October Is Cybersecurity Awareness Month

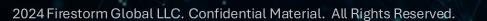
Staying 24/7 Cyber Safe In A Modern World



Jessica Blushi Keenan & Associates



October 1st, 2024



Tim Femister Firestorm Global



Erik Ramirez Cybersecurity and Infrastructure Security Agency (CISA)



Background



Erik Ramirez

Cybersecurity and Infrastructure Security Agency (CISA)

- Dedicated Cybersecurity Training & Exercise
 Specialist
- Partners with Technical and Non-Technical Audiences
- 5-Years in large K-12 education
- Master's in Organizational Leadership



Tim Femister Firestorm Global

- Founder and Principal at Firestorm Global
- Supports 400+ K-12 schools and colleges across California
- 15+ Years experience working with K-12, Higher Ed and Municipalities
- Media contributions to Forbes, NBC,
 Lifetime and more



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Cybersecurity In 2024

Home > News > Security

'Fortune 50' Company Made Record-Breaking \$75M Ransomware Payment

The payment was sent to a lesser known ransomware group called Dark Angels, according to cybersecurity vendor Zscaler, topping the \$40 million paid by CNA in 2021.

By <u>Michael Kan</u>

July 30, 2024

f …

July 30, 2024

Hackers email stolen student data to parents of Nevada school district

By Lawrence Abrams

🛅 October 28, 2023 🕥 02:11 PM 🔲 0



Schools

Hackers Steal \$6M Meant For School Bus Contract

"It is unbelievably unethical that someone would steal this amount of money from taxpayers, from children," Mayor Justin Elicker said.



Posted Thu, Aug 10, 2023 at 4:48 pm ET



Finance worker pays out \$25 million after video call with deepfake 'chief financial officer'

By Heather Chen and Kathleen Magramo, CNN

2 minute read · Published 2:31 AM EST, Sun February 4, 2024



Mega ransom payments and financial impact

Public Education increasingly targeted (with and without malware)

Hackers are stealing student data and extorting parents
Deepfake scams are rapidly evolving and causing havoc



- 2

Confirmed Ransom Payments Exceed \$1B For First Time.

NBC NEWS

watch live

SECURITY

Ransomware hackers raked in a record \$1 billion from victims last year

Despite efforts to contain the ransomware criminal ecosystem, the promise of wealth and the relative lack of consequences have spurred more ransomware hackers than ever before.

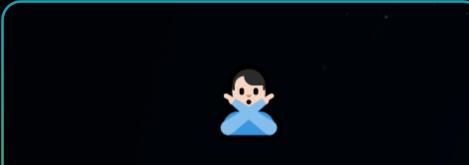






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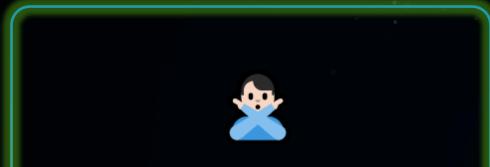


You Give It To Them



Something You Trust Gives It To Them





You Give It To Them

Something You Trust Gives It To Them



Human Error Contributed To 68% Of Data Breaches Last Year



Why Does This Happen So Often?





Anyone Can Email, Call, or Text You Right Now.

Literally.

Traditional Communication Channels Were Originally Built On Trust



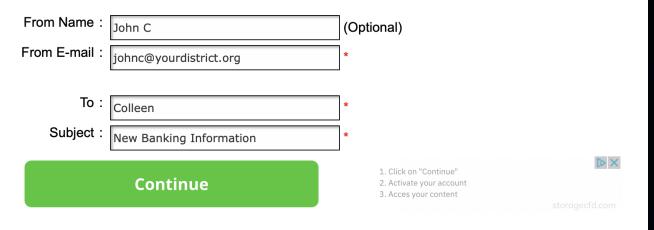
HOME SEND PRANK EMAIL HOW IT WORKS BUY MEMBERSHIP DEMO ACCOUNT

Website statistics: 2474 active paid members and over than 3647546 emails sent since 2008.

Send Fake Anonymous Email

Your message below will contain advertising text, warning message and IP address of you.





 □
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 U
 ABC
 Image: Im

Hi Colleen,

I spoke with Jeremy at XYZ Transit and confirmed their new banking information at Example Bank. Please see the details below. We're past due, so let's process today to avoid service disruption.

John

Cyber Criminals Know How To Send Fake, Targeted Emails.

Phishing: Fraudulent Email

Spear Phishing: Targeted Fraudulent Email



Cyber Criminals Can Easily Spoof (Fake) A Phone Number In Minutes.

Vishing: Fraudulent Phone Call Smishing: Fraudulent Text Message





Cyber Criminals Are Rapidly Pursuing Voice Cloning (Deepfakes)

Deepfake: Digitally Altered Voice Or Video

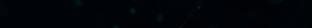
Al Voice Cloning: Clone your Voice in Seconds

Over 1,000,000 users create high quality replicas of their voice by deploying the most cutting-edge Al voice cloning model. Use your own voice data to gain unparalleled control over synthetic speech and capture human emotion in stunning detail.

