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Staying safe – sustaining your organizational cyber hygiene amid COVID-19 disruption

Within a matter of days, business operations across industries and geographies have been radically altered. After initial business continuity efforts, organizations should now consider establishing new operating models to address an unplanned, rapid, and massive shift to a remote workforce. The ability to remain connected and productive is critical to executing the mission and may dictate the survival of the business. Meanwhile, our public health remains threatened and digital risks are rising.. In the coming months, organizations should consider leveraging a risk-based approach to realign business and security priorities to adapt to a new, increasingly complex, and more difficult IT landscape.

Security challenges heightened by COVID-19:



Increased use of collaboration tools and other, often unapproved & unmanaged, SaaS applications (Shadow IT)



Early opportunistic attacks become sustained campaigns as network visibility is more difficult to maintain



Large numbers of new devices (personal and scaled corporate devices) connecting to the corporate network



Limited and inconsistent security of home networks that store, process and transmit sensitive business data



Rapidly implemented technologies that lack sufficient hardening and security controls



Already stretched cyber security resources manage an increased attack surface



Malicious and inadvertent insider threats caused by disgruntled or displaced employees and contractors



Greater difficulty in maintaining compliance with data privacy regulations in more distributed IT environments



Evolving compliance circumstances for regulated industries



Complex requirements for identity and access management as roles and responsibilities change

Although many of these security challenges existed prior to the COVID-19 pandemic, they now pose an even greater threat to businesses as the size and scale of connectivity for remote operations expands. The current environment dictates that leaders place greater focus on these issues, while also prioritizing business agility. Risk-driven prioritization of initiatives during this time enables the mission, while providing long-term operational viability and organizational resilience.

Steps to consider:

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Develop a risk-based prioritized security strategy and strengthen basic security coverage

Define services critical to mission/business to inform prioritized security strategy

- Determine service line criticality to prioritize access and availability. Involve stakeholders to understand how service line criticality has been impacted by COVID-19 (e.g., certain service lines have greater demand/importance of availability than under normal operations)
- Evaluate service and system risks, including access points and vulnerability. Quantify risk levels
 where possible
- Focus initial efforts on securing critical services and systems that pose the substantial security threat (e.g., sensitive data transactions or greater threat vector exposure)
- Explore whether high risk, lower value systems can be temporarily taken offline to avoid undue risk exposure
- Phase efforts and execute them methodically to bring security in lockstep with business operations

Enhance threat monitoring capabilities and hunt threats within your network(s)

- Re-baseline traffic patterns and tune endpoint agents for new processes
- Expand scope of threat intelligence focus to consumer services
- Confirm coverage for high-risk areas (e.g. data protection, insider threat)
- Integrate Data Leak Prevention (DLP) and document rights management into monitoring tools
- · Perform periodic sentiment analysis of your workforce
- · Actively monitor for disinformation that may negatively impact your mission
- Update your security incident response playbooks to reflect potential new threats/risks

Address third party and supply chain risks

- · Identify supply chain dependencies and disruptions
 - · Assess contractual coverage and analyze downstream impacts of third parties
- · Determine surge support requirements associated with overstretched security personnel
- Integrate appropriate third party governance controls into identity and access management protocols and threat monitoring to support remote delivery requirements
- Implement technology and processes for secure communications and information exchange

Stand up Project Management Office (PMO) to execute phased security approach

- Recognize that elevated risk levels will persist and prepare to articulate sustained cyber risk exposure to leadership
- Integrate security project management efforts with broader COVID-19 response efforts to keep in lockstep with transformation and business continuity efforts

Client Perspectives

As the situation continues to evolve, businesses are facing distinct challenges associated with mission, industry, and corporate structure

"I need to evolve my Help Desk to accommodate greater remote service delivery"

