**Blue Waters Petascale Semester Curriculum v1.0**

**Unit 3: Using a Cluster**

**Lesson 4: Copying Code to a Cluster**

**Exercise Instructions for Students**

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*We want to hear from you! Please let us know your experiences using this material by sending email to* [*petascale@shodor.org*](mailto:petascale@shodor.org)

1. Try transfering a file to a cluster using the WinSCP client and viewing its contents using the ‘nano’ editor (or similar) in a ssh terminal connected to the cluster.
2. If the file contents look weird, try running the ‘dos2unix’ if you created the file on a windows machine (or ‘mac2unix’ if created it on a mac) command on it, and view it again. Even if the contents do not look weird, practicing using the ‘dos2unix’ command on the file will not hurt anything.
3. Make a modification in the file using the ‘nano’ editor (or similar) in a ssh terminal, save it and then transfer the file back to your computer. Open the file with a text editor, like Notepad (or similar), and confirm that you’ve received the updated version of the file.
4. Try creating an empty file using the ‘touch’ command in a ssh terminal connected to the cluster. Then open it using the ‘nano’ editor (or similar) in a ssh terminal connected to the cluster and paste some code into it copied from your machine. Save the file, and then re-open it using the ‘nano’ editor (or similar) in a ssh terminal connected to the cluster, in order to confirm that its contents have been updated.