

Office of Information Technology

UNIVERSITY OF COLORADO DENVER | ANSCHUTZ MEDICAL CAMPUS

Setting up CU Secure VPN service

1/29/2018

Contents

Why we are doing this	2
Register for CU Secure	2
Installing the VPN desktop client	5
Windows computing device	5
Apple computing device	15
Updating your Duo profile using the self-service portal	24
Troubleshooting tips	29
VPN Access Portal	29
GlobalProtect Desktop Client	29
Duo Registration and Mobile Client	30
General Connection Troubleshooting Tips	31



Why we are doing this

The purpose of CU Secure is to provide an extra layer of security to your account when using VPN services to help prevent attackers from using your password information to access CU resources.

CU Secure uses something you know (your password), something you have (your computing device or phone), and somewhere you are (on or off campus), to validate that you are the approved person to access CU resources.

The following are the instructions for using CU Secure for VPN on a Windows PC and a Mac.

Register for CU Secure

1. Install Duo Mobile to your mobile device from the Apple App store, Google Play or the Microsoft Store.



Important! There are multiple Duo apps. Please install the Duo Mobile app with the green logo, as shown.

2. Enroll for CU Secure by clicking on the access portal for your primary campus:

Important! You cannot be connected to the CU Denver or CU Anschutz trusted networks to access to these portals or they will show an error.

- a. CU Denver: <u>https://dc-vpn.ucdenver.edu</u>
- b. Anschutz Medical Campus: https://amc-vpn.ucdenver.edu
- 3. Login with your CU network username and password.

📴 Denver Anschutz		Duo Authentication
Web login Please sign in with your university credentials.	Denver Anschutz	Protect Your CU Secure Account
Username or email Password	Need help?	Two-factor authentication enhances the security of your account by using a secondary device to verify your identity. This prevents anyone but you from accessing your account, even if they know your password. This process will help you set up your account with this added layer of security.
Login		Start setup
Forgot your password? Need help?		



4. Select your preferred device type to receive the authentication request from the Duo application. We recommend using your mobile device, if possible.

Denver Anschutz <u>What is this?</u> D [*] <u>Need help?</u>	What type of device are you adding? Mobile phone RECOMMENDED Tablet (iPad, Nexus 7, etc.) Landline Continue

Duo Authentication

5. If you've selected a mobile phone, input the phone number of the device and select the type of phone.

Terver Anschutz <u>What is this?</u> [3] <u>Need help?</u>	Enter your phone number
Cherver Anschutz What is zwa2 Cf Need Zelia?	Duo Authentication What type of phone is UPhone Android Mindows Phone Other (and cell phones) Back Contense

Duo Authentication

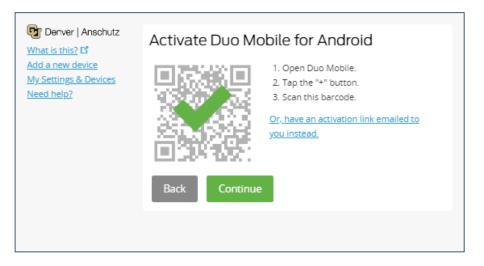


6. If you've chosen to authenticate using a mobile phone or tablet, install the app for your device from the iPhone App Store or Google Play for Android. Search for Duo Mobile.

\leftarrow Google Play	۹.
Duo Mobile Duo Security, Inc. Business	
UNINSTALL	OPEN
What's new Last updated Nov 30, 2018	hie undete adde
At Duo we care about your privacy. The anonymous usage analytics that will	
you use Duo Mobile. We utilize this a	nalytics data to improve
Read more	
Rate this app Tell others what you think	
	* *
Write a review	v
Developer contact	^
S Website	
🖼 Email	
support@duosecurity.com	

7. After installing the smart phone app, scan the barcode to activate and link to your phone.

Duo Authentication





8. Choose your preferred authentication method and Save your preferences.

Thenver Anschutz	My Settings & Devices
Add a new device My Settings & Devices Need help?	Device Options
	+ Add another device
	Default Device: Android
	When Hog in: Ask me to choose an authentication method

