

Stew Jensen nxtConcepts VP/Partner

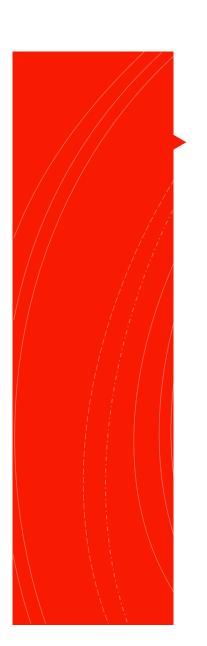
A forward thinking, non-traditional agency creative thinkers | brand enhancers | strategic planners results obsessed | rule breakers





Cybersecurity is Harder than Snowmaking.

Are you Prepared?



Topics

- -How bad is it?
- -Anatomy of a Ransomware Attack
- -Why You Will Be Hacked
- -Pay or Don't Pay
- -What to do today
- -What to do tomorrow



How many people here have been a victim to cybercrime?





Check if your email or phone is in a data breach

email or phone (international format)

pwned?

Generate secure, unique passwords for every account Learn more at 1Password.com

550

11,420,802,014 pwned accounts

114,114

202,450,572 paste accounts

Largest breaches



772,904,991 Collection #1 accounts



763,117,241 Verifications.io accounts



711,477,622 Onliner Spambot accounts



622,161,052 Data Enrichment Exposure From PDL Customer accounts



593,427,119 Exploit.In accounts



457,962,538 Anti Public Combo List accounts



393,430,309 River City Media Spam List accounts



myspace 359,420,698 MySpace accounts



268,765,495 Wattpad accounts

Recently added breaches



