



Resolve and Evolve: Global Cyber Threats of 2021



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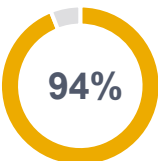
2021 Evolving Themes

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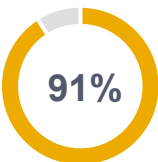
- Increasing levels of Sophistication, Customization and Personalization
- Finding more Legitimate services to abuse
- Capitalizing on global trends
- Evolving to fill the void left behind by operational disruptions



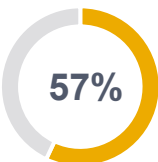
Why are we still discussing email security?



**Malware delivered
by email**



**Cyberattacks that
begin with a spear
phishing email**



**Spam, Phishing,
or Malware**

2020 Crime Types Continued (by victim loss)

Crime Type	Loss	Crime Type	Loss
BEC/EAC	\$1,866,642,107	Overpayment	\$51,039,922
Confidence Fraud/Romance	\$600,249,821	Ransomware	**\$29,157,405
Investment	\$336,469,000	Health Care Related	\$29,042,515
Non-Payment/Non-Delivery	\$265,011,249	Civil Matter	\$24,915,958
Identity Theft	\$219,484,699	Misrepresentation	\$19,707,242
Spoofing	\$216,513,728	Malware/Scareware/Virus	\$6,904,054
Real Estate/Rental	\$213,196,082	Harassment/Threats Violence	\$6,547,449
Personal Data Breach	\$194,473,055	IPR/Copyright/Counterfeit	\$5,910,617
Tech Support	\$146,477,709	Charity	\$4,428,766
Credit Card Fraud	\$129,820,792	Gambling	\$3,961,508
Corporate Data Breach	\$128,916,648	Re-shipping	\$3,095,265
Government Impersonation	\$109,938,030	Crimes Against Children	\$660,044
Other	\$101,523,082	Denial of Service/TDoS	\$512,127
Advanced Fee	\$83,215,405	Hacktivist	\$50
Extortion	\$70,935,939	Terrorism	\$0
Employment	\$62,314,015		
Lottery/Sweepstakes/Inheritance	\$61,111,319		
Phishing/Vishing/Smishing/Pharming	\$54,241,075		

Cybersecurity Thrust into Headlines



Hackers Lurked in SolarWinds Email System for at Least 9 Months, CEO Says

Investigators still don't know how the company was breached in at least one case, but the breach is expected to cost millions

Microsoft Warns of Chinese Hackers Targeting Email Product

So-called Hafnium group is attacking Microsoft Exchange Server, the tech giant says

Colonial Pipeline Said to Pay Ransom to Hackers Who Caused Shutdown

Operators of the fuel pipeline made the payment to regain control over their computer systems, say people familiar with the matter; company is now resuming service

Ransomware-as-a-Service



Phishing Kits

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The image displays a collection of eight phishing kit templates arranged in a 2x4 grid. Each template is a screenshot of a web page designed to mimic legitimate services like Google Docs, Microsoft Office, and SharePoint. The templates are labeled as follows:

- Excel scam page style 3: \$80.00
- GoogleDoc scam page style 1: \$80.00
- GoogleDoc scam page style 2: \$80.00
- GoogleDoc scam page style 4: \$80.00
- Excel scam page style 3: \$80.00
- Office Email 365 Scam Page Style 7: \$80.00
- Office Email 365 Scam Page Style 8: \$80.00
- Office Share Point Style 1: \$80.00

Each item includes a five-star rating and an 'ADD TO CART' button.

