

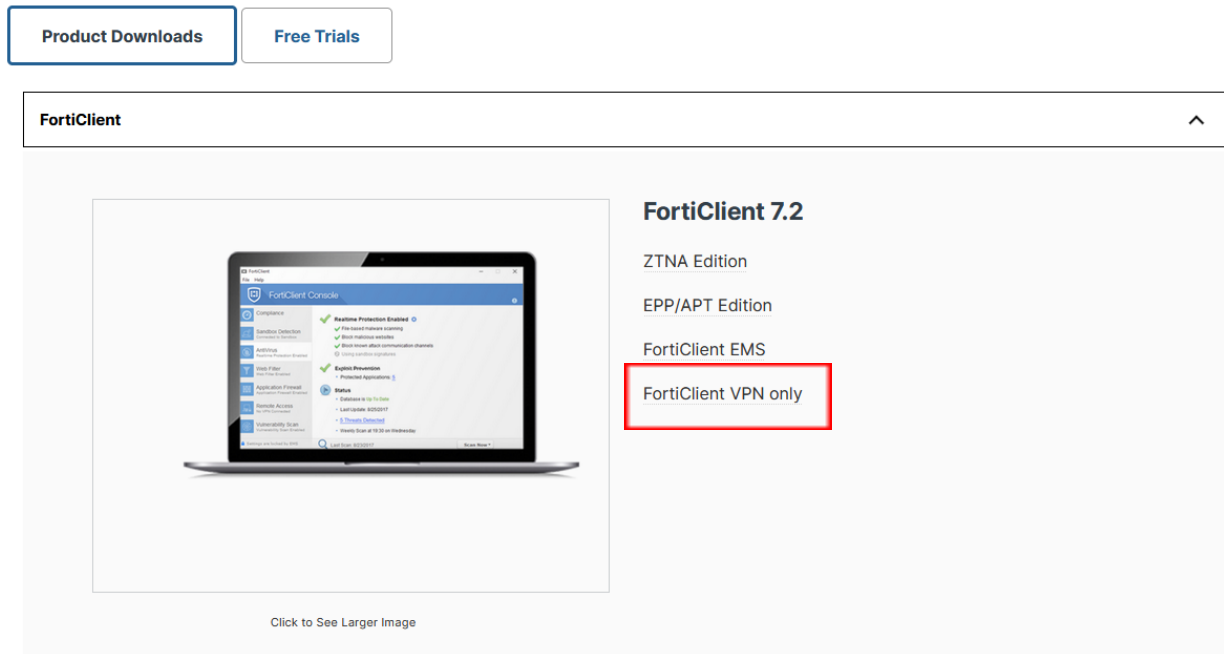
# **ODU Computer Science VPN Documentation**

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# Using Windows:

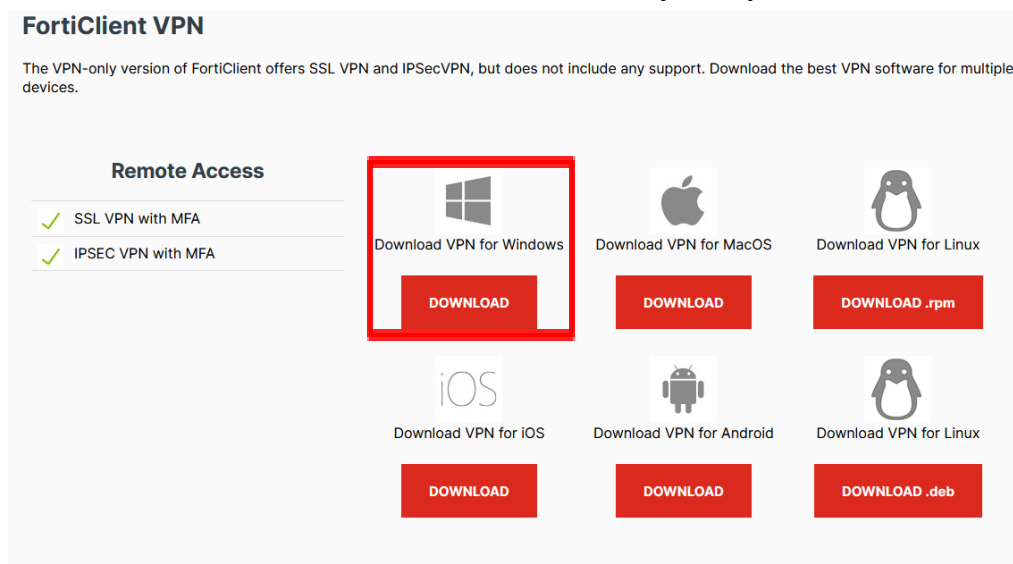
1. Use the following link and select the option outlined in the red box:

<https://www.fortinet.com/support/product-downloads> (it is recommended that the link be opening in a new tab).



2. After choosing the Forticlient VPN only option, there will then be options to download the Forticlient VPN relative to your system.

- a. Download the Forticlient VPN relative to your system



- b. Navigate to the downloads folder of the browser or downloads folder relative to your system and look for the installer.

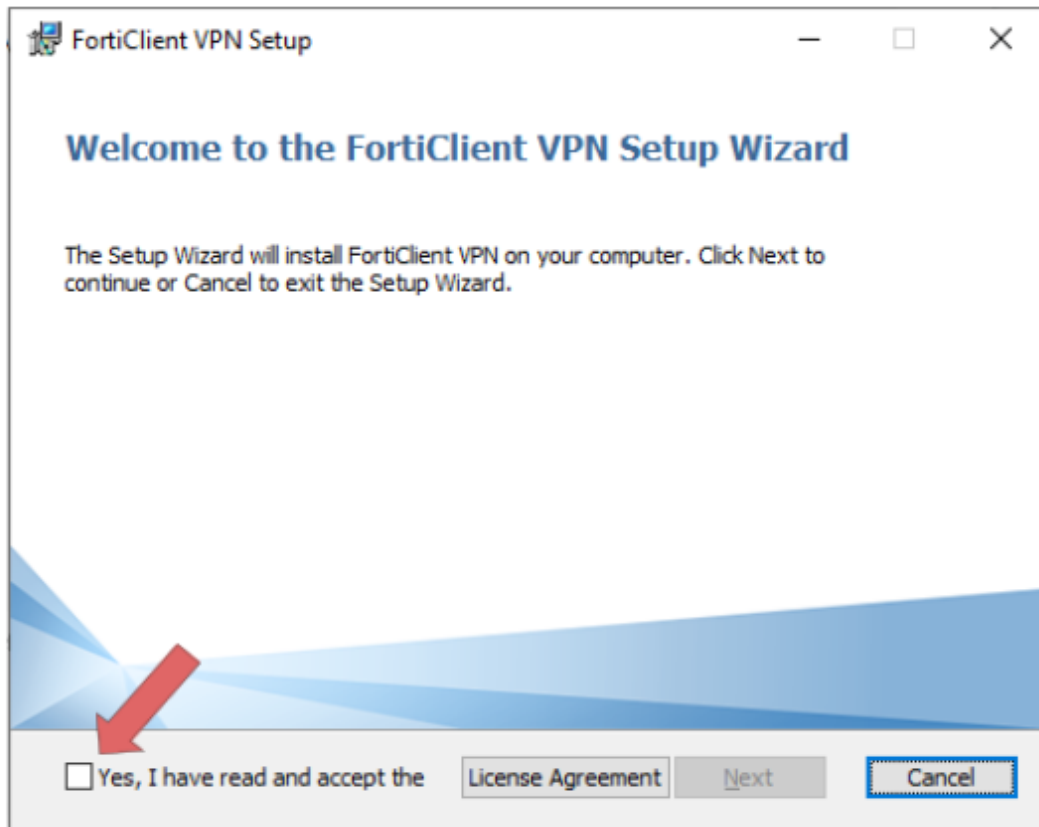
FortiClientVPNOnlineInstaller

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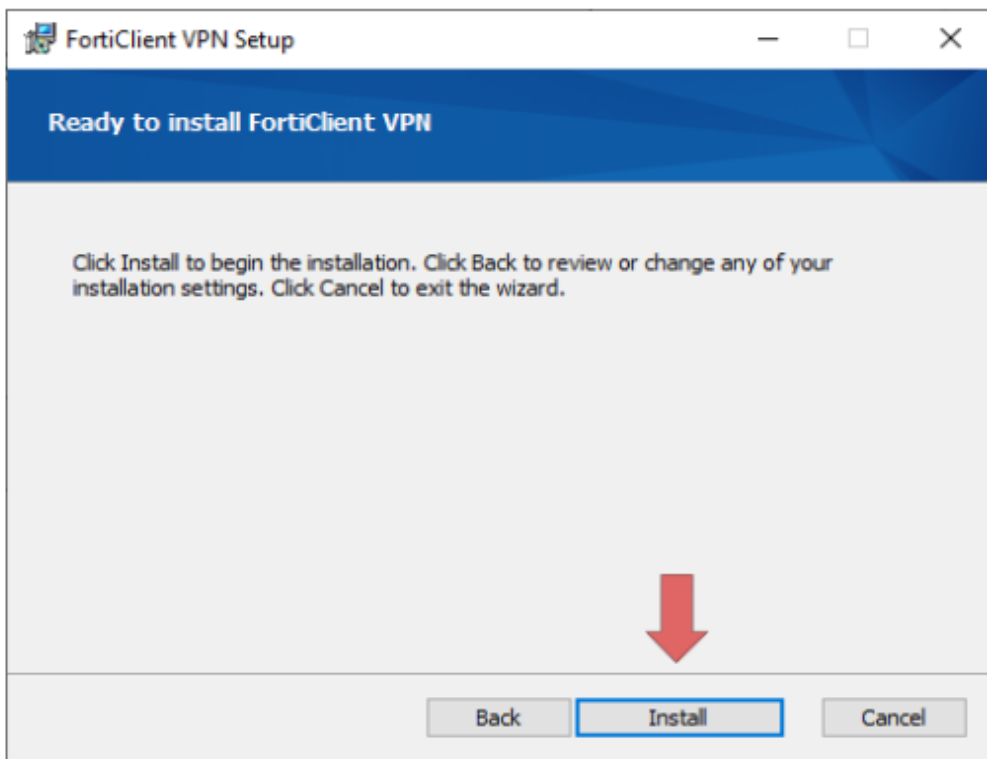
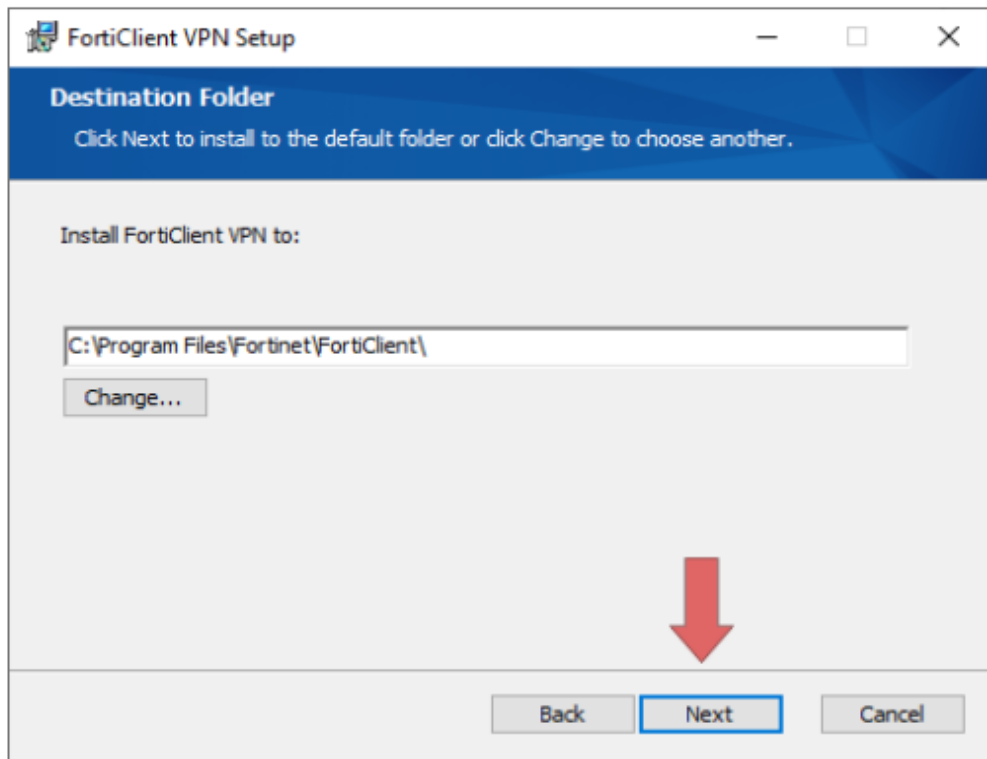
Application