2,743,539 Audi accounts 112,031 Guntrader accounts



505,466 Short Édition accounts



30,433 Vastaamo accounts 938,981 Raychat accounts



8,234,193 Teespring accounts



1,444,629 yotepresto.com accounts



547,422 University of California accounts

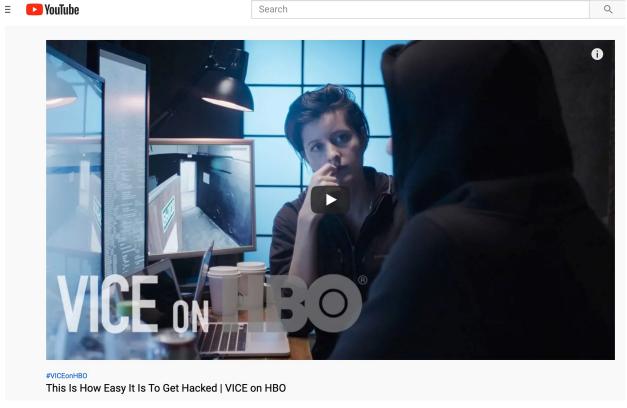


16,717,854 Fotolog accounts



1,121,484 Nameless Malware accounts

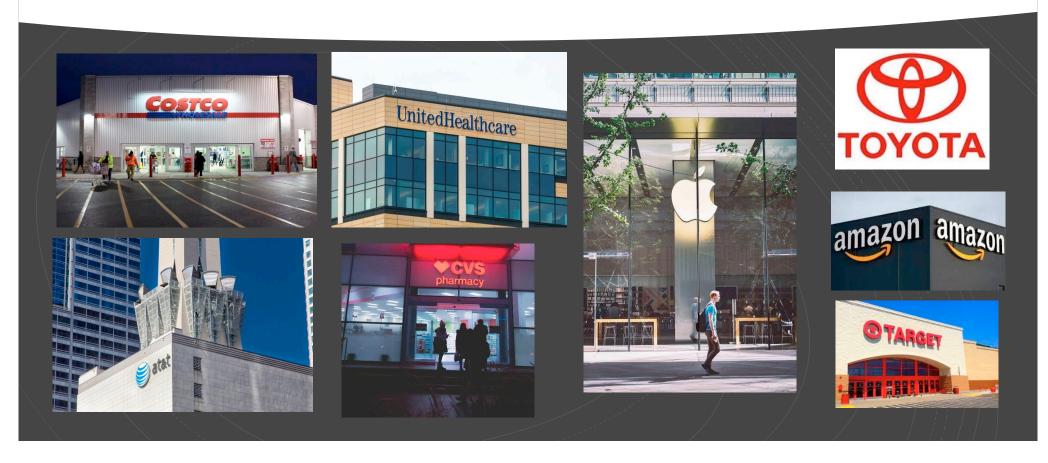
It can happen to anyone **►** YouTube



 $https://www.youtube.com/watch?v=G2_5rPbUDNA$



From Big Business



To Small

The National Cyber Security Alliance has recently released statistics that show 20% of small businesses experience such an attack every year, and that 60% of these businesses were forced to close within 6 months of being hacked.



Data Security by CimTrak. PHOTO: Cybercrime Magazine.

60 Percent Of Small Companies Close Within 6 Months Of Being Hacked

To Nuclear

THE KANSAS CITY STAR.

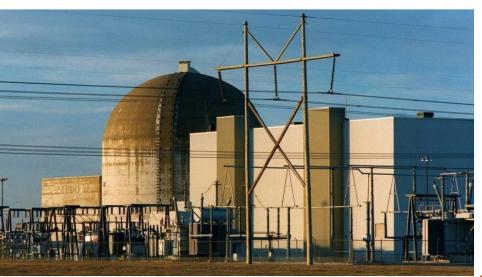
LOCAL

Russia infiltrated Kansas nuclear plant's business network, FBI and DHS say

BY MAX LONDBERG

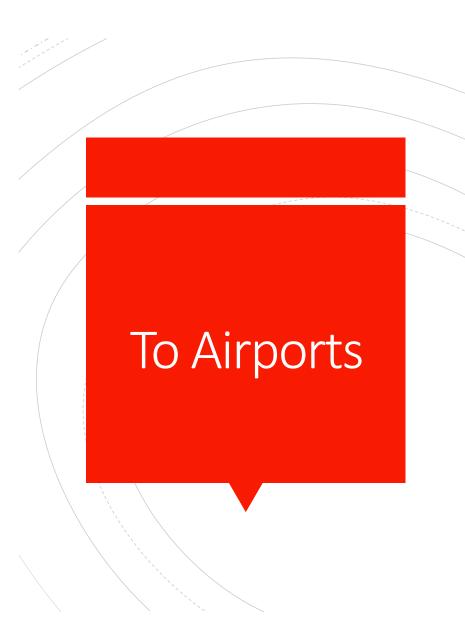
MARCH 16, 2018 06:51 PM, UPDATED MARCH 18, 2018 12:49 PM





