How to use an SSH and SFTP Client

Contents

Introduction

This article will go over the steps to use an SSH and SFTP client. In this example we are using WinSCP and PuTTY.

Objectives

- Download WinSCP
- Open a session in WinSCP
  - How to transfer a file/navigate the filesystem
- Download PuTTY
- Open a session in PuTTY

1 – WinSCP

This section will go over the steps to download and use WinSCP.

1.1 – Download WinSCP from their website

1) Open a browser and navigate to https://winscp.net/eng/download.php
2) As seen in figure 1.1-1, click the download button.
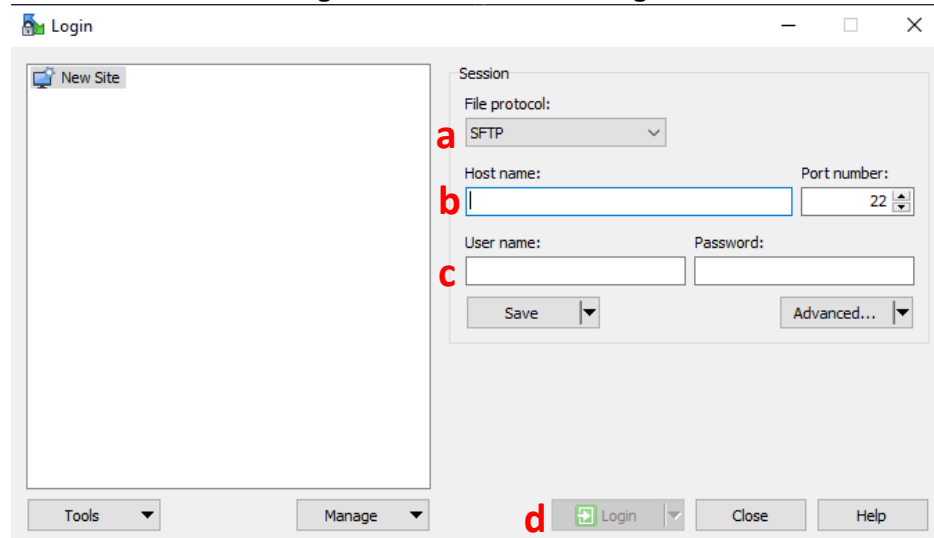
Figure 3.1-3 – WinSCP download

3) Run the executable downloaded.

1.2 – Logging in and transferring files using WinSCP

This section goes over the basics of logging into the AXC F 2152 as well as navigating and transferring files.

1) Open up WinSCP.
2) Once open make sure file protocol (a) is set to SFTP as shown in Figure 1.2-1.

Figure 1.2-1 WinSCP settings

3) Once these settings are correct, in the host name (b) type the IP address (192.168.1.10 is default), and the admin login credentials of your AXC F 2152 (c).
4) Click Login (d).
5) Once connected, the left side (a) is your local PC files, and the right side (b) is the AXC F 2152's files as shown in figure 1.2-2.

