Introduction to Linux & HPC on Biocluster (Fall 2017)

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Day 1: Introduction to Linux

Date: October 25th, 2017, 9 am – 12:30 pm

Instructors: Jessica Holmes (HPCBio), Jenny Drnevich (HPCBio)

Location: 607 IGB

Class Materials:

Plan A:

- Presentation: Linux-Oct2017.pptx

Plan B:

- Presentation: Linux-Oct2017-planB.pptx
- Practice files: unix_exercise.zip

Additional files:

- Class Video: HERE
- Linux cheat sheet: LinuxCheatSheet-v2.xlsx
- Appendix: Linux_appendix.docx
- Exercise 3: exercise3-blank.pptx
- Exercise 3 answers: exercise3-answers.pptx

Self-guided tutorials for Linux beginners

- Tutorial from the book UNIX and Perl to the RESCUE!
  - Parts 1 and 2 cover UNIX
  - http://korflab.ucdavis.edu/Unix_and_Perl/current.html#part2
- SIB tutorial
  - If it asks you to log in, just log in as a "guest user"
  - Click on "UNIX elearning module" at the bottom to get started

Linux Terminal Software

- Windows users:
  - MobaXterm: http://mobaxterm.mobatek.net/
  - PuTTY: http://www.putty.org/
- Macintosh users:
  - You can use the pre-installed program "Terminal" by going to Applications -> Utilities -> Terminal.
Day 2: HPC on Biocluster

Date: October 27th, 2017, 9 am – 12:30 pm
Instructors: David Slater (CNRG), Jessica Holmes (HPCBio), Jenny Drnevich (HPCBio)
Location: 607 IGB

Class Materials:

- Biocluster presentation: Fall_Workshop_2017_IntroToBiocluster.pptx
- FASTQC presentation (optional): FASTQC-Oct2017.pptx
- Class Video: HERE

Biocluster2 Resources
- Biocluster2 help page
- Campus cluster help page
- How to obtain a Biocluster2 account
- SLURM job script generator