

Next Roundtable

Tabletop Ransomware Simulation: Are you prepared?

<u>Guest Speaker</u>: Wes Spencer, CISO
Perch Security, former Chairman of FS-ISAC

with Mike Burgard and Jon Roberts

December 10, 2020 12:00 PM - 1:30 PM CT

<u>www.marconet.com/events/tabletop-incident-response</u>





What We See



Deep Dive

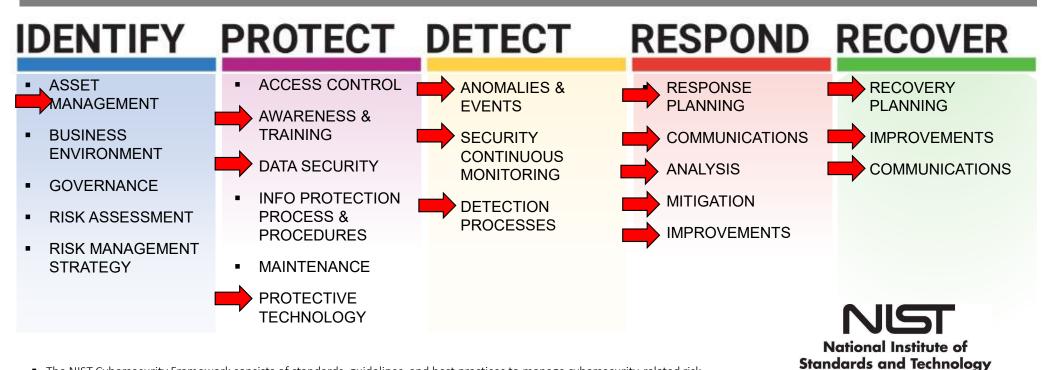


Taking Action



Cybersecurity Framework

NIST Cybersecurity Framework



• The NIST Cybersecurity Framework consists of standards, guidelines, and best practices to manage cybersecurity-related risk.







Phishing & Business Email Compromise

Up 650% since the start of COVID-19



RDP Exploits

Resurgence of older vulnerabilities



Ransomware

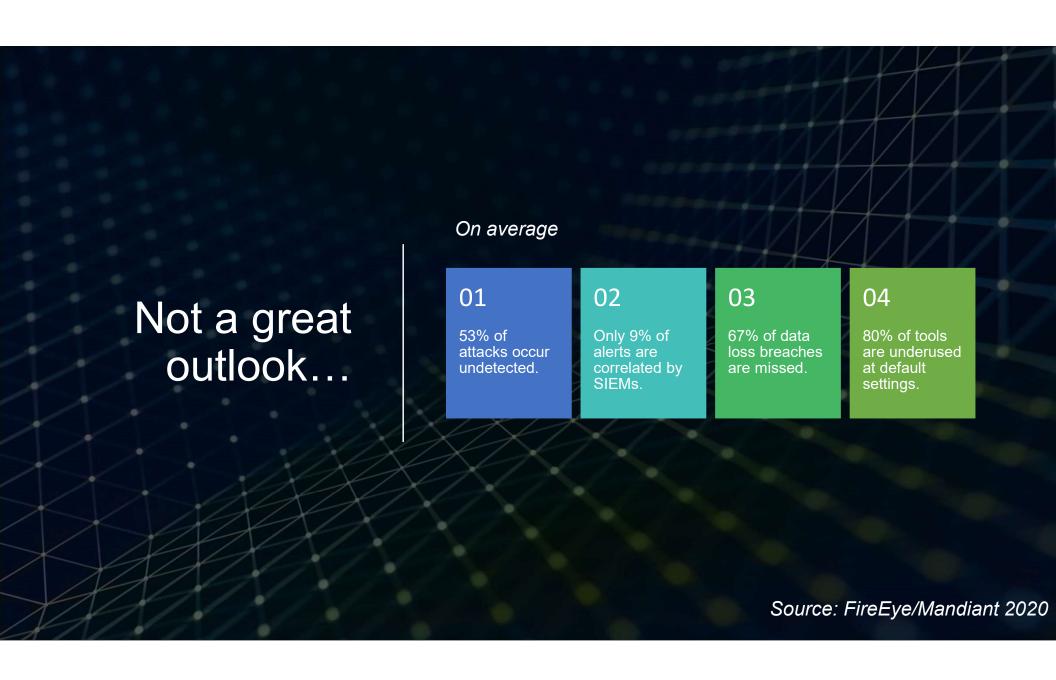
with *Exfiltration of Data*



Work from Home Exploits

all of the above made easier plus more!