Wolf Creek Nuclear power plant in Burlington, Kan. FILE PHOTO ASSOCIATED PRESS







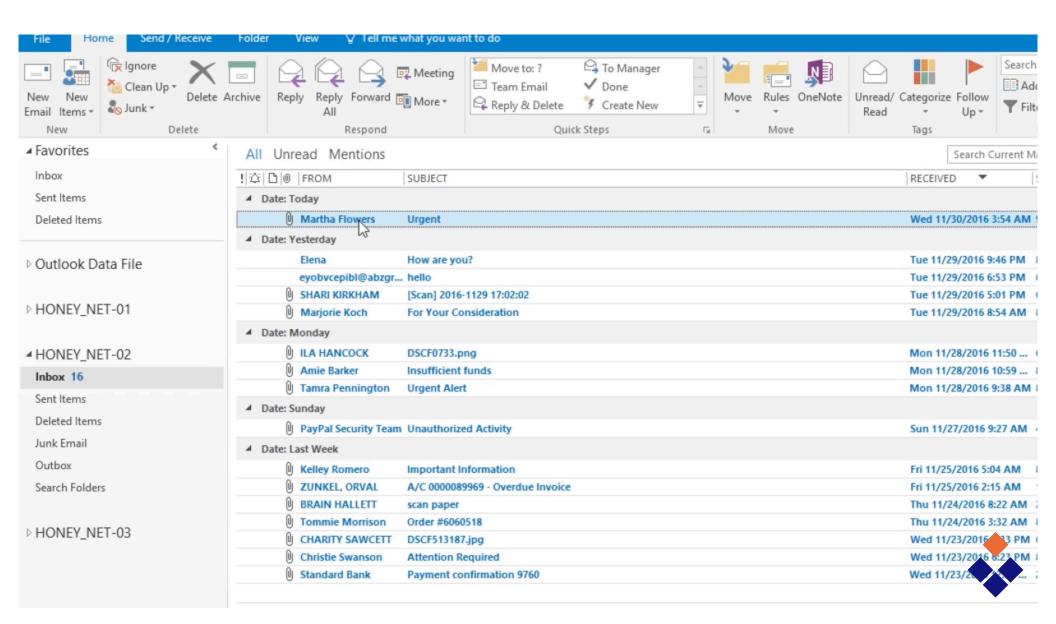
LOCAL

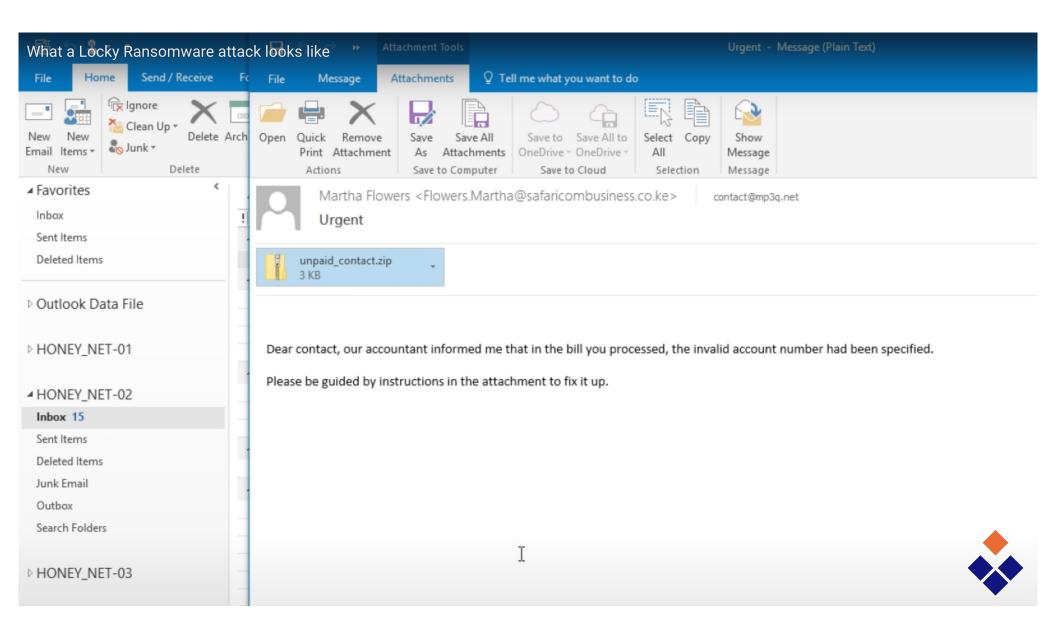
Albany airport pays ransom after hit by cyber hackers