3,142 KB

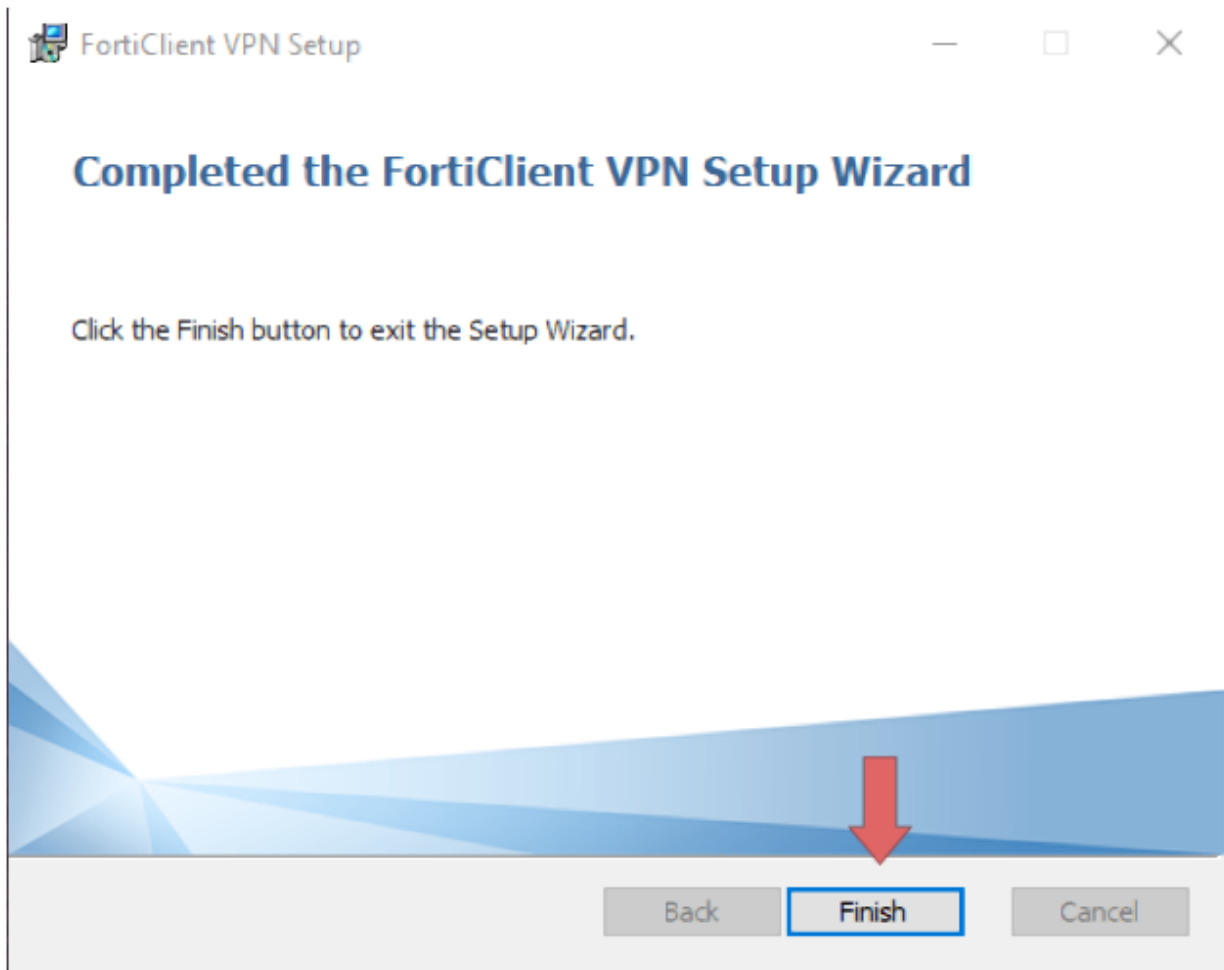
3. Run the downloaded installer and proceed through the setup wizard.



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



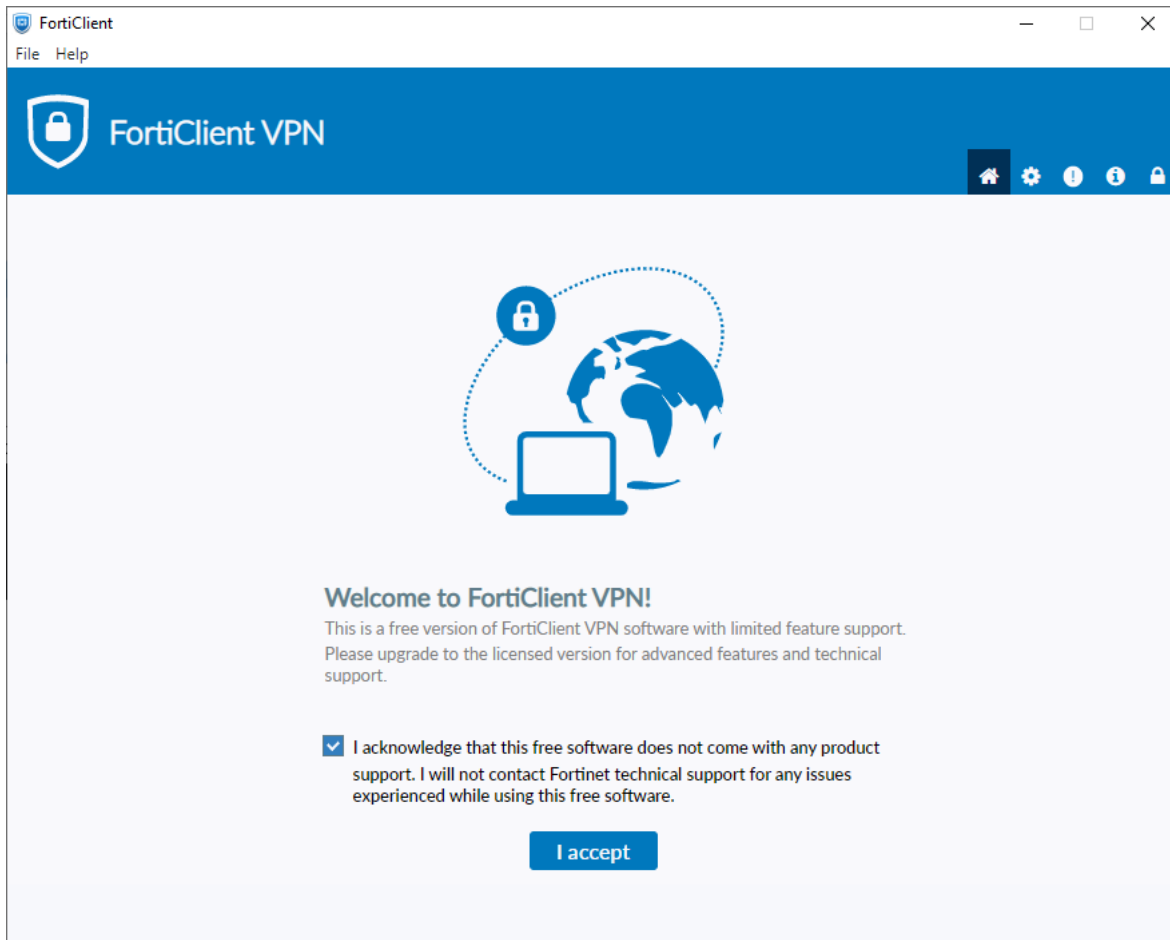
5. Once the Installation is finished click **Finish**.



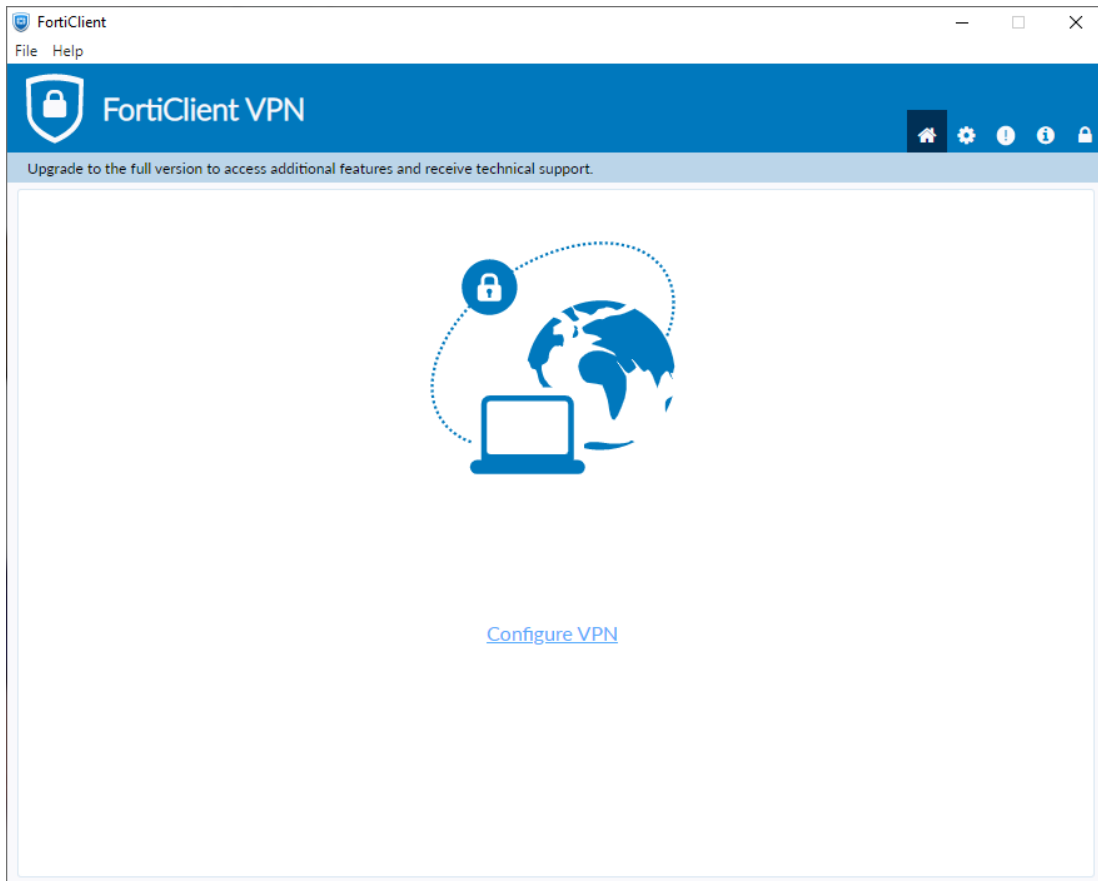
6. Locate and double-click the "**Forticlient VPN**" shortcut on your desktop.



