ODU Computer Science VPN Documentation

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Using Windows:

- 1. Visit https://links.fortinet.com/forticlient/win/vpnagent to download the Forticlient VPN (Windows).
 - a. This is a direct installation link, it will lead you to a blank page and prompt you to install.

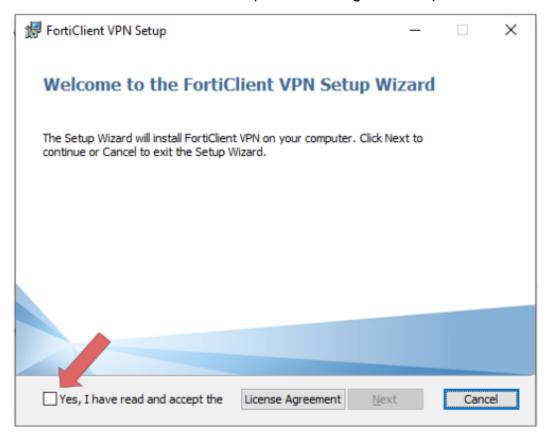
FortiClientVPNOnlineInstaller

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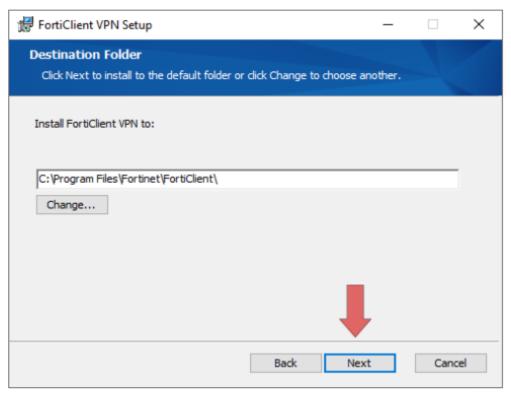
Application

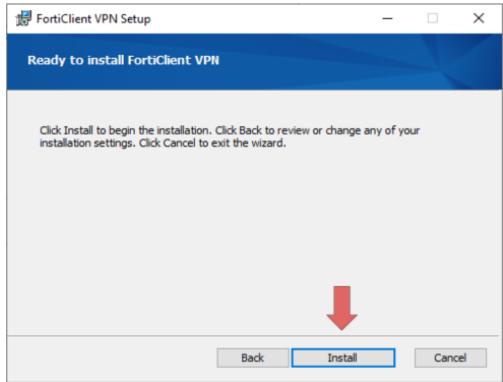
3,142 KB

2. Run the downloaded installer and proceed through the setup wizard.

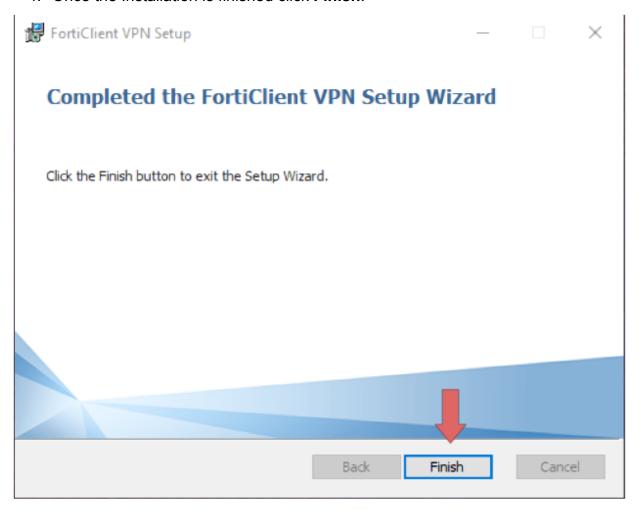


3. Read and accept the license agreement, select the folder location then click, **Next**, and **Install**.

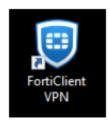




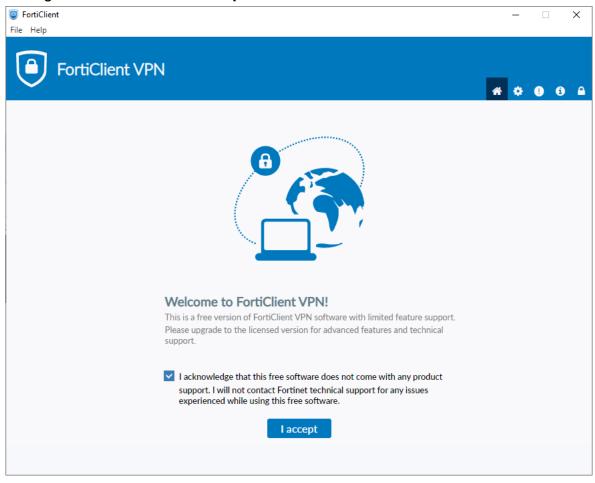
4. Once the Installation is finished click **Finish**.



