## **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:

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

Product Downloads	Free Trials		
FortiClient			^
	Image: State Stat	FortiClient 7.2 ZTNA Edition EPP/APT Edition FortiClient EMS FortiClient VPN only	
	Click to See Larger Image		

- 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 FortiClient VPN

The VPN-only version of FortiClient offers SSL devices.	VPN and IPSecVPN, but does not ir	nclude any support. Download th	e best VPN software for multiple
Remote Access		<u> </u>	A
SSL VPN with MFA			U
IPSEC VPN with MFA	Download VPN for Windows	Download VPN for MacOS	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	DOWNLOAD .rpm
	Download VPN for iOS	Download VPN for Android	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	DOWNLOAD .deb

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

FortiClientVPNOnlineInstaller 7/22/2022 12:45 PM Application 3	3,142 KB
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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**.

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	er or dick Change to Back	er or dick Change to choose another.  Back Next  Back Next  Idk Back to review or change any of y it the wizard.	er or dick Change to choose another.

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".

S FortiClient		_		2	×
File Help					
FortiClient VPN	<b>#</b>	٠	!	i	
Welcome to FortiClient VPN!					
This is a free version of FortiClient VPN software with limited feature support. Please upgrade to the licensed version for advanced features and technical support.					
I acknowledge that this free software does not come with any product support. I will not contact Fortinet technical support for any issues experienced while using this free software.					
l 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			* 0	<b>!</b> i_	9
Upgrade to the full version to access additional feature	s and receive technical support.				
Edit VPN Conr	nection				
VPN	SSL-VPN IPsec VPN XN	1L			
Connection Name Description	CS SSL				
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.** 



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:

9 FortiClient		_		×	(
File Help					
FortiClient VPN	ŵ	٠	•	<b>i</b> )	9
Upgrade to the full version to access additional features and receive technical support.					
VPN Name   Username   Password     Save Password					
Save rassword					
Connect					

## Using Mac:

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

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

Product Downloads	Free Trials			
FortiClient				^
	Constant Start Star	and and the set of the	FortiClient 7.2 ZTNA Edition EPP/APT Edition FortiClient EMS FortiClient VPN only	
	Click to See Larger Im	age		

- 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

#### FortiClient VPN

The VPN-only version of FortiClient offers SSL devices.	. VPN and IPSecVPN, but does not ir	iclude any support. Download ti	he best VPN software for multiple
Remote Access	-	<u>_</u>	A
SSL VPN with MFA			Ŭ
VIPSEC VPN with MFA	Download VPN for Windows	Download VPN for MacOS	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	DOWNLOAD .rpm
	iOS		ð
	Download VPN for iOS	Download VPN for Android	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	DOWNLOAD .deb

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Locations	FortiClientVPNOnl			
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Orange				
Yellow				
Green				
Blue				
Purple				
Gray				
All Tags				

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

•••	FortiClientUpdate
FortiClientUpdat	"FortiClientUpdate" is an app downloaded from the Internet. Are you sure you want to open it?
	This item is on the disk image "FortiClientVPNOnlineInstaller_7.0.dmg". Safari downloaded this disk image today at 4:39 PM from <b>filestore.fortinet.com</b> Apple checked it for malicious software and none was detected.
	Don't warn me when opening applications on this disk image
	? Cancel Show Disk Image Open



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



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

	<b>"FortiTray" Would Like to Add VPN</b> <b>Configurations</b> All network activity on this Mac may be filtered or monitored when using VPN. Allow Don't Allow	
n		
n Select		
Туре		
	The installation was success	ful.
	The software was installed.	
	n Select Type	Image: Select Type         The installation was installed.

6. 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

	FortiClient				
FortiClient VPN			r 🗘	<b>i</b>	
Upgrade to the full version to access additional features a	nd receive technical support.				
Edit VPN Conne	ection				
VPN	SSL-VPN IPsec VPN XML				
Connection Name	ODU CS VPN				
Description					
Remote Gateway	fortivpn.cs.odu.edu	×			
	+Add Remote Gateway				
	Customize port 4443				
Authoritization	Enable Single Sign On (SSO) for VPN Tunnel				
Client Certificate	None				
client der uncate					
	Cancel Save				

9. Finally, click **Save**.



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

FortiClient V	'PN		<b>#</b> \$ 8 6 A
Upgrade to the full version to acces	s additional features a	nd receive technical support.	
	VPN Name Username Password	ODU CS VPN Personal VPNs ODU CS VPN Connect	2
FortiClient V	PN		<b># \$ 0</b> 6 A
upgrade to the full version to access	VPN Name Username Password	ODU CS VPN CS_ Connect	3

- 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**:

PortiClient	_		×
File Help			
FortiClient VPN	*	•	
Upgrade to the full version to access additional features and receive technical support.			
VPN Name Username Password VPN Connection 1 Edit the selected connection Delete the selected connection Save Password Connect			