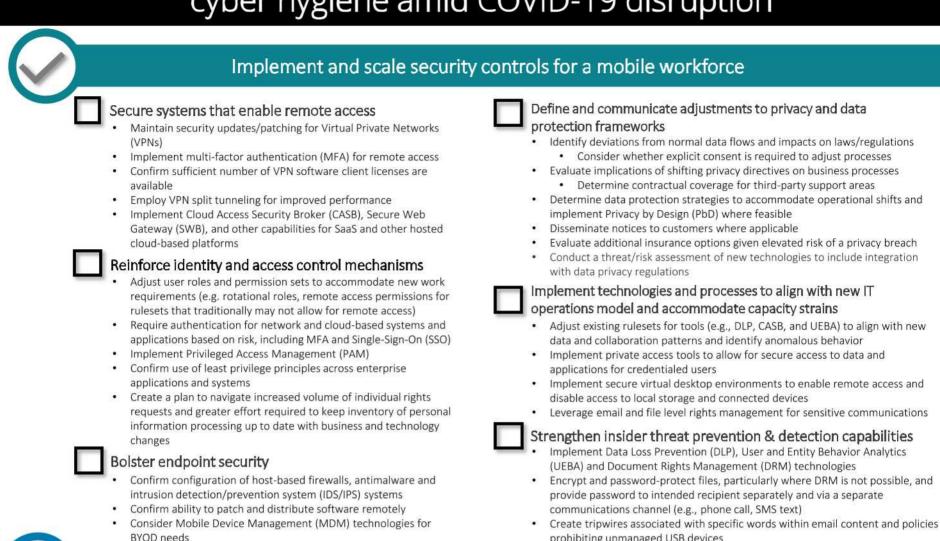
Action: Develop plans to bypass traditional 'walkup' services—to include Software and Hardware Support; IT staff surge support plans; assistance with setting up secure home networks; and securely configuring home computers to be used for work

"How can I enable remote work of employees without company-issued machines?" Action: Update software patches on BYOD

devices; disable email attachment autodownloads; use accepted cloud-based storage for backup; and deploy secure collaboration platforms and cloud-based technologies to share data

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Communicate with and train employees to take an active role in security

Update / tailor, as required, and implement employee **Determine PMO communications strategy** Plan PMO communications cadence, role-based content, mediums, etc. security awareness, education & training Include resources to facilitate engagement and prioritize physical and Review and update policies, trainings, and communications, as required: mental well-being Identify areas that may require updated policies to accommodate changes to regular operating procedures

- Create and communicate resources to support secure Communicate policies (and updates), expectations and available resources to remote work environments, including: employees and contractors Updating wireless network name (SSID) to prevent identifying owner/user(s)
 - Determine deficiencies in the workforce's cybersecurity awareness,
 - knowledge and skills and identify trainings that may be valuable to push out as
 - Continually update cybersecurity awareness, education and training to focus on current and pervasive phishing campaigns and social engineering attack vectors (e.g. COVID-19-related schemes)
 - Provide clear guidance and procedures for suspected malware incident. particularly ransomware, in order for employees to take immediate action and help contain incident damage and spread

Takeaways

Organizations should prepare for the long haul as they seek to serve customers and their workforce in the coming months. There is unlikely to be a "quick fix" to COVID-19driven challenges; and when a return to normalcy occurs, it is likely to be gradual rather than a quick shift back to regular operations. Further, "regular" operations postpandemic may be fundamentally different from those prior to this global outbreak, with impacts on organizational business models, resilience, and culture still unknown. Actions now will dictate risk exposure for months, if not longer, and gradual steps to mitigate IT-based risks will help safeguard organizational resiliency for the future.

Changing default or updating weak wireless network passwords

translation (NAT) and enable web content filtering services

Deploying home network routers that provide firewall and network access

Requiring use of corporate VPNs and disabling home network file sharing

Securing PHI/PII in a locked safe or drawer and secure printing practices

Being mindful of shoulder surfing depending on remote work setup

Locking unattended devices & preventing others from using company devices

Enabling wireless encryption (WPA2-AES)

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Act rapidly to adopt a risk-based approach to managing elevated threat levels

Adjust your infrastructure to keep an active pulse on data protection and privacy

Empower your employees to work securely, while promoting physical and mental well-being

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prohibiting unmanaged USB devices

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