b.- Client setup and usage

Usage

The servers can be used with various sftp clients as well as the native openssh sftp binary.

Two options are being explained – setup and connection with WinSCP client and connection using openssh sftp client binary.

WinSCP (for usage from Windows Desktop)

The client should be configured with previously generated private key.

WinSCP supports only PuTTYGen generated ppk keys but it can convert the normal ssh key to ppk format during the client setup.
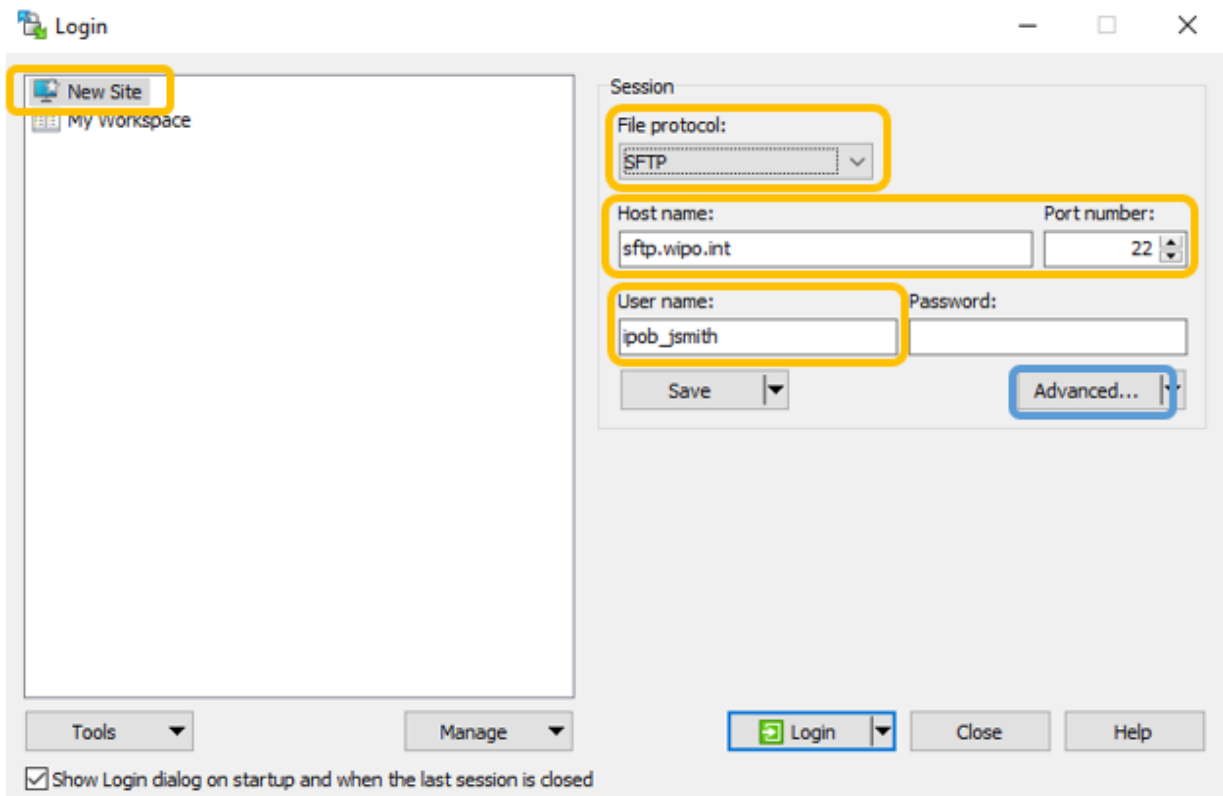
Detailed steps:

Step 1

- Open WinSCP and click on NewSite.

- Leave the Protocol (SFTP) and the Port (22) unchanged.

- Fill in the Hostname and the Username as provided by our support representative.

