

# ODU Computer Science VPN Document

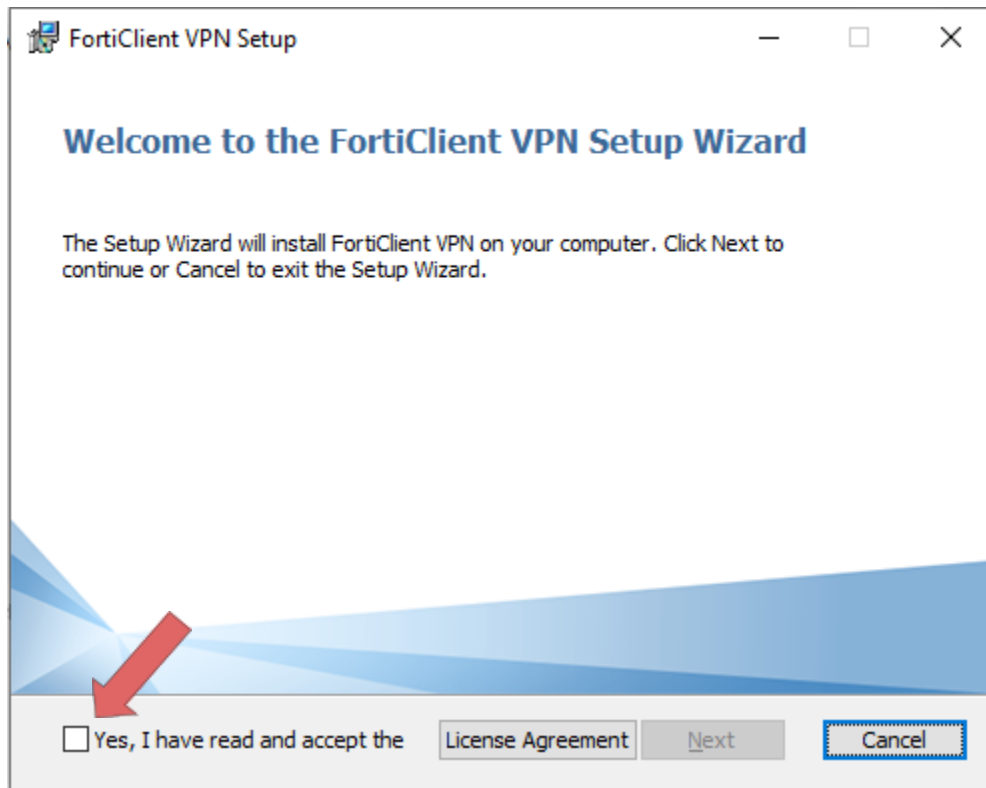
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## Using Windows:

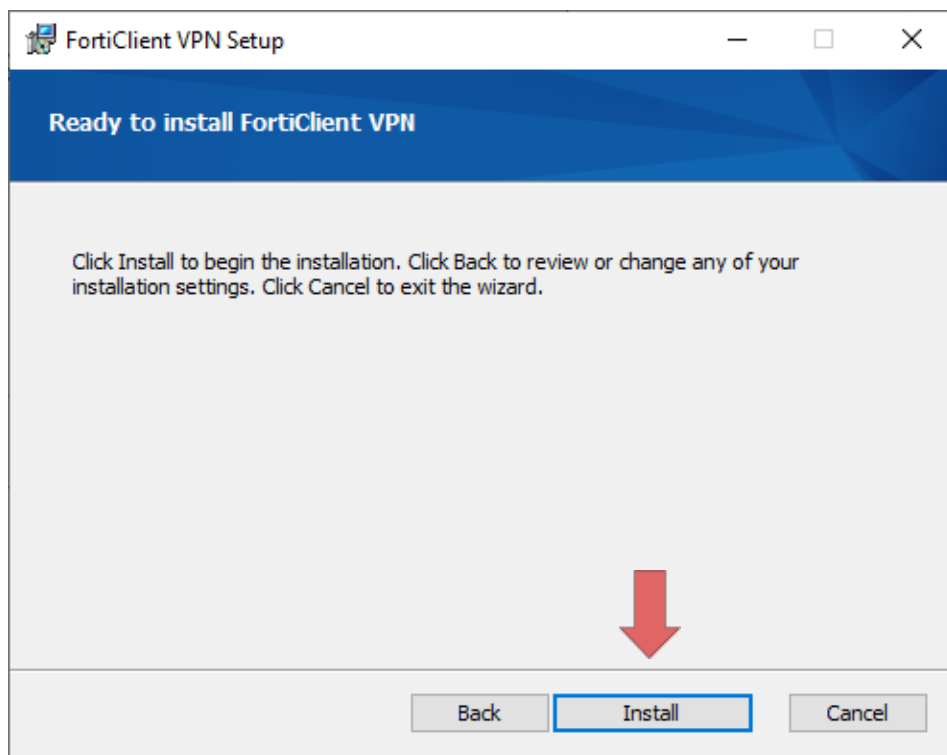
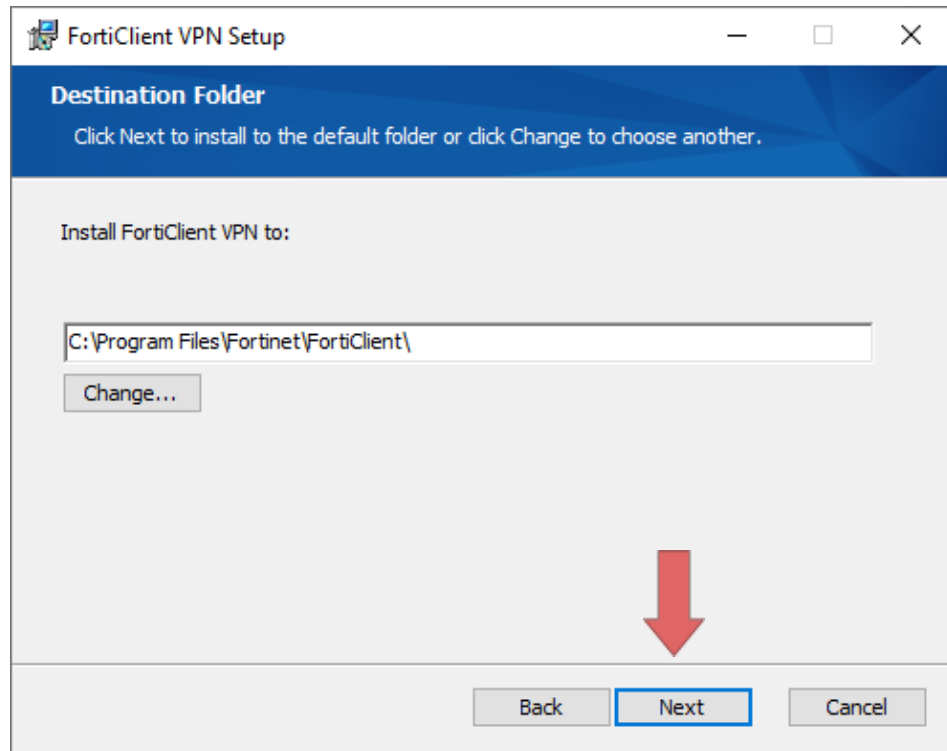
1. Visit <https://links.fortinet.com/forticlient/win/vpnagent> to download the Forticlient VPN (Windows).
  - a. **This is a direct installation link**, it will lead you to a blank page and prompt you to install.

