Security Training



Part 1: Technical Setup

This purpose of this section is to install and configure your laptop with all of the necessary applications to get started working at ShapeShift



Passwords at ShapeShift

- You only need to memorize TWO passwords
 - Your laptop password
 - 2. Your 1Password master password
- **Every** other password is stored in 1Password



Methods for Memoriza<u>ble</u> Passwords

Hard:

Password → Memory



Easy:

Memory → Password



Methods:

- 1. Bruce Schneier's Method
- 2. The Mind Palace Technique



Bruce Schneier's Method

- Take a sentence and turn it into a password.
 - Should be **personal** or **memorable** to you
 - Abbreviate words and combine them in unique ways to form a password

Examples:

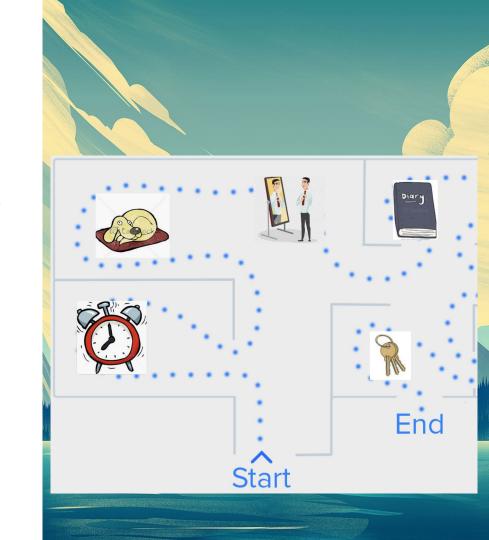
- WOO!TBwontSB
 - Woohoo! The Broncos won the Super Bowl!
- Ilf,w/asCooP/na()
 - I like fruit, with a scoop or in a hoop.



Mind Palace

Technique to turn an existing memory into a strong passphrase

- Pick an existing place and time from memory (i.e. childhood bedroom)
- 2. "Look around" the room. What do you see?
 - o (clock, dog bed, mirror, diary, key)
- String those things together to form the password
 - Add some numbers and/or symbols
 - 1Clock, Dogbed, mirror. Diary.keys
- 4. NEVER USE THINGS YOU CAN LOOK UP
 - It must be a PERSONAL memory



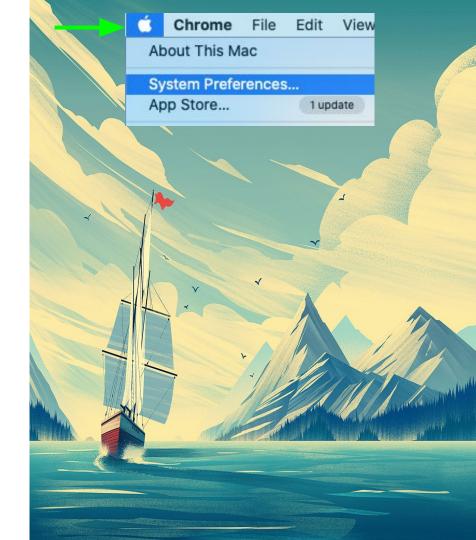
Do what's best for you!

As long as you can memorize the password easily

Laptop Password

To change your laptop password:

- Go to System preferences → Users & Groups
 → Change password
- Password policy (section 5.2)
 - **Must** be unique for every account
 - Must be a minimum of 14 characters
 - Must contain mixed case
 - Must contain numerals
 - Must contain non alphanumeric symbols



Install a Supported Browser

Safari doesn't support all Yubikey functions.

Choose a browser that does:



Chrome (https://www.google.com/chrome/)



Firefox (https://www.mozilla.org/en-US/firefox/new/)



Brave (https://brave.com/download/)



Opera (https://www.opera.com/download)

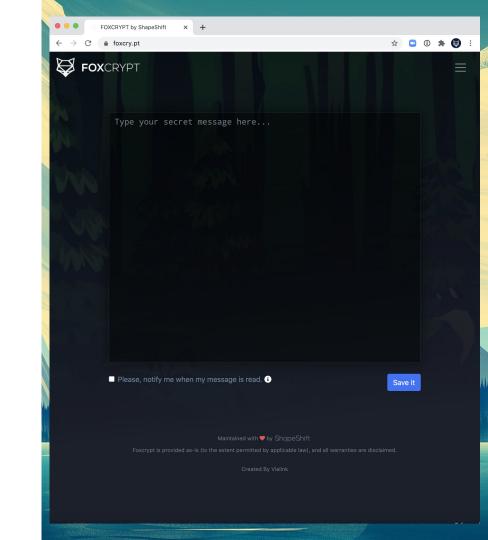


foxcry.pt

Website to quickly and securely share text with others (https://foxcry.pt)

