



Cyber Health During COVID-19

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<https://alfizo.com/elp-chamber/>

Agenda

- Bio
- Scope
- Working from Home Security Issues
- Zoom Security
- Common Scams
- Remediation
- Q&A

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Gary S. Chan



- Anti-Fraud and Information Security, 16 Years of Experience
- B.S. in Electrical Engineering & Computer Science, MIT
- Security Certifications
 - CISSP (Information Security)
 - CISSP-ISSMP (Information Security Management)
 - CFE (Fraud Examiner)
- Current: Security Consultant
- Former: Head of InfoSec at a large-cap company; Lead Architect for Multiple State Agencies' Anti-Fraud Systems; President of FBI St. Louis Citizens Academy Alumni Association

<https://www.linkedin.com/in/gschan2000/>



Scope

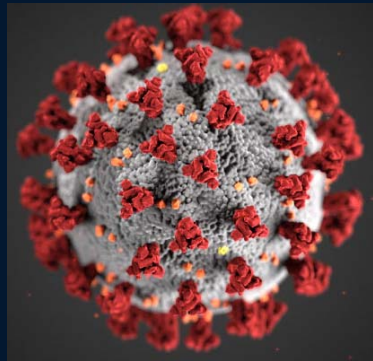


Individual



Group or Business

Scope



COVID-19
Security Trends



General Security
Tips

COVID19 Stats



9x number of phishing
in March 2020 vs
prior months







New fake COVID19 sites =
Thousands per day

> 3600 illegitimate "coronavirus"
domains created March 14-18, 2020

How Much Does Your Data Sell for?

ACCOUNT TYPE	VALUE	PRICE
PayPal Account	\$12,000	\$1,200
Money Transfer	\$7,500	\$1,125
Amazon Gift Card	\$2,000	\$700
Cashapp Transfer	\$7,000	\$425
PayPal Transfer	\$1,200	\$240
Paypal Account	\$1,800	\$190
Cashapp Transfer	\$1,500	\$180
Amazon Gift Card	\$500	\$175
Money Transfer	\$1,250	\$167
PayPal Account	\$1,200	\$120
Bank Card	\$800 - \$1,000	\$79
Bank Card	\$500 - \$750	\$64
Bank Card	\$200 - \$400	\$49

 Social Media	 Personal Information*	 Bank Details	 UK Passport
\$12.99	\$40 - \$200	\$50 - \$200	\$750
PASSPORT	PASSPORT & DRIVERS LICENSE	PASSPORT & ID CARD	PASSPORT, ID & DRIVERS LICENSE
\$777	\$888	\$888	\$999

Patient Healthcare Records: up to \$1,000

Sources: <https://vpnoverview.com/privacy/anonymous-browsing/in-the-dark/>
<https://www.beckershospitalreview.com/cybersecurity/patient-medical-records-sell-for-1k-on-dark-web.html>

Working from Home (WFH) Security Issues

- Much easier to breach home defenses than corporate defenses
- Corporate security teams are less effective at home, may have had their tools budgets reduced, or may be furloughed
- Intentional reduction in security to meet performance requirements
- More Internet usage = more opportunities for hackers
- Strained law enforcement => less likely to prosecute hackers
- Value/Cost analysis much greater for the bad guys, so increased investments and number of people performing crimes over the Internet

Zoom Technical Security Issues to Date (Some Fixed)

- Vulnerabilities in Zoom App (Control Mics & Cameras, Install Malicious Apps)
- Zoombomb
- No End-to-end Encryption
- Zoom Recordings Publicly Available on Web
- Where Data is Routed (Legal Issues)
- Facebook Data Collection Feature in iOS Zoom App
- Hacked Zoom Account Information Illegally Sold
- Guessable Zoom Meeting IDs