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



8. Click **“Configure VPN”**



9. Enter the configurations for the VPN as follows:
  - a. VPN: Select **SSL-VPN**.
  - b. Connection Name: Name of your choosing (e.g., ODU CS VPN)
  - c. Description: **Any**
  - d. Remote Gateway: **fortivpn.cs.odu.edu**
    - i. Check the box under Remote Gateway labeled: **Customize Port**
    - ii. Enter: **4443**
  - e. Client Certificate: **None**
  - f. Authentication Method: **Prompt on login**

FortiClient VPN

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

### Edit VPN Connection

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

Connection Name: CS SSL

Description:

Remote Gateway: https://fortivpn.cs.odu.edu:4443 ✕  
+Add Remote Gateway

☒ Customize port 4443  
☐ Enable Single Sign On (SSO) for VPN Tunnel

Client Certificate: None ▾

Authentication: ☒ Prompt on login ☐ Save login  
☐ Enable Dual-stack IPv4/IPv6 address

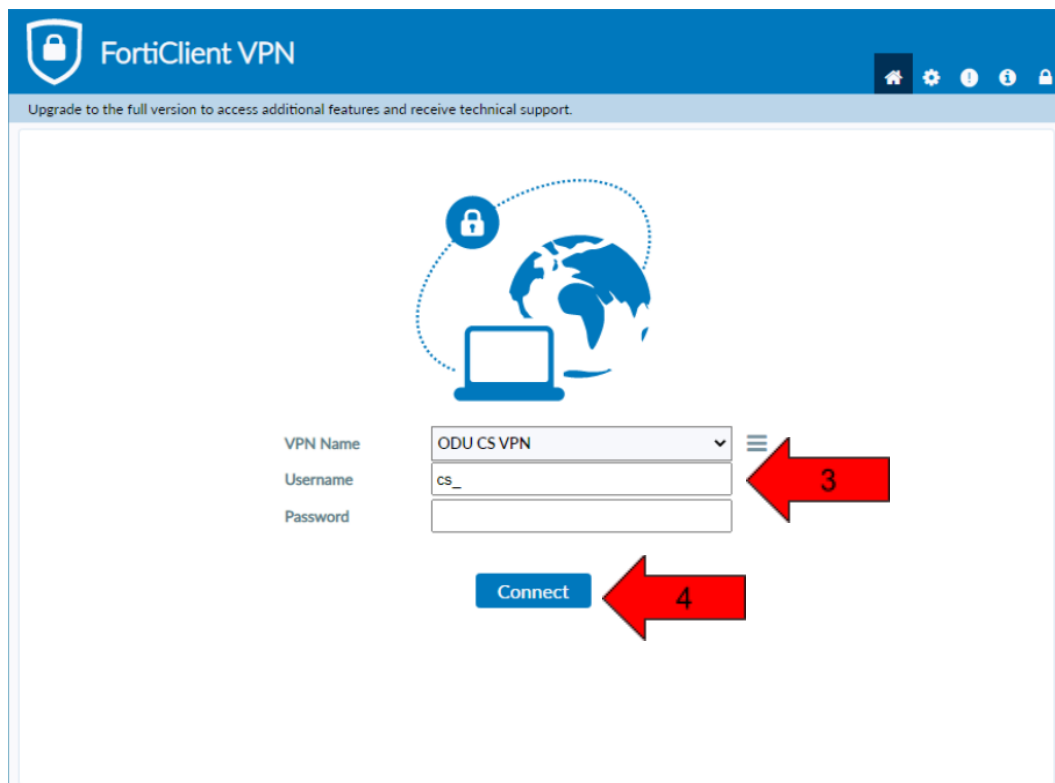
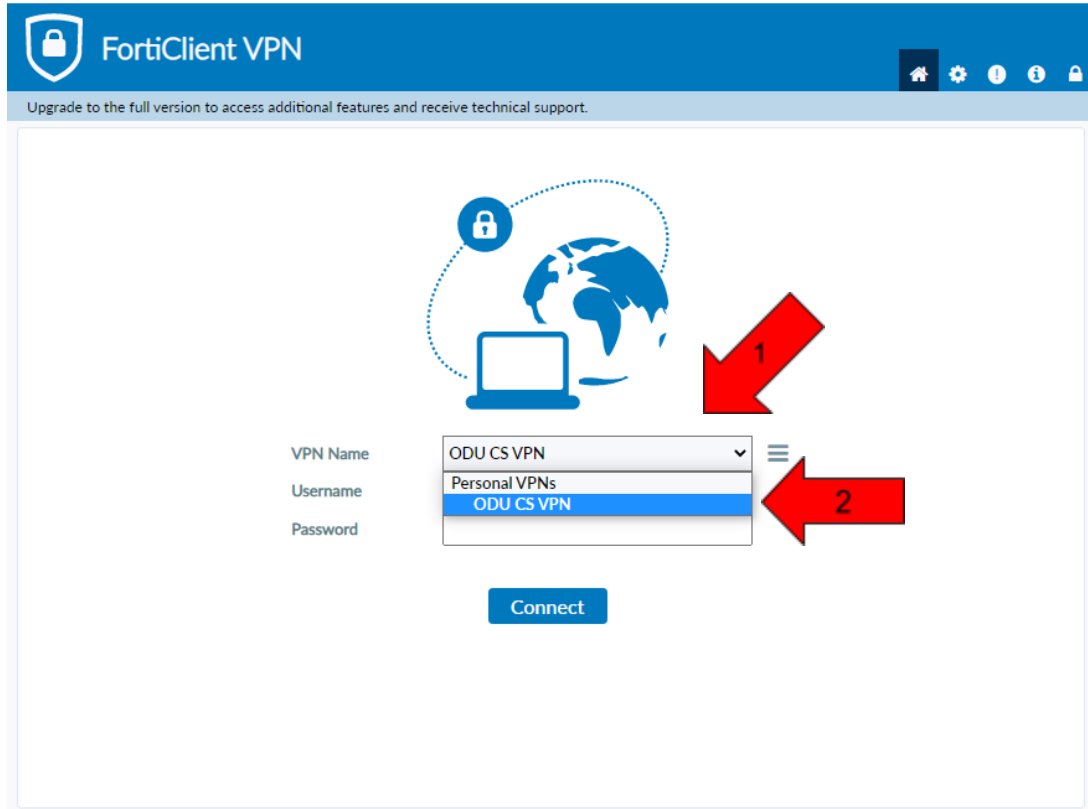
Cancel Save

10. Finally, click **Save**.

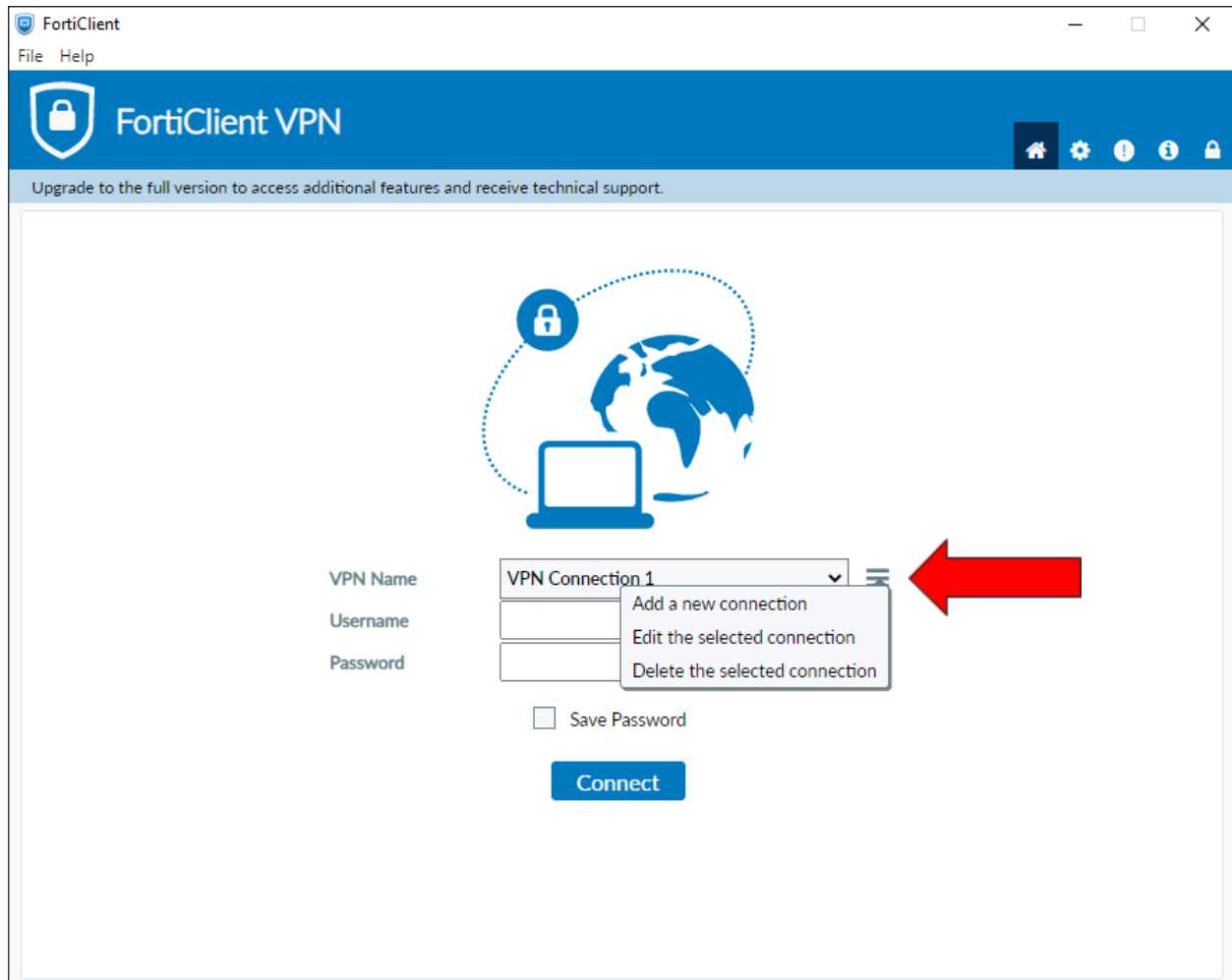
Cancel Save

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





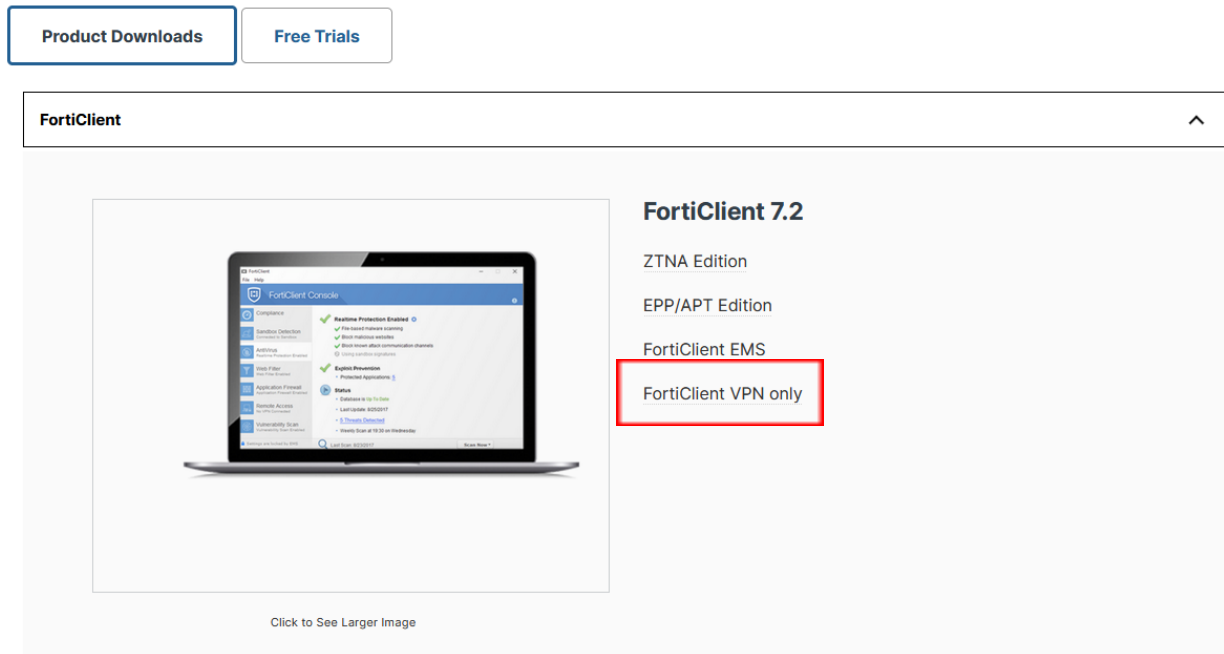
12. After clicking **connect**, you will receive a **DUO push** notification to your mobile device to confirm the Authentication process.
- a. **Check the DUO mobile app if you do not receive a notification.**
13. To edit or add a connection click the **three lines** on the **right side of the VPN Name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



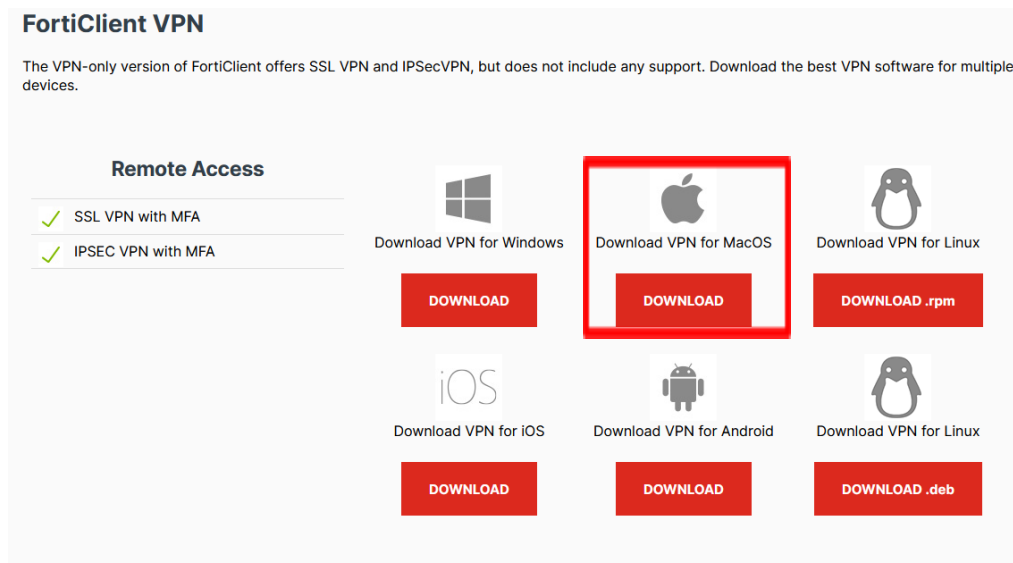
## Using Mac:

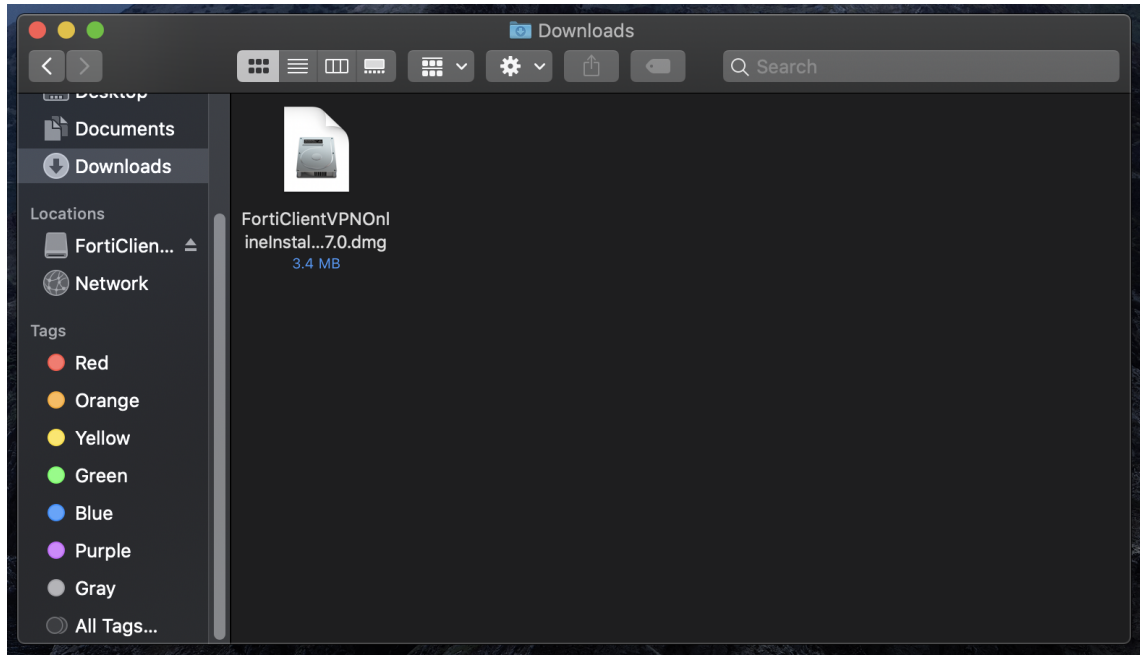
1. Use the following link and select the option outlined in the red box:

<https://www.fortinet.com/support/product-downloads> (it is recommended that the link be opening in a new tab).

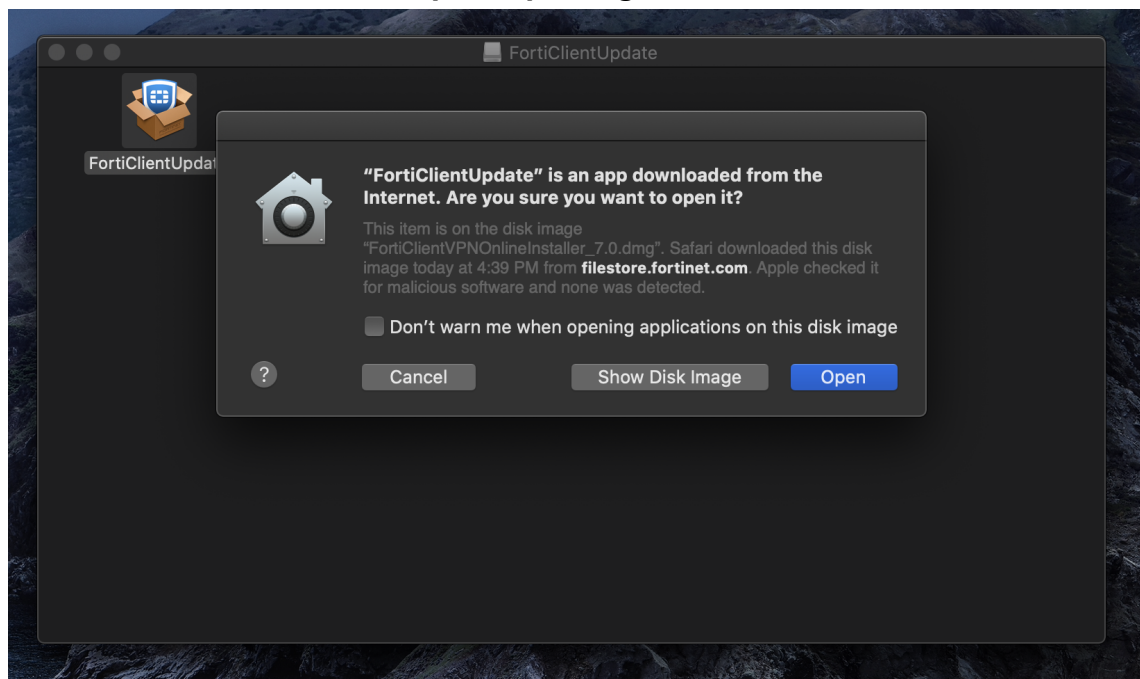


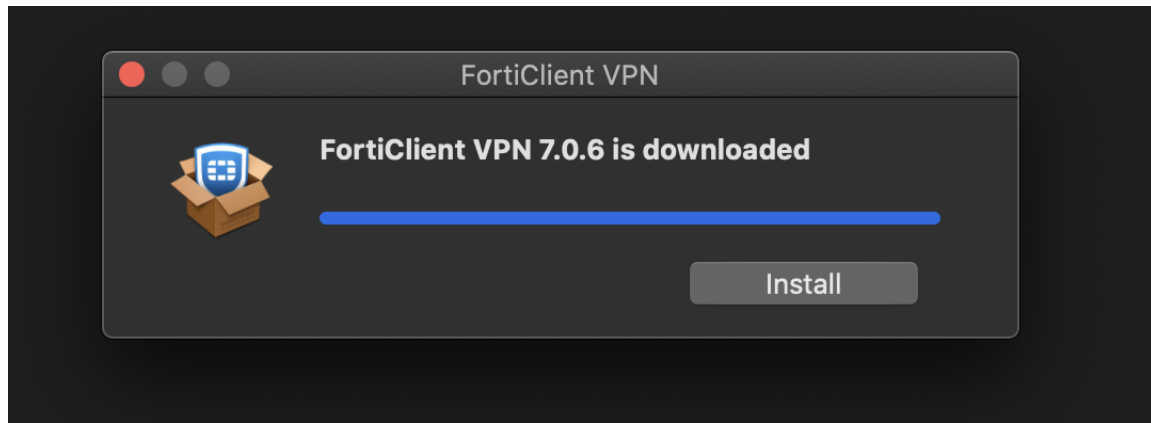
2. After choosing the Forticlient VPN only option, there will then be options to download the Forticlient VPN relative to your system.
  - a. Download the Forticlient VPN relative to your system



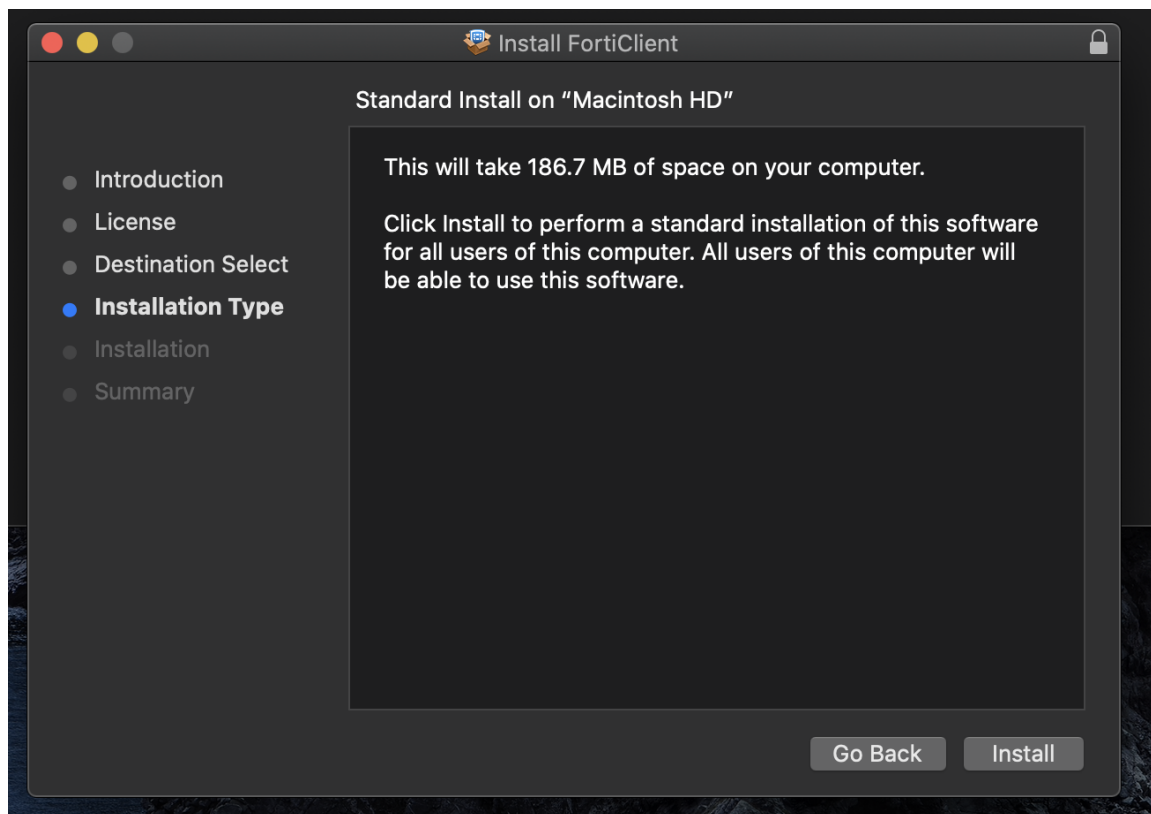


3. Open and run the downloaded **FortiClient.dmg** file which will proceed to download the **FortiClientUpdate** package.