- Auto-destructs messages after they're read
- Great way to share API keys, temporary passwords, and other sensitive data with foxes

Bookmark this tool in your favourite browser now



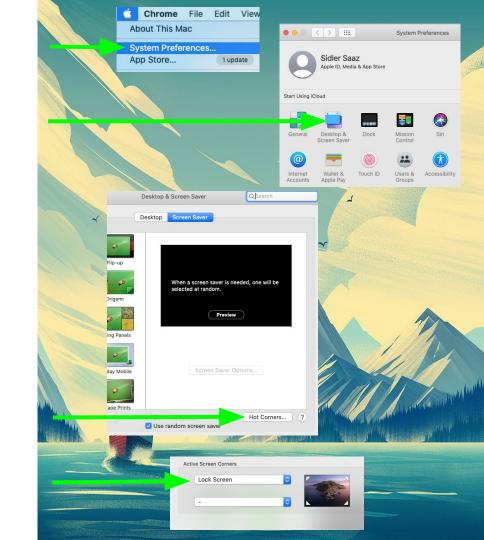
Lock Your Laptop

- You must build the habit of always locking your laptop when you're away from your computer
- Default lock time 10 mins (mdm policy)
- With Mouse: Apple menu →Lock Screen
- With Keyboard: Ctrl+Cmd+Q
- You may wish to configure a Hot Corner too



Lock Your Laptop

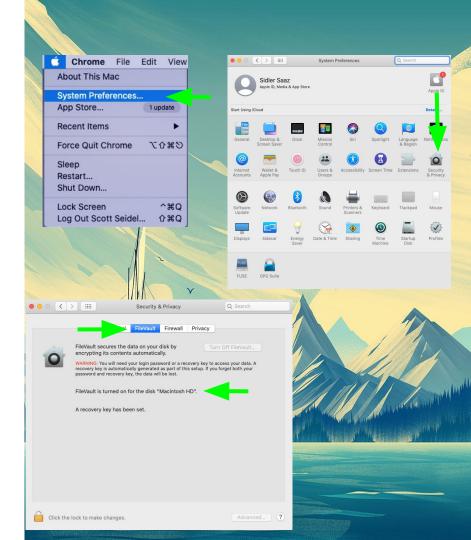
- Another method for quickly locking your screen is to set up a Hot Corner (optional)
- Go to System Preferences → Desktop & Screen Saver
- Click Hot Corners
- Pick a corner and choose the Lock Screen option



Check FileVault

FileVault encrypts the entire contents of your hard drive so if your laptop is lost or stolen the data is safe.

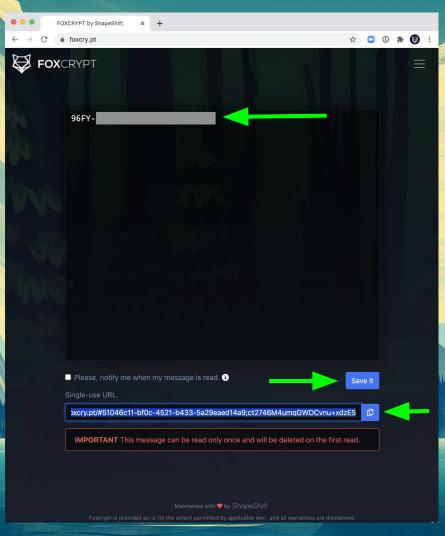
- Make sure FileVault is enabled
 - Apple menu → System Preferences → FileVault → FileVault is turned on for this disk "Macintosh HD"
- If it's not enabled, ask Security/IT to assist



Send FileVault Recovery Key

Send the Filevault recovery key via foxcrypt.

- Go to website (https://foxcry.pt)
- Copy the FileVault Recovery Key from open terminal window and paste it in foxcry.pt
- Click Save it
- Copy the URL & Paste the URL in a direct message to a member of the security team



1Password

Why do we use 1Password?

- A safe & encrypted place to store passwords
- Easy to share them if needed
- Easy to generate unique random password for all accounts
- Avoids bad password habits



1Password Setup

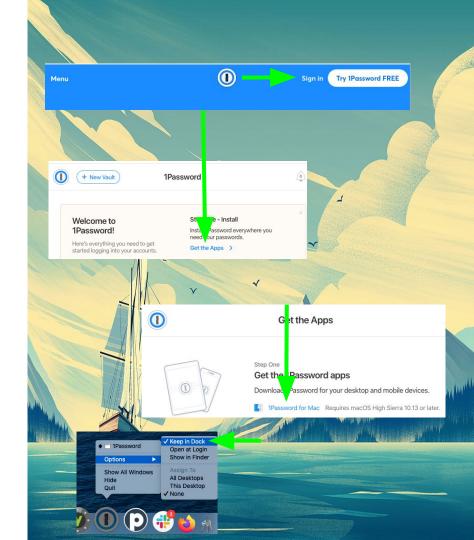
- 1. Login to your Alias gmail inbox
- 2. Accept invite for 1Password
- 3. Choose a Master Password
 - Remember tips for how to make memorable passwords!
- 4. Print and store emergency kit offline
 - Delete the digital copy after printing
 - Do not keep a digital copy!