 FortiClientVPNOnlineInstaller	7/22/2022 12:45 PM	Application	3,142 KB
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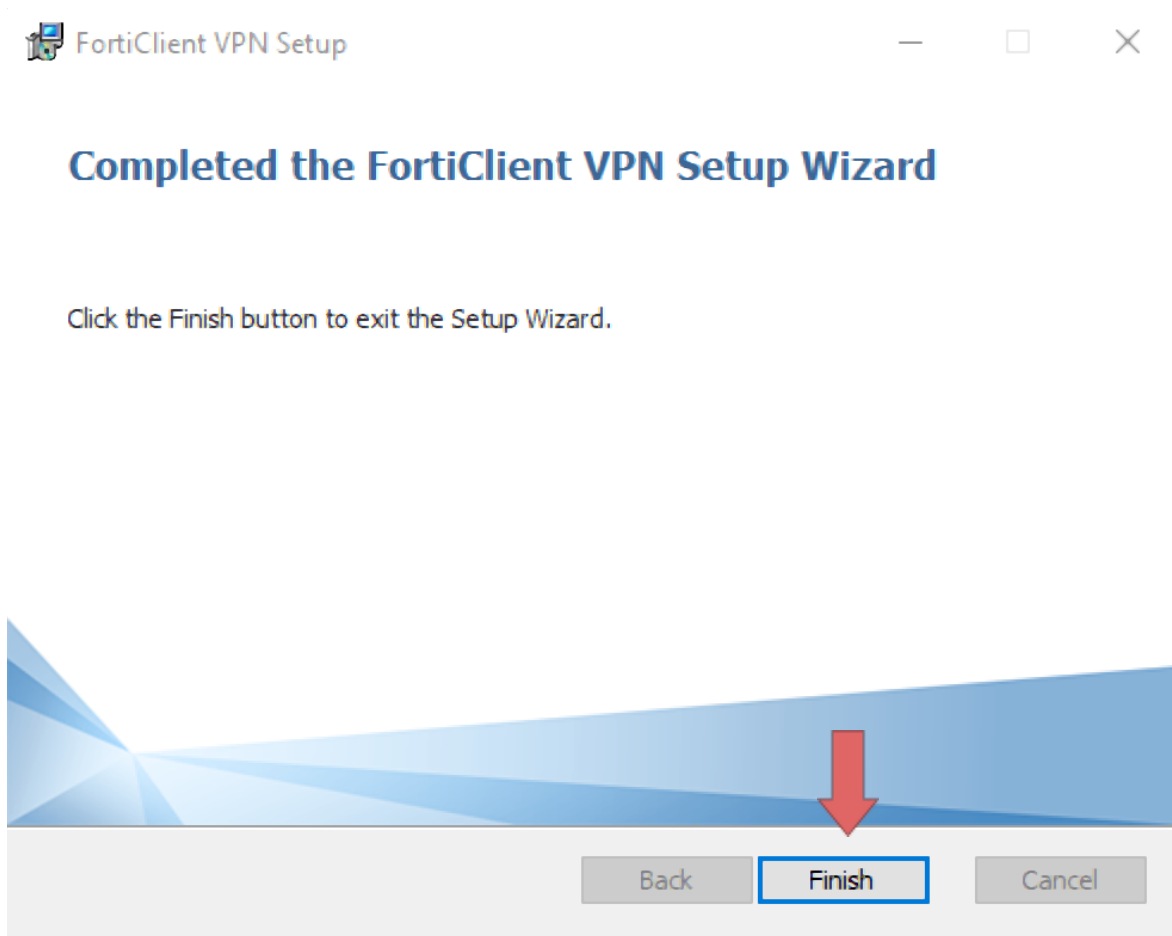
2. Run the downloaded installer and proceed through the setup wizard.