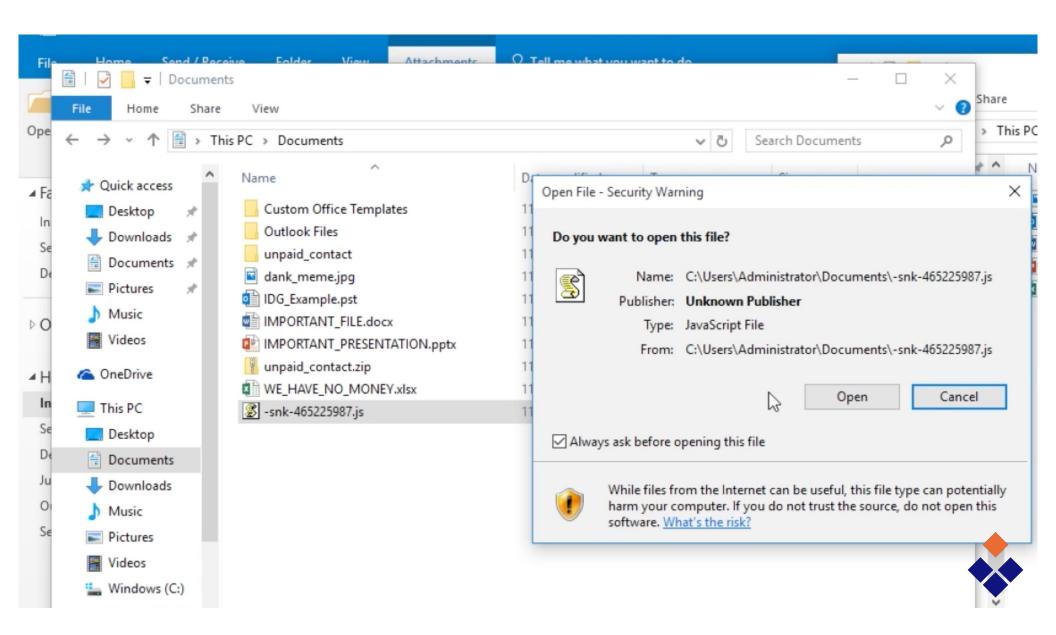


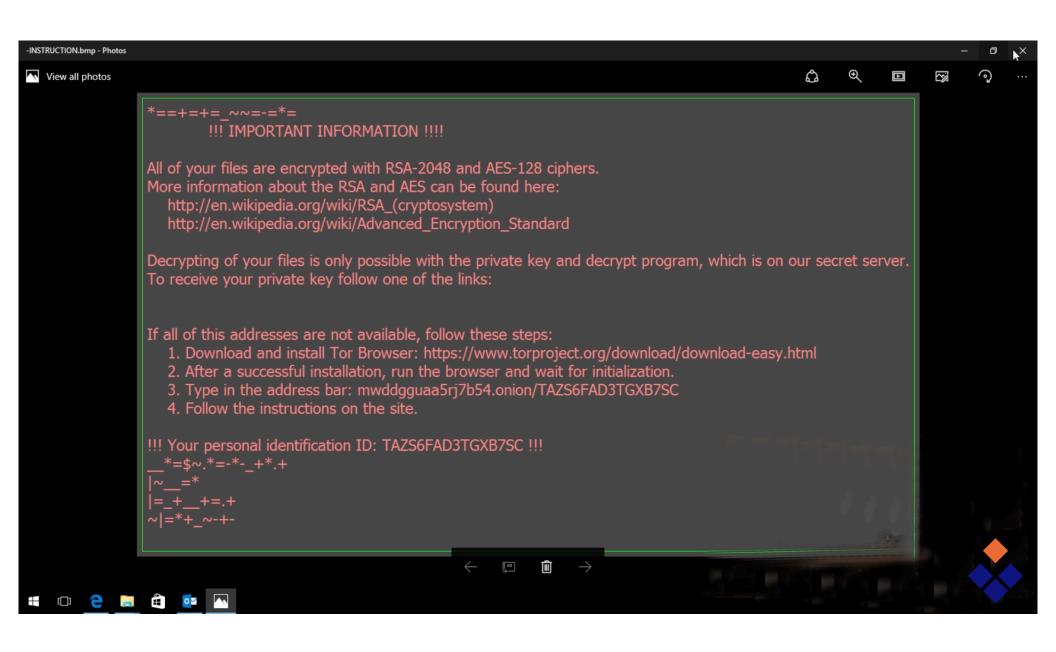


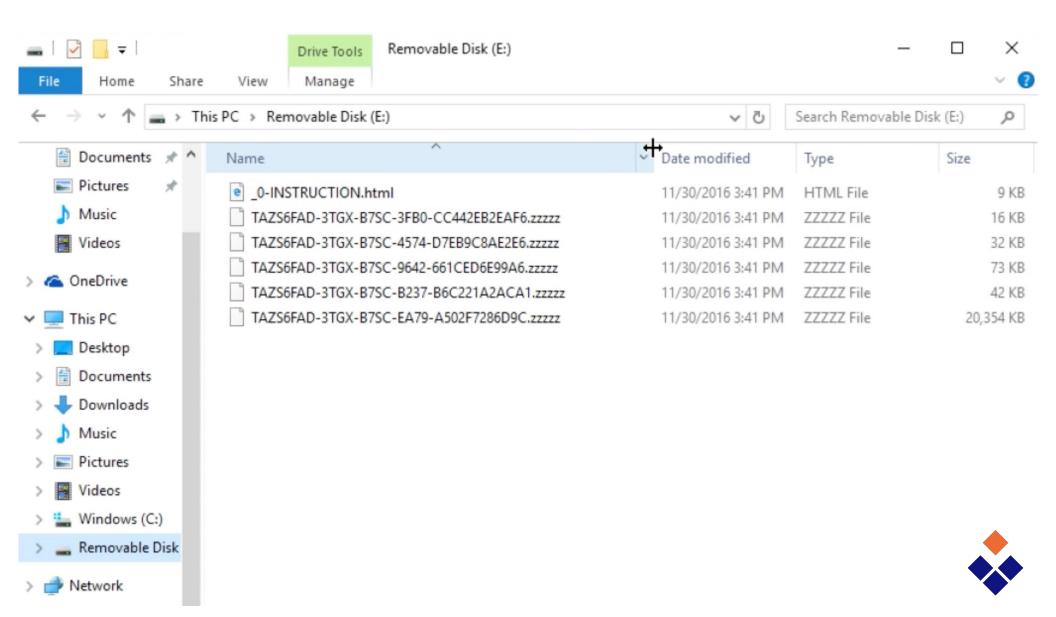


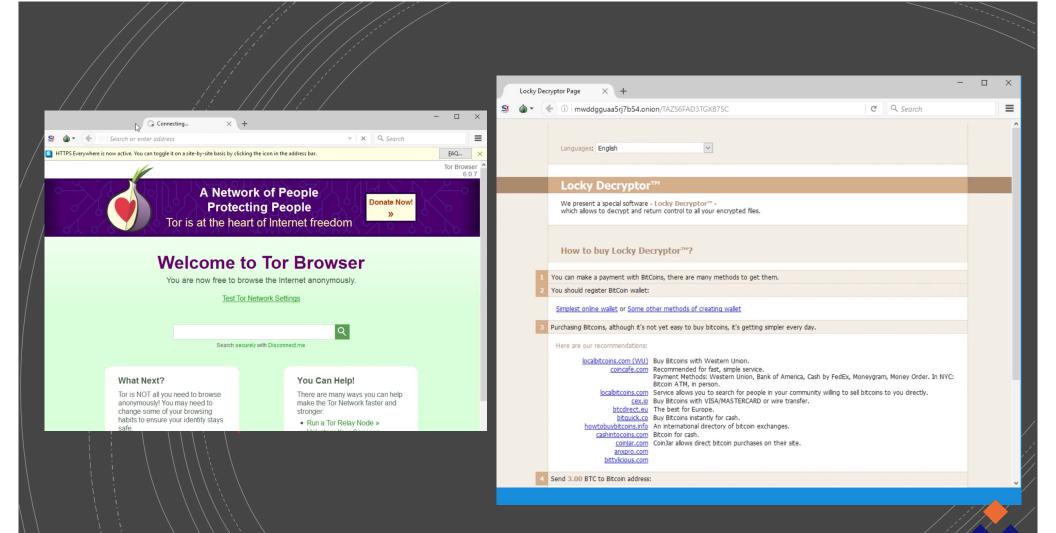


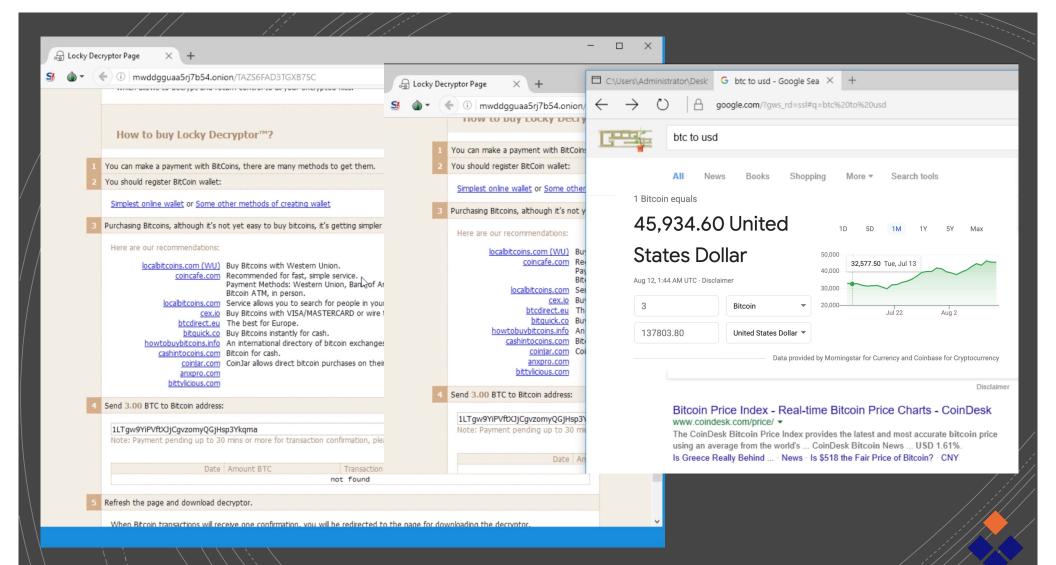














- A hacker has stolen your data and is holding it for ransom, will you pay?
- How will you respond to customers if their information is stolen?
- How will you operate without access to your entire network? Paper and pencil?



- 45% of all companies hit by ransomware pay the demanded amount. (Source: Imperva)
- The bad news is that 17.5% of all infected companies paid the ransom, yet still lost their data.
- Good news is 44.4% didn't pay the ransom, but still managed to recover their data. (Source: Agari)
- Even for companies who do pay the ransom there are still significant impacts. For many companies, the actual ransom payment isn't even the most expensive part of the attack. Companies have to restore backups, rebuild systems, work with forensic investigators to ensure that the hackers are truly locked out and, in many cases, implement stronger cybersecurity controls to prevent future attacks.

