Instruction on transferring data from Raspberry Pi cluster to Cyverse

SFTP enables data access from a variety of computing environments.

Step 1: Connect to Cyverse from Raspberry Pi cluster.

Command line: sftp -vv 3dscanner@data.cyverse.org

CyVerse Account for the scanner: 3dscanner

Password: 3DScannerForbes131

Step 2: create a remote folder on Cyverse to store the data.

cd 3dscanner/

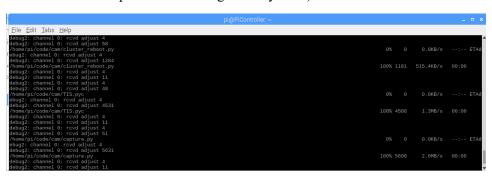
mkdir test/ ("test" can be any legal folder name in Linux system)

Step 3: Upload the local folder to the remote folder created on Cyverse.

put -r /home/pi/code/cam/2023-11-08/ /3dscanner/test/

("/home/pi/code/cam/2023-11-08/" is the path of images on Raspberry Pi, Controller Pi)

/3dscanner/test/" is the path to store images on Cyverse)



Step 4: Type "exit" to disconnect from sftp connection.

Reference

Available SFTP commands

command	description
cd path	Change remote directory to path
1cd path	Change local directory to path
pwd	Display remote working directory
lpwd	Print local working directory
ls [-1afhlnrSt] [path]	Display remote directory listing
lls [ls-options] [path]	Display local directory listing
mkdir path	Create remote directory
lmkdir path	Create local directory
rmdir path	Remove remote directory
rm path	Delete remote file
rename oldpath newpath	Rename remote file
get [-afpR] remote [local]	Download file
put [-afpR] local [remote]	Upload file
version	Show SFTP version
help	Display help text
exit	Quit sftp