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



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



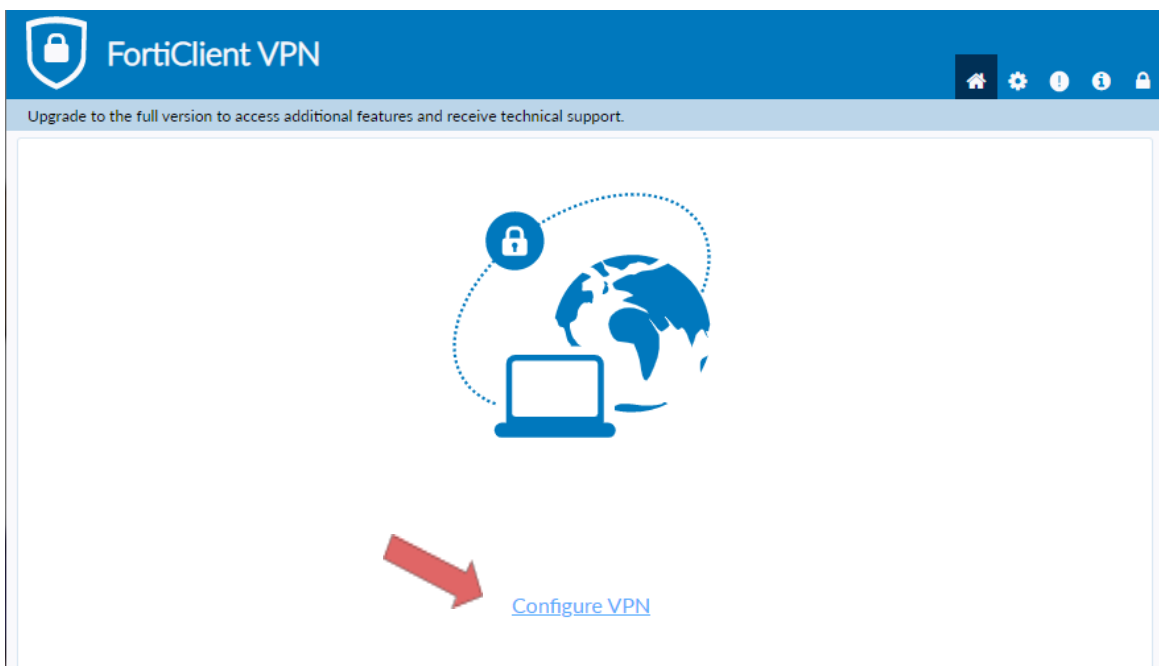
5. Locate and Double-Click the “**Forticlient VPN**” shortcut on your desktop



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. **CS VPN**)
  - c. Description: **Any**
  - d. Remote Gateway: **128.82.11.11**
  - e. Authentication Method: **Pre-shared key**
  - f. Pre-shared key: **DnS6fS7Zm^&\***

FortiClient VPN

Upgrade to the full version to access additional features and receive technical support.

### New VPN Connection

VPN: ☐ SSL-VPN ☒ IPsec VPN ☐ XML

Connection Name:

Description:

Remote Gateway:  ✕  
[+ Add Remote Gateway](#)

Authentication Method:

Authentication (XAuth): ☒ Prompt on login ☐ Save login ☐ Disable

Fallover SSL VPN:

[+ Advanced Settings](#)

9. Click the **+** next to **Advanced Settings**, configure as follows:
  - a. Click the **+** next to **VPN Settings**:
  - b. IKE: **Version 1**
  - c. Mode: **Main**
  - d. Options: **Mode Config**

