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](mailto:help@seas.harvard.edu)

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