> ℹ️ Hostname: **sftp.wipo.int**
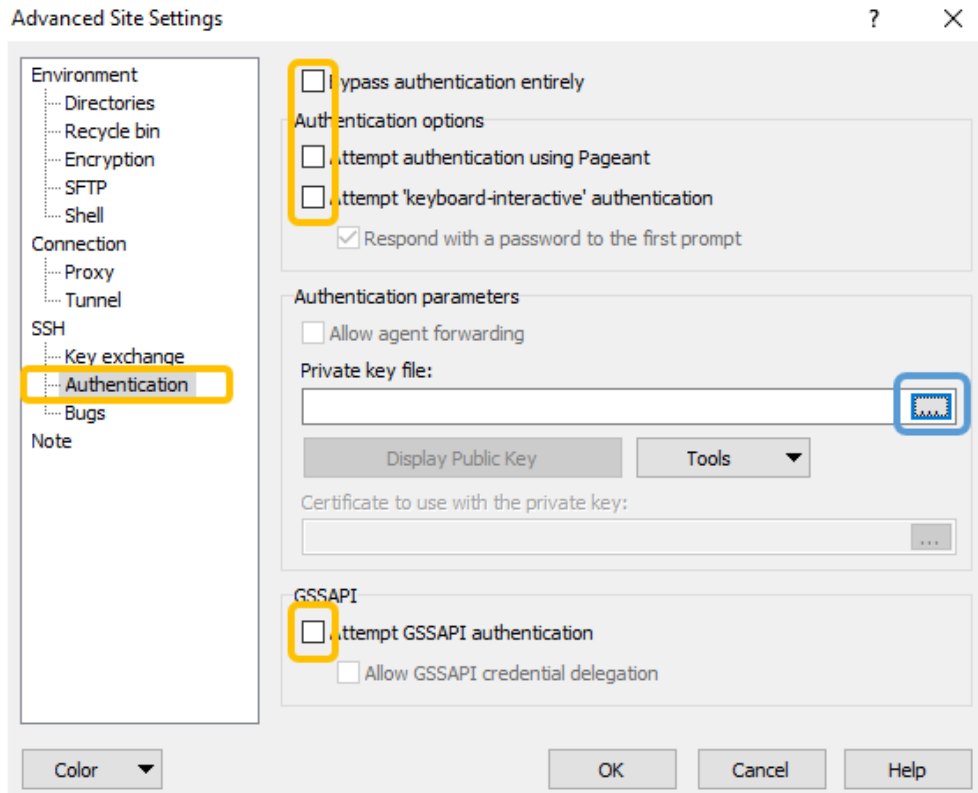>
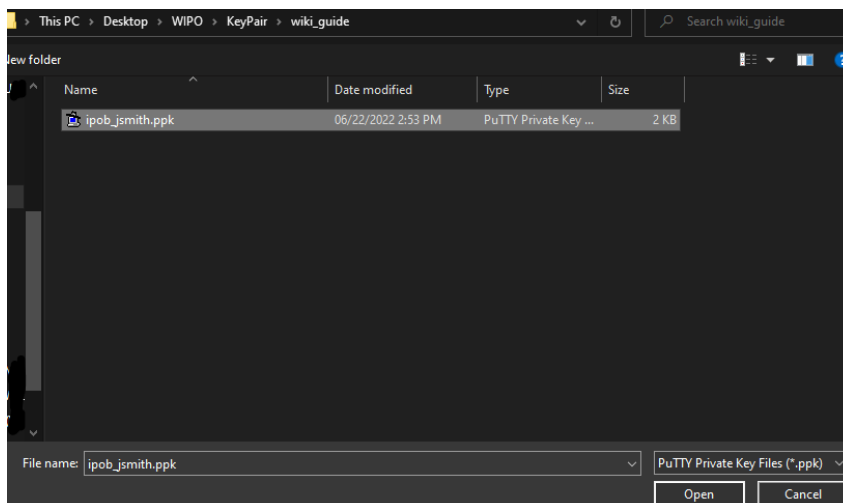> Username: ipob_<username>   (example: ipob_jsmith)

Step 2

- Click on Advanced (marked in blue above)
- Select SSHAuthentication

⚠ Remove all ticks in the boxes

Advanced Site Settings

Environment
    Directories
    Recycle bin
    Encryption
    SFTP
    Shell
Connection
    Proxy
    Tunnel
SSH
    Key exchange
    Authentication
    Bugs
Note

☐ Bypass authentication entirely

Authentication options
☐ Attempt authentication using Pageant
☐ Attempt 'keyboard-interactive' authentication
☑ Respond with a password to the first prompt

Authentication parameters
☐ Allow agent forwarding
Private key file:
[_____] [....]
[Display Public Key] [Tools ▾]
Certificate to use with the private key:
[_____] [...]