Figure 1.2-2 Files on WinSCP connection
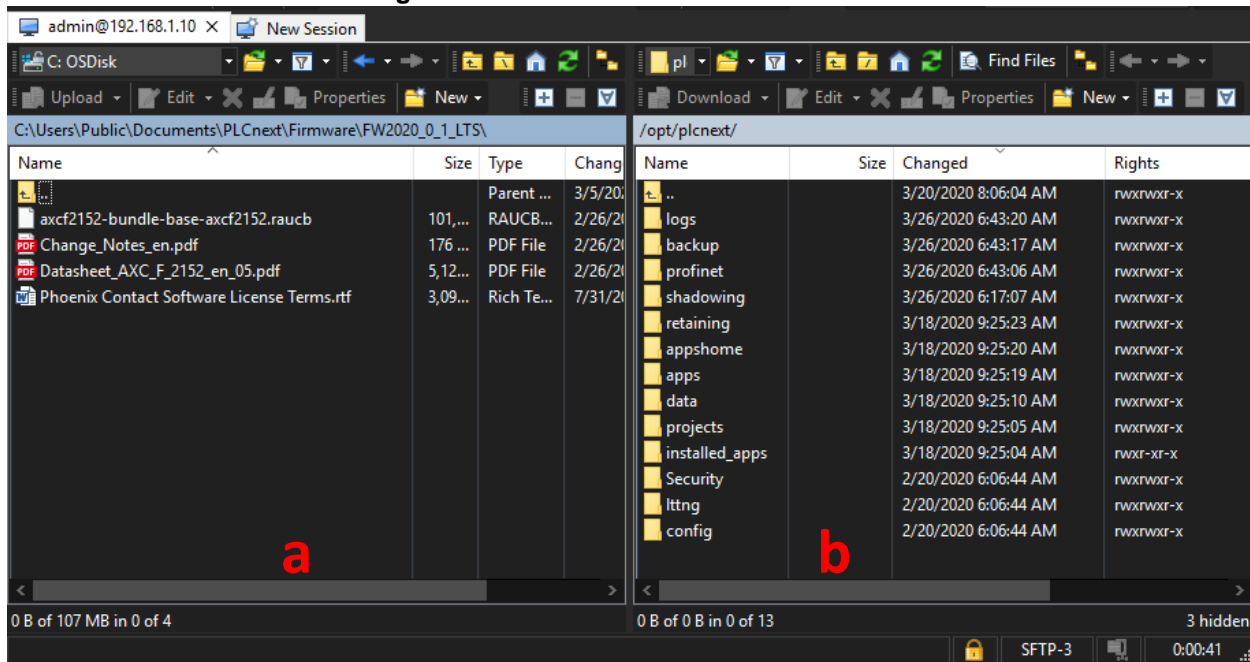
6) On the left side (a), is your PC's local file system. On the right side (b) is the AXC F 2152's filesystem.

7) To transfer a file from your PC to the AXC F 2152, drag and drop a file from the left to right (in empty space!), and a pop-up will show that the file is transferring as shown in figure 1.2-3.

Figure 1.2-3 Transferring files from your PC to the AXC F 2152
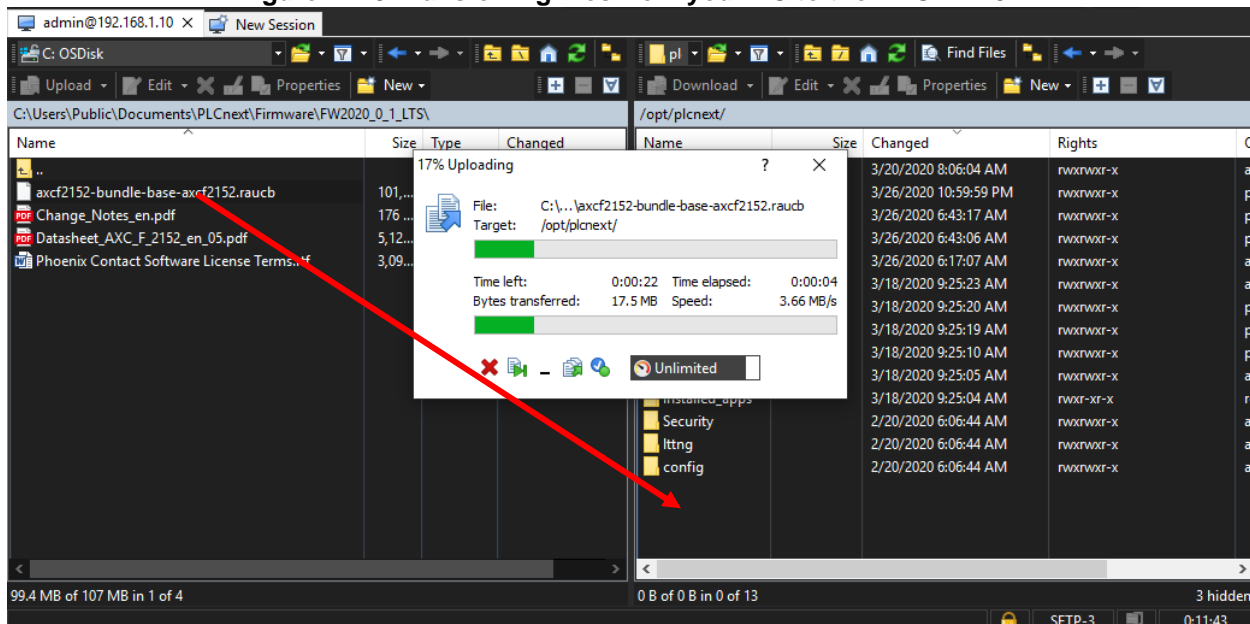
8) To transfer a file from the AXC F 2152 to your PC, drag and drop a file from the AXC F 2152 as shown in figure 1.2-4. A popup may show stating that it is copying as shown in figure 1.2-3, depending on the file size.

