Linux in the CIS UGC Lab, COE CIS TECH IT Help

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Linux Servers

All Linux hosts in UGCLab run Ubuntu 16.04 Server and are accessible via SSH from a system on Cornell networks (such as RedRover) or Cornell VPN.

Use your Cornell NetID and password to login:

Connect via SSH to: ugclinux.cs.cornell.edu

Your Linux home directory is accessible from any of the above Linux hosts.

Clean Home Directory at Semester End
Students should copy or delete their files in home directories at the end of each academic year. If you need assistance copying files off the server, please submit a Help Desk ticket.

Most applications are installed in /bin, /usr/bin, /usr/local/bin, and /usr/X11R6/bin. Additional applications may be installed per request in /usr/local/bin lib man..., which is a volume shared among the hosts. Note that we will only accept software installation requests that are related to coursework or projects.

You may use the following commands to add additional application path, e.g. /usr/local/smlnj/bin, to your default path:

$ PATH=/usr/local/smlnj/bin:$PATH; export PATH (for Bourne shell)
% setenv PATH /usr/local/smlnj/bin:$PATH (for C-shell)

Your default shell is /bin/bash.

If a different default shell is required for your course work, please contact us to change your default shell.

The following user resource limits are in effect on UGC Lab Linux machines:

- cputime 12 hours
- memoryuse 1 GB

Depending on your default shell, you can use 'ulimit -a' or 'limit' to display your resource limits. If your jobs need longer cputime, you can set your resource limit accordingly, in your .bashrc (for bash) or .cshrc (for csh), and relogin to get the new parameters in effect.

Virtual Machine (VM) Information

cs-vm-sp2018 is a virtual machine image (created in VirtualBox) that mimics the UGC Lab Linux servers. Some software, such as MATLAB, requires licenses that prevent us from distributing them, so this image is not an exact replica.

- Acquiring the VM image
  - Down from Cornell Box Servers:
    - Command-line only version: https://cornell.box.com/s/4douqty0dcw700k10qtp168g16vj3g2
• Opening the VM
  • Download and install VirtualBox: [https://www.virtualbox.org/wiki/Downloads](https://www.virtualbox.org/wiki/Downloads)
  • Launch the .ova to begin import into VirtualBox.

• Log in to the VM
  • After the VM is up and running, you can log in. The username and password is: \textit{vm}

• Share Files from computer with VM
  • In Virtual Box, click Devices Menu->Shared Folders->Shared Folder Settings
  • In Shared Folder window, Click Folder+ icon on right
  • In Add Folder window:
    • Folder path: browse to folder on your computer you want in the VM
    • FolderName (for example): HostDownloads
    • Check \textit{Auto-mount, Make Permanent.}
    • Click OK to add then, Click Ok to close Shared Folder window
  • Back in the VM, open terminal and run:
    • sudo adduser vm vboxsf
    • sudo reboot
  • After reboot, folders will show under /media/