1Password App

Install the Application:

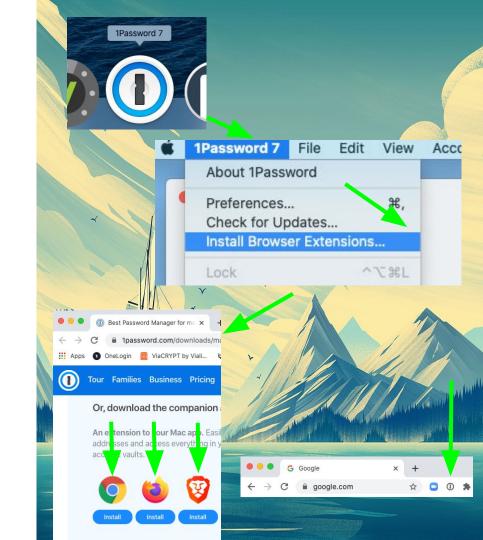
- Login to 1password.com (https://1password.com/)
- Click on Get the Apps
- Click on 1Password for Mac
- Recommended:
 - Select the option to "Keep in Dock"



Install 1Password Browser Extension(s)

Installing the Browser Extension(s):

- Launch the 1Password Application
- Go to the 1Password menu →Install Browser Extensions
- Select the installer for the browser(s) you have installed
- Extension should now show in your browser(s)

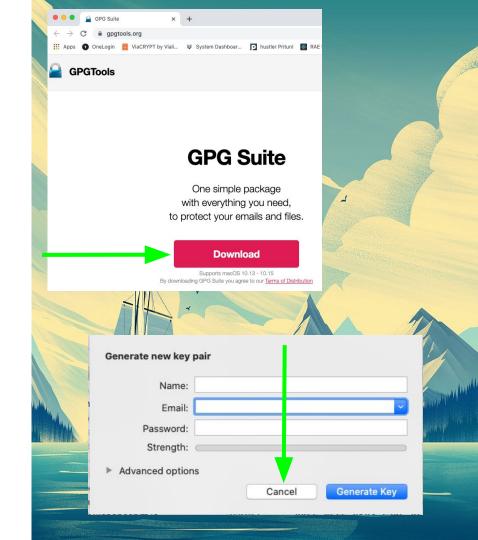


GPGTools

- GPGTools is used to encrypt, decrypt, sign and verify files or messages.
- This allows you to detect impersonation

Install GPG Tools (https://gpgtools.org/)

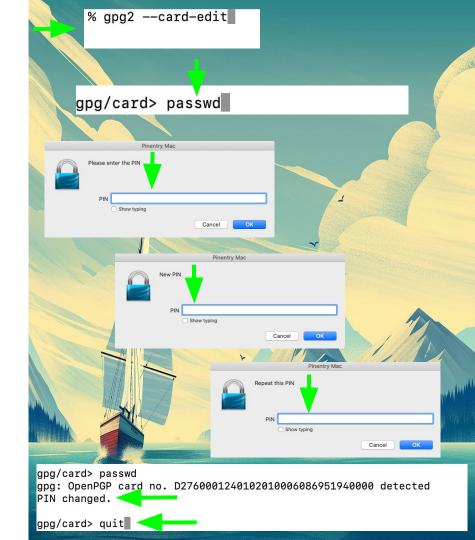
- Download and install the .dmg image
- Click **Cancel** when prompted to generate a new key pair
- Your key pair has already been generated
 - Yubikey (private key)
 - Pubkeys.zip (all ShapeShift public keys)



Set Your GPG PIN

Setup your personal GPG PIN:

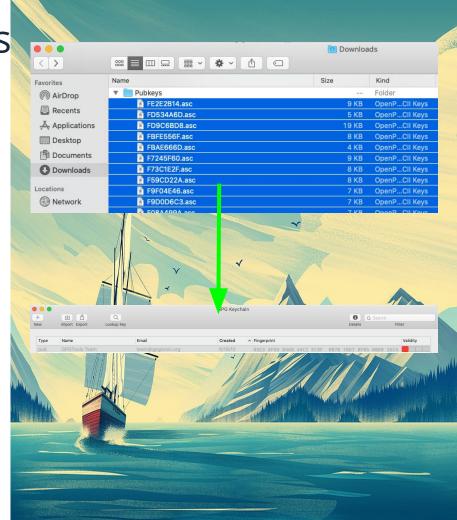
- Create a new 6 digit PIN in 1Password ①
 - Name it "Yubikey PIN"
- Change your Yubikey's PIN
 - Insert your Yubikey
 - Open "Terminal"
 - Type: gpg2 --card-edit
 - Type: passwd
 - Enter the default PIN (security provided)
 - Enter your new PIN and verify