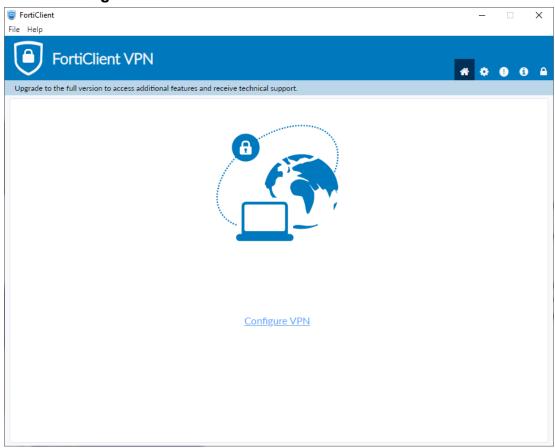
5. Locate and double-click the "Forticlient VPN" shortcut on your desktop.



6. Once the client is open click the box located next to the acknowledged agreement and click "I accept".



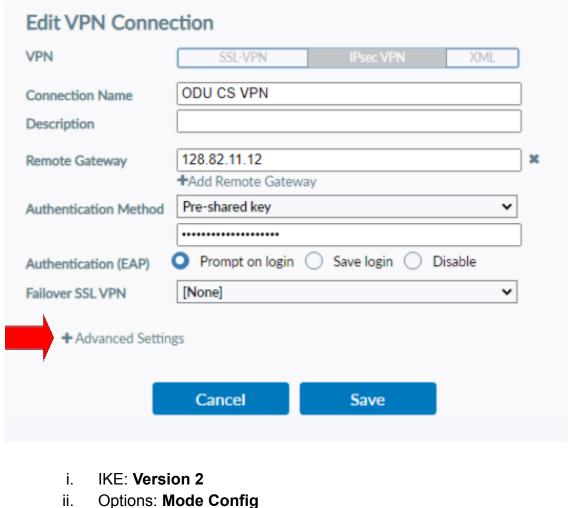
7. Click "Configure VPN"



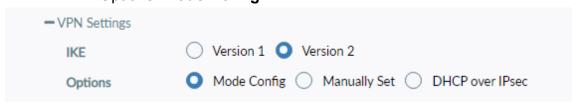
- 8. Enter the configurations for the VPN as follows:
 - a. VPN: Select IPsec VPN.
 - b. Connection Name: Name of your choosing (e.g., ODU CS VPN)
 - c. Description: Any
 - d. Remote Gateway: 128.82.11.12
 - e. Authentication Method Pre-shared key
 - i. Pre-shared key: 1HtXv1^^27



- 9. Click the + next to **Advanced Settings**, configure as follows:
 - a. Click the + next to VPN Settings:

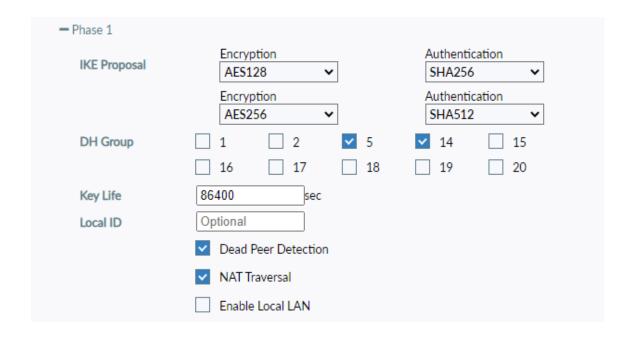


ii.



b. Click the + next to Phase 1:

Algorithms: AES128, AES256 i. ii. Authentication: SHA256, SHA512 Diffie-Hellman Groups: 5, 14 iii.



c. Click the + next to Phase 2:

i. Algorithms: AES128, AES256ii. Authentication: SHA1, SHA1iii. Diffie-Hellman Group: 5

