Welcome to Academic and Research Computing (ARC) User Documentation

- Getting Started
- SEAS Login Server (how to access the SEAS compute resources)
- How To Connect (including info on how to set up your SSH keys)
- Shell, Environment, and Modules (how to load application software using the ‘module’ command)
- Overview of Compute Resources

For help and in-person appointments contact us at: help@seas.harvard.edu

For info on IT issues visit http://www.seas.harvard.edu/computing-office

Site Map

- SEAS Compute Environment
  - Getting Started
  - Recovering Deleted Data
  - Using Scientific Software
    - Lumerical on the FAS Odyssey cluster (SEAS users only)
    - How to run Comsol on FAS Odyssey (SEAS users only)
    - How to run ABAQUS on FAS Odyssey (SEAS users only)
    - How to use Matlab Parallel Computing Toolbox
    - OpenFoam on Odyssey and Linux Desktop
    - OpenFOAM - Modeling Basics
  - Connecting to your SEAS storage hosted in FAS RC
  - Setting up SSH Access to SEAS Hosts on Windows machines
  - SSH Access to SEAS Hosts
  - Using SEAS VPN
- AWS Cloud
  - How To use the CS50 Appliance in your AWS environment
  - AWS Educate
- High Performance Computing
  - Linux Workshop (Bytes & Bites CEE workshop) --- materials
- Collaboration and Instructional Tools
  - Multimedia for the Classroom
  - Version control
    - About Version Control Systems
    - SEAS Code Repository
- Getting Started with code.seas
- Advanced Features of code.seas
- SEAS Code Repo Troubleshooting and FAQ
- Using the SEAS Code Repository For Courses
- Using the SEAS Code Repository For Research
- Introduction To GIT
- Gitosis source code management
- Introduction To Subversion
- Academic Computing Subversion service
- Add External User/collaborator to OpenID for code.seas authentication
- GIT Version Control

**Talks, Workshops and Tutorials**

**Talks**
- Parallel Programming (30)
- Best Practices for Linux Security
- Debugging and Profiling
- TotalView Parallel Debugger

**Workshops**
- Python Workshop - Basics (September 17, 2018)
- Python Workshop - Numerics (September 18, 2018)
- Introduction to Programming in Python (Computefest 15 - January 13, 2015)
- Introduction to Programming in Python (February 2, 2015)
- Introduction to Matlab (February 3, 2015)
- COMSOL tutorial for classes (Heat Transfer -- February 23, 2015)
- Introduction to Machine Learning (ML) with Python (March 31, 2015)
- Workshop on Simulation via COMSOL (01/20/2016, 01/21/2016)
- COMSOL tutorials for ES 176/ES 276
- Python Workshop Basics (Older -- 2014)
- Python Workshop - Numerics (older)
- Introductory Python Tutorials (09/17/18 and 09/18/18)
- Python Tutorial (Spring, 2019)

**Training Material**
- GPU Computing (AP 278)
- GPU Computing (CS 205)
- Matlab Tutorial
- Parallel Programming
- Python Tutorials
- Source code version control
- Spark on Amazon EMR (for CS 205)
  - Working on the EMR cluster (CS 205)

**Unix**

**Documentation Overview**

**How-to articles**
- How to manage a Google Group
- How to manage Sharepoint folder permissions
- How to map a drive to SharePoint online
  - alternative way to map a drive to Sharepoint Online
- Issues Mapping a drive to Sharepoint Online
- How-to obtain the IP address of your system
- How To obtain the MAC address from your system
- How to register a computer on the Harvard wired network
- How to sync Sharepoint libraries with OneDrive
- onboarding/offboarding cheat sheet

**EECS**
- Migrating www.eecs.harvard.edu to AWS

**SEAS VDI Instructions**
- Migrate to Harvard Enterprise GitHub (code.harvard.edu)
- SEAS Dropbox eligibility table
- Introduction to Cloud Computing