Accessing Great Lakes

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Great Lakes is U of M's high-performance computing (HPC) cluster. Users can request up to 180 GB of RAM and up to 36 cores on the *standard* partition and up to 1503 GB of RAM and up to 36 cores on the *largemem* partition. Batch processing can be run using the Slurm scheduler via a command line terminal session or users can log in interactively to use a number of applications such as RStudio and Visual Studio Code.

A. Via Terminal

1. Open the Terminal app (this is the Windows Terminal app on a PC)
   **If you are working on a personal device, you must be logged into the the VPN.
2. Type in ssh your_uniqname@greatlakes.arc-ts.umich.edu replacing your_uniqname with your actual uniqname.
3. Enter your level 2 password
4. Enter "1" for DUO security

B. Via Interactive Session

1. Navigate to https://greatlakes-oncampus.arc-ts.umich.edu/pun/sys/dashboard/
   **If you are working on a personal device, you must be logged into the the VPN.
2. Select the **Interactive Apps** tab on the banner
3. Select the app you would like to use from the dropdown to open the session request page.
   - RStudio will open an RStudio session connected the Great Lakes cluster which will allow you to utilize a large amount of memory and cores.
   - Basic Desktop will open a virtual machine with a linux desktop and Firefox browser available. You can also run RStudio in the interactive desktop. This gives more flexibility. Keep in mind that using other applications counts towards the memory allotted for the session. Thus, if you are expecting to do memory intensive things aside from RStudio, request a bit more memory.
   - The other app options function the same as RStudio.
4. On the session request page enter the necessary information
   - Slurm account – this is the account of the PI. Should be the PI's uniqname followed by a 0 or 99, e.g., *clyssiot0*. Only the accounts you have user rights to will show up in the dropdown menu.
   - Partition – This should *standard* for the majority of use applications.
   - Node List – Leave blank.
   - Number of hours – However many hours you intend to work. The more time you ask for the longer the delay may be to start.
   - Number of cores – This will vary depending on what you are working on. 5-12 is a reasonable range.
   - Memory – This will vary depending on what you are doing. 32-56 is a reasonable starting range.

- Software licenses requested for this job – Can be left blank most of the time. You'll need to be aware of what software packages you plan to use and check for licensing if necessary.

5. Click *Launch* and wait for session to start.