Data download from NECAT by using Sync Script

To retrieve your remotely-collected data from NECAT, you can use the sync script. Please be aware that this script is only compatible with Python3. Using it with Python2 will result in an error message.

Initiating the Download:

- 1- Navigate to the NE-CAT Remote GUI homepage.
- 2- Click the 'sync' button next to the session you wish to download. This will download the sync script to your local machine.

Group 🔺	Inst 🏫	Line 🔺	Start ^	Finish 👻	Directory	Support	Options
NE-CAT	Cornell University	E	2023-02-03 10:27 CST	2023-08-01 09:00 CDT	/gpfs2/users/necat/necat_E_6954	Jon Schuermann	Sync coserve Control Edit Delete

Running the Script:

- On Linux or Apple systems, open a terminal window.
- Use the command: python <name of script>.py
- By default, this command will display the options page. With this new script, we do have new features, please read all the options and examples.

sync_v3.0.2.py							
usage: sync_necat_E_7152.py [-h] [-a] [-d] [-r] [-m] [-q] [-t]	ARGET] [test] [runsinterval RUNSINTERVAL] [snapsinterval SNAPSINTERVAL]						
Sync files from necat							
snapsinterval SNAPSINTERVAL							
Examples: python sync_necat_E_7152.pytest python sync_necat_E_7152.py -a python sync_necat_E_7152.py -a -r python sync_necat_E_7152.py -a -r -m python sync_necat_E_7152.py -a -t(mp/myfiles python sync_necat_E_7152.py -a -d	Test transfer of all files, no files synced Sync all files once Sync all files repeating Sync all files repeating in multiple threads [NB: experimental] Sync files once to /tmp/myfiles directory Sync specific files by selecting them from a file tree						

Downloading Specific Data:

- Warning: If your rsync version is outdated, you will get a warning and this option will not work.
 To Upgrade rsync:
 - Install HomeBrew from <u>https://brew.sh/</u>
 - Open terminal and run "brew install rsync"
 - Source to rsync "/opt/homebrew/bin/rsync"

- Use the '-d' option to selectively download data rather than the entire session. This allows you to pick specific files or directories from your session directory tree.



- Example: To view the directory tree of your session, use
- python sync_necat_E_6954.py -da

From the displayed tree, select the desired files or file numbers (e.g., 6, 8) to initiate their download. Should the transfer be interrupted, you can easily resume by restarting the script from its last position. It will pick up from where it left off.

Targeted Directory Download:

• Utilize the '-t' option for downloading data from a specific directory. For guidance, consult the 'Example' section at the start of the script or use the '-h' option to access examples.

Important Note:

The sync script you download has a 72-hour expiration. Should you require data retrieval after this expiration:

- 1. Navigate back to the NE-CAT Remote GUI.
- 2. Re-download the sync script. This process will reset the expiration timer.