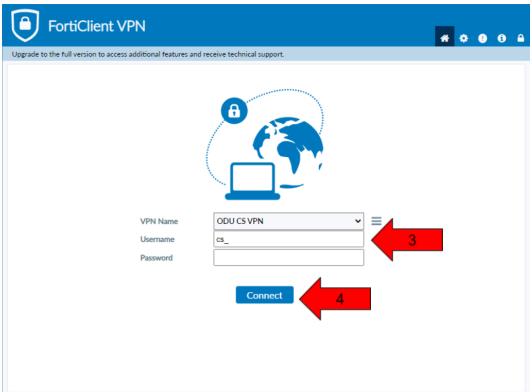
Phase 2 Encryption Authentication **IKE Proposal** AES128 SHA1 ~ Authentication Encryption SHA1 AES256 Key Life 43200 Seconds 5120 **KBytes** Enable Replay Detection Enable Perfect Forward Secrecy (PFS) 5 **DH** Group ~

10. Finally, click Save.

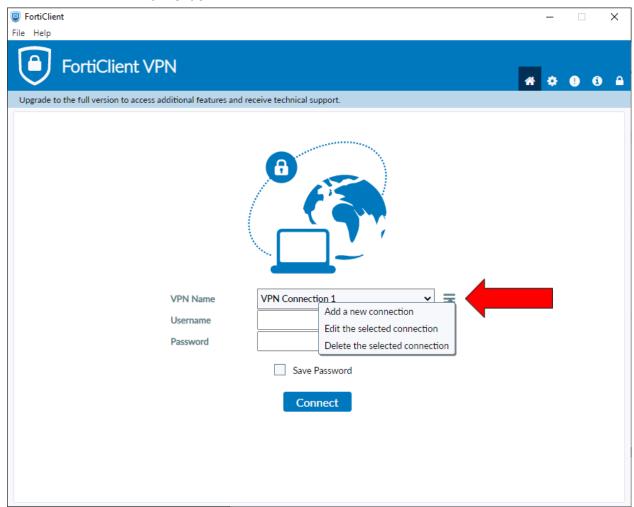


11. Select your created VPN Connection from the **drop down menu**. Enter your **ODU CS Credentials** and click **Connect**.



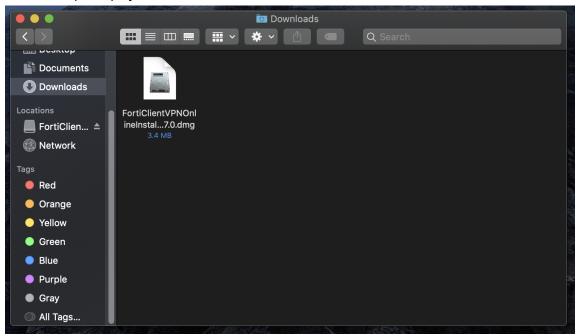


- 12. After clicking **connect**, you will receive a **DUO push** notification to your mobile device to confirm the Authentication process.
 - a. Check the DUO mobile app if you do not receive a notification.
 - b. To edit or add a connection click the three lines on the right side of the VPN Name box:

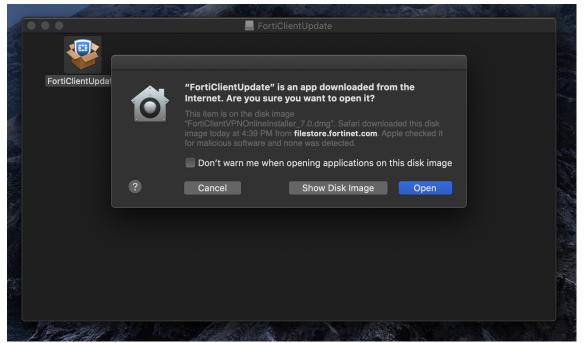


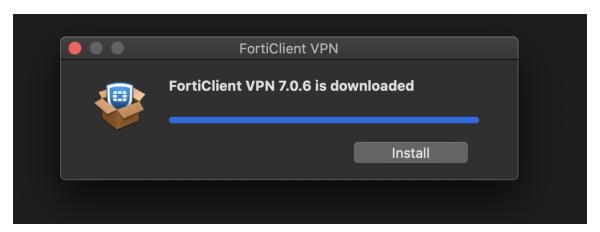
Using Mac:

- 1. Visit https://links.fortinet.com/forticlient/mac/vpnagent to download the Forticlient VPN (Mac).
 - a. **This is a direct installation link**, it will lead you to a blank page and prompt you to install.