Reality of Cyber Attacks

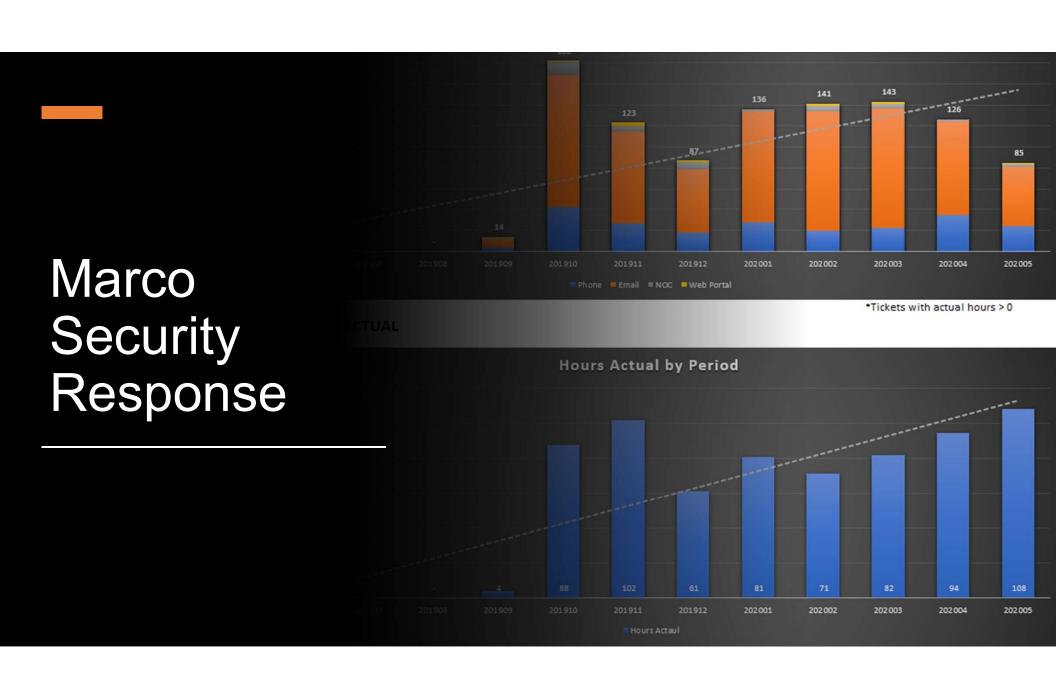
2019 CRIME TYPES

2019	Crime	TI	pes	Cont	inued

By Victim Count				By Victim Loss			
Crime Type	Victims	Crime Type	Victims	Crime Type	Loss	Crime Type	Loss
Phishing/Vishing/Smishing/Pha Non-Payment/Non-Delivery Extortion Personal Data Breach Spoofing BEC/EAC Confidence Fraud/Romance Identity Theft Harassment/Threats of Violence Overpayment Advanced Fee Employment Credit Card Fraud Government Impersonation Tech Support Real Estate/Rental Other	114,702 61,832 43,101 38,218 25,789 23,7 19,473 16,053 15,502 15,395 14,607 14,493 14,378 13,873 13,633 11,677 10,842	Lottery/Sweepstakes/Inheritance Misrepresentation Investment IPR/Copyright and Counterfeit Malware/Scareware/Virus Ransomware Corporate Data Breach Denial of Service/TDoS Crimes Against Children Re-shipping Civil Matter Health Care Related Charity Gambling Terrorism Hacktivist	7,767 5,975 3,999 3,892 2,373 2,047 1,795 1,353 1,312 929 908 657 407 262	BEC/EAC Confidence Fraud/Romance Spoofing Investment Real Estate/Rental Non-Payment/Non-Delivery Identity Theft Government Impersonation Personal Data Breach Credit Card Fraud Extortion Advanced Fee Other Phishing/Vishing/Smishing/Pharming Overpayment Tech Support Corporate Data Breach	\$1,776,549,688 \$475,014,032 \$300,478,433 \$222,186,195 \$221,365,911 \$196,563,4 \$160,305,789 \$124,292,606 \$120,102,501 \$111,491,163 \$107,498,956 \$100,602,297 \$66,223,160 \$57,836,379 \$55,820,212 \$54,041,053 \$53,398,278	Employment Civil