

[Proactive Security] Building a Threat Hunting Program

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Adopt a Threat Hunting Mindset

Monitoring & Responding to Alerts





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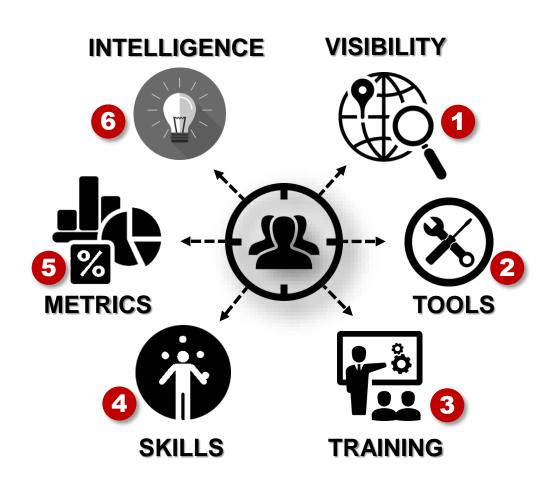
Proactively Searching for threats, vulnerabilities and exploits











- Hunting starts with <u>Visibility</u>.
- 2) Tools and Automation improve efficiency.
- 3) Use both formal and informal training.
- 4) Requires skilled, experienced analysts, engineers, and incident responders.
- 5) Track and measure hunting activities.
- 5) Intelligence is more than a buzzword.

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THREAT HUNTING PROGRAM | Best Practices

- Make threat hunting part of your overall security strategy Integrate threat hunting into existing workflows.
- Begin with a question, theory, or metric and work toward answering that question through research and proactive hunting.
- Invest in threat hunting tools.
 - Use tools and automation to minimize repeatable tasks.
 - Look for innovative, efficient ways to analyze data faster to identify patterns.
 - Leverage intelligence and machine learning to help prioritize hunting activities.
- Set ground rules regarding roles and responsibilities.
- 5) Continuous learning; Revisit investigations and hunting techniques!
- Establish a repeatable and consistent process (use a cyclical/closed loop approach).
- Maximize data collection, but be mindful of the quality of data you collect (use a combination of logs, network and host/endpoint data).
- Build repeatable process workflows and queries back into your tools, through custom content, as you learn.
- Seek to reduce mean-time-to-detection and response; find intrusions and compromises more quickly, and earlier in the cyber attack chain.
- 10) Understand that threat hunting is not a single task. Develop your capabilities progressively.





- 1) Too much reliance on "hunting tools" or any singular data type:
 - ✓ Logs lie
 - ✓ Endpoint security tools miss things
 - ✓ Vendors can't fully automate hunting
- 2) Alert-centric workflows
- 3) Open loop processes
- 4) Bias and fatigue (mix it up to keep the work interesting)
- 5) Failure to keep up with latest news / intelligence





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