GSSAPI
☐ Attempt GSSAPI authentication
☐ Allow GSSAPI credential delegation
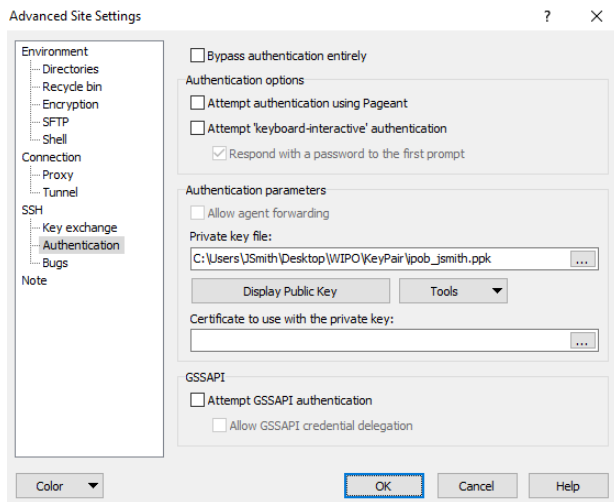
[Color ▾]　　　[OK] [Cancel] [Help]

Step 3

- Click on the field for Private Key (marked in blue above)
- Navigate to your key (the **private** half of your key pair). If the key is an openssh key then an option to convert it to putty key will be prompted - accept it.
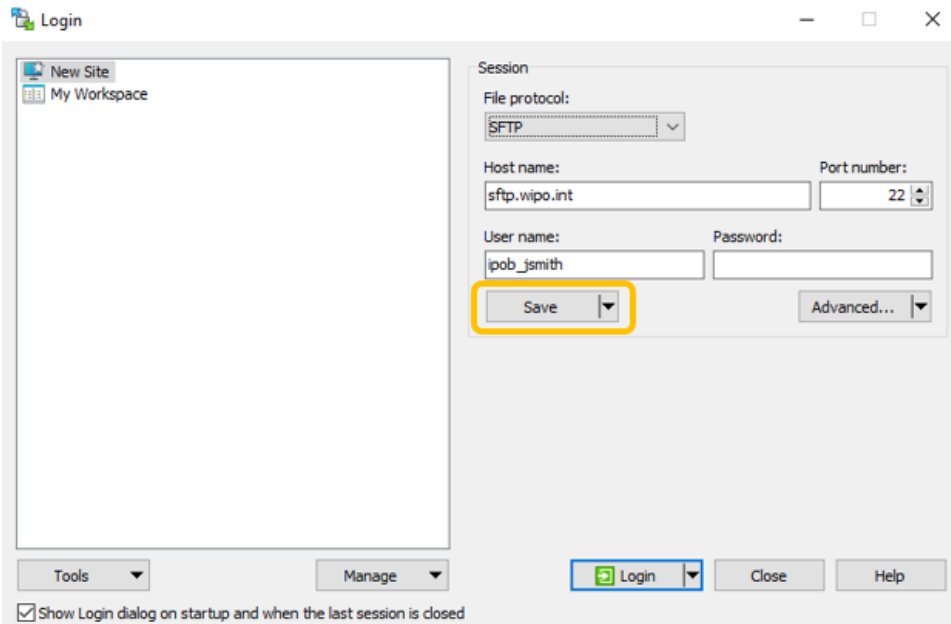
This PC › Desktop › WIPO › KeyPair › wiki_guide　　　⌄　↻　🔍 Search wiki_guide

New folder

Name	Date modified	Type	Size
🔑 ipob_jsmith.ppk	06/22/2022 2:53 PM	PuTTY Private Key ...	2 KB

File name: ipob_jsmith.ppk　　　⌄　　PuTTY Private Key Files (*.ppk) ⌄

[Open] [Cancel]

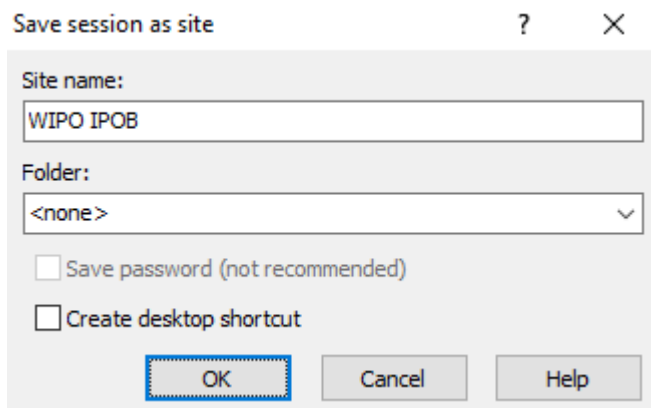- Click **OK** to save de advanced settings

