

Elephant Server Reference Guide

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ABOUT THE SERVER

Elephant is a Sun Fire X2200 M2 server with 64 GB RAM. This is an 8 core system: two quad core AMD Opteron 2384 chips. It is running Ubuntu 15.04 with g++ version 4.9.2. This server is property of the University of Michigan's EECS department and is considered an academic resource.

ACCESSING THE SERVER

1. Access to the Elephant server requires system privileges, which are given the EECS Departmental Computing Organization (DCO) located in rooms 4401 and 4403. At the time of writing this, Don Winsor (don@umich.edu) would be the best contact in DCO to grant system privileges to the Elephant server.
2. User authentication uses your umich username and associated password. To log on, open your command prompt and enter the command
`ssh <username>@elephant.eecs.umich.edu`
3. You should then be prompted for your password, and upon entering it have access to the server.

TRANSFERRING FILES

Transferring files between servers often requires the use of some external Secure File Transfer Protocol (SFTP) software. Two recommendations that I can make are FileZilla and Sublime Text 2. Github may also be used for this purpose.

- Filezilla requires you to enter a host, username, and password in order to connect. You are then given a visual file structure for both your local and remote directory, allowing for easy transfer. The fields are as follow:
 - Host: elephant.eecs.umich.edu
 - Username: <username>
 - Password: <your umich password>
- Sublime Text 2 is a text editor that allows for plug-ins such as SFTP utilities, which allow you to synchronize your source files in both your local and remote directories. In order to upload to a server, you must first install the plug-in and then take the following steps:
 1. Go to File->Open Folder and select the folder you wish to upload
 2. Right-click that folder in the Sublime Text sidebar and select SFTP/FTP->Edit Remote Mapping
 3. In the new sftp-config file that appears, edit the host, user, and password fields with the same information used in the FileZilla example
 4. Edit the remote path field to reflect where you want the directory to be uploaded on the server (e.g. "/home/morrimax/SURE/DES_Supervisor"). NOTE: this remote directory must exist for file upload to occur, so you may have to use the mkdir (make directory) command in the elephant server to create the directory.
 5. Right-click the parent directory again and select SFTP/FTP->Upload Folder