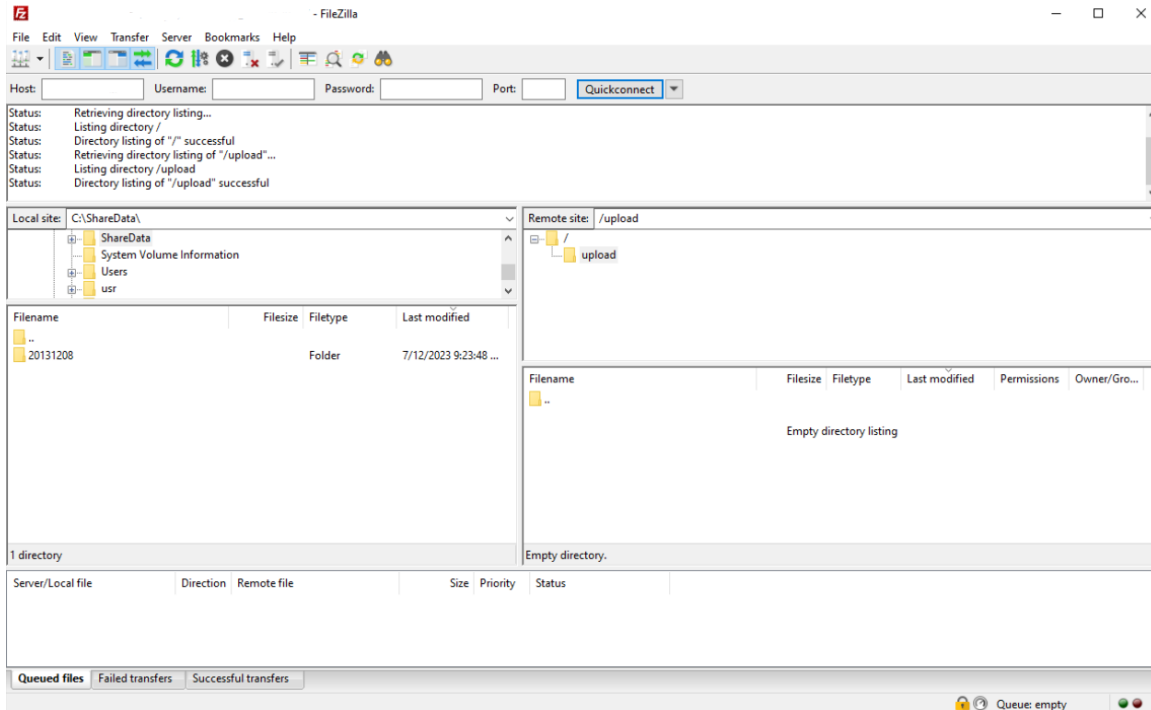
OK Cancel

If your connection is successful, you will see the message.



If you failed to connect successfully, please double check login name and password entered. Also ensure that Port is 22.

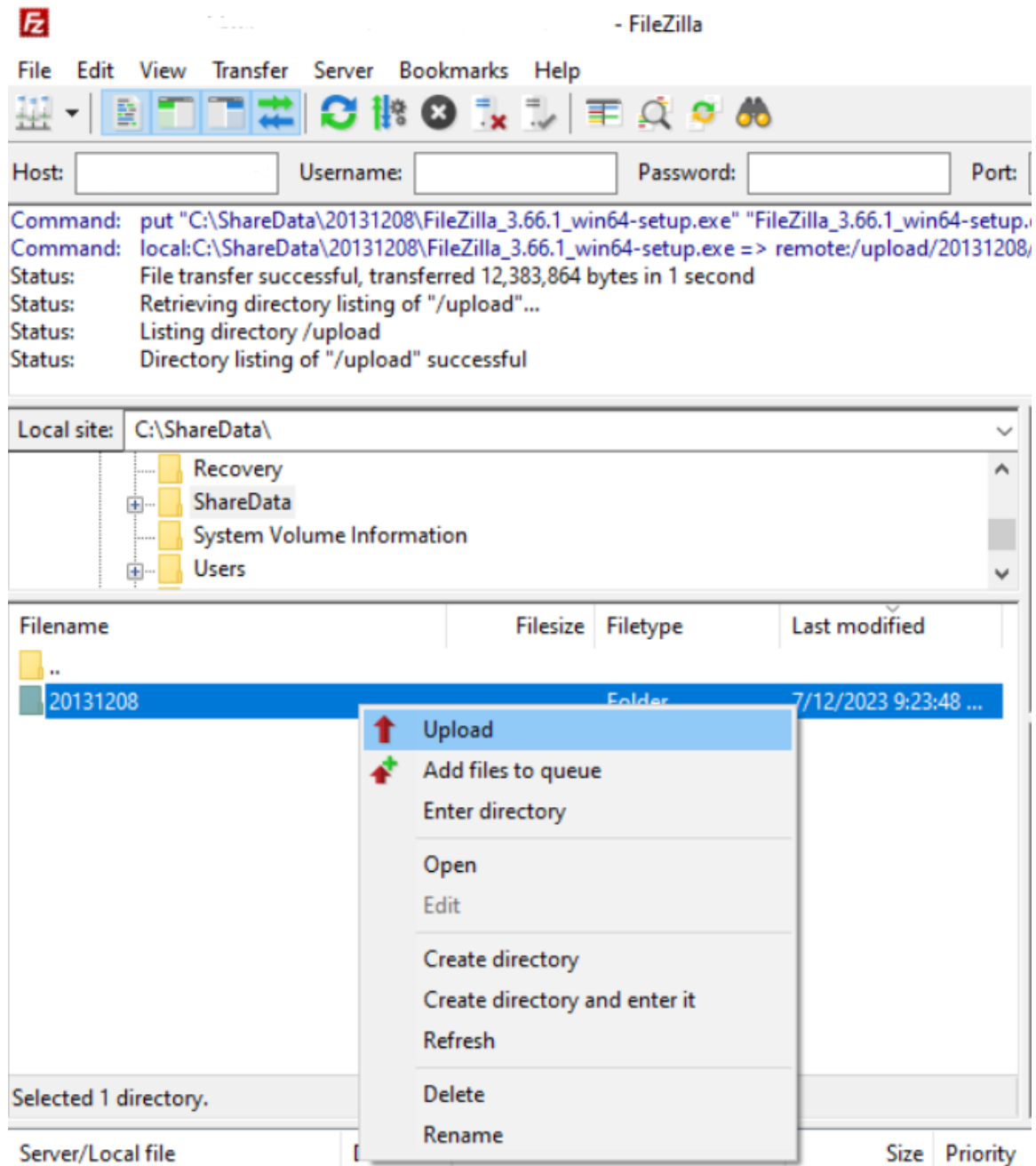
In the Local site window, go to ShareData directory while in the Remote site windows, click into the “upload” directory, which is where you should transfer your data to. Transferring data to the root directory will fail.