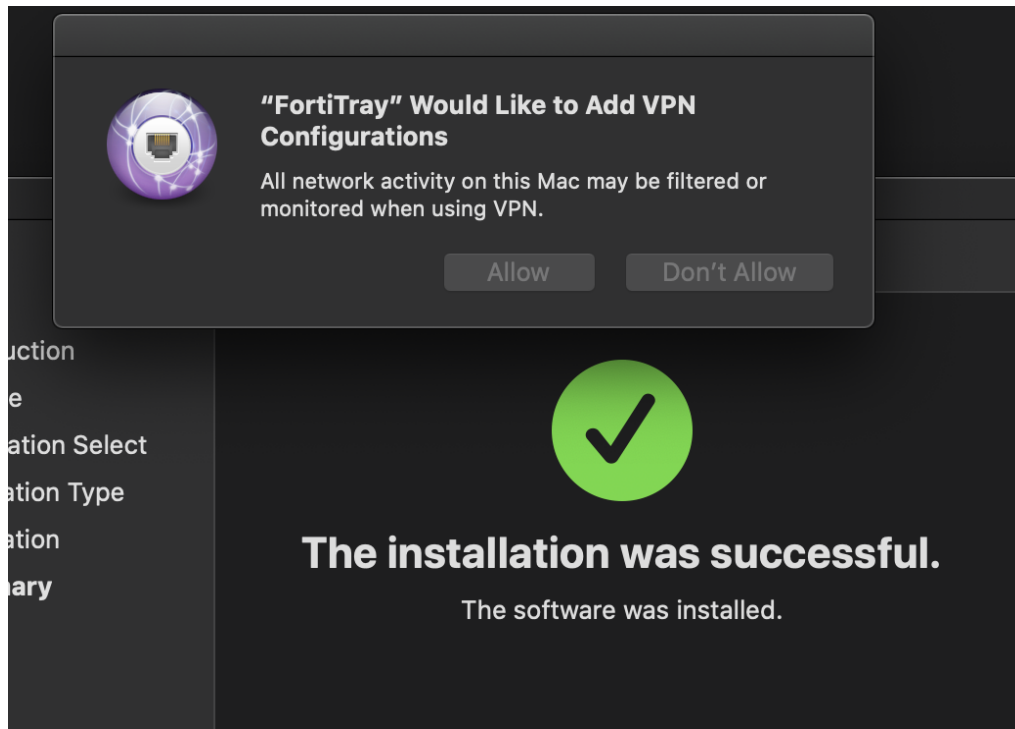




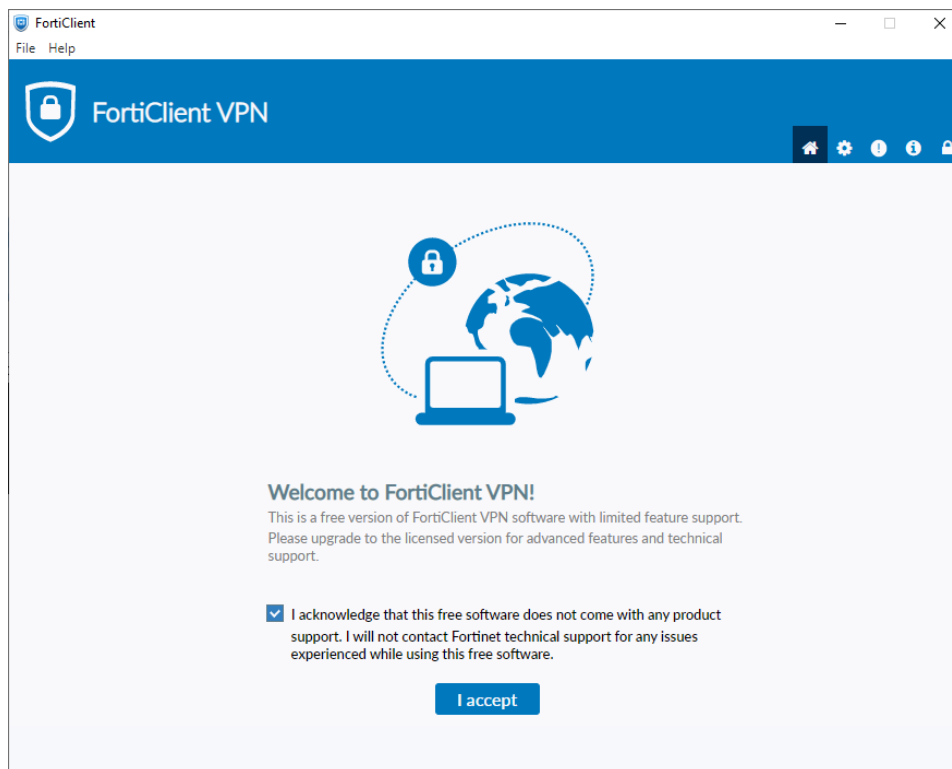
4. Run the **FortiClientUpdate** package and select **Open** to download and **install FortiClient VPN**.



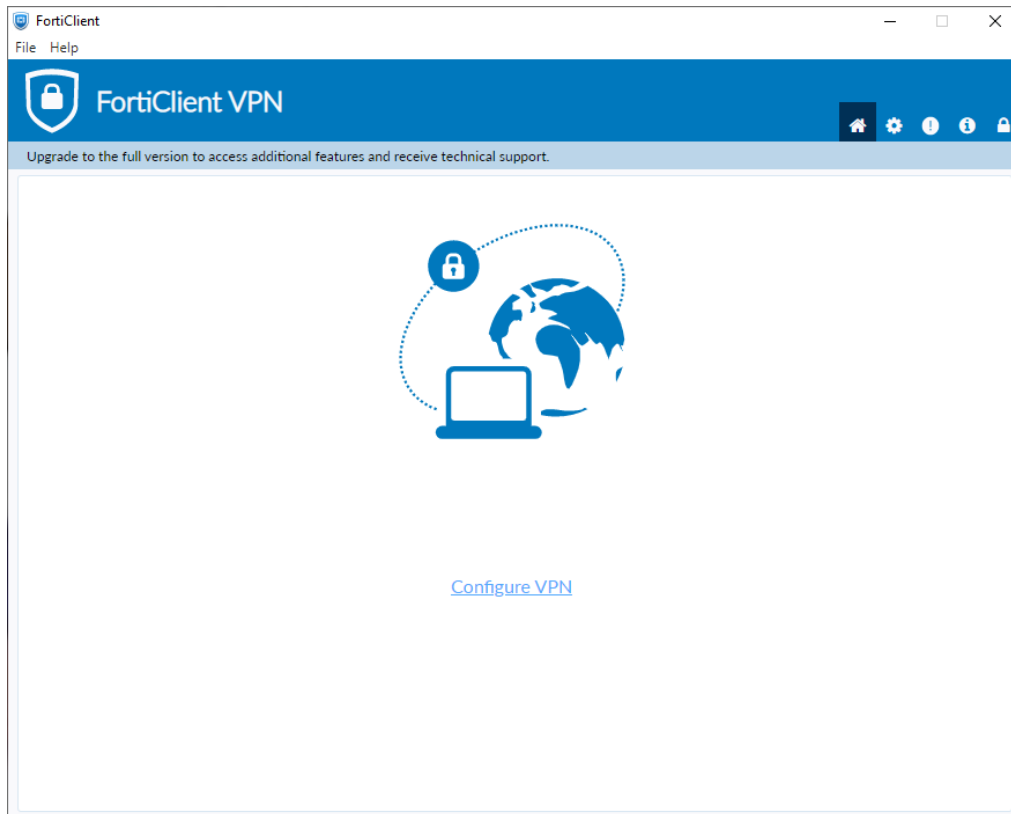
- After a successful installation, it will ask for permission to add FortiTray VPN Configurations to your device, click **Allow** to continue.




- 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**".



7. Click **"Configure VPN"**



8. Enter the configurations for the VPN as follows:
  - a. VPN: Select **SSL-VPN**
  - b. Connection Name: Name of your choosing (e.g. CS VPN)
  - c. Description: Any
  - d. Remote Gateway: **fortivpn.cs.odu.edu**
    - i. Check the box under Remote Gateway labeled: **Customize Port**
    - ii. Enter: **4443**
  - e. Client Certificate: **None**
  - f. Authentication Method: **Prompt on login**



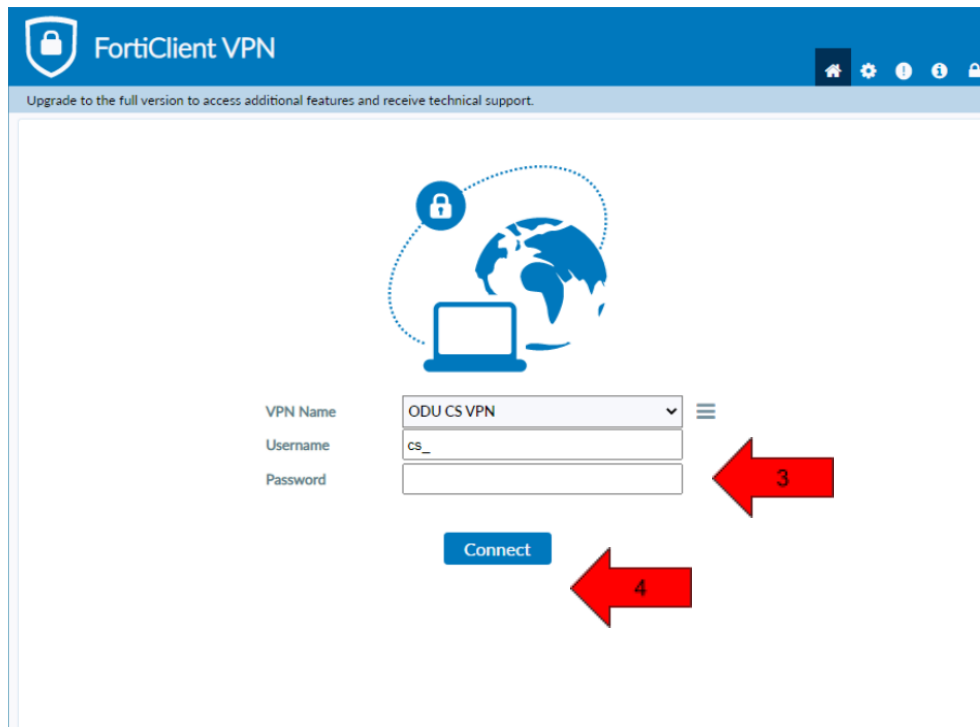
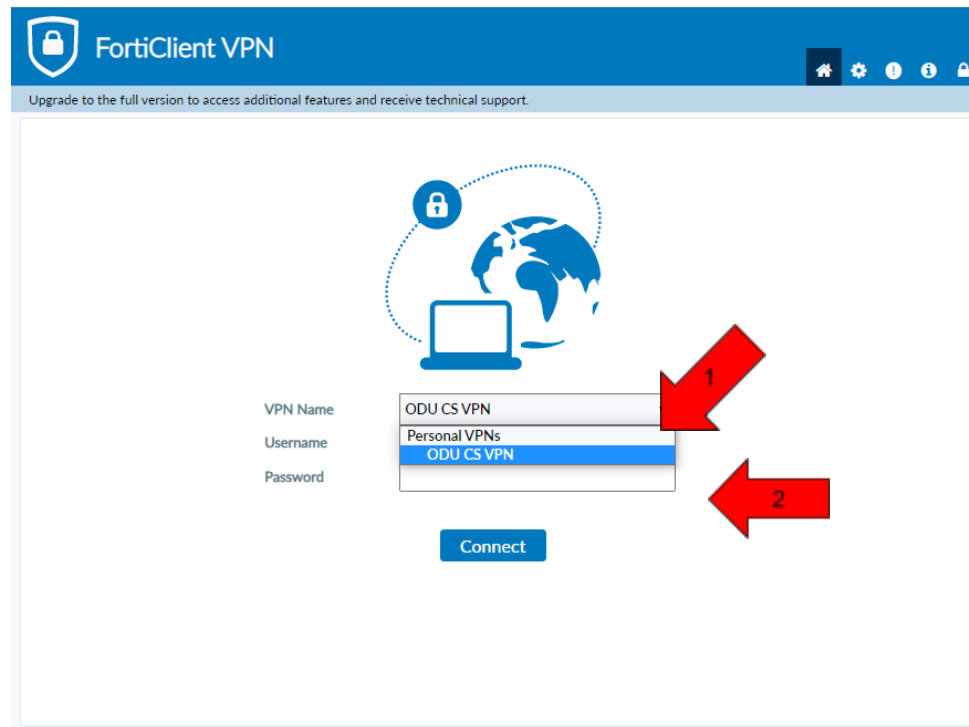
The screenshot shows the FortiClient VPN application window. The title bar says 'FortiClient'. The main window has a blue header with the FortiClient VPN logo and a navigation bar with icons for home, settings, help, and security. Below the header is a light blue banner that says 'Upgrade to the full version to access additional features and receive technical support.' The main content area is titled 'Edit VPN Connection'. It has three tabs: 'SSL-VPN' (selected), 'IPsec VPN', and 'XML'. The configuration fields are as follows: 'Connection Name' is 'ODU CS VPN'; 'Description' is empty; 'Remote Gateway' is 'fortivpn.cs.odu.edu' with a plus icon and a link to '+Add Remote Gateway'; 'Customize port' is checked with a value of '4443'; 'Enable Single Sign On (SSO) for VPN Tunnel' is unchecked; 'Authentication' has 'Prompt on login' selected; and 'Client Certificate' is 'None'. At the bottom are 'Cancel' and 'Save' buttons.