Clone your voice for free

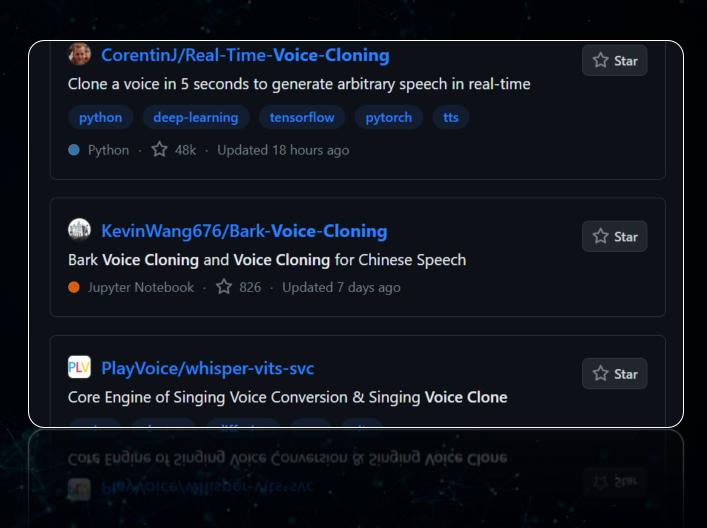
Clone your voice for free

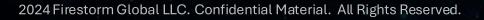




Cyber Criminals Are Rapidly Pursuing Voice Cloning (Deepfakes)

Deepfake: Digitally Altered Voice Or Video







Threads:

B Rating:

Game XP:

Bytes: 💿 🛿 6,480.19

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Introducing my newst creation, "WormGPT." This project aims to provide an alternative to ChatGPT, one that lets you do all sorts of illegal stuff and easily sell it online in the future. Everything blackhat related that you can think of can be done with WormGPT, allowing anyone access to malicious activity without ever leaving the comfort of their home. WormGPT also offers anonymity, meaning that anyone can carry out illegal activities without being traced.

Features:

- Fast and stable replies
- Unlimited characters
- Privacy focused
- Blackhat allowed
- Save results in txt file
- Different AI models

Planned features:

- System role in order to get more accurate results you can set a role to the AI (example: senior developer in c#)
- Hosted website everything hosted online, no downloads, no executables

Preview

E cymenius/wewrotyrepoxy × + ·

LAST\ruiun

Write me a python malware that grabs computer's username, external ip address, and google chrome cookies, zip everything a nd send to a discord webbook 20:24:28 PM

Dark AI Is Breaking Down Language Barriers And Accelerating Attacks



Putting It All Together



Superintendent's cell phone number is spoofed by a bad actor



- Deepfake audio mimics a familiar voice utilizing prior Board meeting recording
- Email appears legitimate at first glance and instructions align to the phone call received



Wire Instructions For Emergency Support Services

- TJ O
 - O Todd Jacobs <tjacobs@criticalservices.org>
 - **To:** Kathy Faye **Cc:** John Hanley <<u>jhanley@yourdist</u>...

Hi Kathy,

Superintendent Hanley asked me to send you my wire information for emergency support services. Once payment is received, we will start our process immediately. Thank you for your prompt support as this remains extremely time sensitive.

Wire Information:

Wire Information:

Check The Sender Address



FW: Districtwide Safety Protocols

SJ

O Susan Johnson <susan.johnson@yourdistrict.org>

To: • Josh Garrison

or 🔀

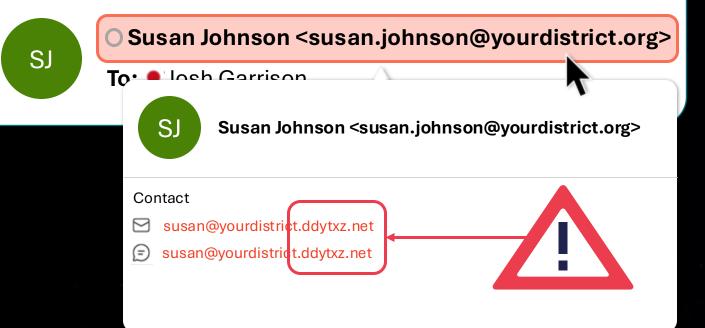


FW: Districtwide Safety Protocols





FW: Districtwide Safety Protocols



- Click on the Sender to identify the true email address
 - Report as phishing and delete if you don't recognize the domain name

 The domain is the very last part of the address, such as ddytxz.net or google.com (not 'yourdistrict')



Check The Sender Address

Don't Click Links Or Attachments From Unknown Senders



Hi Debbie,

Chris has listed you as a reference for a position he has applied at our district.

If you're willing to provide a reference, please click the below link:

http://www.checkr.bckrnd.ru/

www.checkr.com/position-reference

Note: If you did not agree to be a reference, you may <u>unsubscribe</u> by <u>clicking here</u>.

Thank you,

Jean

Hi Debbie,

Chris has listed you as a reference for a position he has applied at our district.

