What can organizations do immediately to put them in a better position to investigate an APT breach?
Shawn Carpenter

» Currently Principal Forensics Analyst at NetWitness Corporation (~3.5 years)

» ManTech, Cyber Threat Analysis Division (CTAD), Diplomatic Security, US Dept. of State (2 years)

» Sandia National Laboratories, Cyber Monitoring and Analysis / Information Design Assurance Red Team (7 years)

» US Navy
INTELLIGENCE - Establish a dedicated threat intelligence group

» Threat intelligence – it is a full time job collecting, analyzing/correlating, maintaining and successfully leveraging

» Cultivate trusted relationships with other organizations; forums for open sharing of threat intel

» DNS logging, regular analysis of collected data & a system in place to blackhole domains
PREPARATION - Be prepared for the inevitable APT compromise...

» Identify what systems house your organization’s most sensitive/critical data. Your answer shouldn’t be “everything”

» Identify individuals that may be targeted based on their roles in the organization or access to sensitive information

» **Build relationships** with departments/groups that are crucial in rapid incident response

» Honeypot – server(s) maintained on corporate infrastructure with legitimate and convincing looking materials, but not disclosed to user population; increased logging/monitoring to ferret out interesting traffic

» Full packet capture solution at gateway and strategic points in network infrastructure
Quality, not Quantity

» Regularly audit all of your IDS signatures
» Regularly examine emails quarantined by your security infrastructure
» Infrastructure in place to quickly identify affected machines/users & correlate
» Solid incident response procedures in place
» People - Experienced analysts with critical skill sets
Thanks!

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