— VPN Settings

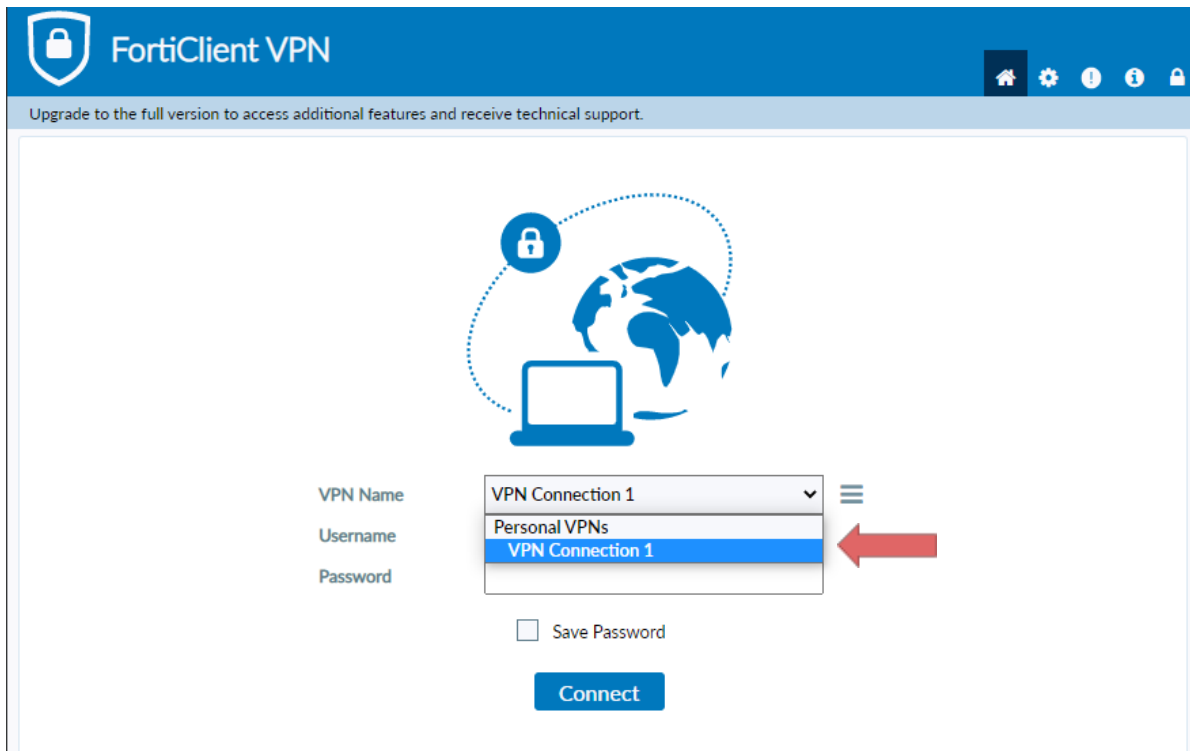
IKE: ☒ Version 1 ☐ Version 2

Mode: ☒ Main ☐ Aggressive

Options: ☒ Mode Config ☐ Manually Set ☐ DHCP over IPsec

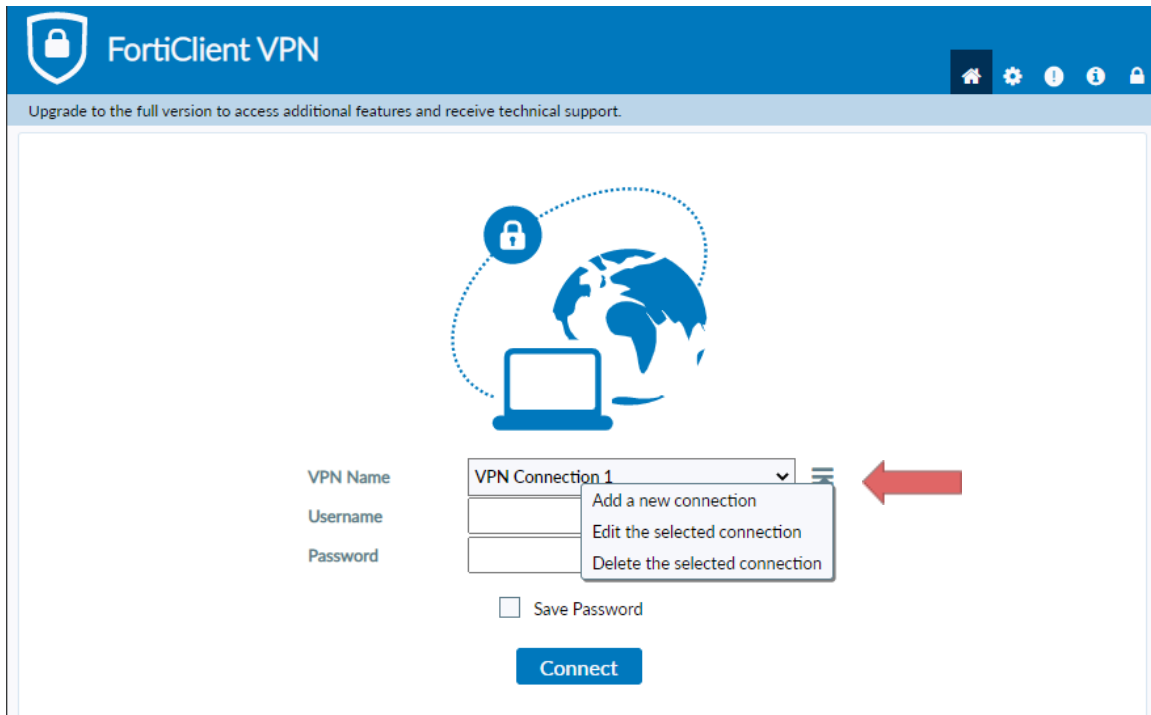
- e. Finally, click **Save**.