Matter Harassment/Threats of Violence Misrepresentation IPR/Copyright and Counterfeit Ransomware Denial of Service/TDoS Charity Malware/Scareware/ Virus Re-shipping Gambling Health Care Related Crimes Against Children Hacktivist Terrorism	\$42,618,705 \$20,242,867 \$19,866,654 \$12,371,573 \$10,293,307 **\$8,965,847 \$7,598,198 \$2,214,383 \$2,009,119 \$1,772,692 \$1,458,118 \$1,128,838 \$975,311 \$129,000 \$49,589

Source: IC3.gov

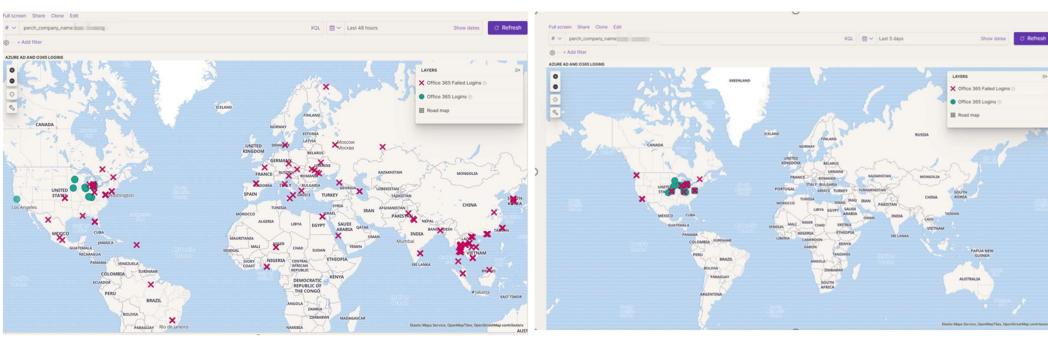




Why Security Controls Matter

During an incident with no security controls

Few days later with controls in place



Before Is this you today?

After Or is this you today?



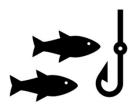
Rising cost of an incident...

Above costs are averaged for a 200-250 employee company in 2020

** This is not representative of all costs.

Incident Response Firm	\$50-150K		
Ransom	\$175K (Often start much higher)		
Incident Recovery Services	\$200K+		
Recovery Equipment	Varies - \$25-300K not uncommon		
Legal Services	\$25K		
Downtime	Cost per hour down varies Average to partial recovery is 72 hours, weeks for full recovery		
Cost without Cyber Insurance	\$450K - \$850K+		
Cost with Cyber Insurance	Deductible plus overages or coverage gaps NOT ZERO!		

Reality of Phishing



Phishing Leads to:

Business Email Compromise (BEC)
Corporate Account Takeover (CATO)



Consequences:

Circle of influence is at risk

Wire Fraud

Intellectual Property and Protected Information

Ransomware (Extortion and Exfiltration)