Install Employee Public Keys

Add all employee public keys to your GPG keyring:

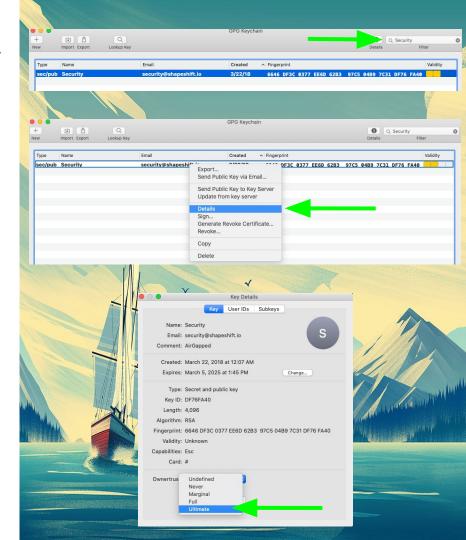
- Download Pubkeys.zip from <REDACTED>
 - Unzip into a temporary folder
- Open GPG Keychain app
- Select all the keys and drag them into GPG Keychain



Trust "Security" Public Key

Trust the "Security Public key:

- Open GPG Keychain app
- Search for <u>security@shapeshift.io</u>
 - Make sure the fingerprint matches:
 - 6646 DF3C 0377 EE6D 62B3
 97C5 04B9 7C31 DF76 FA40
- Highlight the Security Key
- Right Click and go to Details
- Ownertrust → Ultimate



Yubico Authenticator

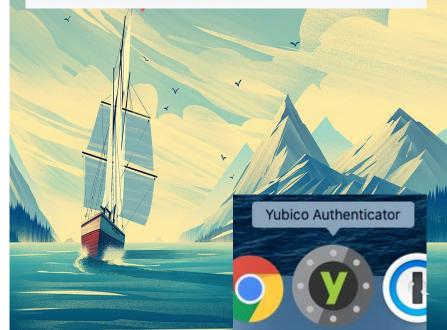
Yubico Authenticator is an app that helps keep your ShapeShift accounts secure.

- Works like Google Authenticator, but uses your Yubikey
- Install Yubico Authenticator:
 - Download the installer
 (https://www.yubico.com/products/services-software/download/yubico-authenticator/)
 - Run the installer
- Recommended:
 - Keep Yubico Authenticator pinned in your Dock

Desktop Yubico Authenticator

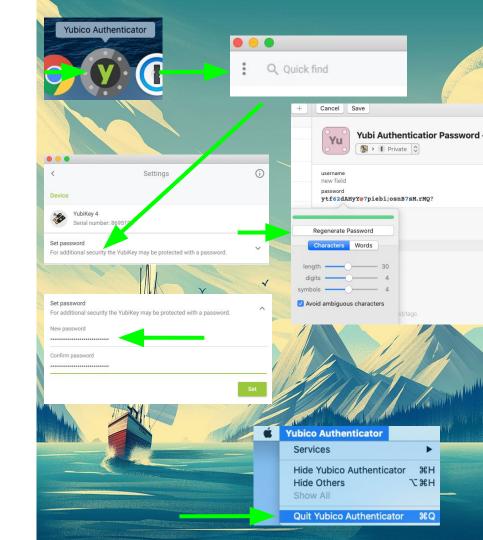
Use the Yubico Authenticator for Desktop on your Windows, Mac, or Linux computers to generate OATH credentials on your YubiKeys.

- Linux Download
- Mac (OS X and macOS) Download
- Microsoft Windows (32 Bit) Download
- Microsoft Windows (64 Bit) Download



