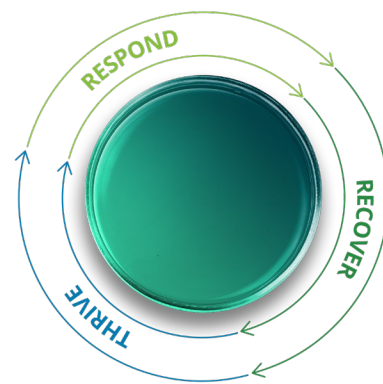




Global Cyber COVID-19 weekly executive cyber briefing

A weekly high-level brief that focuses on some of the most current cyber threats and trends as identified by Deloitte Cyber Threat Intelligence (CTI), with near-term recommendations on managing cyber risks to respond, recover and thrive through the COVID-19 global pandemic.



Data protection and privacy in the age of COVID-19

This week we highlight a **few of the issues and related cyber threats** (and originally identified in our detailed threat report dated April 11 – April 16) impacting consumers, non-profit organizations as well as healthcare organizations globally. Threat actors are exploiting fear around COVID-19 to target users with information-stealing malware, with the aim of obtaining Personally Identifiable Information (PII), financial information, or credentials to facilitate further access. The ongoing COVID-19 pandemic has amplified risk factors by increasing the volume of attacks that target user data and impact their privacy. In addition, the Research from Deloitte Cyber Threat Intelligence (CTI) indicates COVID-19 pandemic responses by healthcare providers and research institutes are hampered by cyber adversaries who are launching cyber-attacks around the globe targeted at critical health care infrastructure.

Intellectual property theft Impact reach: Life sciences | Geographies: Canada, Japan

Agent Tesla Malware used on medical research facility to identify future IP theft targets

From March to April 2020, Deloitte CTI observed a COVID-19 themed phishing campaign targeting medical research facilities located in Japan and Canada using information stealing malware. In this campaign, phishing emails were delivered to targets using subject lines such as "COVID-19 Supplier Notice" or a "Corporate advisory" and included malicious ZIP files "COVID-19 Supplier Notice.zip" as an attachment. When opened, the malware was loaded on to the victims' machines.

The Agent Tesla malware can perform screen capturing, password stealing, webcam recording and downloading additional malware. The threat actors almost certainly targeted these organizations to gain access to their networks to conduct reconnaissance and facilitate future IP theft.

Suggested top actions:

1. Ensure proper deployment and update of anti-phishing, anti-virus, and web-filtering security controls.
2. Be on alert as spam messages may also look legitimate or purport to be from official sources and may use subject line themes associated with COVID-19 or Coronavirus.
3. Recipients of suspicious emails are encouraged to verify the ostensible sender via alternate communication methods, via secure channels and not use the contact information provided in a message.

Theft of Consumer Personal Information Impact reach: Consumer | Geographies: Global

Fraudsters pose as charities and organizations to process fake donation payments and target personal login credentials in various campaigns

Deloitte CTI assesses with high confidence that COVID-19 related themes are increasingly and effectively used to facilitate the theft of Personally Identifiable Information (PII) or financial information. **Turn-key phishing kits** and Phishing-as-a-Service (PhaaS) products are increasing the number of threats as there is no longer a technical barrier to becoming a threat actor – only a financial one. Between February and April 2020:


- A series of phishing kits were distributed that imitate legitimate websites/organizations to enable fraudulent transactions. Users are tricked into providing sensitive information such as login credentials to view COVID-19 related policies. Alternatively, they may facilitate fraud by processing "donation" payments for charities or other COVID related institutions which do not exist.
- Multiple COVID-19 related watering hole attacks were launched to steal information such as browser cookies, history, payment information, form autofill information and saved login credentials. A **watering hole attack** is a security exploit in which the attacker seeks to compromise a specific group of end users by infecting websites that members of the group are known to visit.


Suggested top actions:


1. Enable two-factor authentication for any third-party logins, vendor logins, and remote user logins.
2. Monitor and limit the number of login attempts allowed by a user to get into a system. After a threshold is passed, disable the account and implement the second channel of verification to re-enable the account.
3. Implement Access Control (AC) and Identity Access Management (IAM) in order to limit network privileges and shared drive permissions to contain endpoint ransomware infections. Grant users the minimum local privileges that they need in their roles.
4. Avoid clicking on attachments or links embedded in email messages with subject lines purporting to contain information related to COVID-19 or Coronavirus.




Top Data Protection and Privacy considerations amid COVID-19

 In the UK, NHS gave supermarkets data about vulnerable patients to prioritize deliveries to those most in need. The information covered **at least 1.5 million people**.
What data protection and privacy measures should be taken for public health?

 The US may leverage the National Syndromic Surveillance Program, which is a voluntary collaboration between the Centers for Disease Control and Prevention and various state and local health departments that **draws data from more than 4,000 health care facilities**.
Does the processing of health data by public authorities open the door to surveillance?

 Analysis of eCommerce transactions found that purchases for cold, cough & flu products have **increased 198%**, while online purchases for pain relievers **increased 152%**.
What are the consequences of processing highly sensitive data?

 Apple and Google unveiled tools that would allow smartphone users to know if they have crossed paths with anyone who has COVID-19. This technology could inject valuable new support into contact tracing, a strategy public health officials say is essential to allowing people to return to work and normal life while containing the spread of the pandemic.
If monitoring citizens, what measures should be taken to anonymously monitor?

PHI is more valuable to fraudsters than PII from other industries because of the greater amount of detail that it contains, such as dates of birth and Social Security numbers. The detail level in PHI facilitates identity theft, such as fraudulent applications for lines of credit, insurance fraud, and the fraudulent acquisition of prescription medications.

Bulk PII records from non-health care organizations may sell for as little as

 **\$0.10** USD per record

whereas PHI records may sell for as much as

 **\$5** USD per record



WHAT QUESTIONS ORGANIZATIONAL LEADERS SHOULD BE ASKING AROUND DATA PRIVACY AS WE SHIFT TO THE "NEXT NORMAL"

As society transitions, whenever their governments deem the timing right, traditional organizations have some tough decisions to make around how to bring employees and customers back into their businesses. Do they take temperatures, wait for antibody testing, do they ask for health disclosures? Whichever path they choose, there will be decisions to be made around data privacy.

Globally, there is tension around the topic of privacy and pandemic management. Questions around ethics in data collection, analysis and privacy are raised. What questions should organizations begin asking around data privacy to get to the answers they need in order to identify a path forward for their workforce, customers and citizens? Perhaps they should consider the following:

Table with 3 columns: Data lifecycle, Considerations for organizations navigating 'Respond and Recover?', and Considerations for organizations to 'Thrive' in the next normal? Rows include: Create or collect, Store and process, Analyze and use, Share or transfer, Retain and destroy.



We're by your side to help you through COVID-19

Relevant Deloitte reads:

- On-Demand Webcast: Responding to COVID-19 with business resilience, trust, and security
Article: COVID-19 Government Response Portal
Analysis: Privacy and Data Protection in the Age of COVID-19
Article: GDPR: How to make your business more resilient against data protection breaches in light of the COVID-19 crisis?

Deloitte Cyber helps organizations perform better, solving complex problems so they can build confident futures. Smarter, faster, more connected futures—for business, for people, and for the planet. As a recognized leader in cybersecurity consulting, Deloitte Cyber can help better align cyber risk strategy and investments with strategic business priorities, improve threat awareness and visibility, and strengthen our clients' ability to thrive in the face of cyber incidents.



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