9. Finally, click **Save**.





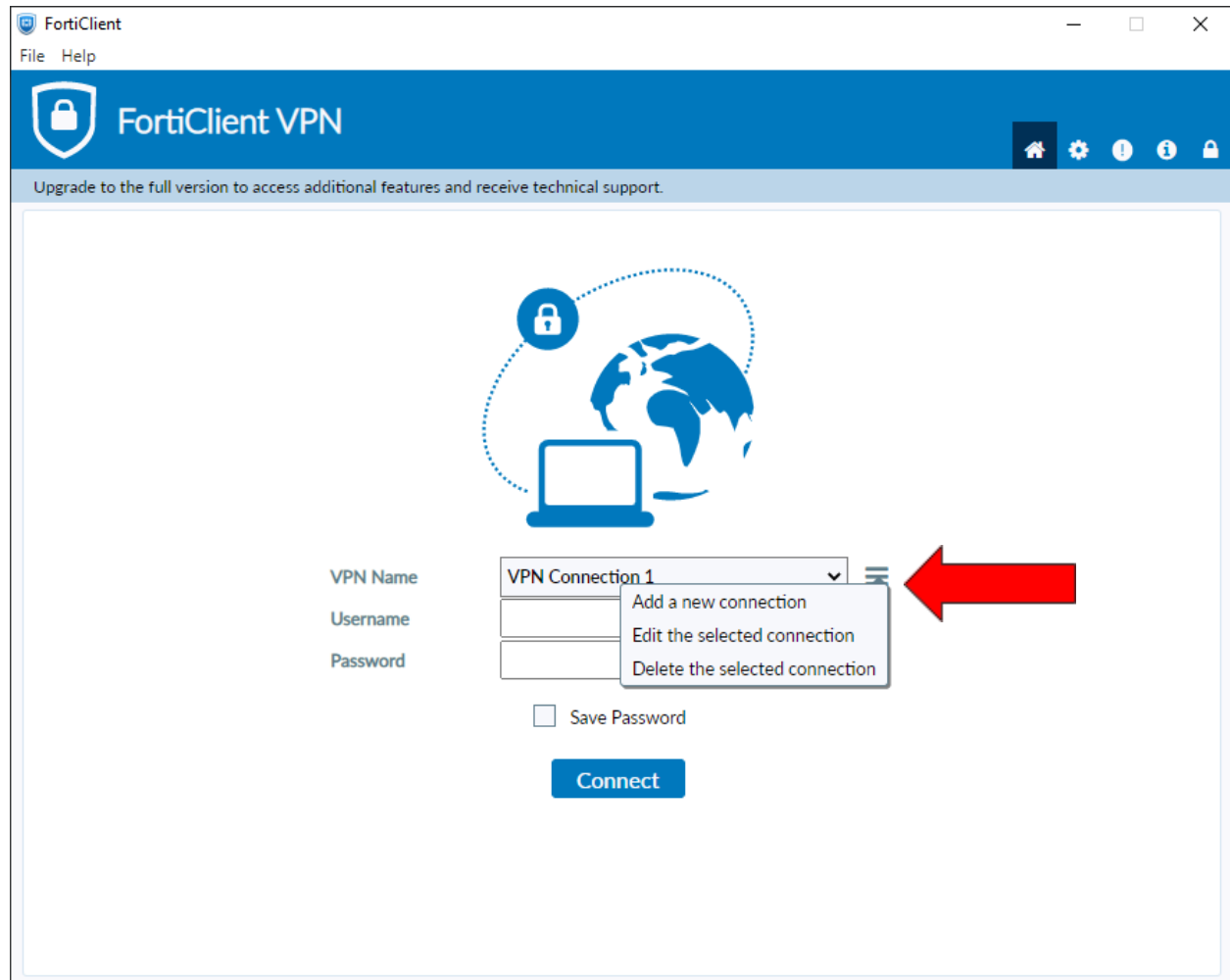
10. Select your created VPN Connection from the **drop down** menu. Enter your **ODU CS Credentials** and click **Connect**.



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.**

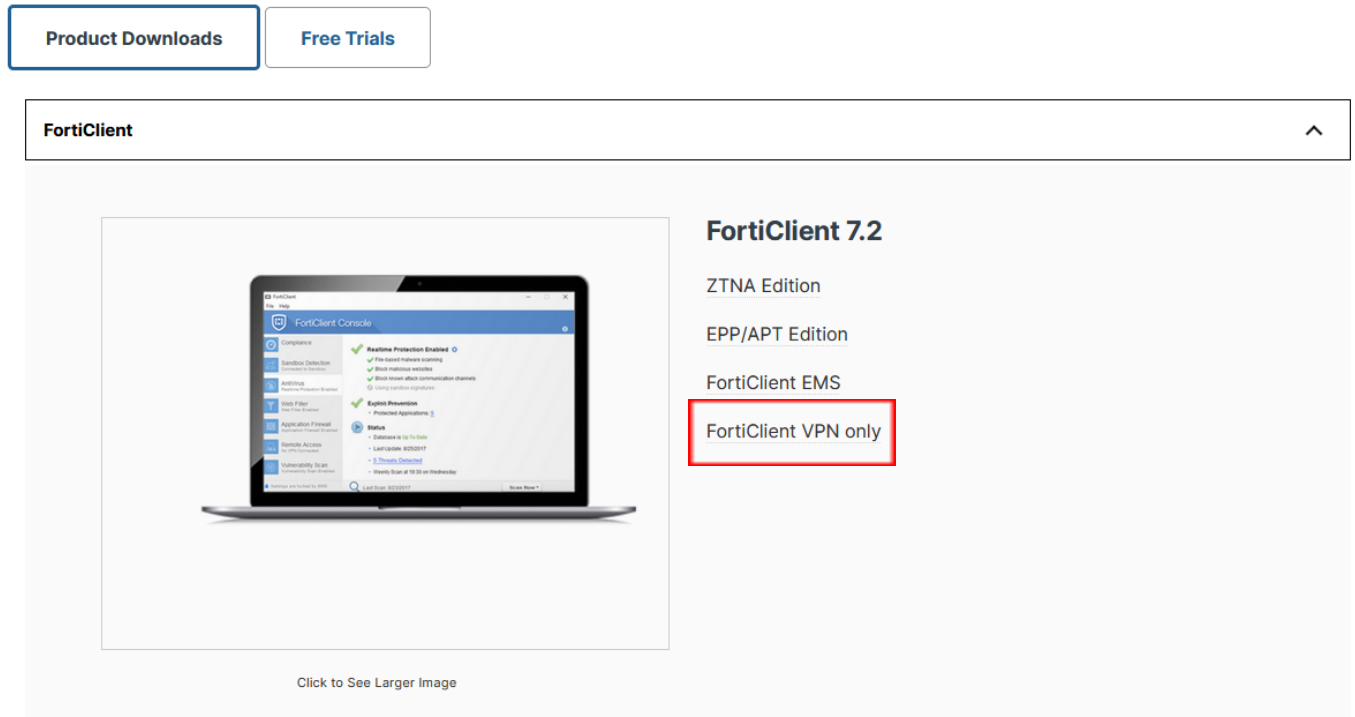
b. To edit or add a connection click the **three lines** on the **right side of the VPN Name box**:



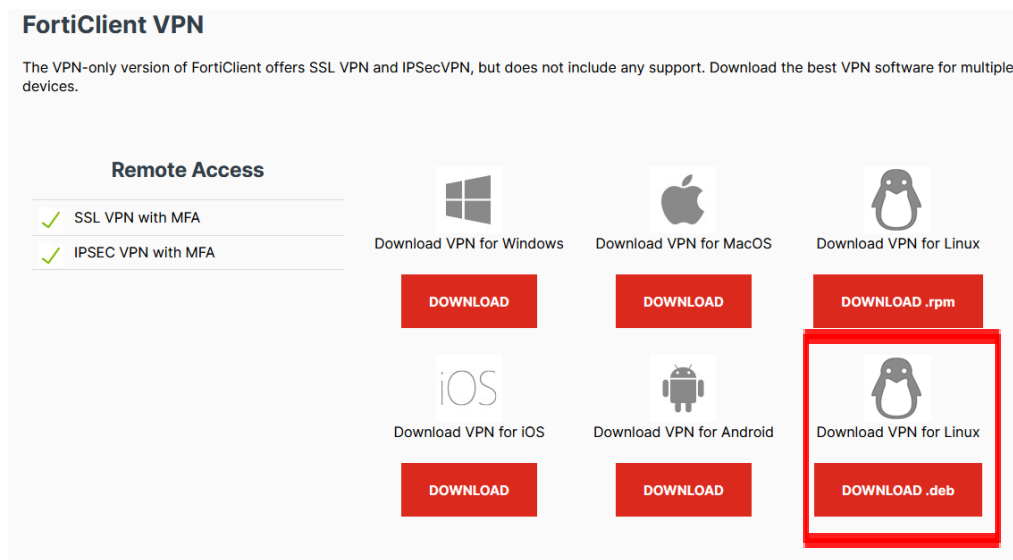
## Using Linux:

1. Use the following link and select the option outlined in the red box:

<https://www.fortinet.com/support/product-downloads> (it is recommended that the link be opening in a new tab).



2. After choosing the Forticlient VPN only option, there will then be options to download the Forticlient VPN relative to your system.
  - a. For Ubuntu or Debian based Linux Distributions choose the “Download VPN for Linux” and select the red box with “DOWNLOAD .deb”




- b. For CentOS or RHEL or Fedora based Linux Distributions choose the “Download VPN For Linux” and select the red box with “DOWNLOAD .rpm”


### FortiClient VPN


The VPN-only version of FortiClient offers SSL VPN and IPsecVPN, but does not include any support. Download the best VPN software for multiple devices.


#### Remote Access


- ✓ SSL VPN with MFA
- ✓ IPSEC VPN with MFA


  
Download VPN for Windows  
**DOWNLOAD**

  
Download VPN for MacOS  
**DOWNLOAD**

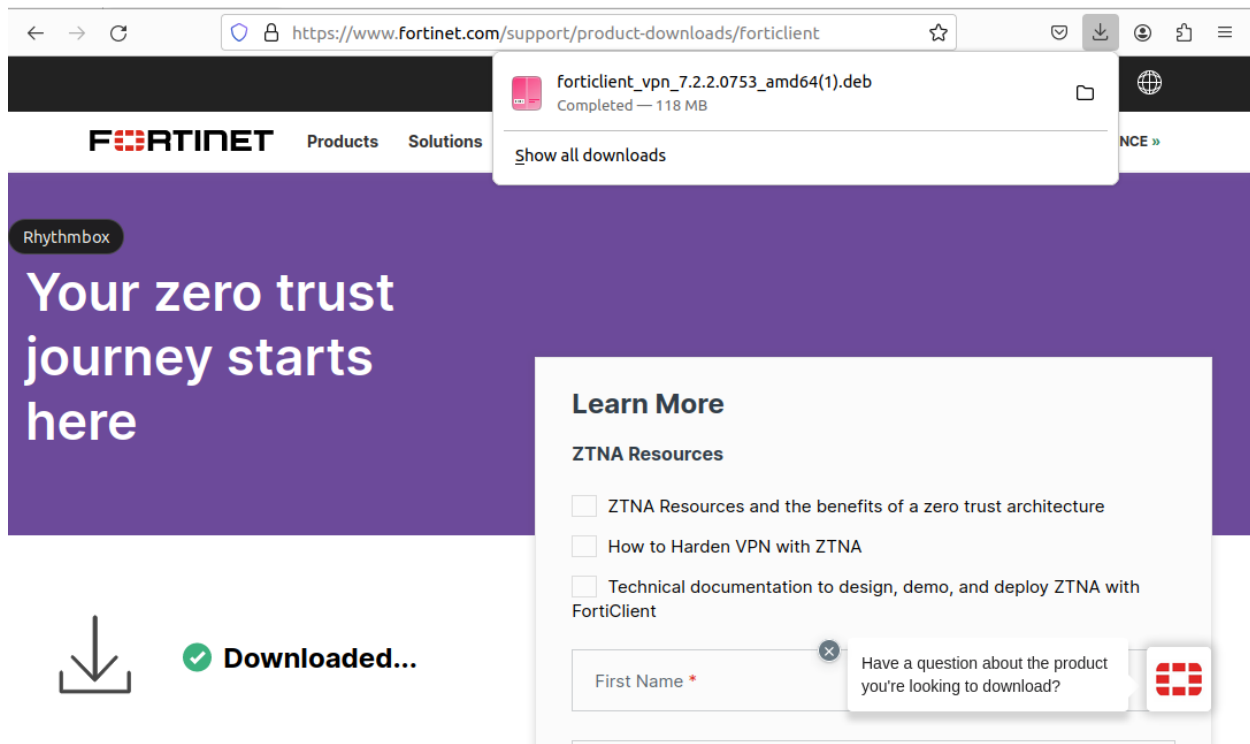
  
Download VPN for Linux  
**DOWNLOAD .rpm**

  
Download VPN for iOS  
**DOWNLOAD**

  
Download VPN for Android  
**DOWNLOAD**

  
Download VPN for Linux  
**DOWNLOAD .deb**

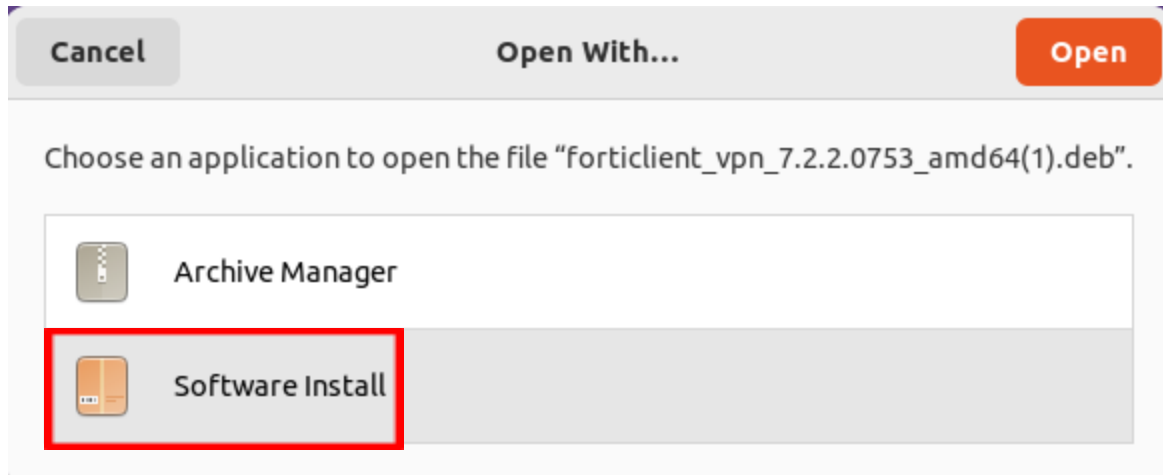
3. Navigate to the downloads tab of your web browser