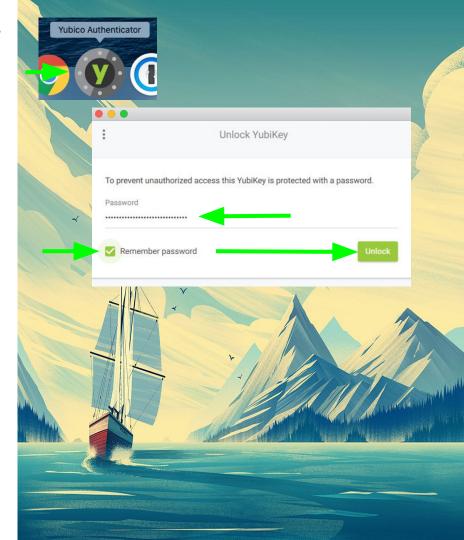
Add a password to Yubico Authenticator

- Create a new password
 - Open 1Password ①
 - Create a new password record
 - Name: Yubico Authenticator
 - Save it
- Insert your YubiKey
- Launch Yubico Authenticator
- Click on Settings (3 dots)
- Click on Set Password
- Copy your Yubico Authenticator password into the New Password textbox
- Click Set
- Quit Yubico Authenticator



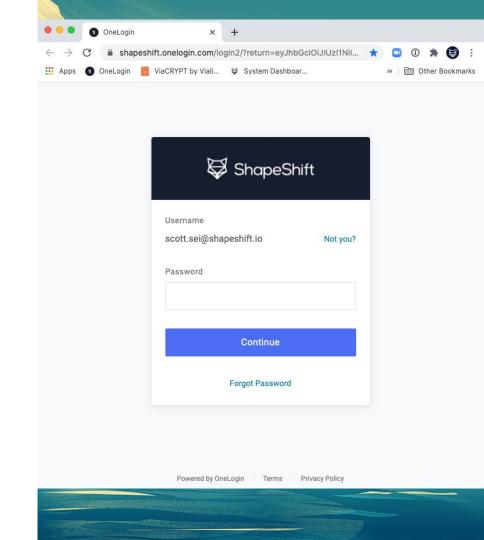
Save Yubico Authenticator Password

- Insert your Yubikey
- Launch Yubico Authenticator
- Enter your password from 1Password
- Remember password
- Click Unlock
- Restart Yubico Authenticator to verify it is saved



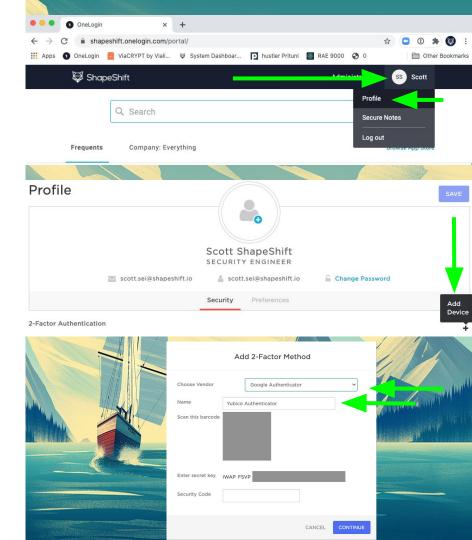
Set Up OneLogin

- Login to OneLogin
 - (<u>https://shapeshift.onelogin.com/</u>)
- Username: <u>first.las@shapeshift.io</u>
- Password: (will be provided via foxcry.pt)
- Insert Yubikey (Tap when prompted)



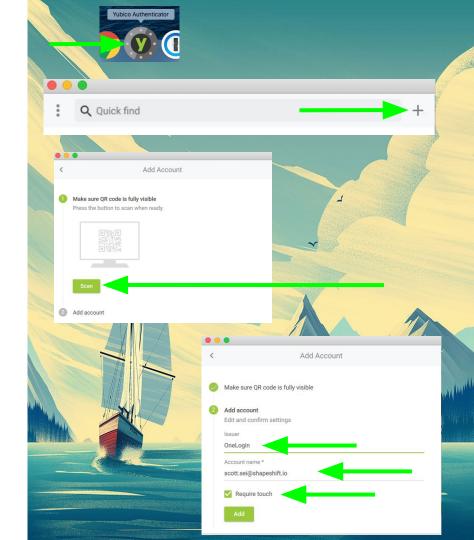
Set Up OneLogin 2FA

- Log into OneLogin
 - (https://shapeshift.onelogin.com/)
- At top-right corner, click Name → Profile
- Click on Add Device (+)
- Add 2-Factor Method:
 - Vendor: Google Authenticator
 - Name: Yubico Authenticator



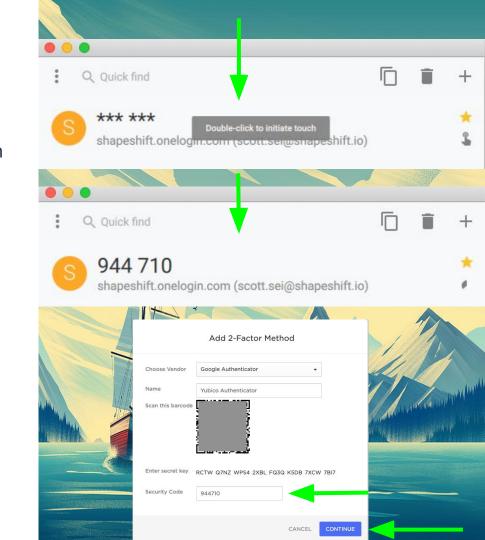
Set Up OneLogin 2FA (continued)