Emotet Takedown... aka Operation Ladybird

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Orchestrated
By Europol



Quarantined over 1
million infected systems



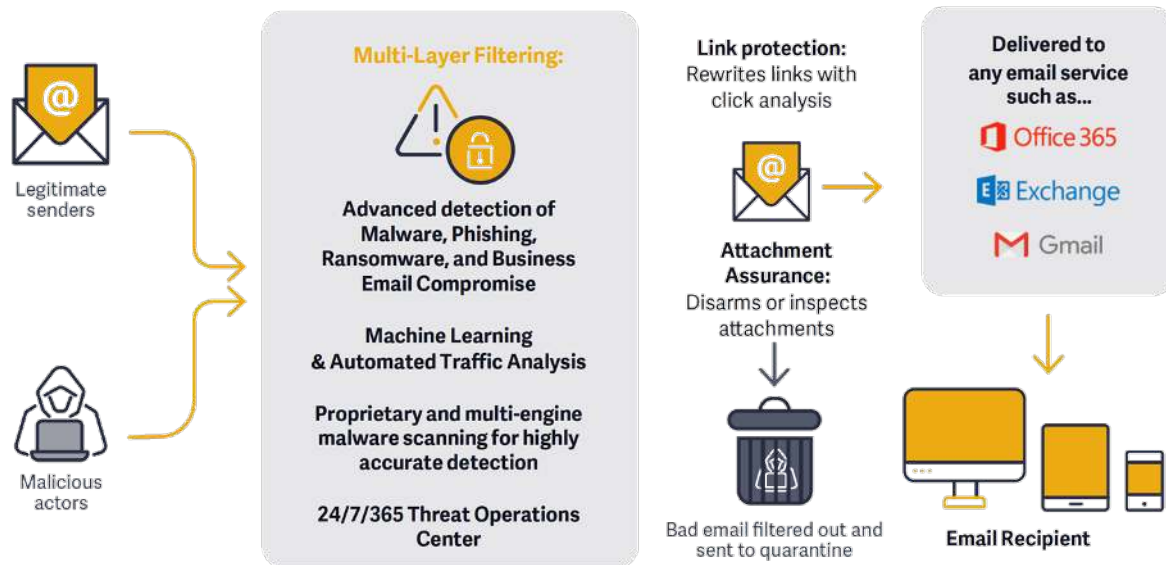
Disrupted future
operations



Email Threat Protection



Threat Protection

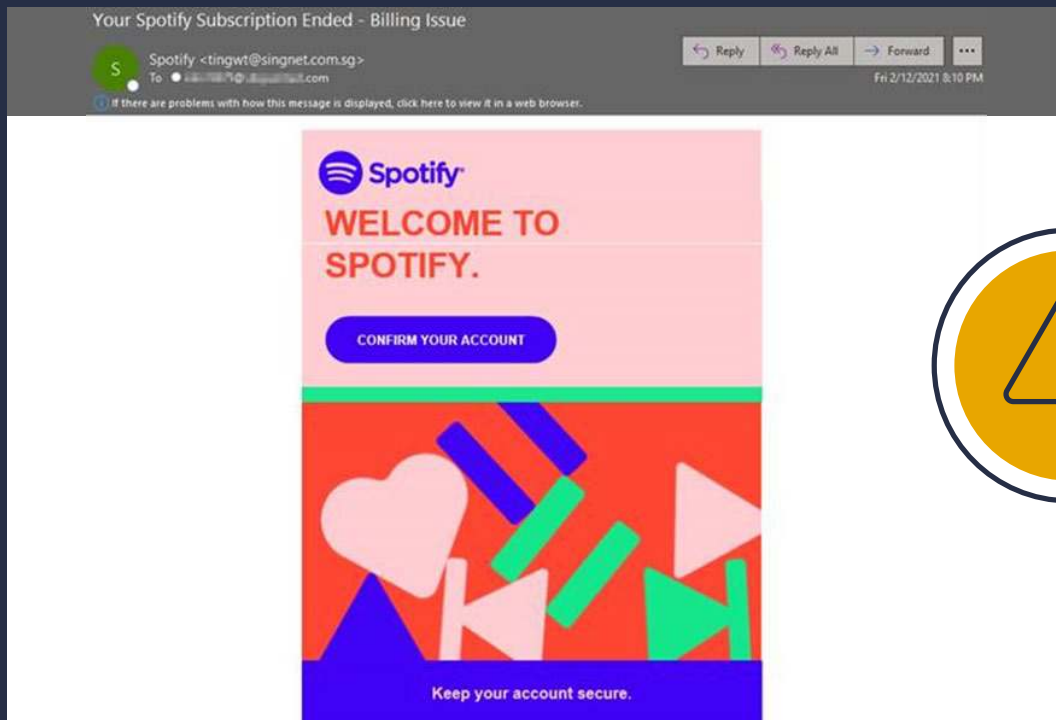


- Stop spam, phishing, zero-hour malware, and business email compromise without user intervention
- Dynamic time-of-click defense and attachment sandboxing
- 24/7/365 security technicians proactively adjust defenses
- Flexible routing, email policies, and on-demand message retraction expedites enforcement
- Daily configuration checks for optimized routing and protection

Email Attack Examples

More Obfuscation – Captcha Phishing

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More Obfuscation – Captcha Phishing

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Security Challenge

Enter Captcha Code





Submit

 Spotify[®]

To continue, log in to Spotify.