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



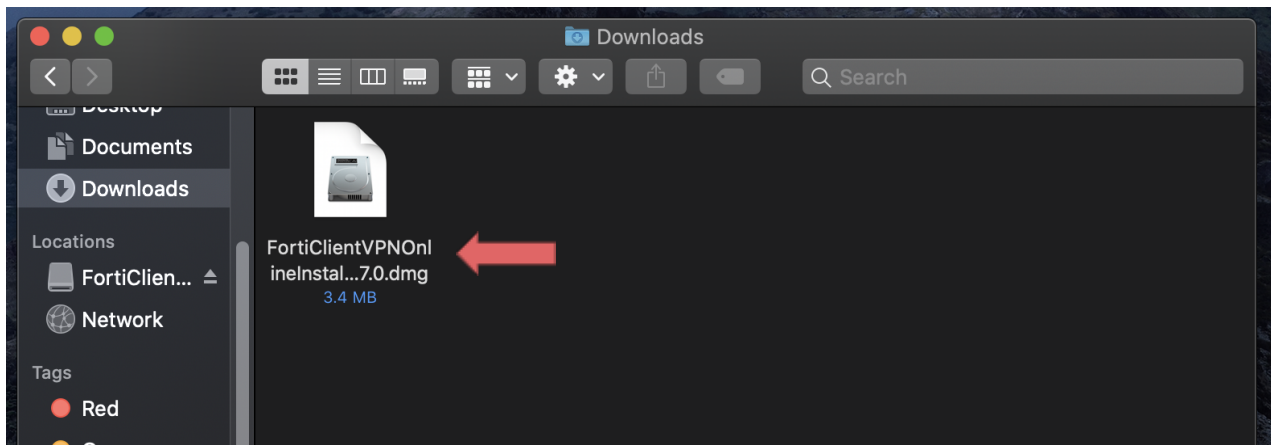
11. After clicking **connect**, you will receive a **DUO push notification** to your mobile device to confirm the Authentication process.

- 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:

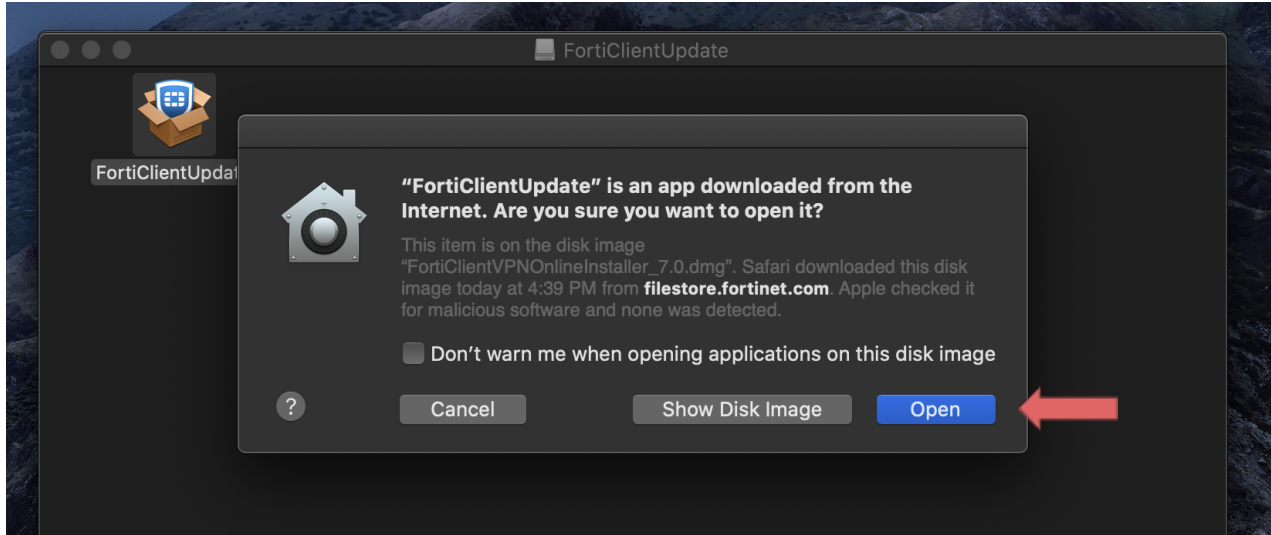


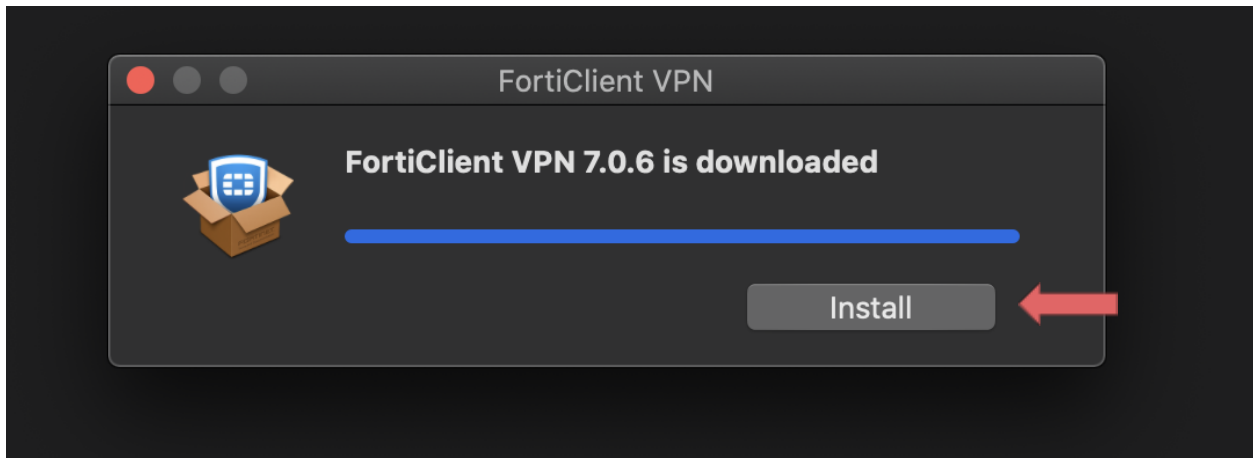
## Using Mac:

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.