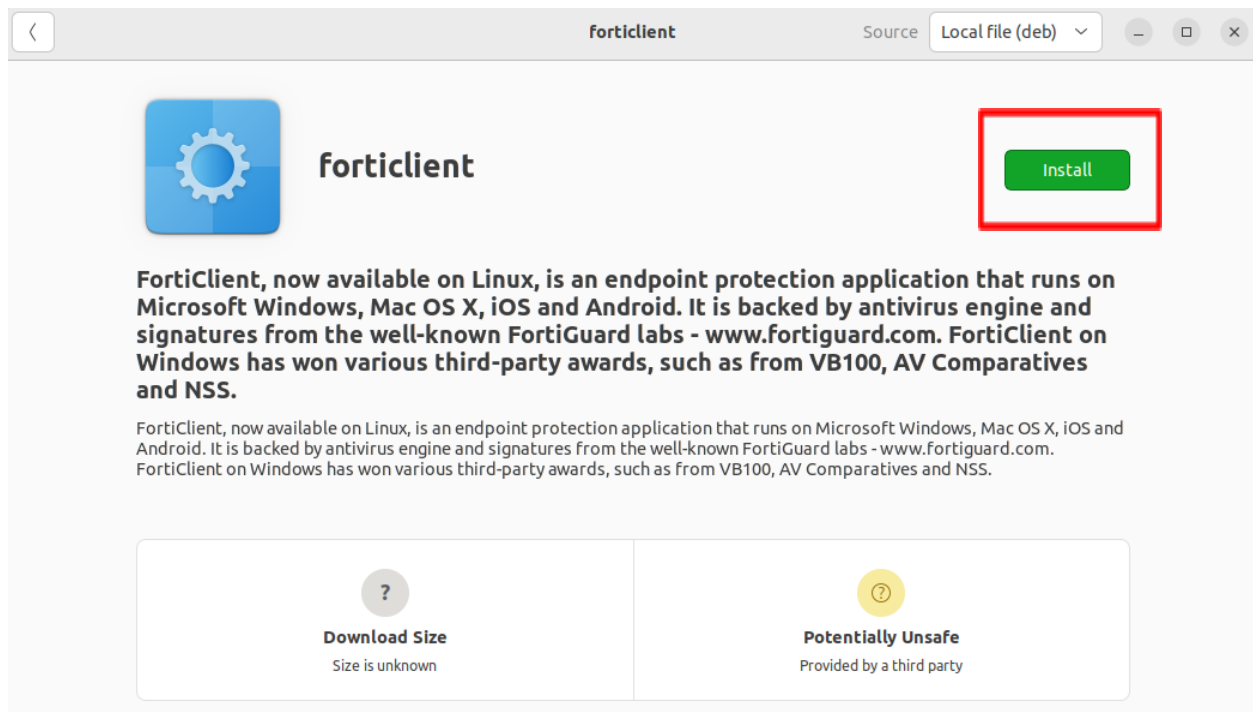
The screenshot shows a web browser window with the URL <https://www.fortinet.com/support/product-downloads/forticlient>. The page features the Fortinet logo and navigation links for Products and Solutions. A large purple banner reads "Your zero trust journey starts here". Below this, there is a "Learn More" section titled "ZTNA Resources" with three checkboxes: "ZTNA Resources and the benefits of a zero trust architecture", "How to Harden VPN with ZTNA", and "Technical documentation to design, demo, and deploy ZTNA with FortiClient". A "First Name" input field is visible. A download notification is displayed in the top right corner, showing a file named "forticlient\_vpn\_7.2.2.0753\_amd64(1).deb" with a size of 118 MB. A "Show all downloads" link is also present. In the bottom left corner, there is a download icon and a green checkmark with the text "Downloaded...".

4. Double-click the file, and choose what to open the download with.
  - a. Enable Third Party Software Repositories if required.