Duo Authentication

Installing the VPN desktop client

Windows computing device

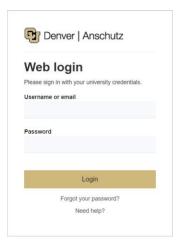
Each campus has its own VPN access portal: <u>https://dc-vpn.ucdenver.edu</u> and <u>https://amc-vpn.ucdenver.edu</u>. Using a Windows PC computing device, login in to your campuses' access portal as follows:

1. Copy and paste the access portal installation link for your campus into your preferred browser.



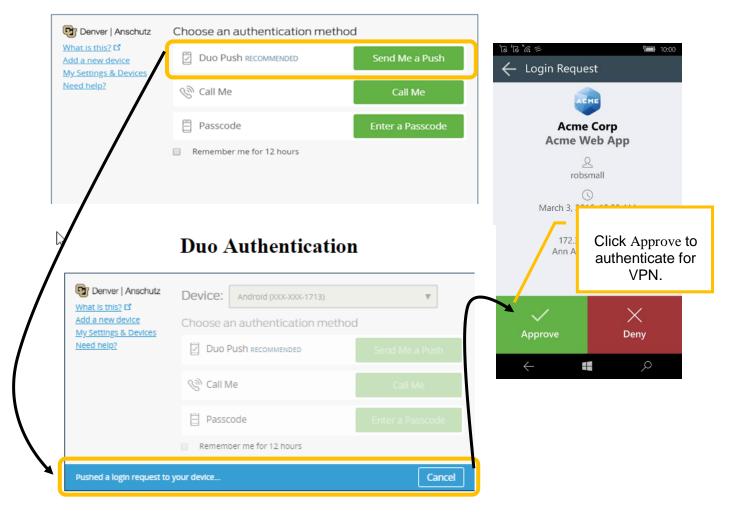


2. Login with your network user name and password.



- 3. Select your preferred Duo authentication method.
 - a. Duo Push:

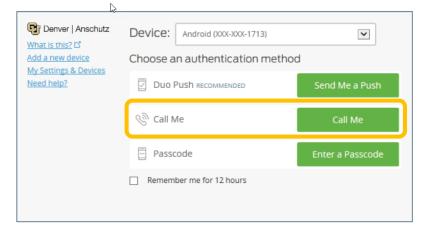
Duo Authentication





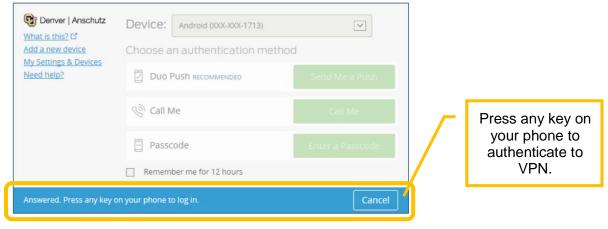
b. Call Me:

Duo Authentication



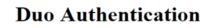
Duo Authentication

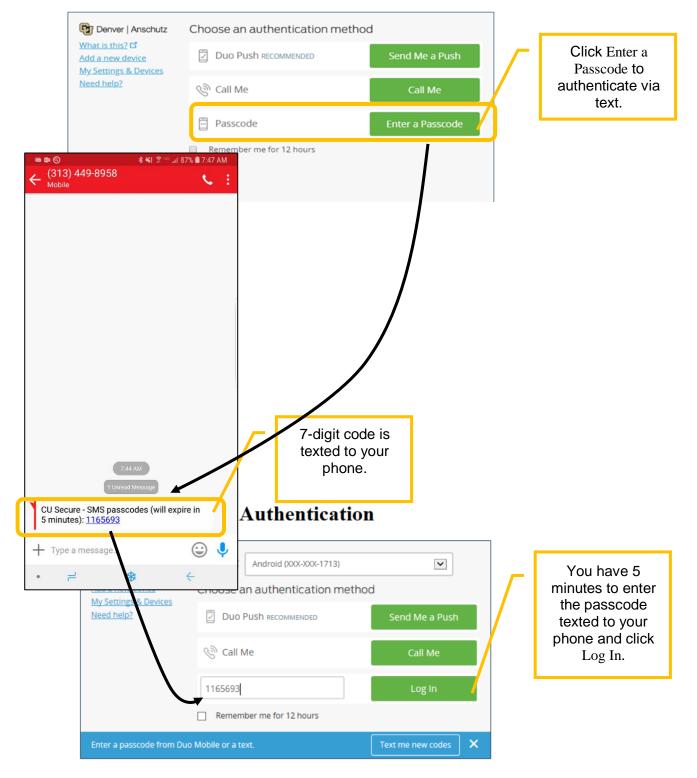
Denver Anschutz	Device: Android (XXX-XXX-1713) Choose an authentication method		
My Settings & Devices Need help?		Send Me a Push	
	🛞 Call Me	Call Me	
	Passcode	Enter a Passcode	Duo dials your registered phone.
	Remember me for 12 hours		registered priorie.
Dialing XXX-XXX-1713		Cancel	
	Duo Authenticatio	n	





c. Passcode:







4. Once authenticated, you will be directed to the Palo Alto website to download the GlobalProtect VPN client that is appropriate for your computer.

Important! Be sure to select the appropriate download for your Windows device! If you are not certain which agent to download, please contact the OIT Service Desk at <u>oit-servicedesk@ucdenver.edu</u> for assistance.



5. Look for the agent download file in our browser's download window or your Downloads folder. Double-click the .MSI file to install.





- 6. Follow the prompts through the installation process:
 - a. In the GlobalProtect Setup Wizard screen, click Next.

15	GlobalProtect	×
Welcome to the GlobalP	rotect Setup Wizard	paloalto
The installer will guide you through the s computer.	steps required to install GlobalPrc	itect∨4.1.6 on your
WARNING: This computer program is p Unauthorized duplication or distribution or criminal penalties, and will be prosed	of this program. or any portion of i cuted to the maximum extent poss	t, may result in severe civil ible under the law.
	Cancel < Ba	ck Next >

b. Select where you would like the application to be installed. We recommend keeping the default folder location.

18	GlobalProtect	_ 🗆 ×
Select Installation	n Folder	paloalto
	alProtect to the following folder. 'Next". To install to a different folder, enter	' it below or click "Browse".
	to Networks\GlobalProtect\	Browse
		Disk Cost
	Cancel	Back Next >

c. Click Yes when asked if you want to install the software (pop up window-not pictured).



d. Click Next to confirm the installation.

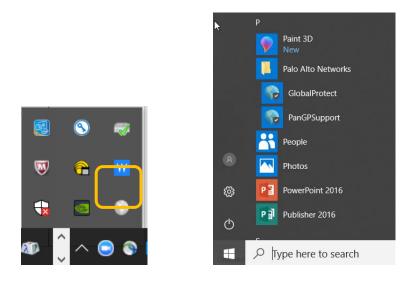
16	(GlobalProtect	_ 🗆 🗡 🗙
Confii	rm Installation		paloalto
	ller is ready to install GlobalProt xt" to start the installation.	ect on your computer	
		Cancel	< Back Next >

7. Close the installer following successful installation.

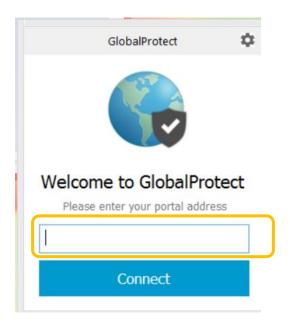
16	GlobalProtect	— 🗆 ×
Installation Co	mplete	paloalto
GlobalProtect has been Click "Close" to exit.	successfully installed.	
	Cancel	Back Close



 Start GlobalProtect VPN. In your task bar, find an icon that looks like a globe. You can also access GlobalProtect VPN under All Programs > Palo Alto Networks > Global Protect.