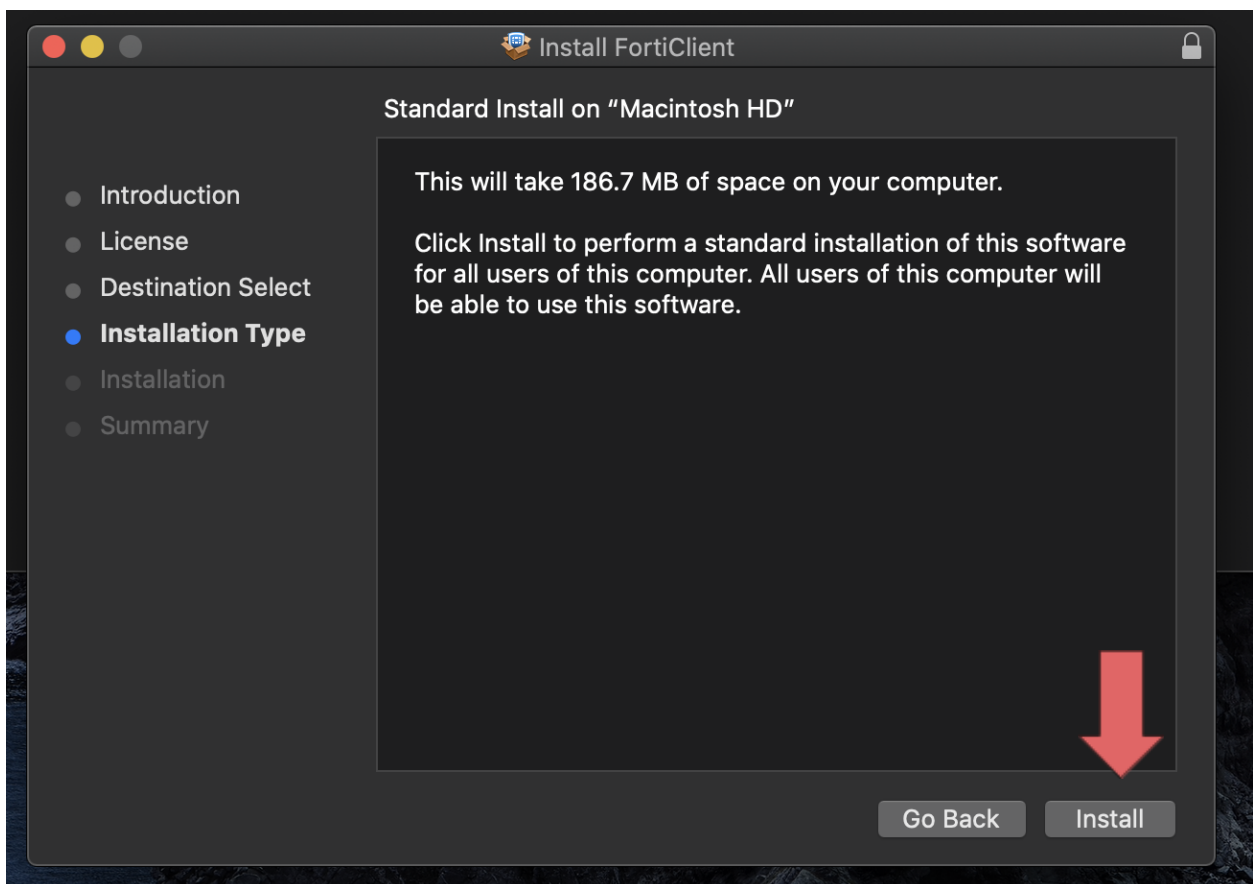


2. Open and run the downloaded **FortiClient.dmg** file which will proceed to download the **FortiClientUpdate** package.

