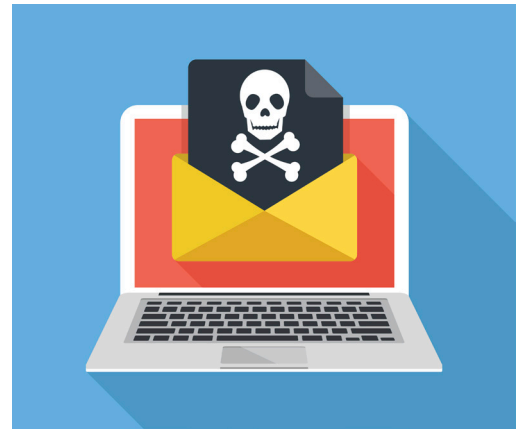


BUSINESS E-MAIL COMPROMISE (BEC) USE CASE



THE PROBLEM

A major public relations and digital marketing agency faced a financially motivated Business Email Compromise (BEC). Redpoint Cybersecurity engineers provided agile response coupled with remediation and a planned penetration test (pentest) to additional vulnerabilities and indicators of compromise on the network.

- In the four-personnel finance department, attackers, in the span of two weeks, successfully compromised and exploited one account and attempted another; the attackers were able to spoof the domain and intercept email, resulting in a redirected ACH payment.
- The client, although using an MSP (Managed Security Provider) did not enforce the whitelisting of domains, SPF (Sender Policy Framework), or DMARC (Domain-based Message Authentication, Reporting and Conformance)/DKIM (DomainKeys Identified Mail), as means to authenticate and increase visibility on senders outside of the client enterprise.
- The client did not enforce a strong, complex password policy, deploy endpoint protection, or deploy Multi-Factor Authentication (MFA).

TOOLS & TECHNIQUES

- **BEC Investigation:** Redpoint engineers gained privileged accesses to the client's Microsoft Office365 instance. With those credentials, engineers deployed the following PowerShell modules to scour through the logs:
 - o Exchange Online PowerShell
 - o Azure AD PowerShell Module
 - o MSOnline Powershell Module
- **JQ, in conjunction with Microsoft Excel,** was used to verify if any mailboxes were illicitly used or if new mailboxes were created for redirection and successfully spoofed the domain to affect the client.

OUTCOMES

- Rapidly identified compromised accounts and source IPs upon commencing investigation, leading to the implementation of domain blocks and improved account hygiene
- An in-depth report highlighting vulnerabilities, proactive measures and next steps to increase situational awareness
- The IT team implemented new policies and procedures regarding increased procedure for client workstations statewide at all locations using the newly established infrastructure
- Leadership across the organization now has a better understanding of cyber security and how to better secure their network from future attacks. Redpoint has now commenced proactive services to hunt for additional vulnerabilities and indicators.

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