9. Enter your campus portal address – either <u>amc-vpn.ucdenver.edu</u> or <u>dc-vpn.ucdenver.edu</u> and click Connect.





10. Enter your network username and password (*NOT* your email address).

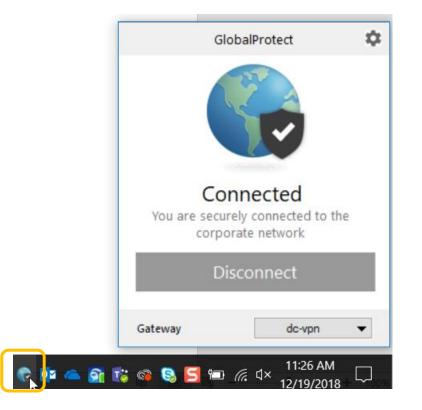
6	GlobalProtect Login
	Denver Anschutz
	Web login
	Please sign in with your university credentials.
	Username or email
	1
	Password
	Login
	Fornot your password?

11. Select your preferred Duo authentication method.

le a Push
ll Me
Passcode



- 12. Respond to your Duo Authentication.
- 13. You are now connected to your campus's network through VPN. Right-click the GlobalProtect globe in your Windows task bar to verify connection.

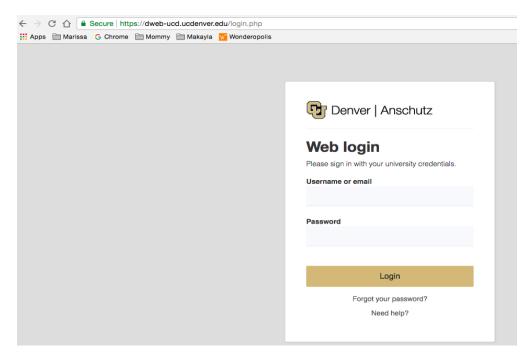




Apple computing device

Each campus has its own VPN access portal: <u>https://dc-vpn.ucdenver.edu</u> and <u>https://amc-vpn.ucdenver.edu</u>. Using an Apple Mac computing device, login in to your campuses' access portal as follows:

1. Copy and paste the access portal installation link for your campus into your preferred browser and enter your network login credentials.

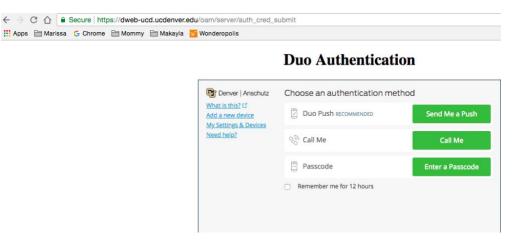




2. Install Duo Mobile on your iPhone through the App Store.

•••• AT&T LTE	11:54 AM	≠ 76% 💶 🖯
K Back		₫ ≔
DUO	Duo Mobile 4 Duo Security>	+
	★★☆☆☆ (15)	
Offers Apple Watch	App	
Details	Reviews	Related
iPhone		
Carrier * Biel And Login Request Protected by the Security	ter DUO	+ ten Dijo
ACHE		976984
Acme, Inc. Remote Access		we Personal Account
127 A.6.1	Tap here for herp.	Dev Account
TT 486 AND EET Politerung 9, 2015		
Augures Dary		
Apple Watch		
	Duo	1:20 PM Duo
Featured Top Charts	Explore	Q Updates

3. Select your preferred Duo authentication method. Refer to the <u>preferred method details</u> under the Windows PC installation section for functionality of each method.





4. Once authenticated, you will be directed to the Palo Alto website to download the GlobalProtect VPN client that is appropriate for your computer.

Select Download Mac32/64 bit GlobalProtect agent to install on a Mac.





