CLI - Exercise 04: Tar

Exercise 04 – WinSCP and tar

1. Using **Putty**, login to our shared server - https://www.putty.org/
   a. connect the NBCC VPN *(required if you are NOT on campus)*
   b. the server IP address is 10.157.121.244
   c. your username is in the Announcements for this course, on Brightspace
   d. your password is your NBCC StudentID
2. Create a sub-directory under your *home* directory, called **shell-scripts**

3. Download & install **WinSCP** - https://winscp.net/
   (you can use another tool, if you wish)
4. Using WinSCP, connect to our shared server (same credentials as Step 1)
5. Copy the following .SH files from your windows machine to the shared server
   (under your <u>shell-scripts</u> directory)
   a. from Assignment 02 – copyPrompt.sh
   b. from Exercise 02 – wordCount.sh, safeCopy.sh, checkPermissions.sh

6. Returning to Putty, create a **new shell script** (shell-scripts/**submitTar.sh**), which does the following:
   a. Create a single TAR file containing all files from the shell-scripts directory
      (ensure the tar file is NOT created in the shell-scripts directory)
   b. If the tar command fails, exit the script
   c. Create a shell variable to define the destinationFileName
      DestinationDirectory: "/home/cli-shared"
      DestinationFileName: "Ex04-" + {your username} + ".tar"
                                 (HINT: use the command 'whoami')
   d. If the destinationFileName <u>already exists</u>, display an error message and exit the script
   e. Otherwise, the script should copy your TAR file into the "cli-shared" directory
7. Execute this script !
8. Confirm that your script executed properly (`ls /home/cli-shared`)
9. Use the command "`tar tvf`" to ensure that that the 'tar-ball' contains all 5 .sh files, and that it does NOT contain files with a full path (see below)
10. Finally, submit the <u>new script</u> (submitTar.sh) to the BrightSpace Dropbox
    (You will have to rename your .sh file to .TXT before BrightSpace will permit the upload)

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NOTE: The goal is to create a TAR file with only file names (no directories)

```
chris@nb-srv-lcl2:~$ tar tvf scripts1.tar
-rw-rw-r-- chris/chris     371 2025-02-19 01:51 checkPermissions.sh
-rw-rw-r-- chris/chris    1077 2025-02-19 01:51 copyPrompt.sh
-rw-rw-r-- chris/chris     365 2025-02-19 01:52 safeCopy.sh
-rwxrwxr-x chris/chris     336 2025-02-19 01:12 submitTar.sh
-rw-rw-r-- chris/chris     593 2025-02-19 01:51 wordCount.sh
chris@nb-srv-lcl2:~$
```

OR, file names under a single directory

```
chris@nb-srv-lcl2:~$ tar tvf scripts2.tar
-rw-rw-r-- chris/chris     371 2025-02-19 01:51 shell-scripts/checkPermissions.sh
-rw-rw-r-- chris/chris    1077 2025-02-19 01:51 shell-scripts/copyPrompt.sh
-rw-rw-r-- chris/chris     365 2025-02-19 01:52 shell-scripts/safeCopy.sh
-rwxrwxr-x chris/chris     336 2025-02-19 01:12 shell-scripts/submitTar.sh
-rw-rw-r-- chris/chris     593 2025-02-19 01:51 shell-scripts/wordCount.sh
chris@nb-srv-lcl2:~$
```

DO NOT submit a tar file with full path names !!!

```
chris@nb-srv-lcl2:~$ tar tvf scripts3.tar
-rw-rw-r-- chris/chris     371 2025-02-19 01:51 home/chris/shell-scripts/checkPermissions.sh
-rw-rw-r-- chris/chris    1077 2025-02-19 01:51 home/chris/shell-scripts/copyPrompt.sh
-rw-rw-r-- chris/chris     365 2025-02-19 01:52 home/chris/shell-scripts/safeCopy.sh
-rwxrwxr-x chris/chris     336 2025-02-19 01:12 home/chris/shell-scripts/submitTar.sh
-rw-rw-r-- chris/chris     593 2025-02-19 01:51 home/chris/shell-scripts/wordCount.sh
chris@nb-srv-lcl2:~$
```