Email address or username

Password

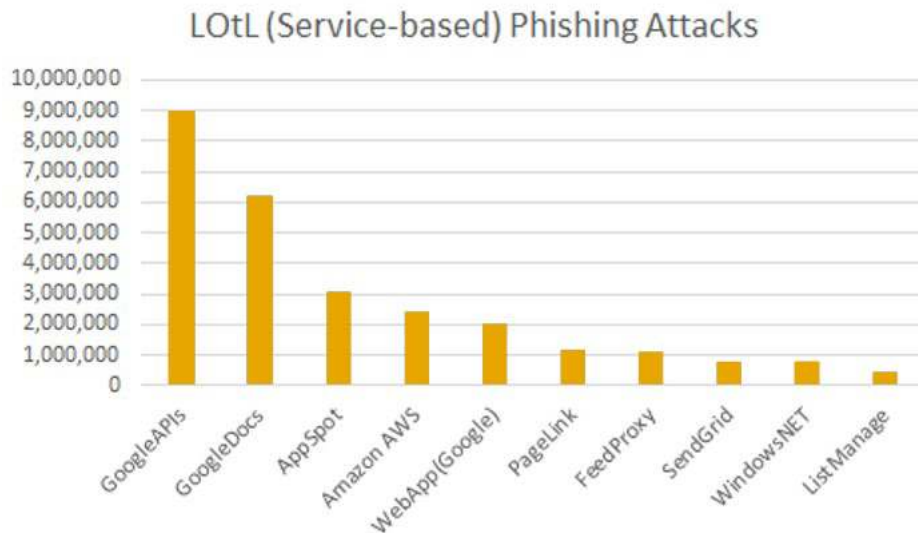
☐ Remember me

LOG IN

[Forgot your password?](#)

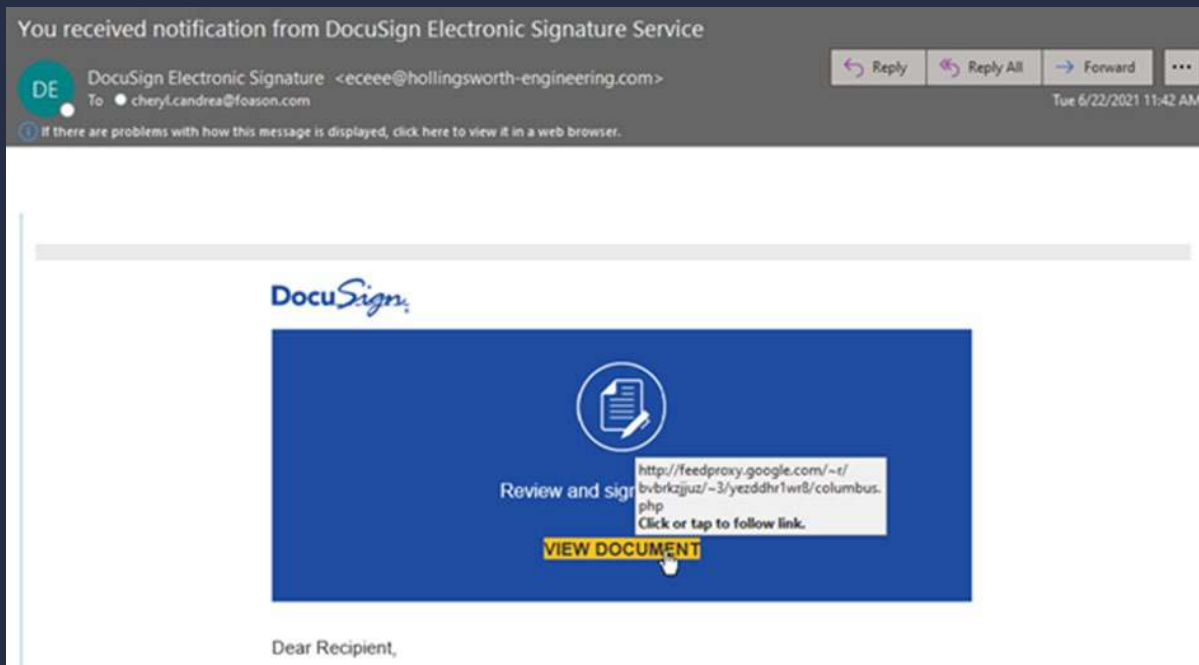
[Terms, Conditions](#) and [Privacy Policy](#).