5. By default, the installer is downloaded to your *Downloads* folder. Go to Finder and double-click GlobalProtect.pkg.

	🥪 Install GlobalProtect	
	Welcome to the GlobalProtect Installer	
 Introduction Destination Select Installation Type Installation Summary 	You will be guided through the steps necessary to install this software.	
	Go Back Continue	

6. Select where you would like to install the software.

	😺 Install GlobalProtect
	Select a Destination
 Introduction Destination Select Installation Type Installation Summary 	Select the disk where you want to install the GlobalProtect software.
	249.77 GB total Installing this software requires 22.4 MB of space. You have chosen to install this software on the disk "Macintosh HD". Go Back Continue



7. Check the box for GlobalProtect.

	😺 Install GlobalProtect		
	Custom Install on "Macintosh HD"		
	Package Name	Action	Size
Introduction	✓ GlobalProtect	Upgrade	22.4 MB
Destination Select	Uninstall GlobalProtect	Skip	Zero KB
Installation Type			
 Installation 			
 Summary 			
	Space Required: 22.4 MB	Remaining:	98.99 GB
		Go Back	Continue

8. Click Install to begin the installation.

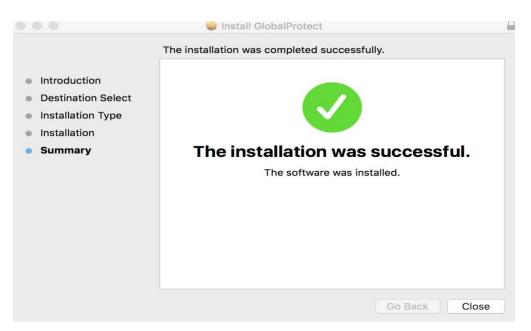
	🥪 Install GlobalProtect 🛛 🔒				
	Standard Install on "Macintosh HD"				
 Introduction Destination Select Installation Type 	This will take 22.4 MB of space on your computer. Click Install to perform a standard installation of this software on the disk "Macintosh HD".				
 Installation 					
 Summary 	Change Install Location				
	Go Back Install				



9. Enter your network credentials and click Install Software.

• • •		Install GlobalProtect
Introduc Destinat	Installer is your passw	trying to install new software. Type rord to allow this.
Installati	Username:	
 Installat 	Password:	
 Summar 		
		Cancel Install Software
		Go Back Continue

10. Close the installer.





Note: If you are running High Sierra, you may need to complete the following steps. If not, skip to step 14.

11. Open System Preferences.



12. Click on Security and Privacy.



13. High Sierra may generate a message informing that PaloAlto installed software and asking whether you would like to allow. Click the box to allow the software installation.



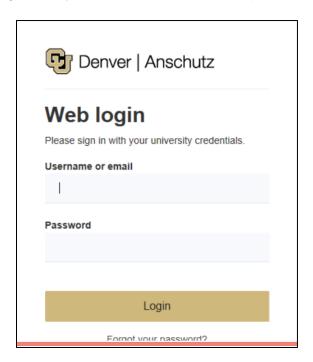
14. At the top of your Mac, you should see an icon that looks like a globe. Click on the globe.



15. Enter your campus VPN access portal address: <u>dc-vpn.ucdenver.edu</u> or <u>amc-vpn.ucdenver.edu</u>

Welcome to GlobalProtect Please enter your portal address
Portal Address
Connect

16. Log in with your network username and password.

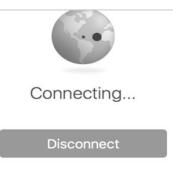




17. Select your preferred authentication method.

	Duo Authentication	1
Denver Anschutz	Choose an authentication metho	d
What is this? L ⁴ Add a new device My Settings & Devices		Send Me a Pusi
Need help?	🛞 Call Me	Call Me
	Passcode	Enter a Passcod
	Remember me for 12 hours	

18. After completing your authentication method, you will see a Connecting screen.





19. You are now connected to your campus's network through VPN.

	GlobalProtec	t 🌣
	Connecte securely connect corporate netwo	cted to the
	Disconnec	:t
Gateway		dc-vpn 👻

Updating your Duo profile using the self-service portal

Duo provides a self-service registration portal that allows you to add and remove devices, as well as update your authentication preferences. Perform the following tasks to add a devices or update your preferences.