Step 4

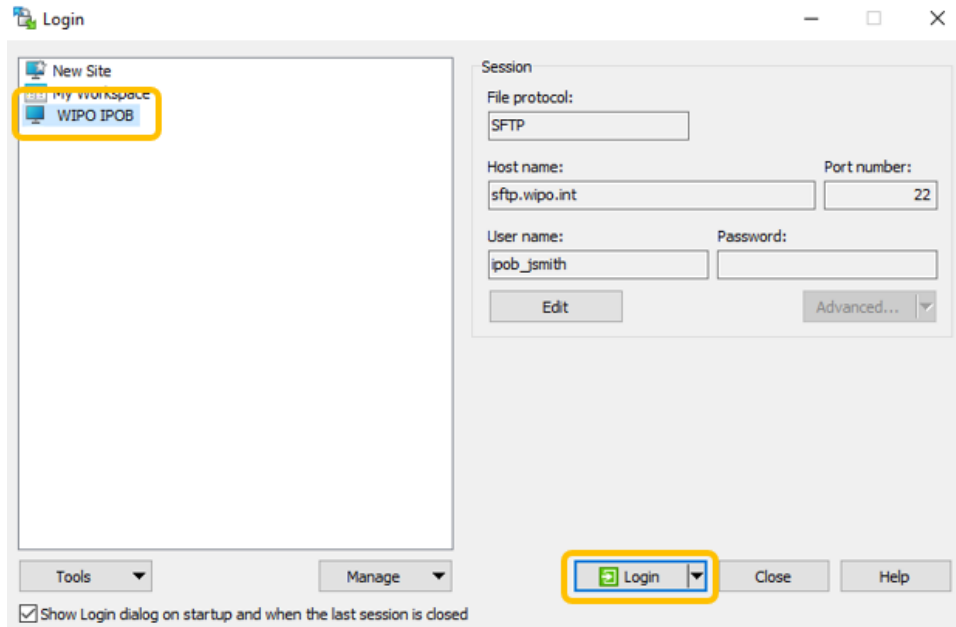- Click **Save** to save the selected configuration

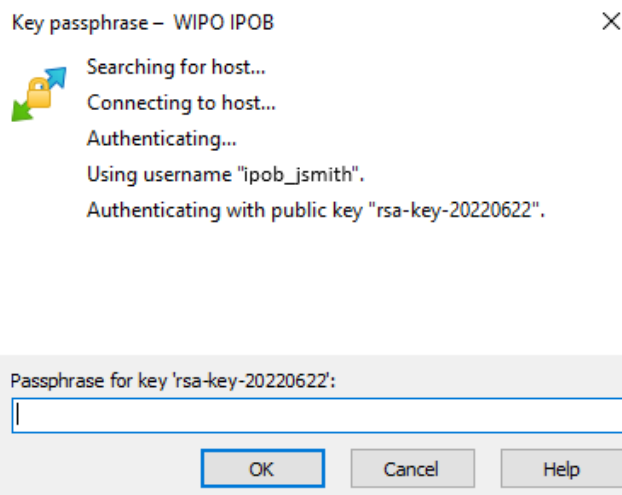- Select a name for the new site/connection, and then click **OK**

Step 5

- You may now select the newly created connection from the list, and click on Login to connect to it any time you need.

> ⚠️ **Key-pair password**
>
> If you used a password/passphrase when creating your SSH key-pair, a prompt will show asking for the "Key passphrase"

Step 6

Finished. You are now connected and may browse, upload or download files as needed.

Openssh SFTP binary (for usage from Windows10, Linux and MacOS)

The binary is installed by default with openssh package on Linux. On Windows 10 it is also part of the Operating System but should be enabled /installed first.

To connect to the sftp just use option to point to the private key and the correct credentials:

```
sftp -i /home/ipob_user/.ssh/ipob_jsmith.key ipob_jsmith@sftp.wipo.int
```

```
P:\>sftp -i C:\Users\ipob_user\.ssh\ipob_jsmith.key ipob_jsmith@sftp.wipo.int
The authenticity of host 'sftp.wipo.int (52.58.219.150)' can't be established.
RSA key fingerprint is SHA256:CIoTAPCQaH+kIU1AfTKG7Nfr9Axf8/iJnwduFz/Hv4I.
Are you sure you want to continue connecting (yes/no)?
Warning: Permanently added 'sftp.wipo.int,52.58.219.150' (RSA) to the list of known hosts.
Connected to ipob_jsmith@sftp.wipo.int.
sftp>
```