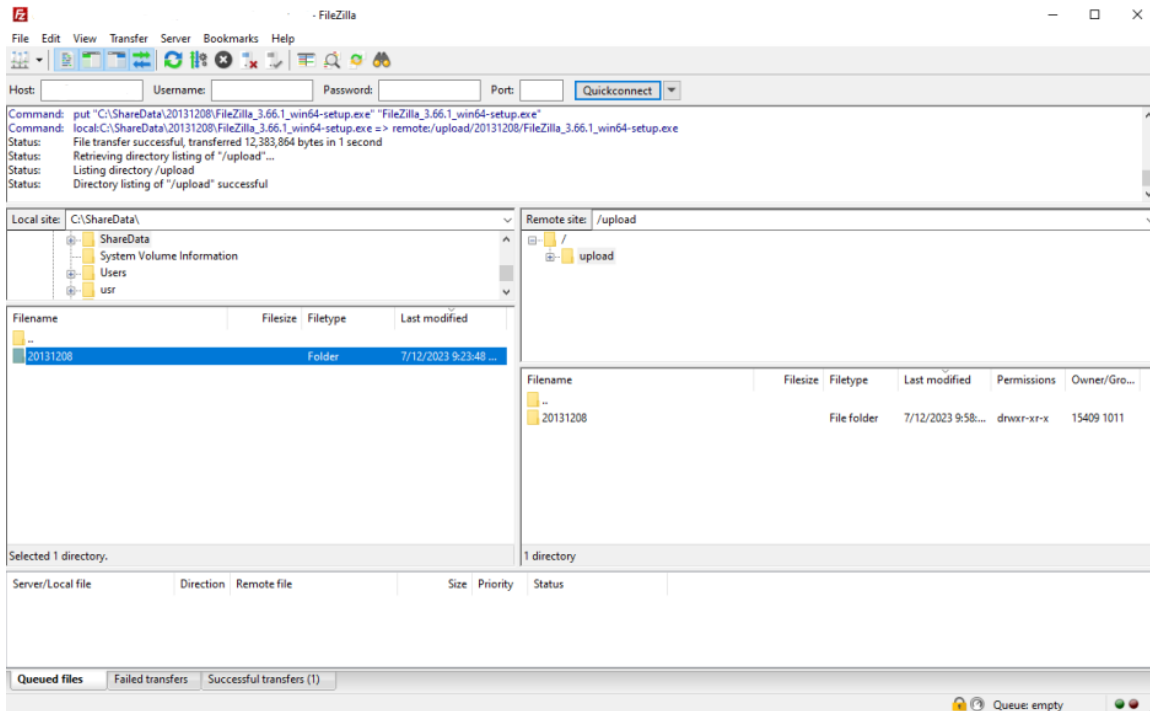


Select the directory/files and drag to the bottom window of Remote site side.

You can also right-click on the select directory/files and click Upload in the pop-up menu.



When file transfer is completed, you will see the transferred files appear in the Remote site window.



After confirming successful transfer, close FileZilla.

Downloading data to your local computer

You can now go back to your own computer, use FileZilla or other similar SFTP client software to download the data from the SFTP server. Procedure is basically the same as uploading except the Local site will be the local drive of your computer.

Note that downloading speed to your local computer depends on your computer network connection. You can only download to a computer that is connected to the HKU campus network. Downloading from the internet is not allowed due to security reasons.

Data housekeeping

You are advised to delete the data from the local drive in the User PC (ie, C:/ShareData/<your data directory>) if you do not wish the next user will be able to access them. ShareData directory will be periodically cleaned to release space for normal microscope operation. No further notice will be provided to user.

All data residing in the SFTP server will be removed after 14 days automatically. There will be no backup of the data. Please make sure you have successfully downloaded the data to your local computer within 14 days.

For assistance, please contact Cryo-EM Lab office.