- 1. Log into CU Secure by clicking on the access portal for your primary campus:
 - a. CU Denver: <u>https://dc-vpn.ucdenver.edu</u>
 - b. Anschutz Medical Campus: <u>https://amc-vpn.ucdenver.edu</u>



2. Login with your network username and password.

🔁 Denver Anschutz	
Web login	
Please sign in with your university credentials.	
Username or email	
I	
Password	
Login	
Fordot your password?	

3. Click Add a new device or My Settings & Devices in the left-hand navigation.

Denver Anschutz <u>What is this?</u> C <u>Add a new device</u> <u>My Settings & Devices</u>	Denver Anschutz What is this? C Add a new device My Settings & Devices Need help?	Device: Android (XXX-XXX-1713) Choose an authentication method	v Send Me a Push
Need help?		ତ୍ତି Call Me	Call Me
		Passcode	Enter a Passcode



4. Authenticate using your preferred method.

Denver Anschutz	What type of device are you adding? Mobile phone RECOMMENDED Tablet (IPad, Nexus 7, etc.) Landline Continue
-------------------	---

5. Select the type of device you are adding from the available options and click Continue. In this example, we are adding a work phone.

What is this? C Add in new device My Settings & Devices Need help?	What type of device are you adding? Mobile phone RECOMMENDED Tablet (IPad, Nexus 7, etc.) Landline Continue



6. Enter the phone you would like to add and click Continue.

Denver Anschutz	Enter your phone number	•
What is this? C Add a new device My Settings & Devices Need help?	United States +1 3037244825 Example: (201) 234-5678	
	Extension: You entered (303) 724-4825. This number already exists, replace it? Back Continue	

Note: You can enter an international number by selecting a different country from the country drop-down.

7. You new number is added.

Duo Authentication

Denver Anschutz	My Settings	& Devices	Í
Add a new device My Settings & Devices Need help?	🖗 Android	303-842-1713	Device Options
	📎 Landline	303-724-4825	Device Options
	+ <u>Add another de</u>	vice	
	Default Device:	Android 303-842-1713	×
	When I log in:	Ask me to choose an authentica	tion method 🔻

Note: You can set defaults for your preferences for your devices and login method.



a) Select your default device.

Duo Authentication

My Settings &	Devices	
Android 303	3-842-1713	Device Options
🗞 Landline 30	3-724-4825	Device Options
+ Add another device	2	
Default Device:	Android 303-842-1713	•
	Android 303 C Landline 30 Add another device Default Device:	Android 303-842-1713

b) Select your default contact method.

Duo Authentication

Denver Anschutz	My Settings	& Devices	
Add a new device My Settings & Devices Need help?	Android 3	303-842-1713	Device Options
	🕓 Landline	303-724-4825	Device Options
	+ <u>Add another de</u>	vice	
	Default Device:	Android 303-842-1713	v
	When I log in:	Ask me to choose an authentica	ation method
		Ask me to choose an authentica Automatically send this device a Automatically call this device	de la faite de la desta de la faite de



Troubleshooting tips

VPN Access Portal

Q: Do I need to reinstall the VPN access portal client each time I connect to VPN?

No. With the exception of periodic software updates, you will not need to reinstall the client.

Q: Do we have a VPN access portal for each campus?

Yes, each campus has its own VPN portal. These are <u>dc-vpn.ucdenver.edu</u> and <u>amc-vpn.ucdenver.edu</u>

Q: From where can I connect to VPN access portal?

You can connect from any remote location that is not on the campuses' trusted or wired networks. These include guest wireless, your home office, Starbucks, the mountains, the beach, etc.

Q: Can I connect to VPN from the campuses' wired networks?