Figure 1.2-4 Transferring files from the AXC F 2152 to your PC
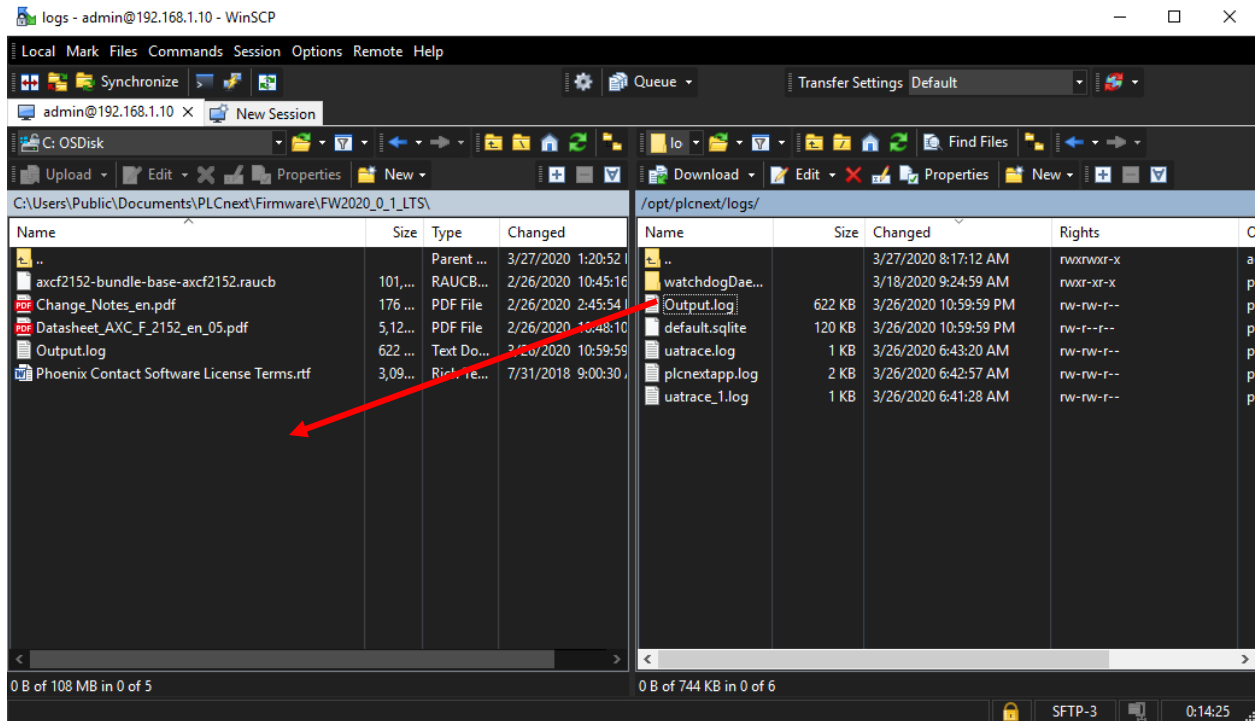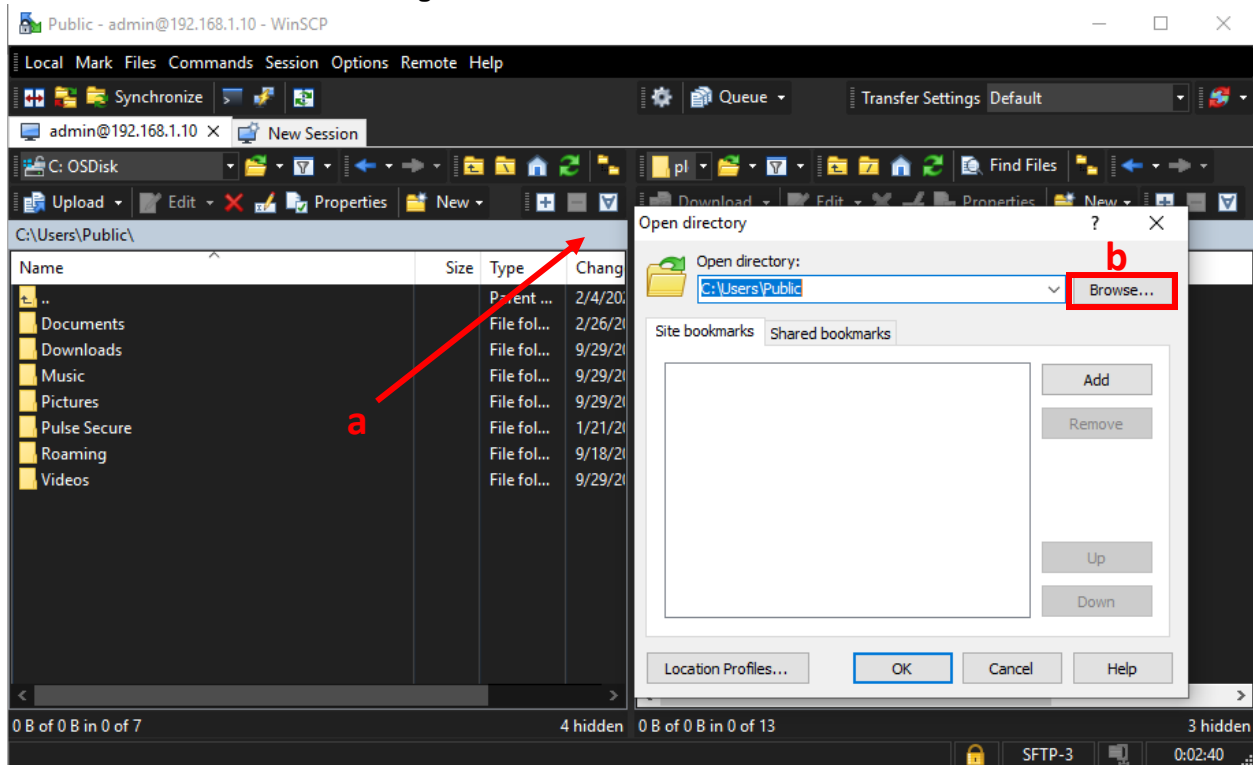