- Insert your Yubikey
- Launch Yubico Authenticator
- Click the + to add a authenticator
- Click Scan
- Confirm Details:
 - Issuer: OneLogin
 - Account Name: <u>first.las@shapeshift.io</u>
 - Require touch
- Click



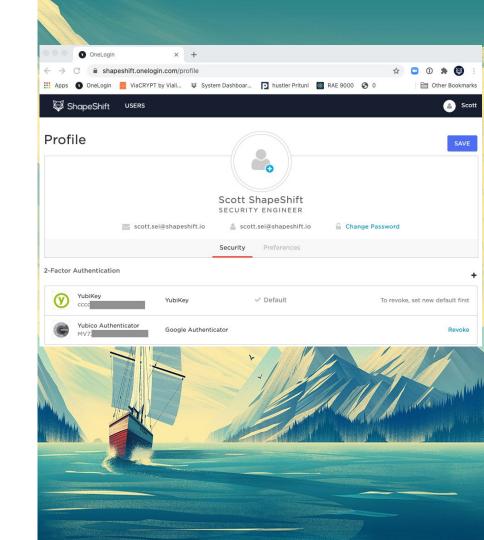
Set Up OneLogin 2FA (continued)

- Double Click the new OTP code for OneLogin
- Tap your Yubikey to reveal the code
- Copy code to the "OneLogin Add 2-Factor Method" window
- Click CONTINUE



Set Up OneLogin 2FA (continued)

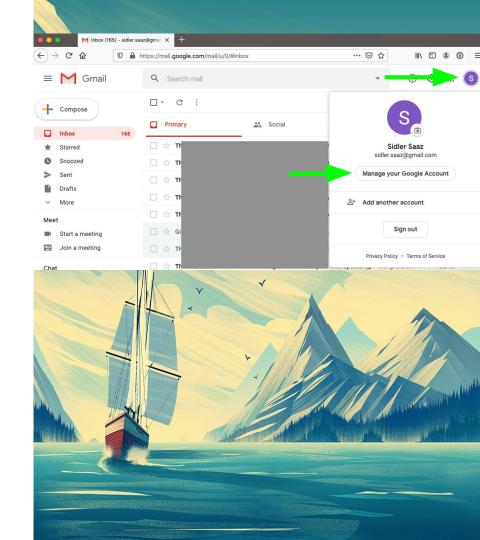
- Verify your settings look correct on the
 OneLogin Profile page
- You should have TWO forms of 2-Factor:
 - Yubikey
 - Yubico Authenticator



Gmail Alias

Update Email Alias Security Settings:

- Login to Google Alias account
 - At top-right, click your avatar circle
 - Click "Manage your Google Account"

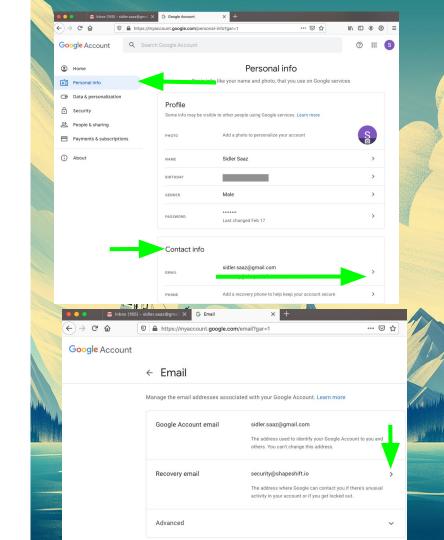


Gmail Alias (continued)

Add a recovery email to your Alias account:

- Click "Personal Info" → "Contact info"
 - Click "Email" → "Recovery email"

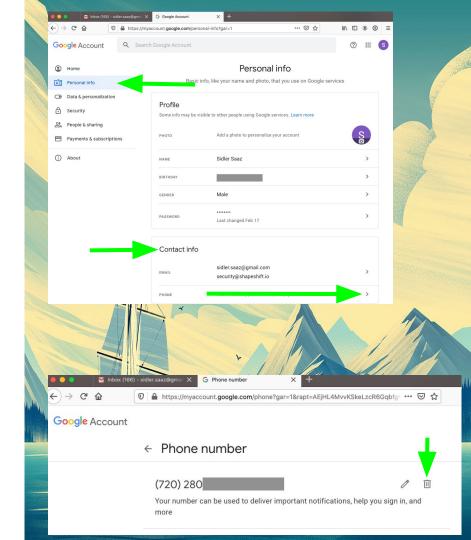
Add security@shapeshift.io



Gmail Alias (continued)

