TWO-FACTOR AUTHENTICATION

FOR MORE INFORMATION: SECURITYEDUCATIONCOMPANION.ORG

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TWO-FACTOR AUTHENTICATION is known by many names, such as 2FA, Two-Factor Auth, Two-Step Verification, Multifactor Authentication, MFA, and so on. You can learn more at:<u>https://eff.org/common2FA</u>. It's generally defined as:

1) Something you know

This is the first factor: your username and password.

2) Something you have

This is the second factor: your device that you carry with you.

Follow the suggested guidelines to bump up your account security!

SOMETHING YOU KNOW: USE STRONG PASSWORDS

EACH PASSWORD FOR EACH ACCOUNT SHOULD BE:



RandomLong

• Unique

Check out EFF's guide on generating strong passwords: https://ssd.eff.org/en/module/creating-strongpasswords

BUT HOW CAN I POSSIBLY REMEMBER ALL THESE RANDOM, LONG, UNIQUE PASSWORDS?

Depending on your security plan, you may want to use a password manager!

Watch EFF's video on using a password manager here: https://ssd.eff.org/en/module/animated-overviewusing-password-managers-stay-safeonline

LOOKING FOR A PASSWORD MANAGER?

Check out one option for a password manager here: https://ssd.eff.org/en/module/how-use-keepassxc

SOMETHING YOU HAVE: CHOOSE YOUR METHOD



You plug in the hardware token in the USB port, and press the button when a service prompts you for 2FA.

The good: Codes are stored on your hardware token. It is the most recommended option for those concerned about account security. Since it's not on your phone, it's not susceptible to phone malware getting the codes.



The bad: You have to purchase one of these (Yubikey is a popular option) and carry it with you. Keeping track of your token can be a hassle. If you lose your hardware token, you will be locked out of your accounts (unless you wrote down backup codes).



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Authentication apps

You type in the six-digit code when your service prompts you for 2FA. For the time-based authentication apps, you need to type in the code before it refreshes.

The good: Codes are stored on your smartphone or tablet. They are not visible to any service provider. App information is protected by encryption.

The bad: If your phone has malware, then an attacker can read off the codes. If you lose your phone, you will be locked out of your accounts (unless you wrote down backup codes).

Your authentication code is: 140471 SMS-based 2FA

Services send you a six-digit text message to your phone. You type this code when prompted for login. Some services only offer this form of 2FA.

The good: It's convenient. if you change phones and don't change phone numbers, you will get your codes. **The bad:** SMS is not secure. If you go to another country and don't have service, you won't get a code. If you change phone numbers, you won't have your codes. If your phone has malware, then an attacker can read off the codes.

GET STARTED WITH 2FA!

FOR MORE INFORMATION: SECURITYEDUCATIONCOMPANION.ORG

email you check regularly.

account settings.

accounts

ADDITIONAL THINGS YOU CAN DO

TO MONITOR ACCOUNT SECURITY:

Have your sign-in notifications forwarded to an

If it's an available option to you, further protect

your SMS 2FA codes by contacting your telephone

company to place a password on your account that

is required to change any of your telephone

MAKE BACKUP PLANS:

Enable sign-in monitoring for one of your

BEFORE YOU TURN ON 2FA:

Think about whether you want to share your phone or hardware token with others, if you are concerned that they can access your 2FA codes.

Visit <u>https://2fa.directory/</u> and find a service that you use that offers 2-Factor Authentication.

Write down which services offer 2-Factor Authentication in the chart below.

MAKE A LIST: SERVICES THAT YOU USE THAT OFFER 2FA:

INAI OFFER ZFA.			Have a backup plan for your 2FA services if you		
What service is it?	What kind of 2FA?	Completed?	lose your phone or hardware token. Write it down here:		
			Have a backup plan for your 2FA services when you travel. Write it down here:		
			Write down your backup codes. You can use the space below for one service, or a different piece of paper.		
			Store these codes in a safe, physical place.		
			IF YOU ARE TRAVELING OR LOSE YOUR PHONE OR HARDWARE TOKEN, YOUR BACKUP CODES FOR SERVICE ARE:		
			These codes are for one-time use. Keep them in a safe place and do not lose them!		