No. You must be disconnected from the campuses' trusted networks.

Q: I can't connect to <u>https://dc-vpn.ucdenver.edu</u> and <u>https://amc-vpn.ucdenver.edu</u> from the Guest wireless network.

- a) If you are connecting on campus, ensure that you are fully disconnected from the trusted networks. Disconnect from your docking station to remove the wired connection, disconnect from CU Anschutz or CU Denver wireless, connect to CU Anschutz Guest or CU Denver Guest, and then try connecting to the appropriate client for your campus.
- b) If you are connecting off-campus, try clearing your browser cache or go to a site you haven't connected to before to ensure you are on the Guest wireless. You will see the Guest wireless "Accept" page prior to connection.

GlobalProtect Desktop Client

Q: My VPN client says GlobalProtect and is not CU branded. Is this malware?

No. GlobalProtect is the branding for our campuses' new VPN client from software vendor PaloAlto. GlobalProtect is safe to use.

Q: Is there a GlobalProtect client for Linux users?

Yes. Download the Linux client from https://www1.ucdenver.edu/docs/default-source/offices-oit-documents/vpn-client-software/global-protect-4-1-7-0-7-signed.apk?sfvrsn=851496b8_2&download=true.

Important! The Linux process is different from Windows and Mac. Linux users must contact the OIT Service Desk for a passcode with which to connect. Linux documentation will be posted on OIT's Service Impacting Projects tab for CU Secure at https://www1.ucdenver.edu/office-of-information-technology/news/article/office-of-information-technology/cu-secure-our-campuses-multi-level-initiative-to-make-your-data-more-secure!.



Q: Will the Cisco AnyConnect client go away or can I use this instead of GlobalProtect?

Yes. The Cisco AnyConnect client will be discontinued eight weeks after go-live on March 29. You must begin using the new process after March 29.

Q: Can I connect to <u>amc-anywhere.ucdenver.edu</u> or <u>auraria-anywhere.ucdenver.edu</u> with the GlobalProtect client?

No. Please use the new clients <u>dc-vpn.ucdenver.edu</u> and <u>amc-vpn.ucdenver.edu</u>.

Q: I can't connect to VPN using my installed version of GlobalProtect.

Under Programs, right-click on Palo Alto Networks > GlobalProtect > Uninstall. Uninstall and reinstall the agent.



Duo Registration and Mobile Client

Q: Is there a mobile client for all devices?

Yes. Duo Mobile exists for Android, Apple and Windows devices.

Q: Do I have to use a mobile device to authenticate to Duo?

No. You may also register a landline phone, like your office or home phone, and Duo will call you on that device to authenticate.

Q: Can I register my work or home email to authenticate to Duo?

No. Duo requires a landline phone or mobile device (smart phone or tablet) to perform multifactor authentication.

Q: I am accessing from China and am unable to connect.

China has a regulatory restriction on VPN clients that are not approved by the Chinese government. Please check with your provider to determine if their firewall allows VPN.



General Connection Troubleshooting Tips

Q: I am connected to the guest wireless network, but can't connect to <u>https://dc-vpn.ucdenver.edu</u> and <u>https://amc-vpn.ucdenver.edu</u>.

- a) Verify that your browser brought up the guest wireless acceptance page and that you have clicked Accept.
- b) Try clearing you browser cache to clear out past connections.

Q: I am accessing from off campus and am unable to connect to VPN.

- a) Check that you are connected to a wireless network or hotspot.
- b) Verify that the location from which you are connecting allows access to VPN clients.

Q: Does clicking on the "remember me for 12 hours" check box on the Duo window work?

No. Clicking on "remember me for 12 hours" does not work due to limitations in system.

Q: Will the multifactor authentication I use to access my personal information via the CU Resources tab in UCD Access change to the new process?

Not at this time. Please continue to authenticate within UCD Access using the current process. In the future, OIT will implement the current process on our portal access and at that time, the current process may change for accessing your personal information.