Remove all other recovery options:

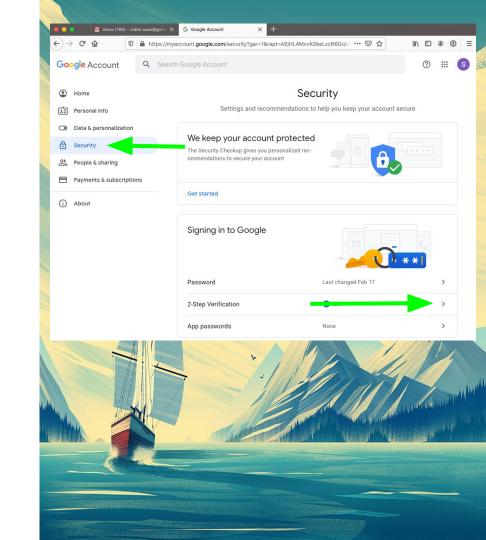
- Go back to "Contact Info" → "Phone"
- Remove phone number from account
- Remove any other recovery method



Gmail Alias (continue)

Enable 2-Step Verification

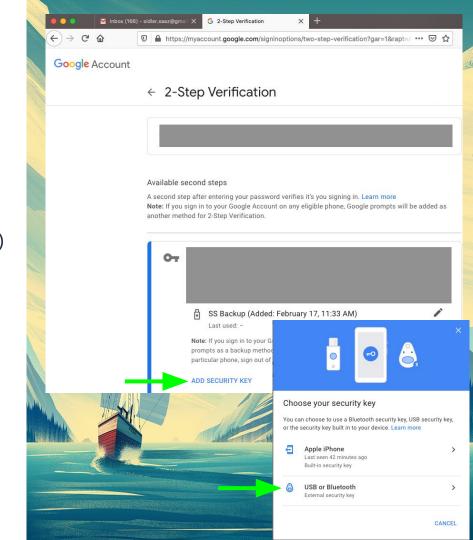
- Go Back to "Security"
- Go to "2 Step Verification"



Gmail Alias (continue)

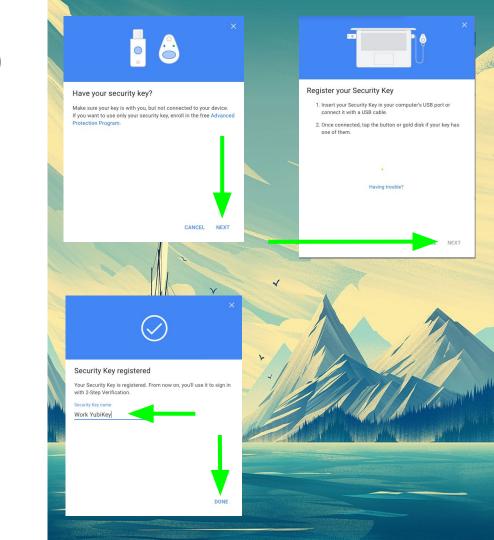
Add your Yubikey:

- Go to "Add Security key"
- Select USB or Bluetooth (External security key)



Gmail Alias (continued)

- Insert Yubikey
- Click NEXT
- Tap Yubikey
- Click NEXT
- Name your Security Key:
 - o e.g. "Work Yubikey"
- Click DONE



Gmail Alias (continued)

- If the new hire an engineer they need a npmjs.org account?
- npm is the package manager for Node.js
- Post a message in #devops:
 Please generate an npmjs token for "alias"



Set Up Pritunl

Pritunl is our corporate VPN that is required to access our internal resources and environments.

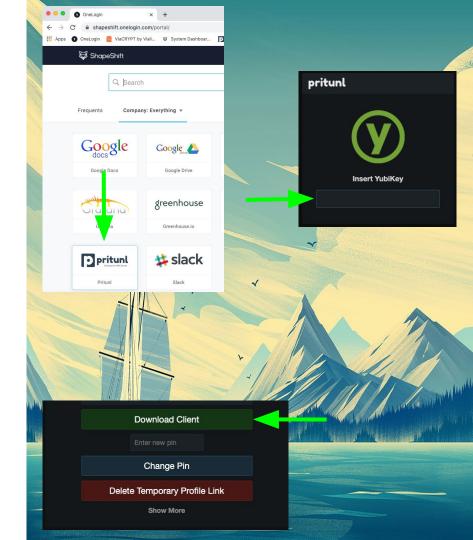
Some important sites that require the VPN:

- <redacted>
- <redacted>
- Staging / Development environments
- Any/all internal admin tools