Living off the Land (LOtL) Phishing Attacks



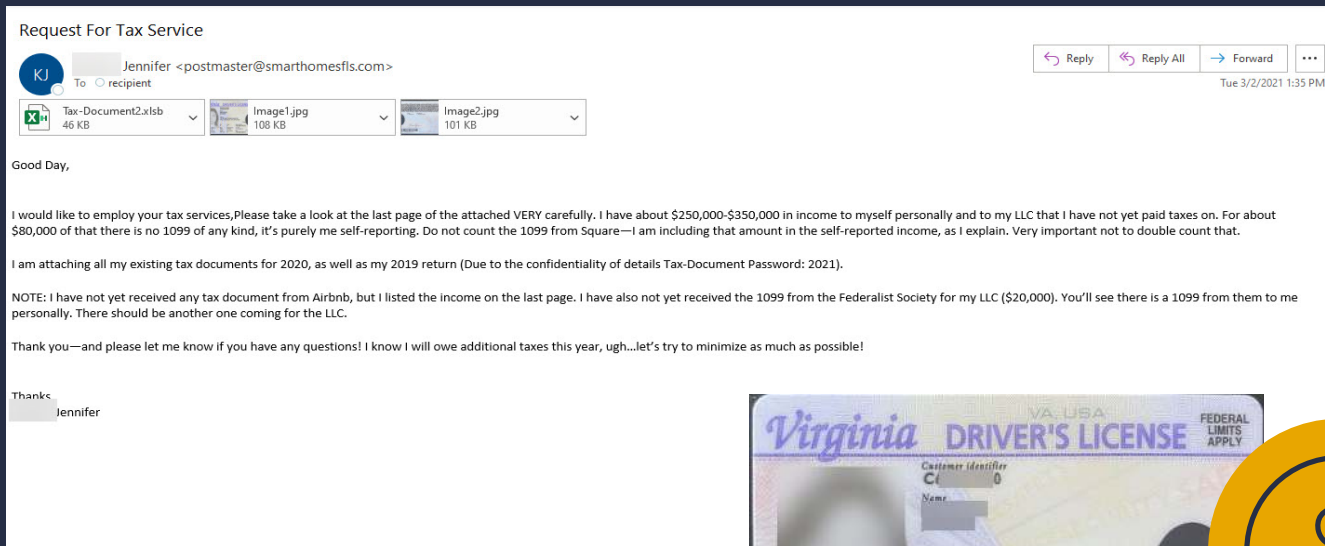
Living off the Land (LOtL) Phishing Attacks

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Remcos RAT -Tax Scam

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Security Tips



Never reuse the same password on different services, if the service is compromised attackers will try that same password for others.



Implement a VPN for all remote workers but resist using a free VPN service as they often monetize your private data



Limit use of third-party services



Use end to end email encryption for any message containing confidential or personally identifiable information