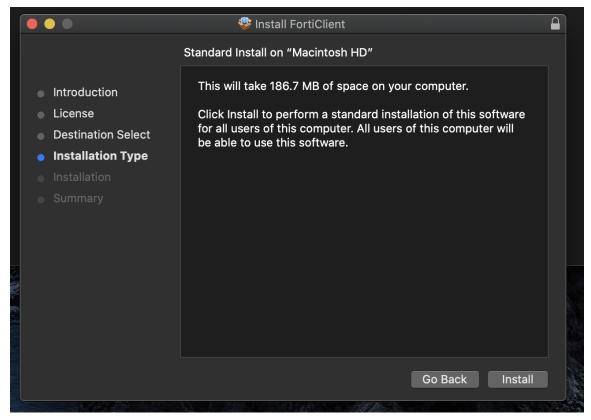


2. Open and run the downloaded **FortiClient.dmg** file which will proceed to download the **FortiClientUpdate package**.

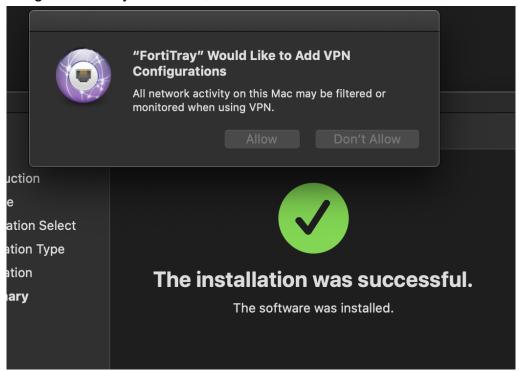




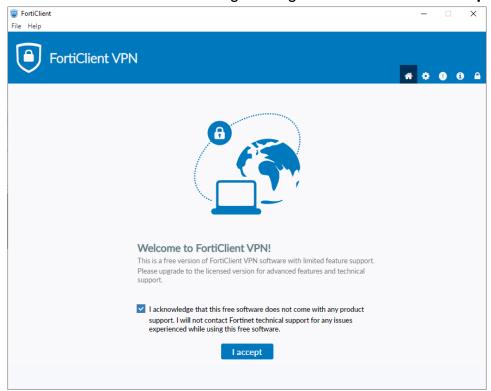
3. Run the FortiClientUpdate package and select Open to download and install FortiClient VPN.



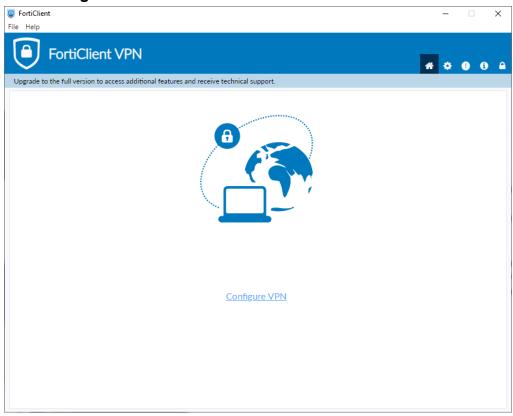
4. After a successful installation, it will ask for permission to add FortiTray VPN Configurations to your device, click **Allow** to continue.



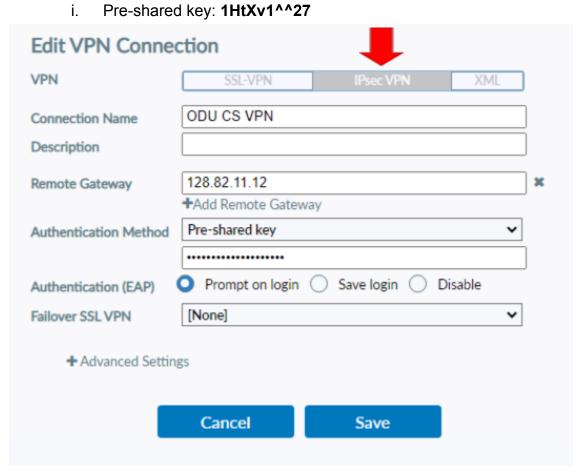
5. After it has been installed, search Finder for the newly installed FortiClient. Then click the box next to the acknowledgment agreement and click "I accept".