1.3 – Navigating the filesystems in WinSCP
This section goes over navigating the filesystems in WinSCP

1) To browse your local file system for a location, double click the blue bar(a) (not on the text!) then click browse (b) shown in figure 1.3-1.

Figure 1.3-1 How to browse local files

2) To navigate into a folder, double click the folder name.
3) To navigate back one folder, click the ..(a) or click the previous folder name in the blue bar (b) in figure 1.3-2.

Figure 1.3-2 How to go to an upper directory
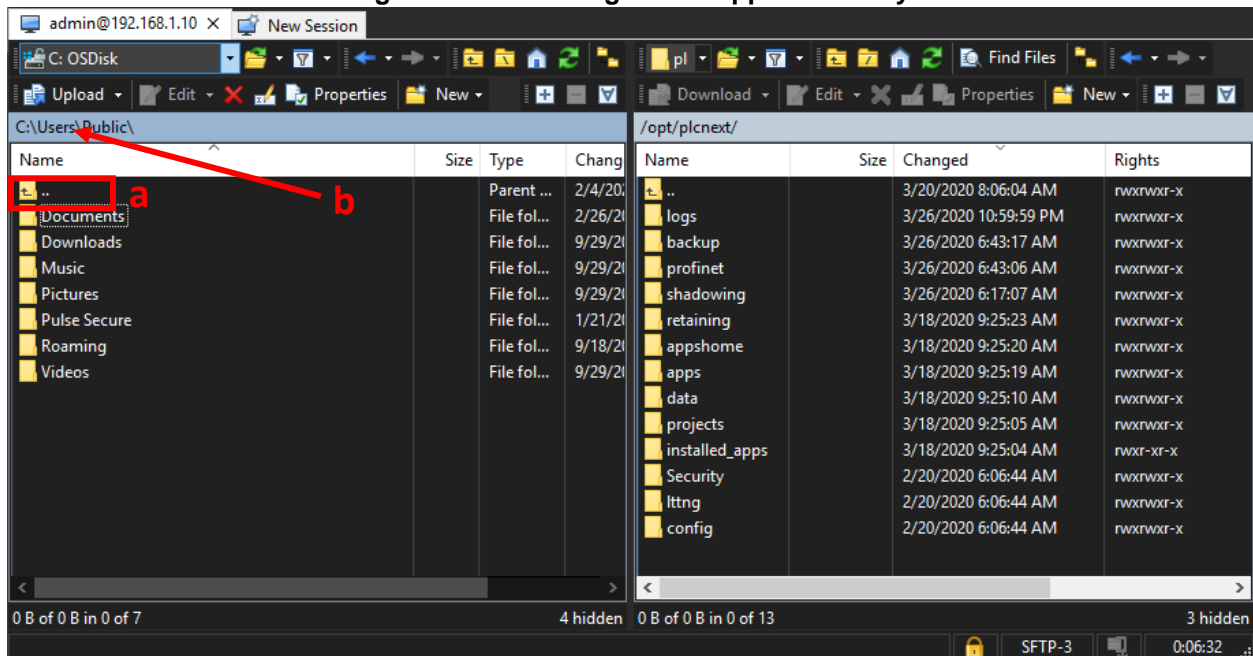
2 - PuTTY

This section will go over how to download and use PuTTY for an SSH session.

2.1 - Install PuTTY

1) To install PuTTY go to https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html
2) Click link a circled in red for a 32-bit system, and link b circled in red for a 64-bit system shown in figure 2.1-1.
   a. If you do not know what bit system you are running, follow the instructions here on how to check: https://support.microsoft.com/en-us/help/13443/windows-which-version-am-i-running
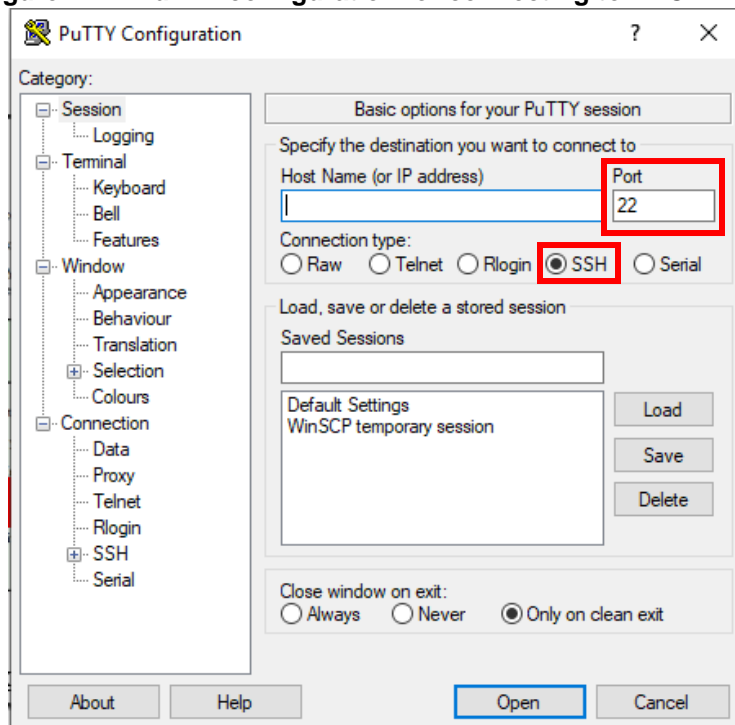
Figure 2.1-1 PuTTY installation website