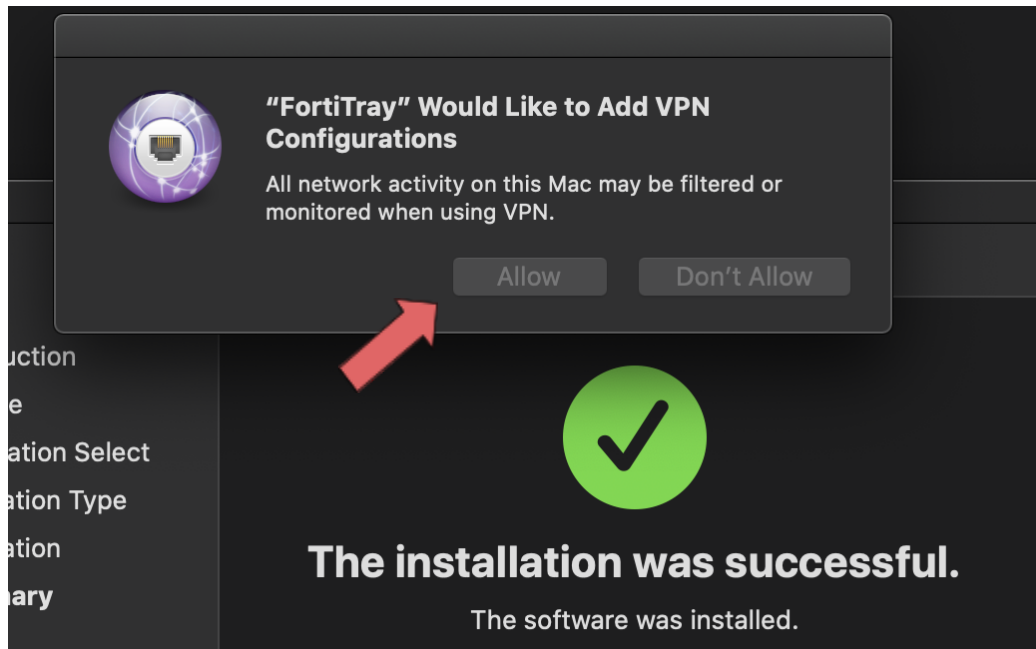




3. **Run the FortiClientUpdate package** and select **Open** to download and install FortiClient VPN.



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: **128.82.11.11**
- e. Authentication Method: **Pre-shared key**
- f. Pre-shared key: **DnS6fS7Zm^&\***

FortiClient VPN

Upgrade to the full version to access additional features and receive technical support.

### New VPN Connection

VPN: SSL-VPN **IPsec VPN** XML

Connection Name:

Description:

Remote Gateway:  ✕  
[+Add Remote Gateway](#)

Authentication Method: Pre-shared key ▼

Authentication (XAuth): ☒ Prompt on login ☐ Save login ☐ Disable

Failover SSL VPN: [None] ▼

[+ Advanced Settings](#)

Cancel Save

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

- a. Click the **+** next to **VPN Settings**:
  - i. IKE: **Version 1**
  - ii. Mode: **Main**
  - iii. Options: **Mode Config**

