File transfer from analysis cluster

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Introduction

After reducing the data files with any of the following methods
- via scripts run in the terminal window,
- via mantidworkbench or
- via jupyter notebooks

the reduced files can be transferred from the analysis cluster to your personal computer. The content of the document is also explained through a tutorial video: https://www.youtube.com/watch?v=e01ac0Nz6DQ

Below please find the step-by-step description of the procedure.

1. **Visit analysis.sns.gov**

   a. Log in with your xcams ID and password (IPTS system username and password)

2. **Zip and send the selected data files**

   a. Open a terminal

   b. Access the folder where the reduce files were saved with the use of:

      cd /SNS/EQSANS/IPTS-yourIPTSnumber/shared

   c. Data can be zipped with the zip command. E.g. zipping all the files containing the word merged can be done via:

      i. zip data.zip merged*

   d. The zipped file can be mailed to yourself with the title "data from IPTS-yourIPTSnumber" via:

      i. echo "data from IPTS-yourIPTSnumber" | mail -s "title" -a data.zip youremail@email

      ii. mail -s "title" -a data.zip youremail@email <<< 'This is the email text'

3. **Alternative solution. Use the freely available WinSCP client**

   a. Download the WinSCP client from https://winscp.net/eng/index.php

   b. Install the software

   c. Open the program, you will see a login window as below
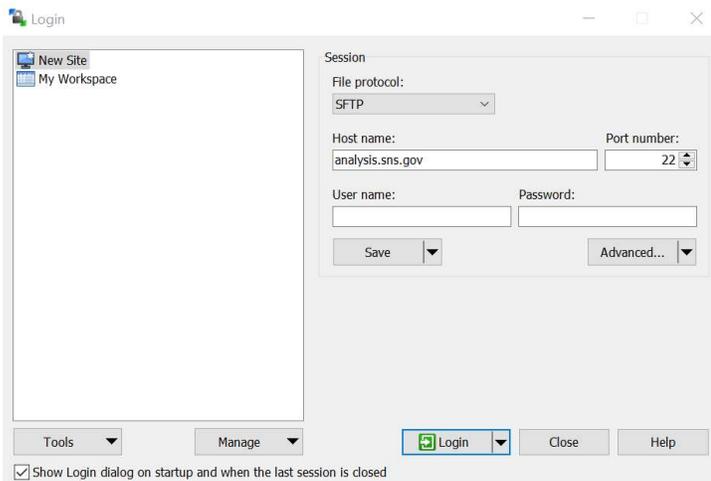
   d. For hostname use analysis.sns.gov

   e. For username and password use your xcams ID and password

   f. Access /SNS/snfs1/instruments/EQSANS/IPTS- yourIPTSnumber/shared

g. Access the folder selected during data reduction and copy the files of interest to your computer

h. The + button above the analysis cluster side of the window will allow you to select files containing a specific textSsegment via typing *textSegment* into the window

4. **FileZilla is another popular software for FTP/SFTP file transfers**

    a. It can be downloaded from https://filezilla-project.org/

    b. To connect to analysis cluster

        i. Click on Edit->Site manager, on the left panel click on new site

        ii. On the right panel:

            1. Protocol: SFTP

            2. Host: analysis.sns.gov in Host

            3. User & Password: xcams username and password

            4. Connect