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CHBERSECURILL



KNOWLEDGE HUB

Vendor **Relationships:** Soft Skills for **CISOs**

UNDER THE SPOTLIGHT

"Invalidation of the EU-U.S. Privacy Shield was a long time coming"

Cybersecurity **Approaches**

All Businesses Should Consider in 2021





WISHING YOU A

HAPPY

Hew Year

TEAM CISO MAG



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EDITOR'S NOTE

CYBERATTACKS WILL MOVE TO A HIGHER LEVEL

I begin this note by wishing all our readers, patrons, contributors, business partners, and fans a **Very Happy** and **Healthy New Year!**

Yes, health and health care are going to be important considerations for the world in 2021. I am optimistic that, with the availability of vaccines, the world will limp back to normalcy this year. With that, the rate of unemployment should drop, and the crime graph will also dip. And hopefully, cybercriminals will mend their ways.

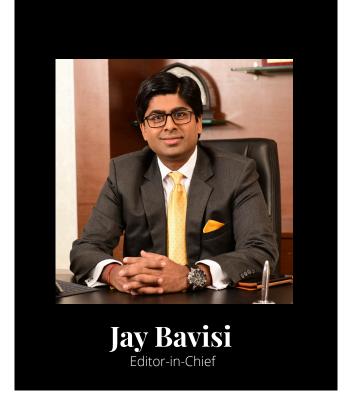
Yet, it is worrisome to see cybercriminals moving to sophisticated agendas, like their involvement in cyber warfare and attacks on critical infrastructure, with malicious intentions of disrupting life and destabilizing economies. Attacking nuclear facilities (Iran) or turning off the national grid used to be the stuff of James Bond and Mission Impossible movies. It's very much a reality today. And it makes those that peddle credit card numbers on the dark web look like rookies.

Thirty years ago, hackers were contented with attacking browsers or applications and disrupting enterprise networks. They pursued intellectual property and customer data – and sold that to competitors. But today, they are after something much bigger than that.

For our first issue of 2021, we spoke to many industry professionals to validate our beliefs about what we think could be the leading cybersecurity trends. Read what the cybersecurity pundits predict in our INSIGHT section on page 20.

Don't miss our Cover Story, *5 Cybersecurity Approaches That All Businesses Should Consider in 2021*, on page 50. It offers wisdom and advice for CISOs.

I can confidently say that the trends will align to the pandemic



– as work from home continues, and supply chains are reconfigured. Bad actors will choose to exploit the naivety of gullible folks, this time turning their attention to vaccine distribution and health insurance fraud. And since we shop online more often, they will target e-commerce sites and logistics companies too.

So, please be prudent and mindful about emails or texts from people impersonating health authorities or from fake insurance or logistics companies.

The bad guys are also going to up their game and look at new modes of attack – like deepfakes – and the use of artificial intelligence. Don't be surprised to see more deepfake news videos that sound and look so much like the real thing. And if you get a call from your CEO or CFO, which sounds so much like them, would you fall for it? It could be a case of deepfake – yes, the bad guys can do voices too, like the late Hollywood actor Robin Williams (watch the 1993 American comedy-film *Mrs. Doubtfire*). That's taking spear-phishing and whaling to a whole new level!

So, adopt a **zero-trust** policy, even at a personal level. And do verify by making a few calls.

Stay safe, cautious, and healthy in 2021.

Please write to us at cisomag@eccouncil.org.

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VERY SERIOUSLY"

Donny Chong Product Director Nexusguard







BUZZ

ne year 2020 witnessed a seismic physical, economic, and cultural shift among global organizations, as businesses adapted to working during a pandemic.

When COVID-19 brought sweeping changes to the way we operate, communicate, and do business, cybercriminals were in the wings waiting to seize the opportunity to exploit security weaknesses for monetary and disruptive gains. In light of this, we've experienced a sharp rise in cyberattacks across a range of industries including health care, education, and e-commerce. Today, cybercriminals are constantly evolving to take advantage of online behavior and trends and the COVID-19 pandemic is no exception to this.

So, what will cybercriminals bring to the table in 2021? How do organizations ensure they have the appropriate cybersecurity strategy in place to mitigate the ever-changing and evolving cyberthreats?

The Rising Risk of **Remote Working**

Today, most organizations have a remote workforce, and many employees are relying on personal devices to conduct work – this method of working is not secure. Why? Remote employees are sharing the home network with smart TVs, phones, tablets, and various IoT devices that are not adequately secured. The exchange of highly sensitive and confidential information that once occurred behind the fortified infrastructures is now being conducted from fragile home networks.

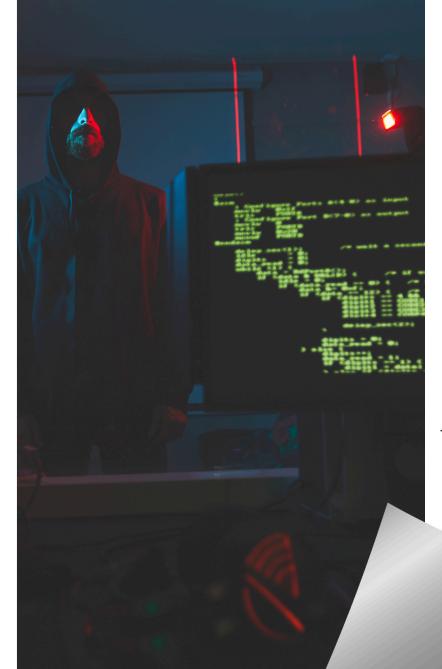
For the modern CTO, this situation is not ideal. As home working cyber-related risks will only become greater during the next year, CTOs and their teams are relentlessly exploring avenues to help mitigate cyber risk. In 2021, organizations will need to spend more time and money on endpoint security and end-user training.

AI: The Future of Cybersecurity

The massive and sudden increase in the number of people working from home has furthermore validated the role of artificial intelligence (AI) in the future of cybersecurity. Unlike traditional security solutions, AI does not depend on known signatures. Instead, it relies on user and attack behavior analytics and network traffic analytics, quickly neutralizing a threat before it becomes a crisis.

Phishing is the most commonly known threat countered by the use of Al. Microsoft and Google already use AI to detect spam and phishing emails. Several cybersecurity companies including Rapid7, Dark Trace, Barracuda, and Palo Alto are using Al-powered SIEM, firewalls, and a variety of other applications to ensure organizations remain secure.

The implementation of AI and Machine Learning helps us identify attacks by being able to analyze and predict attacks in real-time. In 2021, we will see much more of this as organizations invest in avoiding cyberattacks before they become a threat.



cybercrime threat to (specifically) U.S. hospitals and health care providers."

The extortion techniques are changing too. For example, a recent hack of a mental health services provider, Vastaamo, resulted in hackers contacting the patients and threatening to release their therapy notes and other data unless a sum of 200 Euros was paid.

For any organization, whether a business or a hospital, the freezing of its digital systems threatens customer and patient care, creating urgency to pay up and recover. For as long as it is monetarily viable, ransomware will continue to be a top threat for many years to come.

Social Engineering - The Dangers of Deep Fakes

rings are the weakest link in the more defensive technologic

Ransomware: A **Threat**

Cybercriminals follow the cases will continue to ris use a tool for as long many hospitals and victims of ransom Infrastructure S Department of warned that

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