CYBERCRANE WHAT YOU DON'T KNOW BUT SHOULD Contact: Charles.Andrews.CSO@gmail.com



Worlds #1 Security Influencer

Cyber Global Expert

Retired Chief of Police/TX Master Peace Officer Reserve

Retired Global CSO (Chief Security Officer)

World Crime Prevention Certified/Expert

Yellowstone/6666 Ranch Wanna Be'



Award Winning Cyber Veteran

Global Cyber Strategic Advisor

Former Deputy CISO for all of Texas

Commander for the Largest Cyberattack on Local Government in US History

Director of Research for DF and Cyber at SHSU, eat em up kats

From a Texas town of 196 people

THE TOASTER IS THREATENING TO BURN THE HOUSE DOWN IF WE DON'T FEED IT SOME CRYPTO!



THE STATE OF CYBERSECURITY HOW BAD IS IT OUT THERE?





CONSTRUCTION INDUSTRY IS RIGHT IN THE THICK OF IT AND BEING ACTIVELY TARGETED

THESE ARE A CONCERN FOR EVERYONE

PEOPLE

They want your employees' personal info

PROJECTS

They want you competitive advantage and intellectual property

FINANCES

They want your financial information so they can steal your money

THESE ARE CONCERNS SPECIFIC TO THE CRANE INDUSTRY

DRAWINGS AND PLANS

Why design things themselves when they can just take yours?

PLANNING AND LOGISTICS

If they can compromise your logistics and supply chain, they can ruin you or hold you hostage

SYSTEMS AND EQUIPMENT

This is where it gets real bad, they compromise your systems and hold your data hostage, or worse yet, they compromise your equipment and get people killed.

Hackers can play with construction cranes like toys

U January 17, 2019

Posted by: Kerry Tomlinson, Archer News

INDUSTRY NEWS • < ○ 2 min read • □

World's Largest Crane Maker **Suffers Global Cyber Attack, Operations at a Halt**



Ad One product to protect all your devices, without slowing them down.



HackRead

Watch as hackers take over a construction crane

After all, what would they get by hacking a crane? However, researchers at Trend Micro, a cyber-security firm, claim that construction cranes...

Jan 17, 2019



https://www.hackread.com/watch-ashackers-take-over-construction-crane/

I DON'T KNOW ANYTHING ABOUT CYBER! WHAT CAN WE DO?!

FOCUS ON THE BUSINESS

No one understands your business better than you

Understand what could hurt the most if it got taken out

Approach cyber like any other business problem

FIND TRUSTED PARTNERS

There are a lot of people out there who claim to do this

Find people who understand your business and speak your language

IT'S ALL BUSINESS RISK

Finance systems

Crane operations

Downtime

Intellectual Property

Logistics

Anything that can affect the bottom line and touches technology in anyway

"You run the crane business, let your partner take care of your cyber", #1 Security Influencer



WILL CYBER INSURANCE COVER ME?



Cyber insurance is a new field with bad math

They will ask you if and how you are protecting everything in your environment

When you have an incident, they will look for any reason to not pay

When they do pay, it is usually to the bad guys and does not cover your own recovery

LET'S TALK RANSOMWARE: SCARY STUFF

COMPROMISE

They know who you are

They know how to get in

They map your environment

They break your backups first

ENCRYPTION

They steal your data

Then they make your system unusable

If your backups are no good, you are a sitting duck

EXTORTION

They charge you for access to your own data

Millions of dollars in crypto currency

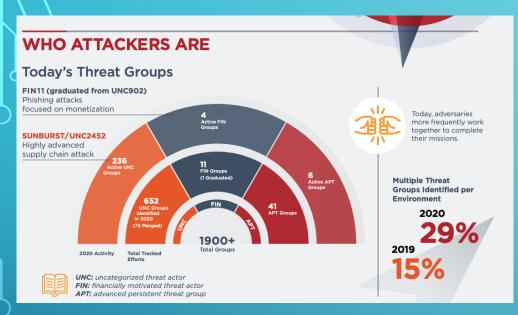
If you won't pay, they publish or auction your information on the dark web

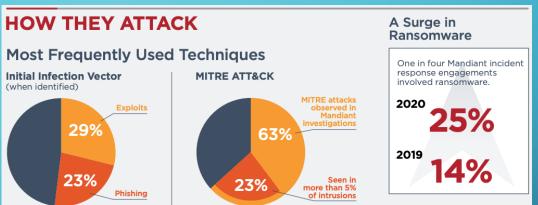
If you get hit once, you can expect to get hit again, and sooner than later.

They keep track of the soft targets and sell/share that info to each other: Who you gonna call?

RANSOMWARE FIGURES

THERE WERE AN ESTIMATED 185 MILLION RANSOMWARE ATTACKS GLOBALLY IN 2020





"Pervasive ransomware campaigns drove down the median dwell time as threat actors sought to capitalize on shifting trends in the workspace and a global crisis."





WHAT THEY WANT Targeted Attacks Objective: Financial Gain Objective: Data Theft gain includes extortion, ransom, payment card theft and illicit transfers. Plicet financial gain includes extortion, ransom, payment card theft and illicit transfers.



Global Dwell Time

In 2020, the global median dwell time dropped below one month for the first time. Organizations are now detecting incidents in only 24 days—more than twice as fast as 2019. These improvements in detection hold true regardless of the notification source. Global median dwell time for incidents which were detected internally dropped to just 12 days and incidents with external notification sources came in at 73 days.

https://content.fireeye.com/m-trends/ig-m-trends-2021

FUTURE CONSIDERATIONS

REGULATIONS

Bills already introduced to congress

State legislature making reporting and protections mandatory

CRITICAL INFRASTRUCTURE

Construction relates to almost every critical infrastructure

Subjects the industry to potential regulation by association

Critical infrastructure is a massive target

GEO-POLITICS

One word: Russia

The time to start is now, get ahead while you can.

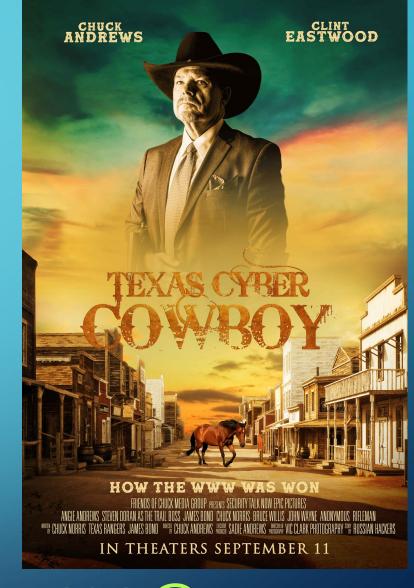
Planning and a focus on fundamentals are the only way to beat these guys. -Andy

PLANNING AND PREPARATION WITH INTENT THE ONLY WAY TO STAY AHEAD OF THE THREAT

- Fundamentals First
- Have a plan
- Practice makes perfect
- Focus on the business
- Ask questions from a business perspective
- Find a good partner who can connect your cyber needs to the bottom line
- Don't buy the shiny toy, buy the right tool
- Trusted partners are critical when facing the unknown

QUESTIONS?

Call this Texas Cyber Cowboy if you need to talk...



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