6. Click "Configure VPN"

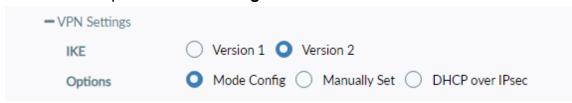


- 7. Enter the configurations for the VPN as follows:
 - a. VPN: Select IPsec VPN
 - b. Connection Name: Name of your choosing (e.g. CS VPN)
 - c. Description: Any
 - d. Remote Gateway: 128.82.11.12
 - e. Authentication Method: Pre-shared key



8. Click the + next to Advanced Settings, configure as follows



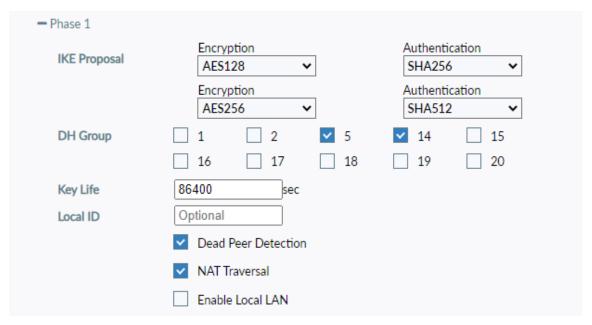


b. Click the + next to Phase 1:

Algorithms: AES128, AES256 i.

Authentication: SHA256, SHA512 ii.

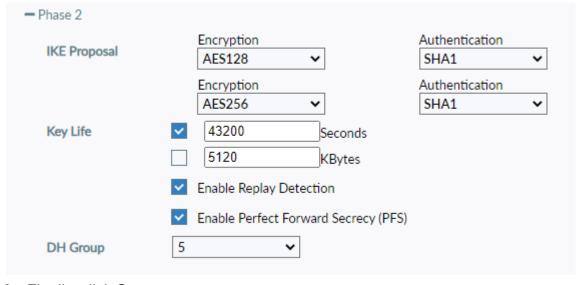
Diffie-hellman Groups: 5, 14 iii.



c. Click the + next to Phase 2:

