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
    - Open Source (OS) Engineering Software
    - 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)
    • Python Workshop
    • Python Workshop - Basics (September 4, 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 install Google File Stream
  • 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
• SEAS community Zoom resources
• Mobility Network
• Labmaps iframe test
• Accessing Pierce 12A Computers via Windows Remote Desktop (RDP)
• FASOnDemand VDI instructions (for Solidworks, Comsol, Abaqus)