

Testing Your Incident Response Process

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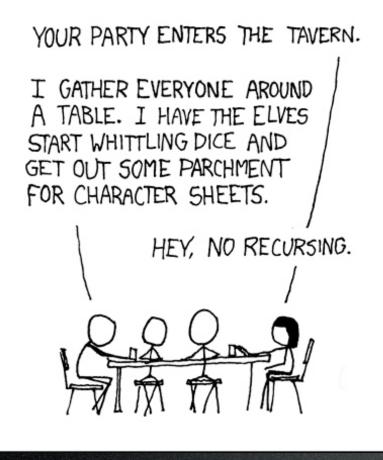


Refresher of Incident Handling Process

- Understand background
- Define communication
- Assess scope
- Decide on evidence handling
- Investigate and Isolate
- Mitigate/repair
- Reporting
- Lessons learned loop



Incident Response Test Process



- Think "D & D"
- Incident director plays "Murphy", entropy, "dungeon master"
- Independent observer
 - silent
 - performs gap analysis

Testing Scenario 1

- Stolen laptop and case
 - VPN token
 - What was lost? How do you know?
 - Was it encrypted? R U Sure?
- Notification mechanisms
- Asset tracking
- Credential management and social engineering
- Blackmail add-on

Testing Scenario 2

- The web site "isn't right"!
 - SQL injection in content manager
 - Serving up malware and has been for 8 hours
 - Now what?
- Manage, mitigate, notify infected users?
- What data is exposed? What is the risk? Where do the devices sit?
- Do you have prevention, detection and response for web attacks?
- Customer support work load issues?

Testing Scenario 3

- Worms, Bots and Rootkits, Oh My!
 - Worm on internal network, O-day Windows, spreading fast and leaving systems infected (possible rootkit) new admin user & outbound connecting command shells
 - No patches or AV signatures available yet...
- Regain control, limit spread, terminate command shells, trace the infection to source, manage exposures
- "Patchless" mitigation strategies
- Malicious crypto/blackmail add-on
- How is rootkit different and how do you handle it?

Lessons Learned Loop

- Most important part
- Gap analysis
- Board-level or steering committee reporting



Continuing Improvement



- Add training/ resources as needed
- Implement changes
- Train
- Table top again!

Key Take Aways

- Understand your process
- Perform worst-cases
- Prepare for failure/ struggle
- Implement improvements
- Practice, practice, practice



Thanks, Q&A

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- Table top testing has high value!!!
- Observers are key!!!
- Use random entropy when possible!
- Practice prevents panic!!!!