Remote Login to Departmental Machines

DUO has been installed on all of the lab machines in 1D39 and 3D22. While on campus and connected to the hardwired building network there will be no change in the previous remote access (SSH) method. While working remotely or on the wireless network you will be required to use two-factor authentication.

1. Secure Shell (SSH)

SSH is a UNIX-based command interface and protocol for securely getting access to a remote computer. I will not spend a lot of time discussing SSH because it is a technology that has been around for some time and there are numerous resources online that serve as an introduction to SSH.

To connect to one of the Department machines (assuming you are on the local intranet) the following command should allow you to connect to one of the Linux workstations.

```
ssh -l [username] -p [port] [hostname]
```

- The `username` is your university username.
- The list of available `hostnames` can be found at the following:
  `https://cse.sc.edu/resources/workstations`. Note that you may be required to login using your cse credentials to access this webpage.
- The Linux workstations have ssh access over `port 222`. This **differs** from the default ssh port of 22.

2. Duo - Two Factor Authentication

Duo Security is a company that provides security solutions and is of special interest to the University because it allows the university to perform Two Factor Authentication when someone tries to access our systems. Two-factor authentication adds a second layer of security to your online accounts. Verifying your identity using a second factor (like your phone or other mobile device) prevents anyone but you from logging in, even if they know your password.

If you have not used the University's Duo system before you will need to complete the following steps to complete your initial enrollment. I imagine many of you have been using this technology unbeknownst. Google, Facebook, and other large tech companies have been using Duo for their security verification.

If you have not configured Duo previously,

You will need to go to:
    `https://my.sc.edu/vipid/claim/`
to configure your security questions.

Then proceed to,
    `https://my.sc.edu/multifactor`

Once here you will need to perform the following:

1. Login using your VIPID and proper password.
2. Answer security question (previously configured from the above step).
3. Enter your phone number, select mobile (+OS) or landline and click add phone.
4. A line entry for the phone will appear, click "activate" and follow on screen instructions.

From this page you can also generate one-time passwords should you not wish to use a phone, just click generate code and you can use this when logging in from a remote location.