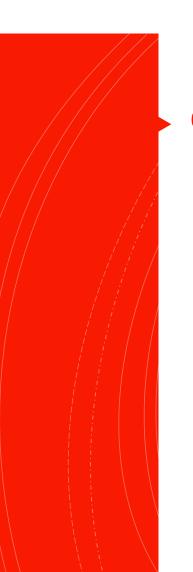
Pay or Don't Pay?





- 1.Lack of Cybersecurity Systems
- 2. Untrained Employees
- 3. Unsecured Accounts
- 4.Insufficient Upkeep
- 5.Lack of an Action Plan





Costs

- I. Forensic Audit
 In most cases, firms will need to conduct a forensic audit to determine how
 they were infiltrated Audits can cost anywhere from \$10k to over \$100k
 - they were infiltrated. Audits can cost anywhere from \$10k to over \$100k, depending on the size of the business.
- Fines
 In many cases where customer data is leaked, the businesses can be fined tens of thousands of dollars for the breach.
- Ransom
 And then there are the potential costs of a cybercriminal asking for a hefty ransom in exchange for your leaked files.
- Recovery
 Possibly new computers, new software, training. 20 days 6 months to be fully operational again.





- Phishing emails and text messages often tell a story to trick you into clicking on a link or opening an attachment. They may:
 - say they've noticed some suspicious activity or log-in attempts
 - claim there's a problem with your account or your payment information
 - say you must confirm some personal information
 - include a fake invoice
 - want you to click on a link to make a payment
 - say you're eligible to register for a government refund
 - offer a coupon for free stuff



- Require long varied passwords for all systems
- Enable two-factor authentication for any sensitive accounts
- Limit employees' access to sensitive data



Amount of Time to Crack Passwords

"abcdefg" 7 characters



.29 milliseconds

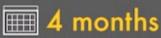
"abcdefgh" 8 characters



"abcdefghi" 9 characters



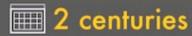
"abcdefghij" 10 characters



"abcdefghijk" 11 characters



"abcdefghijkl" 12 characters





People are the weakest link. Make sure to use uppercase, lowercase, numbers, special characters. Reset company passwords monthly. Multi-factor identification.