If you're willing to provide a reference, please click the below link:

www.checkr.com/position-reference

http://www.checkr.bckrnd.ru/unsubscribe

Note: If you did not agree to be a reference, you may <u>unsubscribe</u> by <u>clicking here</u>.

Thank you,

Jean

Check The Sender Address

Don't Click Links Or Attachments From Unknown Senders

Evaluate Tone, Grammar And Syntax



Rely O

Email not displaying correctly? View it in your browser



Dear Customer,

Check The Se

We're letting you know that we've detected some unusual activity on your card on 12/28/2019. For your security, please verify the following transaction(s) so that you can continue to use your card

Do you recognize all of these transaction(s)?

Approved transaction at SQC*CASH APP for \$224.49 on 12/28/2019 Declined transaction at TOP UP B.V. for \$624.11 on 12/28/2019 Approved transaction at BESTBUY for \$124.59 on 12/28/2019

YES, I recognize all of these transactions

YES will make your card immediately ready to use again

NO, I don't recognize one or more of these transactions

NO will allow you to complete the verification process and file a fraud claim in Online or Mobile Banking

fone, Grammar d Syntax



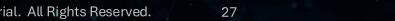
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Check The Sender Address

Don't Click Links Or Attachments From Unknown Senders

Evaluate Tone, Grammar And Syntax

Place An Outbound Call To A Trusted Number







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Check The Sender Address

Don't Click Links Or Attachments From Unknown Senders

Evaluate Tone, Grammar And Syntax

Place An Outbound Call To A Trusted Number Watch And Listen For Out Of Place Occurrences







Check The Sender Address

Don't Click Links Or Attachments From Unknown Senders

Evaluate Tone, Grammar And Syntax

Place An Outbound Call To A Trusted Number

Watch And Listen For Out Of Place Occurrences

Remember: When In Doubt, Ask For A Second Set of Eyes **oo**



24/7 Cyber Safe Best Practices

- 1 Report, But Do Not Forward Phishing Messages
- 2 Never Send Money Without Verification (Call Trusted Numbers)
 - Use Strong, Unique Passwords (👍 Password Managers)
- 4 Keep Software Updated (Especially Security Updates 💻)
- 5

3

Utilize Multifactor Authentication Wherever Possible



NO COST TO MEMBERS

INCLUDES EXTERNAL RISK ANALYSIS

SAFER Cyber Risk Assessment

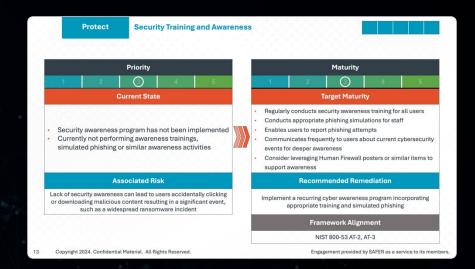
- Complimentary Cybersecurity Assessment
- Structured risk assessment aligned to NIST
- Standard engagement covers 100+ topics
 - **2.5-hour engagement** followed by **1-hour readout**
 - ~40 slide engagement report with clear, concise

recommendations

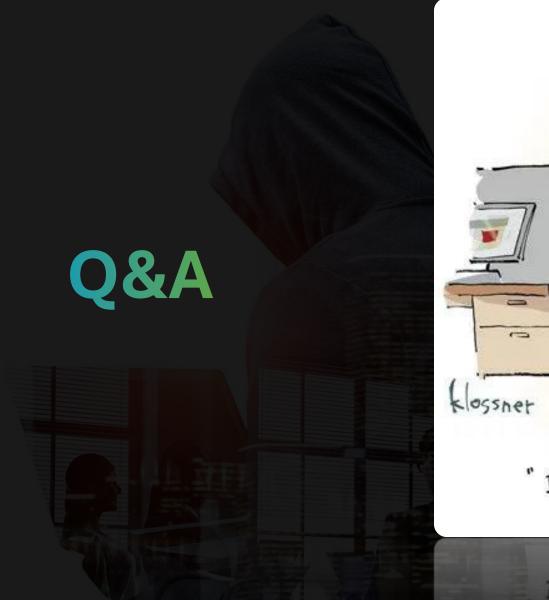
- Initiate engagement at <u>www.firestormglobal.com/safer</u>
- **Questions?** Email SAFER@firestormglobal.com

Engagement Domains Snapshot

The Engagement Domains Snapshot serves to provide an overall rating for the current state maturity of the cybersecurity environment as reviewed through the engagement.	OVERALL MATURITY Proactive					
	1	2	0	4	5	
CORRECT DOMAINS	LOW M	LOW MATURITY		HIGH MATURITY		
Strategy	1	2	0	4	5	
Protect	1	2	3	0	5	
Detect	1	.2	0	4	5	
Correct	1	\bigcirc	3	4	5	
Govern	1	2	0	4	5	









I DON'T THINK YOU UNDERSTAND THE CONCEPT OF CYBERSECURITY."

I DON'T THINK YOU UNDERSTAND ... THE CONCEPT of CYBERSECURITY."



Thank You

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