Zoom-Specific Security Mitigation Steps

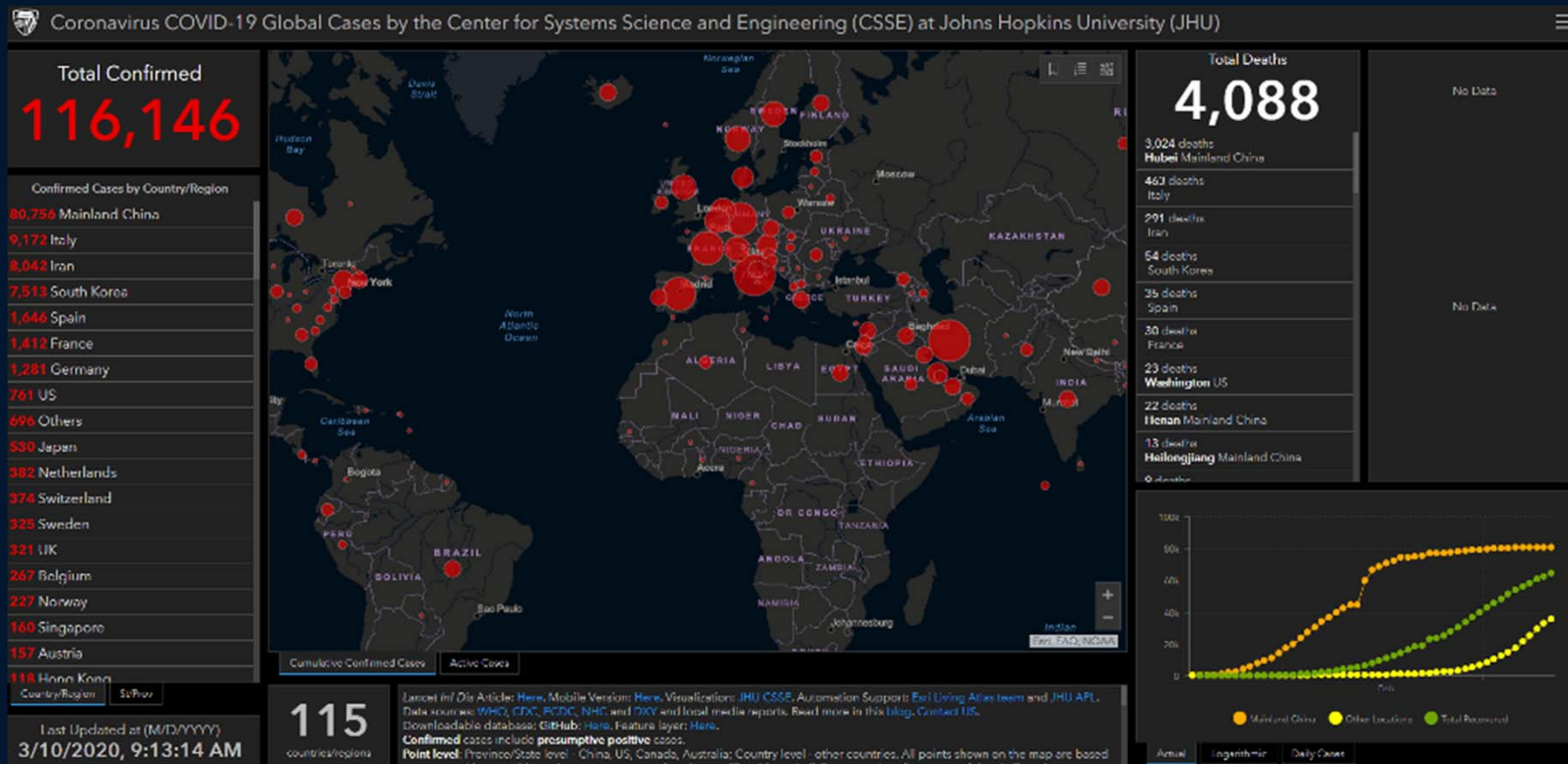
- Keep Zoom software updated
- Configure Settings when Scheduling the Meeting
- Control the Meeting as the Host
- For the paranoid: Use a separate computer or virtual machine

These are steps you can take; Zoom is responsible for addressing the other issues.