# Using Linux:

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

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

Product Downloads	Free Trials		
FortiClient			^
		FortiClient 7.2 ZTNA Edition EPP/APT Edition FortiClient EMS FortiClient VPN only	
	Click to See Larger Image		

- 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"
     FortiClient VPN

The VPN-only version of FortiClient offers SSL V devices.	'PN and IPSecVPN, but does not ir	clude any support. Download th	e best VPN software for multiple
Remote Access	10	4	A
SSL VPN with MFA			U
IPSEC VPN with MFA	Download VPN for Windows	Download VPN for MacOS	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	DOWNLOAD .rpm
	iOS	-	ð
	Download VPN for iOS	Download VPN for Android	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	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**

ne VPN-only version of FortiClient offers S evices.	SL VPN and IPSecVPN, but does not ir	iclude any support. Download th	ne best VPN software for multi
Remote Access         SSL VPN with MFA         IPSEC VPN with MFA	Download VPN for Windows	Download VPN for MacOS	Download VPN for Linux
•	DOWNLOAD	DOWNLOAD	DOWNLOAD .rpm
	Download VPN for iOS	Download VPN for Android	Download VPN for Linux
	DOWNLOAD	DOWNLOAD	DOWNLOAD .deb

#### 3. Navigate to the downloads tab of your web browser



					forticlient_vpn_7.2.2.0753_x86_6 Completed — 134 MB	64.rpm		
FURTINET	Products	Solutions	Support & Service	es More	Show all downloads			INCE »
Your zer journey	o tru start	ıst :s hei	re	Learn I	More ources			1
				ZTNA I	Resources and the benefits of a zero t	rust architecture		
				Techni	cal documentation to design, demo, a	nd deploy ZTNA with FortiClient		
↓ •	Downlo	oaded		First Nar	ne*	ast Name *		
				Email Ac	ldress *			
	) Install	Now		Do you wor I conse email, comm	k in IT/Operations? O Yes O ent to receive promotional communi and social) from Fortinet. I understa unications with Fortinet at anytim	No cations (which may include pr and I may proactively opt out c Have a question about the produc you're looking to download?	ione, f .t	623

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



Cancel	Open Wil	:h	Open
Choose a	n application to open the file "fort	client_vpn_7.2.2.0753_	amd64(1).deb".
	Archive Manager		
	Software Install		
5. Sele	ct the Install button		4
<	fort	iclient Source	Local file (deb) 🗸 💷
	forticlient		Install
Fo Mi sig Wi an	rtiClient, now available on Linux, is an er crosoft Windows, Mac OS X, iOS and And natures from the well-known FortiGuard ndows has won various third-party awar d NSS.	ndpoint protection applicat froid. It is backed by antivir f labs - www.fortiguard.con ds, such as from VB100, AV	tion that runs on rus engine and n. FortiClient on Comparatives
For And For	tiClient, now available on Linux, is an endpoint protection a froid. It is backed by antivirus engine and signatures from t tiClient on Windows has won various third-party awards, s	application that runs on Microsoft Win .he well-known FortiGuard labs - www.l uch as from VB100, AV Comparatives a	dows, Mac OS X, iOS and fortiguard.com. Ind NSS.
	?	0	
	Downtoad Size Size is unknown	Potentially Uns Provided by a third	party

a. Debian based example above



- a. Fedora based example above
- 6. Open the Applications Menu and select Forticlient
  - a. Example picture:



7. 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**".

9 FortiClient	-	×
File Help		
FortiClient VPN	# 0	
<image/>		
laccept		

8. Click "Configure VPN"

FortiClient File Help FortiClient VPN	×
Upgrade to the full version to access additional features and receive technical support.	
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

Contraction FortiClient	
FortiClient VPN	<b>* 0 0</b>
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	- - - - - - - - - - - - - - - - - - -
10. Save the configuration	
	_

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

Save

Cancel



- 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**:

FortiClient	_	×	(
File Help			
FortiClient VPN	٠	i	9
Upgrade to the full version to access additional features and receive technical support.			
VPN Name         Username         Password         Save Password         Connection			

# FAQ/Trouble-shooting:

- For Legacy connections please contact 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 <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: <u>https://accounts.cs.odu.edu</u>
        - 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 <u>https://systems.cs.odu.edu/Account\_Password</u>
  - 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: <u>https://www.thewindowsclub.com/how-to-update-network-dri</u> <u>vers-windows-11</u>.
    - 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: <u>https://ww1.odu.edu/ts/access/two-factor-authenticati</u> <u>on/get-started</u>
- 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 <u>before</u> reaching out to root@cs.odu.edu for assistance.
    - We are unable to help with any homework questions or assignments.