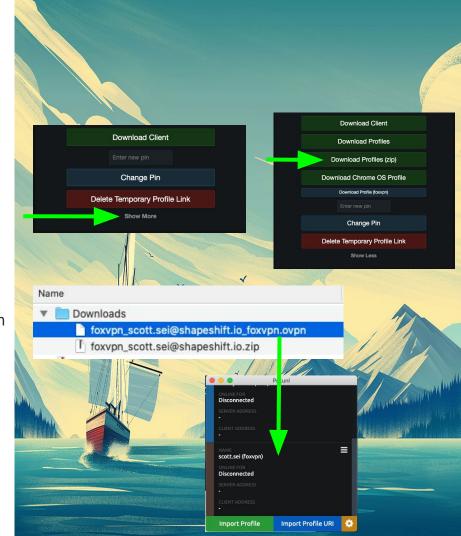
Install Pritunl Client

- Log into OneLogin
 - (https://shapeshift.onelogin.com/)
- Click the Pritunl badge
 - (Must be in the office)
- Insert Yubikey and Tap to authenticate
- Click Download Client
- Double click the installer to install the client
 - (use defaults)



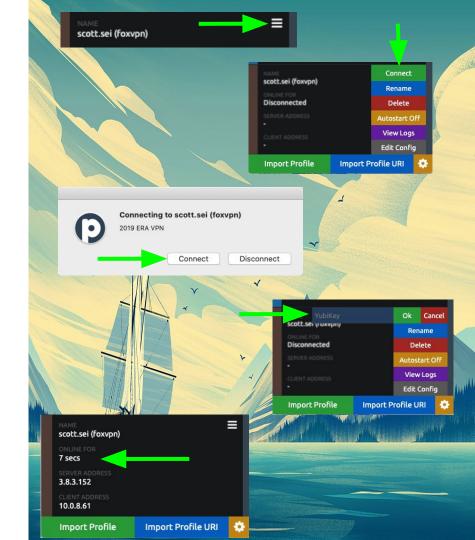
Install Pritunl Profile

- Click on Show More
- Click on Download Profiles (zip)
- Unzip the file (double click)
- Drag foxvpn_first.las@shapeshift.io_foxpvn.ovpn onto the Pritunl application



Test Pritunl

- Click on the to connect
- Click Connect
- Click "Connect" on the pop up
- Tap your Yubikey into the textbox
- Verify you're connected
 - o Online For...



Install Slack

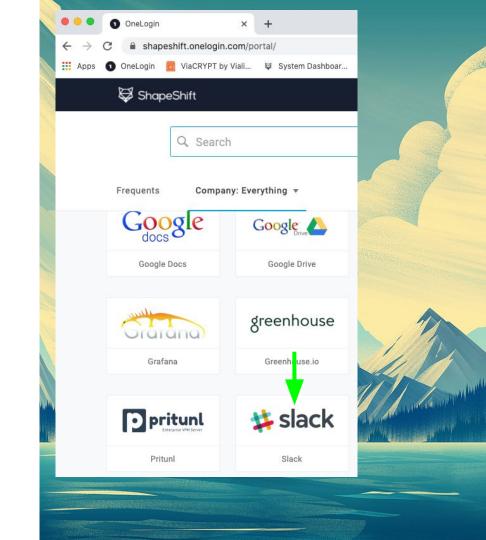
 Slack is a communication tool ShapeShift uses for collaboration and coordination.

 You can communicate as a group through channels or privately via "direct messaging"



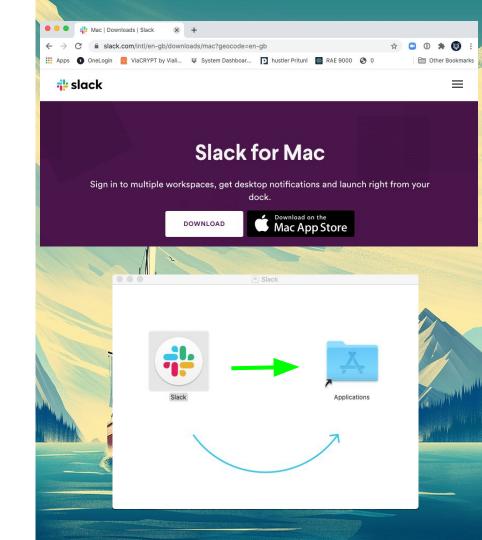
Slack Installation

- Login to OneLogin (https://shapeshift.onelogin.com/)
- Click the Slack badge to login
- Workspace: foxcookieco.slack.com



Install Slack (continued)

- Go to https://slack.com/downloads
- Click Download
- Drag Slack to Applications
- Double Click to Open
- Recommended:
 - Keep Slack in your macOS Dock



Questions