There is Hope.

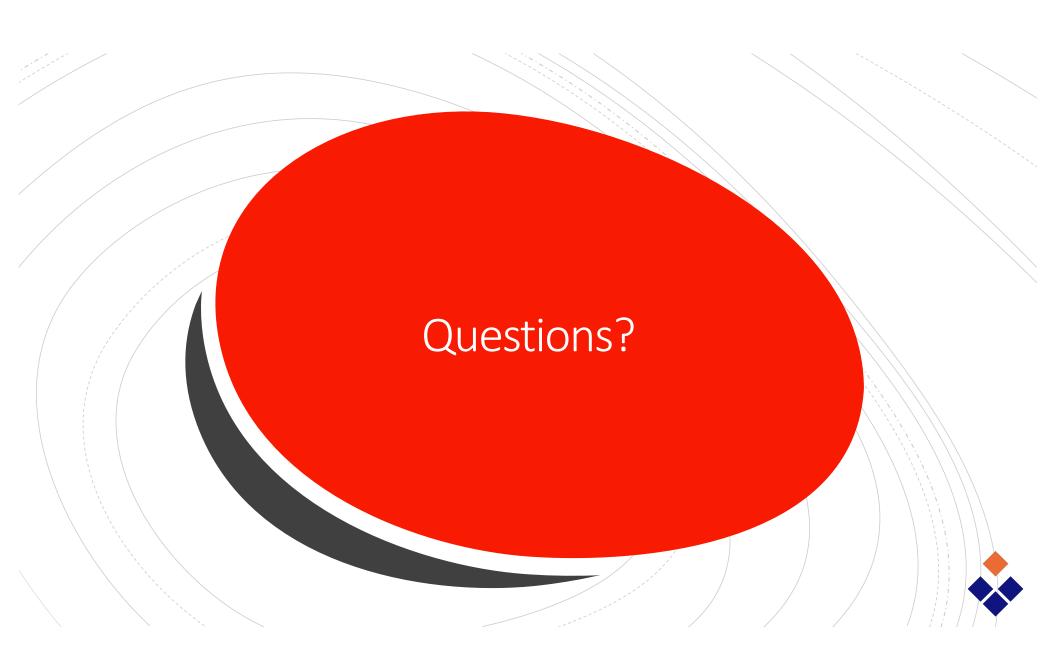
According to an East Coast Ski Area IT professional who wishes to remain anonymous, they recommend every ski area should be doing the following:

- Appoint an Executive level point person to lead your cybersecurity initiative.
- Have a current cyber action plan that starts with a current assessment of your systems to look for security holes and gauge your PCI (Payment card industry) compliance.
- Consider cyber insurance (if you can get it). There are pros and cons to cyber insurance, but it is recommended if done right. Tyson from Gregory & Appel.
- Invest in user training and spoofing services. Training employees needs to be an ongoing focus. 1Risk offers good material and services.
- Lastly, hire security professionals either in house or 3rd party but dedicate the resources for 24x7x365 monitoring and software tools.



- Internet Crime Complain Center
- https://www.ic3.gov/
- https://www.fbi.gov/scams-and-safety
- https://www.consumer.ftc.gov/features/feature-0038onguardonline
- https://www.fbi.gov/news/stories/ic3-logs-6-millioncomplaints-051721
- https://us-cert.cisa.gov/ncas/currentactivity/2021/07/04/cisa-fbi-guidance-msps-and-theircustomers-affected-kaseya-vsa
- https://go.cybeready.com
- https://www.verizon.com/business/products/security/cyber-risk-mana gement/cyber-risk-monitoring/security-assessment-signup/









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