3) Run the .msi installer and follow the steps.

2.2 – Opening a session in PuTTY

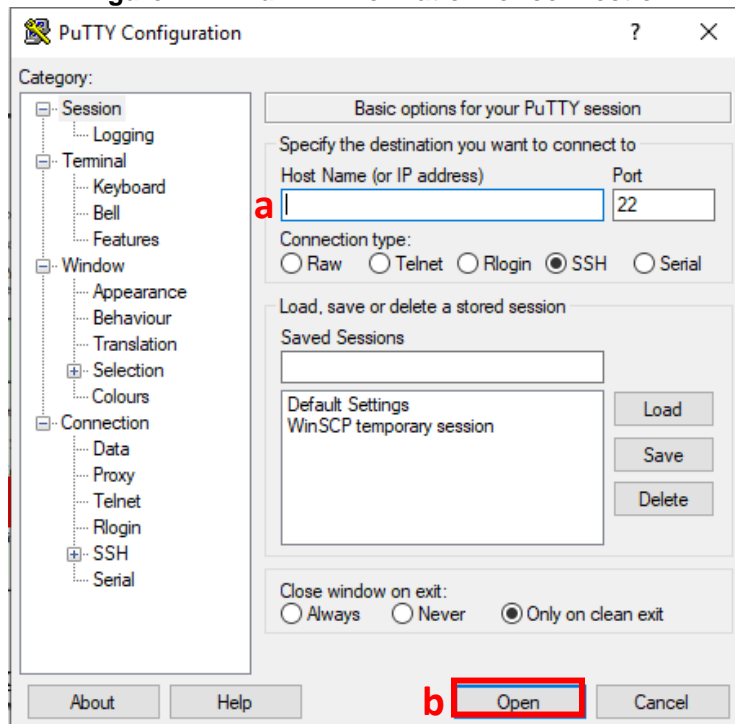In this section, we will go over how to open a session in PuTTY.

1) Open PuTTY on your PC.
2) Check and make sure the settings circled in figure 2.2-1 match.

Figure 2.2-1 PuTTY configuration for connecting to AXC F 2152

3) Enter the IP address of the AXC F 2152 (a) (192.168.1.10 default), and open (b) as shown in figure 2.2-2.

Figure 2.2-2 PuTTY information for connection

4) Once opened, enter the user "admin" then enter in the command line as shown in figure 2.2-3

Figure 2.2-3 Entering username in PuTTY


```
login as: admin
admin@192.168.1.10's password:
```
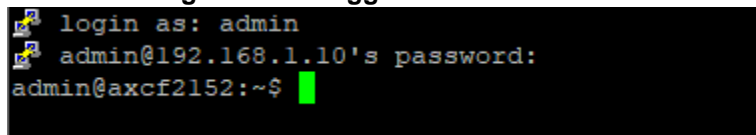
5) Enter the admin password (default is printed on housing) then hit enter.

NOTE: The password will not show and the cursor will not move!

6) If your screen matches figure 2.2-4 you are now logged into the AXC F 2152 via SSH.

Figure 2.2-4 Logged into AXC F 2152


```
login as: admin
admin@192.168.1.10's password:
admin@axcf2152:~$
```

To create a root user, refer to Appendix 4.

To learn basic commands in SSH, refer to Appendix 5.