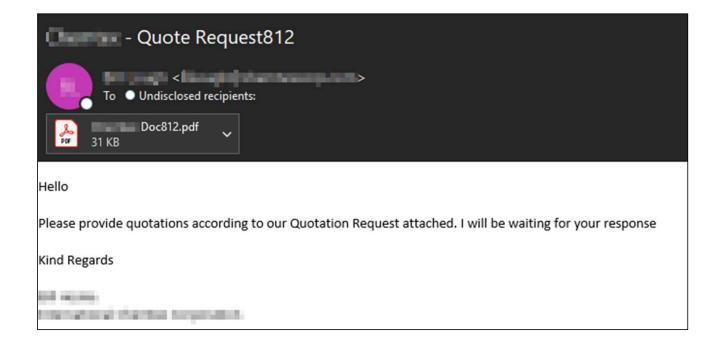
Reputation Damage

Required Reporting

Loss of Employment

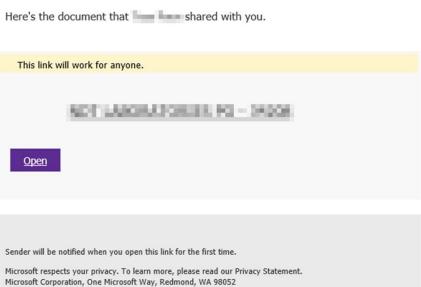


Examples

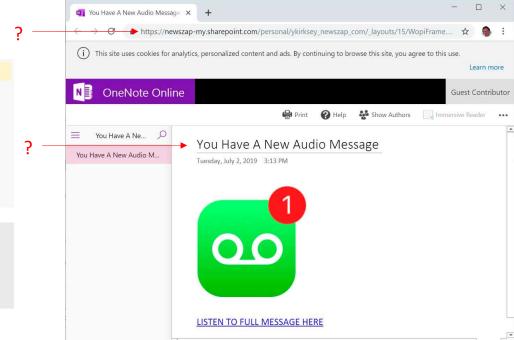




Examples



Bad guys use good things...





Reality of Ransomware





Ransomware Reality:

Ransomware is significantly on the rise again

Time is critical, but containment and forensics take time

Ransomware often exfiltrates data

Consequences:

Inability to operate

Loss of business

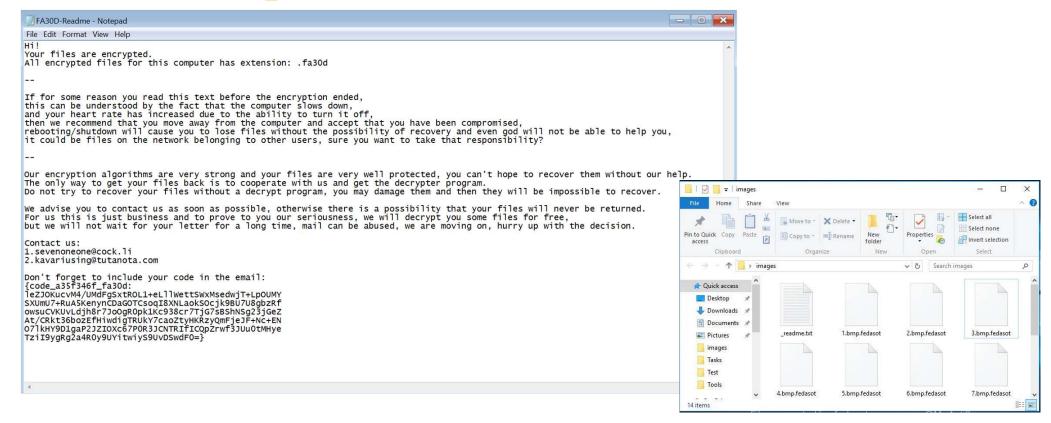
Significant financial impact (even with insurance)

Reputation damage

Bankruptcy



Examples





What to Expect



Fear, Uncertainty, Doubt – Panic!



Lack of preparedness – what are next steps?



Your Cyber Insurance will help you, correctly. Use them!



Containment and Recovery will not go as fast as you want.



Your response process and technologies may deviate from the plan.



Legal involvement. Use Breach Counsel provided by cyber insurance.



Your business will be different than pre-incident.



Overtime, lack of sleep, and burn out.



Know your terminology. Do not use the word "Breach".



What do I do about it?



Assess – Know your risks, posture, and maturity level



Have a Plan (Incident Response, Business Continuity, DR, Insurance, Know who to call)



Test your plan – Tabletops, Walkthroughs, Simulations



Mature – Establish security targets and improvements as part of business plan



Repeat – Re-assess periodically as technology and risks change over time