— VPN Settings

IKE: ☒ Version 1 ☐ Version 2

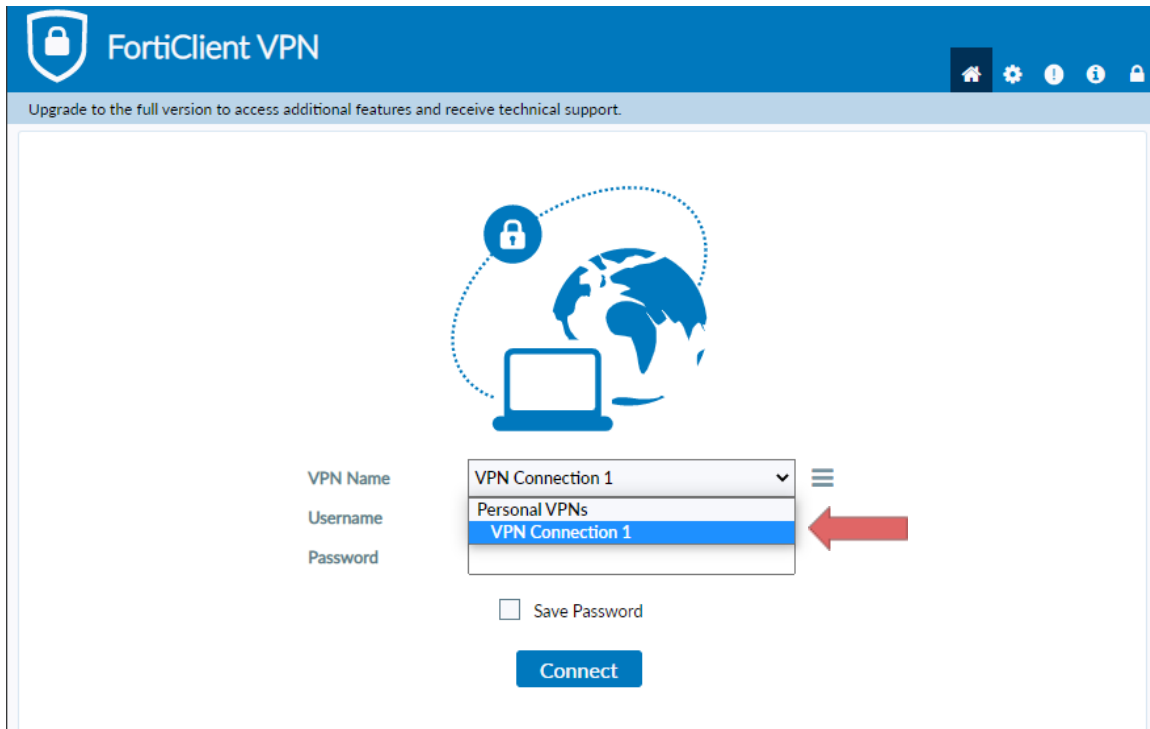
Mode: ☒ Main ☐ Aggressive

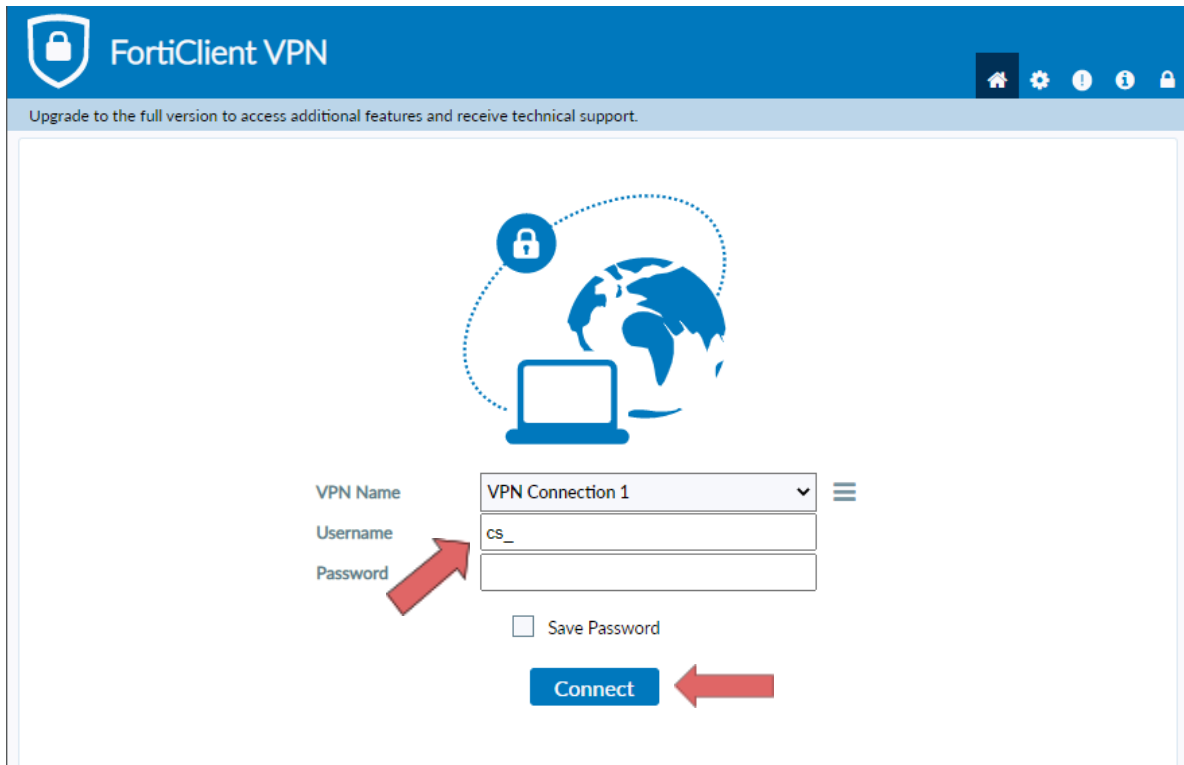
Options: ☒ Mode Config ☐ Manually Set ☐ DHCP over IPsec

- b. Finally, click **Save**.



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

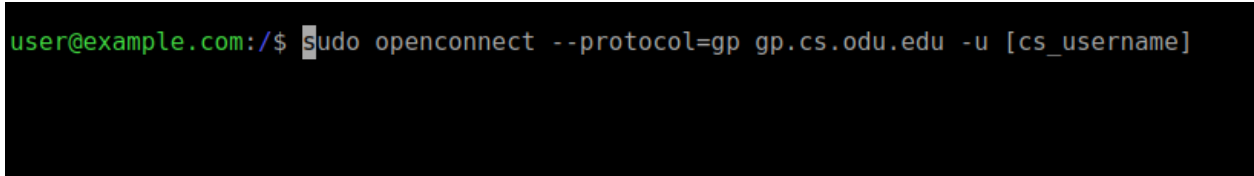




10. After clicking **connect**, you will receive a **DUO push notification** to your mobile device to confirm the Authentication process
- Check the Duo Mobile app if you do not receive a notification**
  - To edit or add a connection click the **three lines** on the right side of the **VPN Name** box:

## Using Linux:

1. Open the **terminal** to prepare for installation
  - Run this command to find out what Linux distribution you are using:
    - `cat /etc/os-release`
2. Install **Openconnect** using the correct command for your linux distribution:
  - Ubuntu / Debian
    - `sudo apt install openconnect`
  - Fedora
    - `sudo dnf install openconnect`
  - CentOS / RHEL
    - `sudo yum install openconnect`
  - Arch Linux
    - `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**:
  - `sudo openconnect --protocol=gp gp.cs.odu.edu -u [cs_username]`



```
user@example.com:/$ sudo 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
  - **Check the Duo Mobile app if you do not receive a notification**

## **FAQ - Troubleshooting**

- **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, EPP/APT Edition or FortiClient Endpoint Management Server (EMS)
    - A **direct install link** is included in the **Windows and Mac** section of this document
  - *Check that you are connected to the internet*
    - **You need an internet connection to use Forticlient VPN**
  - *Check that you used the correct VPN settings*
    - Instructions for **VPN setup** are available in the **Windows and Mac** section of this document
  - *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: <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 [root@cs.odu.edu](mailto:root@cs.odu.edu)
      - To reset a **faculty password**, see instructions in this link [https://systems.cs.odu.edu/Account\\_Password](https://systems.cs.odu.edu/Account_Password)
  - *Connection problem not solved after following the previous troubleshooting steps*
    - 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 be **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-authentication/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 your password **again**, this time using one of the **codes** you received at the **end of your password**.
    - example: cspassword,1234567
- 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](mailto:root@cs.odu.edu) for assistance.
    - **We are unable to help with any homework questions or assignments!**