Download Detailed Instructions from
<https://alfizo.com/elp-chamber/>



Fake COVID19 Maps



Fake E-mails from WHO



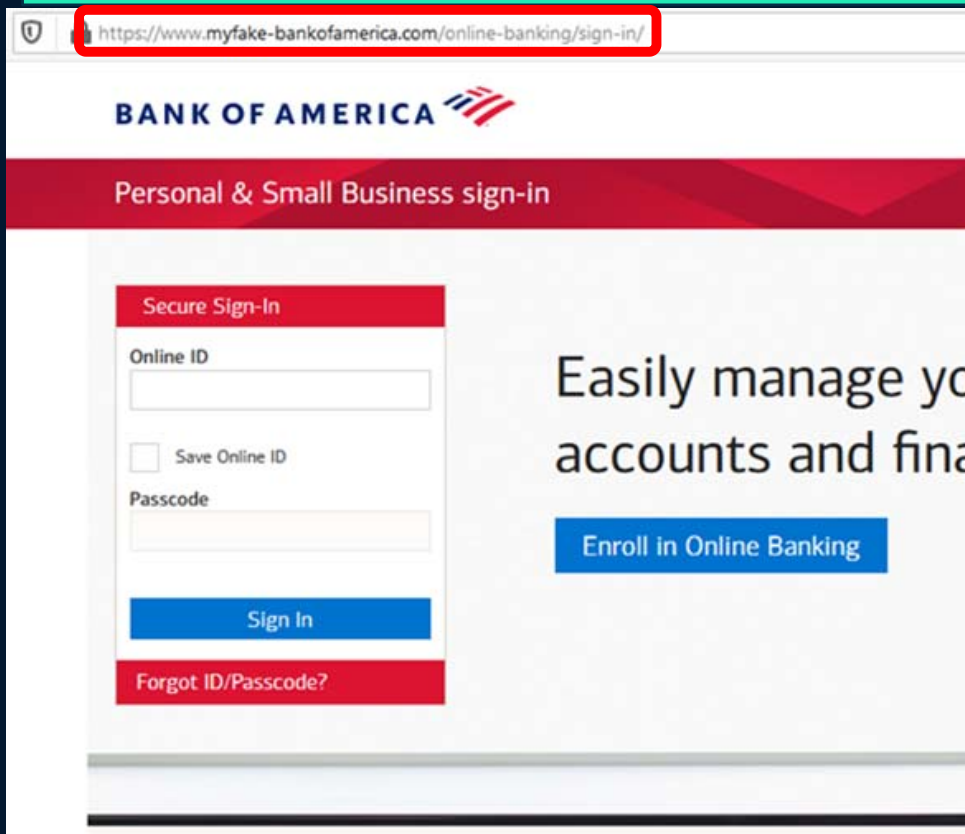
Phishing Quiz!



<https://phishingquiz.withgoogle.com/>

And a fun story

Fake Online Portals



Applies Everywhere, particularly:

- Your company login page
- Banks
- SBA.gov
- IRS.gov

Fake Job Openings

What Job title, keywords, or company Where El Paso, TX Find jobs

within 25 miles Salary Job Type Location Company Experience Level

Upload your resume - Let employers find you

jobs in El Paso, TX Sort by: **relevance** - date Page 1 of 4,122 jobs

Shipping/Receiving Clerk
El Paso, TX
\$12 an hour
Easily apply Urgently hiring

- Controls all incoming and out going product and non-product materials from the warehouse..
- Helps with receiving, cycle counts, ID of all materials, documents...

30+ days ago · Save job

Mobile Associate
El Paso, TX

- Collectively own the customer experience and resolve issues, creating a seamless, run-around-free environment.
- At least 18 years of age.

Just posted · Save job



Counterfeit Masks




Spread of Misinformation

- Causes panic, incites racism, promotes harmful at-home cures, and result in shortages of supplies and critical medical equipment
- Weaponized for political gain, financial gain, or “just because” it’s funny

Viruses cannot travel on radio waves/mobile networks.
COVID-19 is spreading in many countries that do not have 5G mobile networks.
COVID-19 is spread through respiratory droplets when an infected person coughs, sneezes or speaks.
People can also be infected by touching a contaminated surface and then their eyes, mouth or nose.

FACT:
5G mobile networks DO NOT spread COVID-19



World Health Organization #Coronavirus #COVID19 8 April 2020

Myths related to

- Survival Temperature
- Tests (Holding One’s Breath)
- Foods and Alcohol
- Use of Cleaning Fluids
- Medicines

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Remediation (if Something Goes Wrong)

- Disconnect any affected device(s) from the Internet
- Change your password for any affected service
- Contact
 - Your company (if it's a company device or data)
 - The platform (Facebook, Twitter, etc.) and business (bank)
 - Credit bureaus (Equifax, Experian, Transunion)
 - Law enforcement
 - Alfizo (929-525-3496 or gchan@alfizo.com) if you need additional support
 - Your insurance agency
- File complaint online: <https://www.scamaddicts.com/fraud-resources>



Recap

- Bio
- COVID19 Security Stats
- Working from Home Security Issues
- Zoom Security
- Common Scams
- Remediation

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Bonus: Additional security advice for small businesses



Questions

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