i. Algorithms: AES128, AES256ii. Authentication: SHA1, SHA1

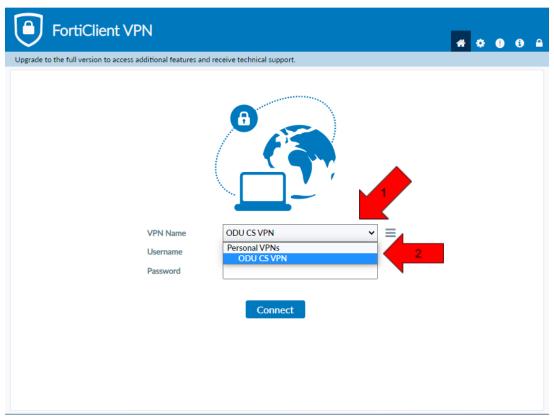
iii. Diffie-hellman Group: 5

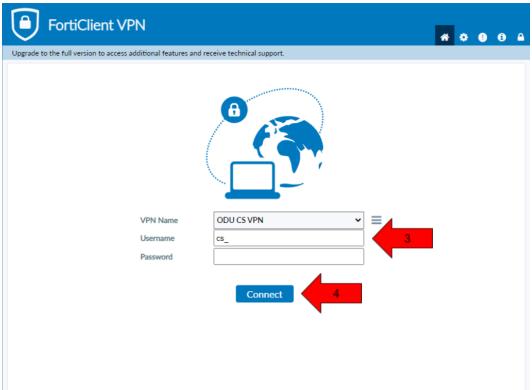


9. Finally, click Save.

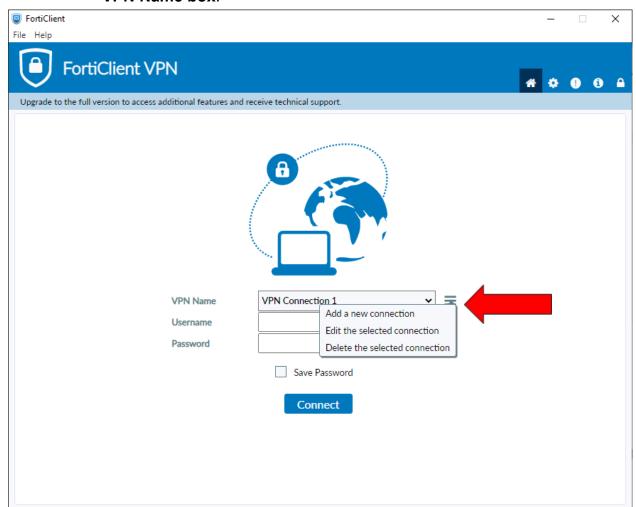


10. Select your created VPN Connection from the **drop down** menu. Enter your **ODU CS Credentials** and click **Connect**.





- 11. After clicking **connect**, you will receive a **DUO push** notification to your mobile device to confirm the Authentication process
 - a. Check the Duo Mobile app if you do not receive a notification.
 - b. To edit or add a connection click the three lines on the right side of the VPN Name box:



Using Linux:

- 1. Open the **terminal** to prepare for installation
 - a. Run this command to find out what Linux distribution you are using:
 - i. cat /etc/os-release
- 2. Install **Openconnect** using the correct command for your linux distribution:
 - a. Ubuntu / Debian
 - i. sudo apt install openconnect
 - b. Fedora
 - i. sudo dnf install openconnect
 - c. CentOS / RHEL
 - i. sudo yum install openconnect
 - d. Arch Linux
 - i. sudo pacman -S openconnect
- 3. Type in the **sudo** password, press **enter**, then press **y** to begin the installation
- 4. After installation run this **command**:
 - a. sudo openconnect --protocol=gp gp.cs.odu.edu -u [cs_username]

user@example.com:/\$ <mark>s</mark>udo openconnect --protocol=gp gp.cs.odu.edu -u [cs_username]

- 5. Type in **sudo** password if prompted
- 6. Type in cs account password
- 7. You will receive a **DUO push notification** to your mobile device to confirm the Authentication process
 - a. Check the Duo Mobile app if you do not receive a notification

FAQ/Trouble-shooting:

- Issues connecting to the Forticlient VPN
 - Check that the correct version of Forticlient is installed
 - The version installed should be "Forticlient VPN" as listed on the bottom of the download page.
 - DO NOT install Forticlient 7.0, ZTNA Edition, EPPI/APT Edition or Forticlient Endpoint Management Server (EMS)
 - A direct install link is included in the <u>Windows</u> and <u>Mac</u> section of this document.
 - Check that you are connected to the internet
 - You need a internet connection to use Forticlient VPN
 - Check that you used the correct VPN settings
 - Instructions for VPN setup are available in the <u>Windows</u> and <u>Mac</u> section of this document
 - Common misconfigurations are the Pre-shared key, and advanced settings.
 - Check that you entered the right username and password
 - You must enter your CS account username and password, DO NOT use your MIDAS credentials
 - Make a CS account here at: https://accounts.cs.odu.edu
 - You can also use this link to reset your CS Account password.
 - If you see "Permission denied, please try again" After changing your CS account password, please contact <u>root@cs.odu.edu</u>
 - To reset a faculty password, see instructions in this link https://systems.cs.odu.edu/Account_Password
 - Connection problem not solved after following the previous troubleshooting step
 - On Windows 11: Update network drivers
 - You can find information on updating the driver here: https://www.thewindowsclub.com/how-to-update-network-drivers-windows-11.
 - Authentication without using DUO
 - It is **highly recommended** that you install the DUO app for authentication. The app can **downloaded for free** from your device's **application store**

- For information about setting up Two-factor visit: https://ww1.odu.edu/ts/access/two-factor-authenticati
 on/get-started
- To login using SMS authentication on Forticlient VPN add ",sms" (without quotations) to the end of your password.
 - Example: cspassword,sms
- You will see "wrong credentials" above the login boxes and you will receive a **list of codes** to your **phone**.
- Type in the your password **again**, this time using one of the **codes** you received at the **end of your password**.
 - Example: cspassword,123456
- Issues with SSh and Linux project submission
 - Some CS classes have VPN setup and SSH setup as an assignment, please attempt to complete this task on your own if it is required for your course.
 - Contact your **instructor** or **TA** for assistance **before** reaching out to root@cs.odu.edu for assistance.
 - We are unable to help with any homework questions or assignments.