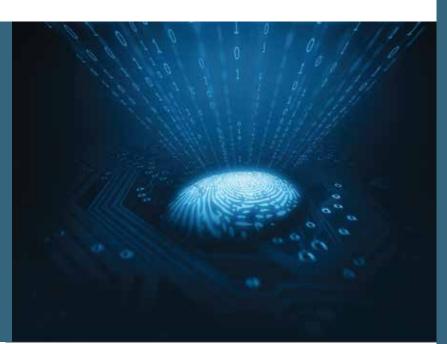
DECEMBER 2024 MONTHLY BULLETIN



CyberForce|Q continues to work diligently to detect the latest threats within the cyber landscape. We are excited to share our most recent Monthly Bulletin to cover the most prominent security incidents over the past month and discuss new Digital Forensics and Incident Response measures used by both adversaries and security professionals.

Key Takeaways

- Effective use of digital forensics can strengthen an organization's security posture by revealing attack methods and vulnerabilities.
- Proper evidence collection and preservation ensure the integrity of findings, making them admissible in legal proceedings.
- Building trust with customers and partners is easier when an organization demonstrates strong digital forensics capabilities and a proactive approach to cybersecurity.

Case Study

The Importance of Digital Forensics in Cybersecurity

In today's digital world, digital forensics is crucial for investigating cyberattacks, data breaches, and online crimes. It helps identify threat sources, recover compromised data, and provide critical evidence for legal actions.

Key Threats Addressed by Digital Forensics

- Cybercrime: Forensics helps track cybercriminals, identify attack methods, and analyze systems logs and network data.
- Data Breaches: It determines the scope of a breach, how attackers gained access, and what data was compomised by analyzing logs and network traffic.
- Insider Threats: Forensics monitors user activity to identify unauthorized actions like data theft offering evidence for legal proceedings.
- Ransomware Attacks: Digital forensics can help identify ransomware variants, trace payments, and aid in data recovery.

Why Digital Forensics is Crucial

Digital forensics is crucial for several reasons. Firstly, it plays a key role in effective investigation, as forensic expertise helps identify attack vectors and enhances defenses to protect against future threats. It also supports prosecution and accountability by providing evidence that enables law enforcement to take action against cybercriminals, acting as a deterrent to potential offenders. Additionally, the findings from digital forensics help organizations recommend and implement changes that prevent similar attacks in the future, thereby minimizing the risk of recurrence. Finally, demonstrating strong digital forensics capabilities builds trust with customers and partners, reassuring them that an organization is prepared to respond to and manage security incidents effectively.

• Volatility: An open-source memory forensics framework used to analyze volatile memory (RAM) for

Forensic Tool Examples

- detecting and analyzing artifacts from running processes, malware, and network connections.
- acquire and examine evidence from storage devices.

• FTK Imager: A widely used tool for creating disk images and extracting files, enabling investigators to

- Eric Zimmerman Tools: A suite of forensic utilities that offer functions like file carving, timeline analysis, and Windows registry file analysis.
- ing forensic examiners to quickly gather key data from Windows systems and streamline investigations.

• KAPE (Kroll Artifact Parser and Extractor): A fast, versatile tool for artifact collection and parsing, allow

Digital forensics is essential in modern cybersecurity, providing tools to identify perpetrators, secure

Conclusion

systems, recover data, and ensure compliance. Organizations must invest in these capabilities to respond effectively to cyber threats.

A trend that continues to be observed in the Security Operation Centers (SOC) is the rise of sextortion attacks. This threat is commonly delivered via email and typically follows the pattern of traditional sextor-

External Trend

tion scams. However, there is a unique element in these attacks: the threat actor includes the recipient's address, phone number and photo of the victim's house, which is all publicly available information. This photo, which might be unsettling to the victim, is often used to create a false sense of fear and urgency to get the victim to pay a ransom. The attacker collects publicly available personal information from various sources, such as social media profiles, online directories, and public records. This can include the victim's name, home address, phone

number, and additional personal details. Using this information, the attacker claims to have access to compromising material, such as intimate photos or videos, and threatens to release it to the victim's

family, friends, and colleagues unless a ransom is paid. However, it is important to note that the attacker has not hacked into the victim's devices or accessed private files. Instead, the photo of the victim's house is most likely sourced from Google Street View. The attacker's threat is purely a psychological tactic designed to exploit fear and intimidation. Recommendations

Do not pay the ransom. The attacker is using fear tactics to manipulate the victim into paying. The claims of possessing incriminating content are often false, and the funds will likely only allow the attacker to continue exploiting others.



Do not engage with the email. Responding to the attacker can escalate the situation and may lead to further harassment. Instead, report the email to your organization's security team or IT department, and then delete it.



online. Ensure that social media profiles and other public records do not share sensitive details like your home address or phone number unless necessary. **Use a password manager** to store and generate strong, unique passwords for each of your

accounts. This can help protect your personal information and minimize the risk of unautho-

Review your privacy settings. Take steps to limit the personal information available about you



rized access.

Enable two-factor authentication (2FA) wherever possible. This extra layer of security provides an additional barrier against unauthorized account access, making it harder for attackers to exploit your credentials.

By following these recommendations, individuals can reduce the impact of such attacks and ensure their personal and organizational security remains protected.

How CyberForcelQ Can Help

For 29 years, CyberForce|Q has been a trusted name in advancing cybersecurity programs. Our expertise lies in designing and executing measurable cybersecurity strategies tailored to organizations of all sizes. With a track

cybersecurity capabilities, and providing meaningful measurements of progress. Our participants are innovative leaders who share optimal strategies to implement and advance a proven cybersecurity program. CyberForce|Q together with our participants protecting the cyber realm.

record of proven results, we offer services such as customized security assessments, robust security operations centers, and comprehensive strategic guidance. Let us assist your organization in prioritizing its goals, elevating your



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