Ensure your solution is capable of dynamically analyzing email attachments

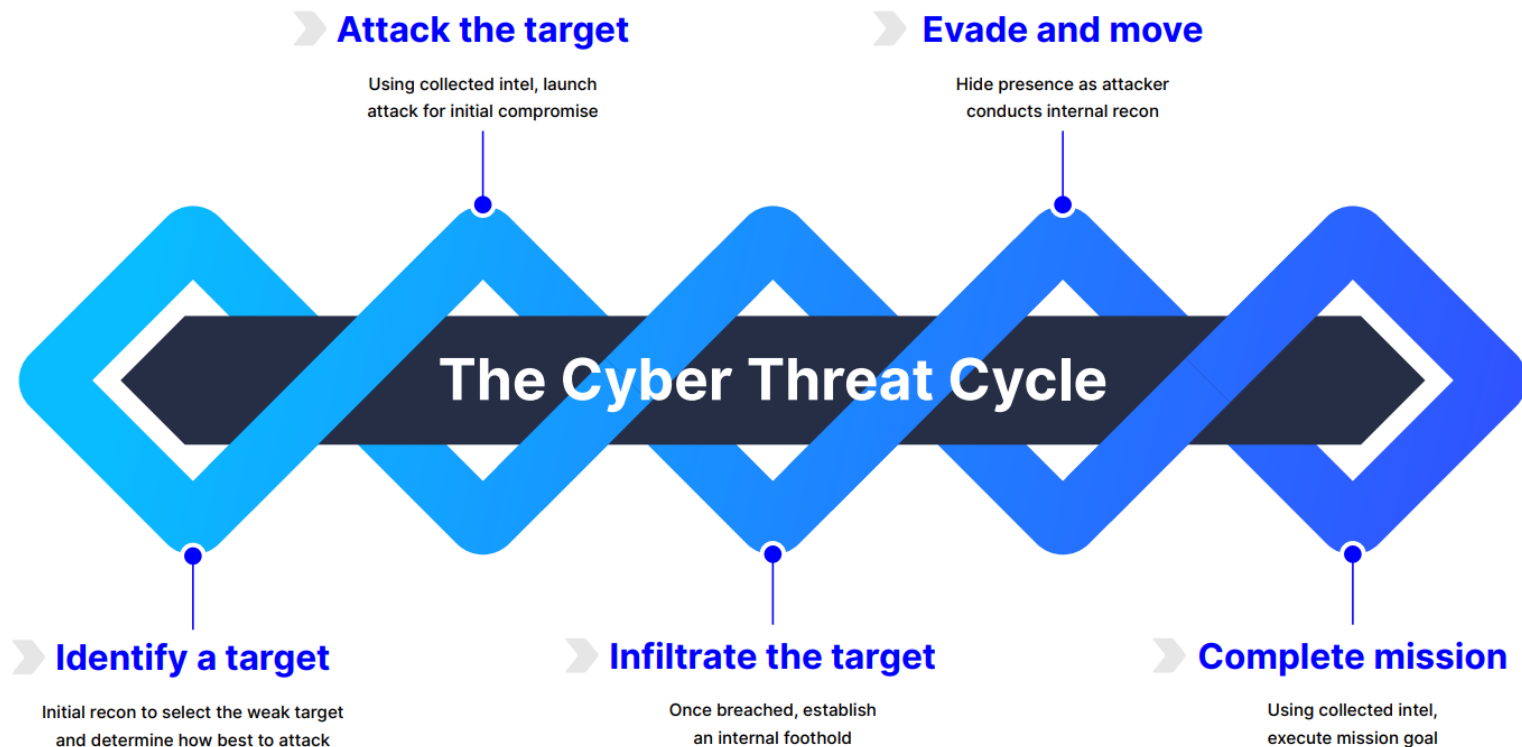


Audit your email environment for O365 users our Security audit can provide critical insights



If there is any suspicion about a message or transaction, it never hurts to call the sender. Most will be glad of your security protocols in place to help prevent fraud

Security Tips



Security Tips



➤ Protect

Advanced Email Threat Protection
Multi-factor Authentication
Advanced Email Encryption

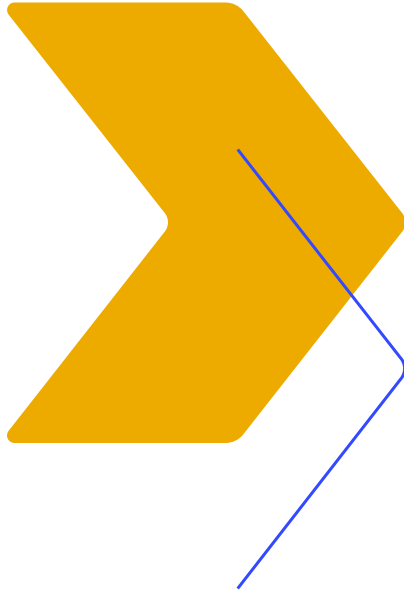
➤ Detect

Security Audit
Threat Analysis Team / Tools
Data Loss Prevention Scanning

➤ Respond

Threat Investigation / Analysis
Vulnerability Remediation
Backup and Recovery





Thank you.



Andrew Murphy
Director of Product Marketing

Questions?