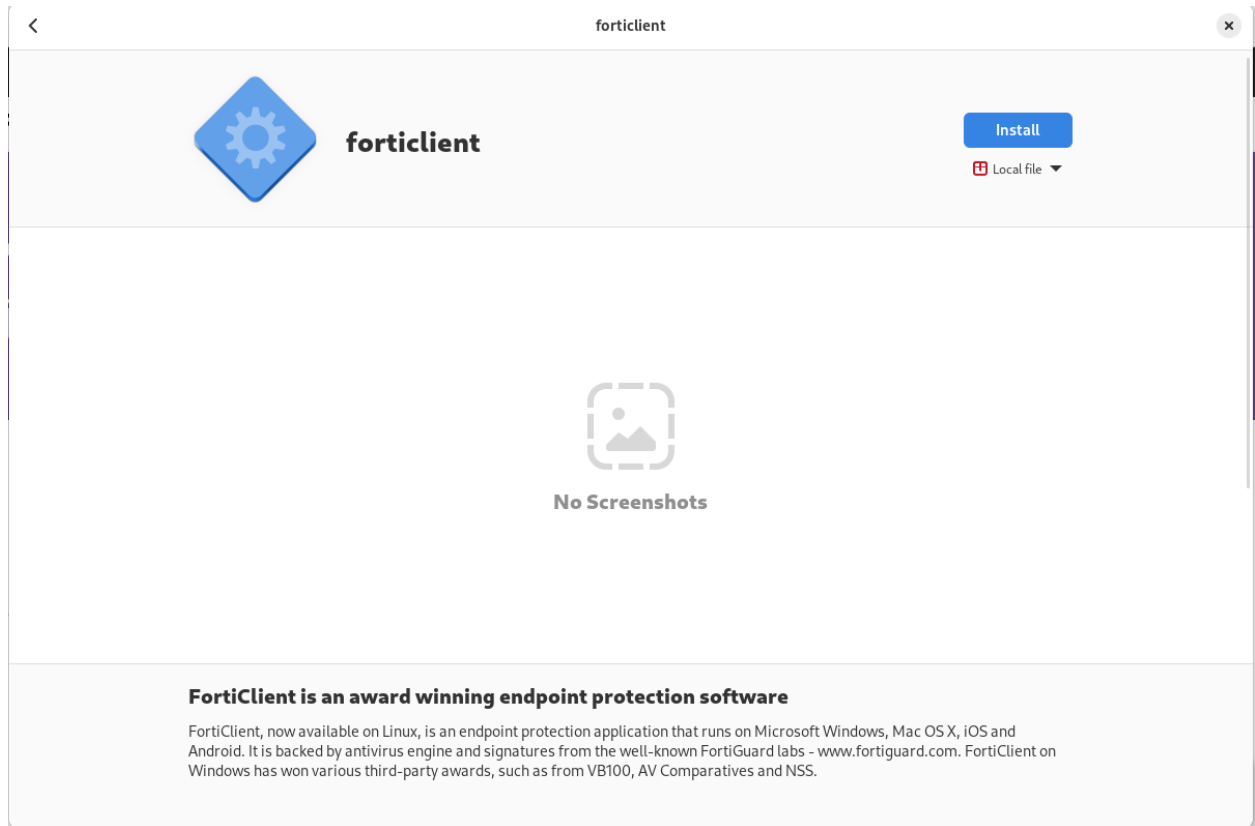




5. Select the Install button



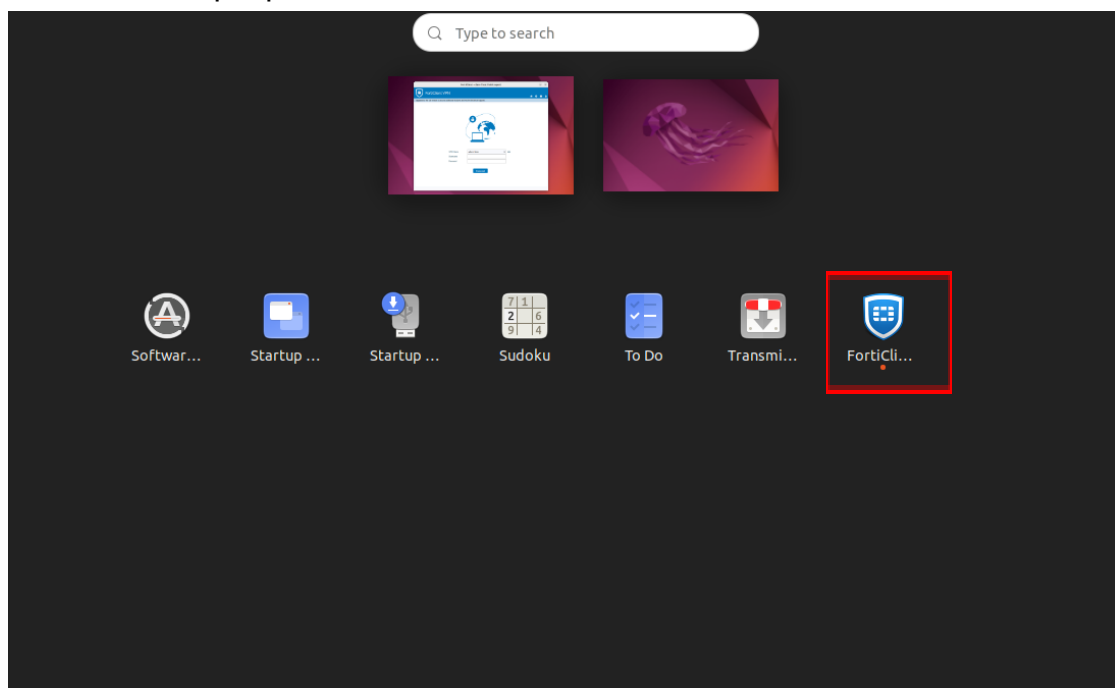
a. Debian based example above



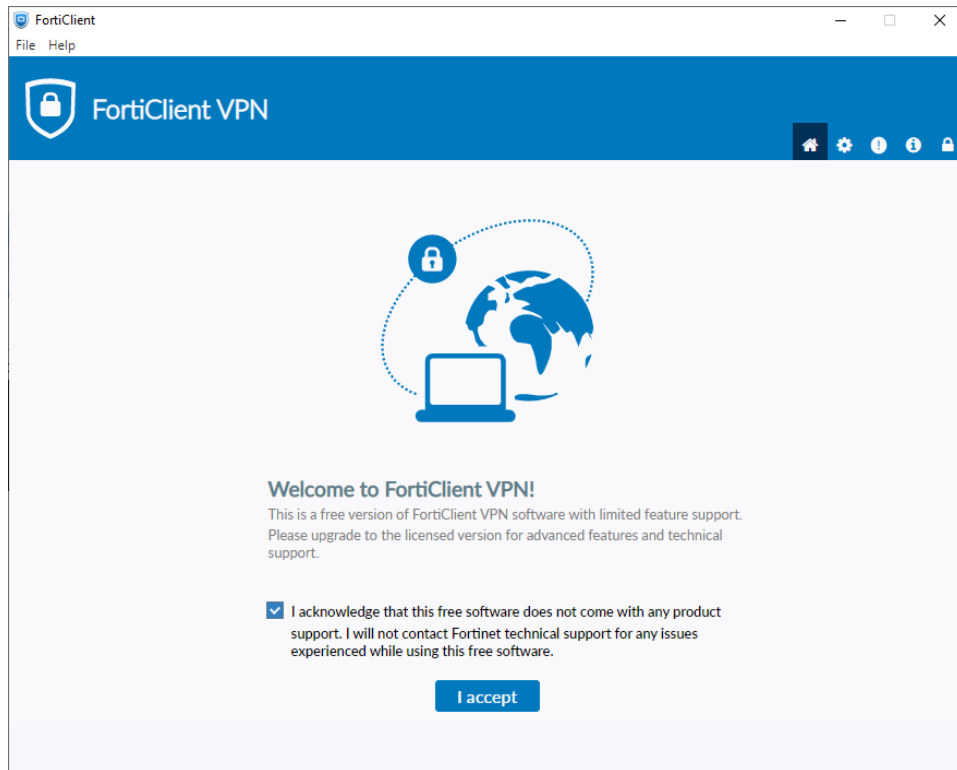
a. Fedora based example above

6. Open the Applications Menu and select Forticlient

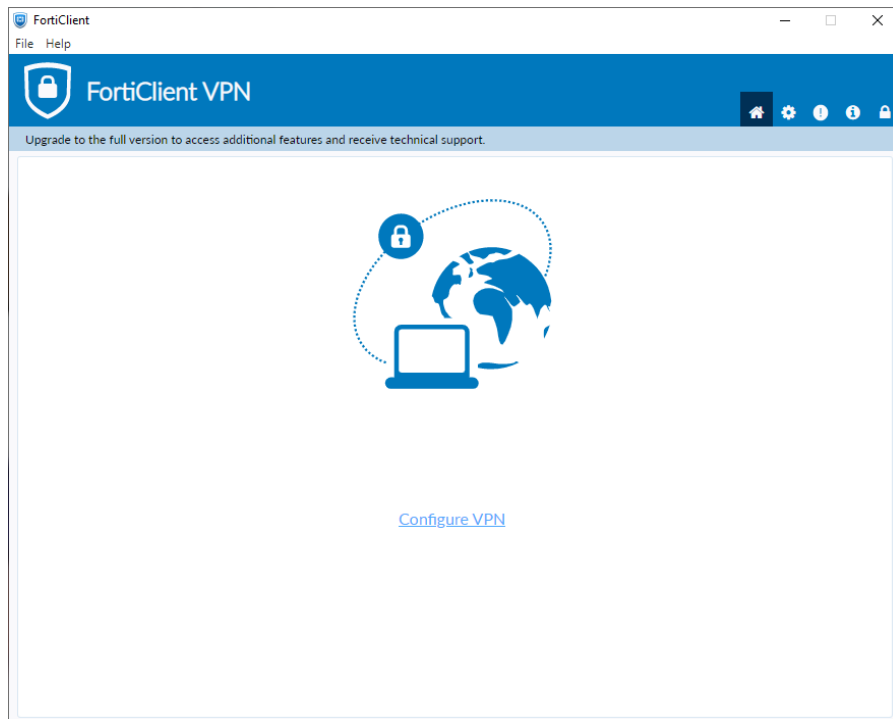
a. Example picture:



- 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"**.



- Click **"Configure VPN"**





9. Enter the configurations for the VPN as follows:
  - a. VPN: Select **SSL-VPN**
  - b. Connection Name: Name of your choosing (e.g. CS VPN)
  - c. Description: Any
  - d. Remote Gateway: **fortivpn.cs.odu.edu**
    - i. Check the box under Remote Gateway labeled: **Customize Port**
    - ii. Enter: **4443**
  - e. Client Certificate: **None**
  - f. Authentication Method: **Prompt on login**

FortiClient

FortiClient VPN

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

### Edit VPN Connection

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

Connection Name: ODU CS VPN

Description:

Remote Gateway: fortivpn.cs.odu.edu ✕

+Add Remote Gateway

☒ Customize port: 4443

☐ Enable Single Sign On (SSO) for VPN Tunnel

Authentication: ☒ Prompt on login ☐ Save login

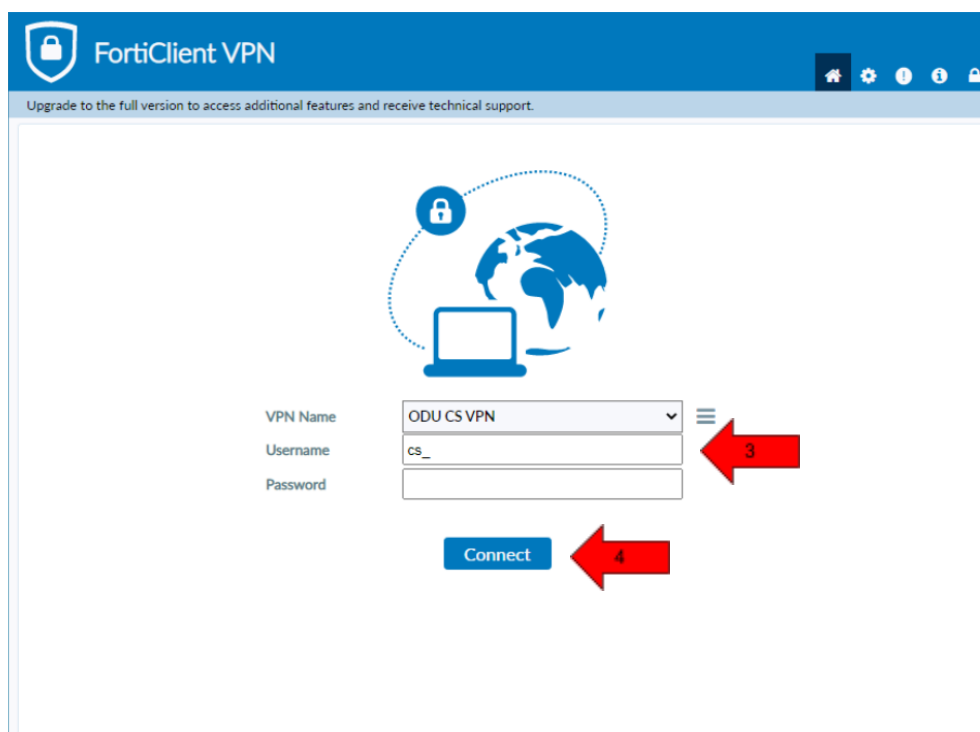
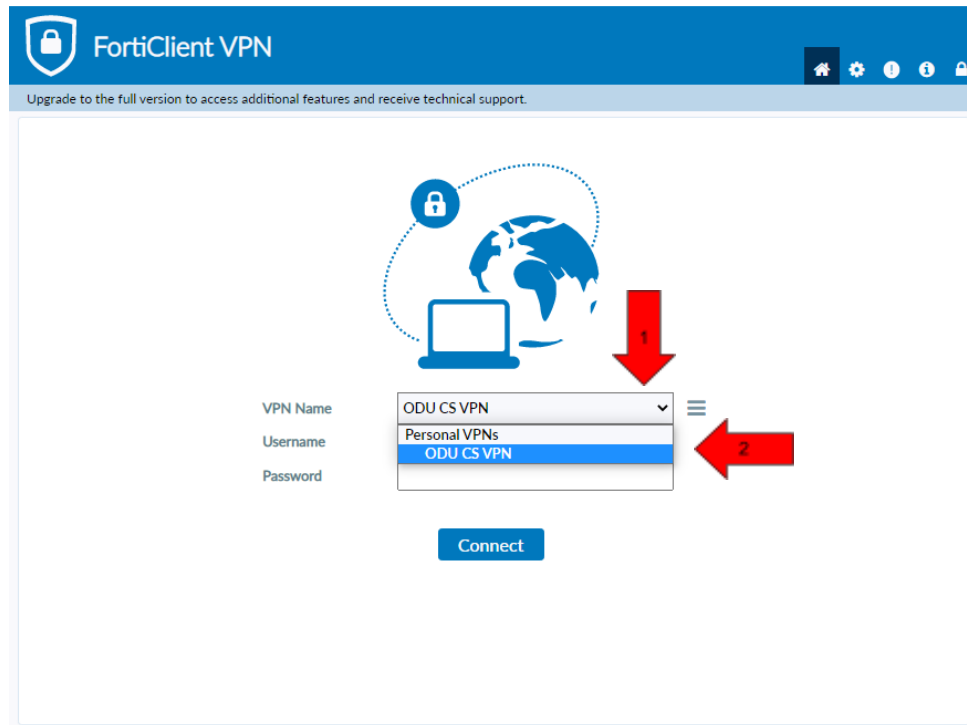
Client Certificate: None

Cancel Save

10. Save the configuration

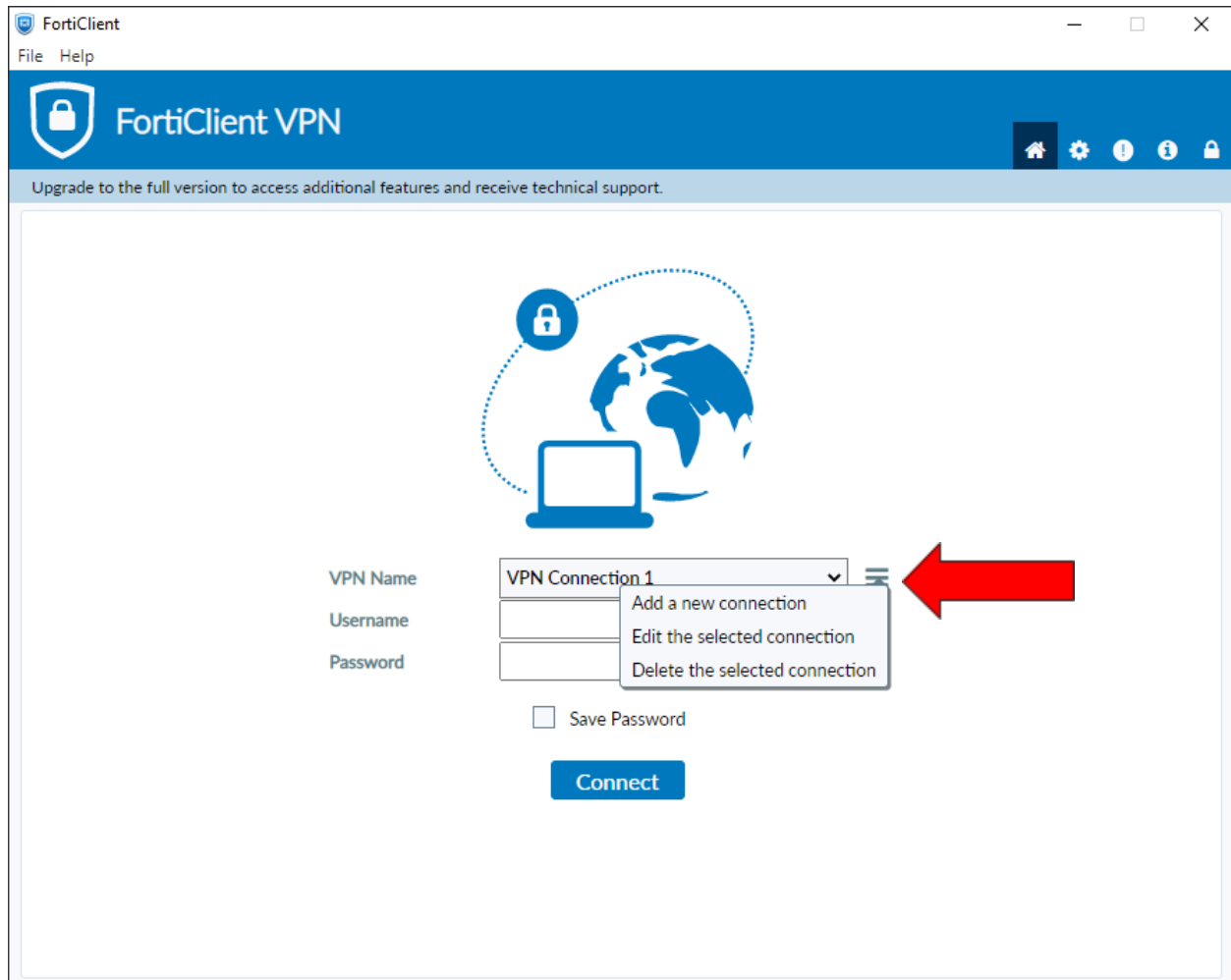
Cancel Save

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.**

13. To edit or add a connection click the **three lines** on the **right side of the VPN Name box**:



## FAQ/Trouble-shooting:

- For Legacy connections please contact [root@cs.odu.edu](mailto:root@cs.odu.edu)
- 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 [Windows](#) and [Mac](#) 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 [Windows](#) and [Mac](#) 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 [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 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-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 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](mailto:root@cs.odu.edu) for assistance.
    - **We are unable to help with any homework questions or assignments.**