Technology Evaluations: Finding the Right Solutions for Your SOC Part 1: How to Build a SOC Montance® LLC CYBRARY

Introductions



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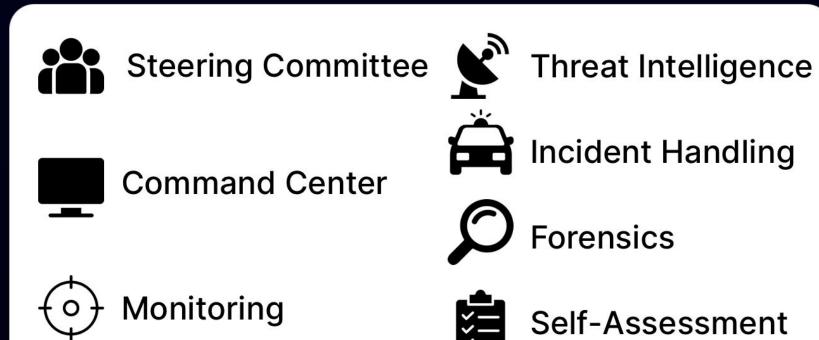
Overview

- Start of the second series
 - Deep dive on technology
 - Depends heavily on the framework discussed in our previous series
 - Hint: Go watch those if you haven't already
- Overall taxonomy
 - High-level taxonomy
 - How the parts go together
 - Start into the details of the technologies

Recap SOC-Class Model

My SOC "Reference Model"

Created for SOC-Class.com



Technology Overview

Technology

- Visibility: weather, IT monitoring, threat intelligence, partner/dependency visibility
- Communication: status portals, email, chat, telephone
- Ops: ticketing, SOAR, dev/qa/stage of SOC operational systems
- Detection & Prevention: endpoint, network, infra-/extra-structure, correlation
- Storage: aggregation, long-term storage, destruction
- Deception: models, decoys, containment nets, honey-*, fake accounts and personas
- Analysis: code, hardware, baselining, mapping, correlation, scanning, forensics
- Do you have a list of all your tech, categorized, with gap analysis for future capability?
- Technology is only one part of maturity

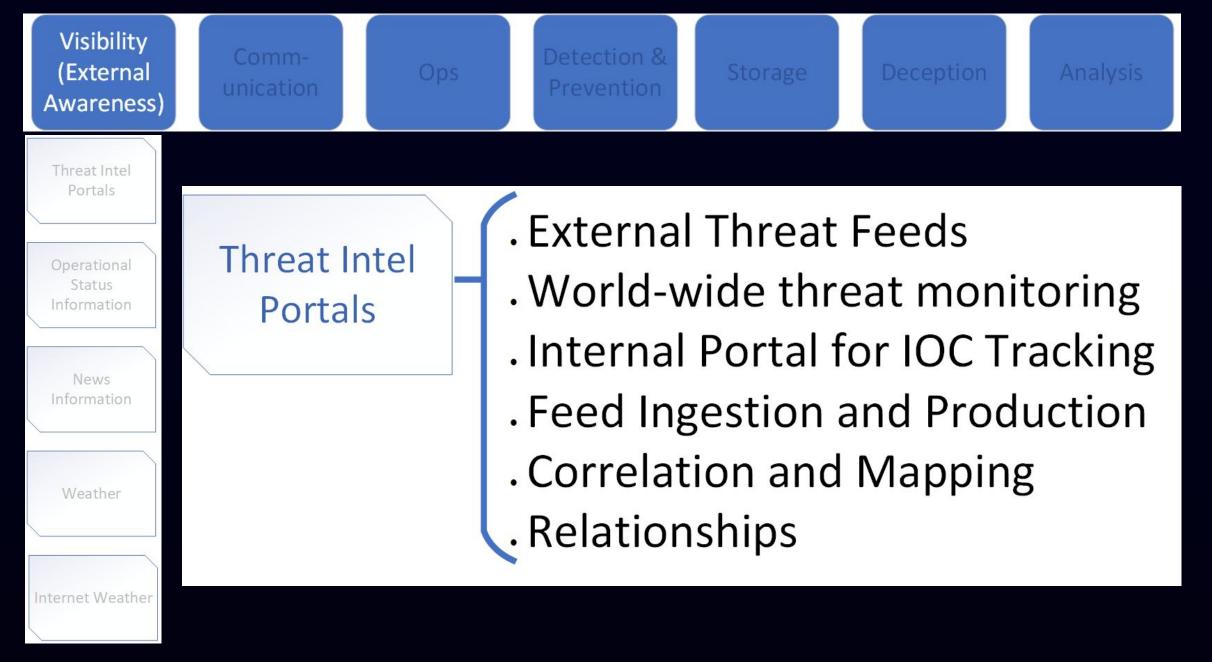


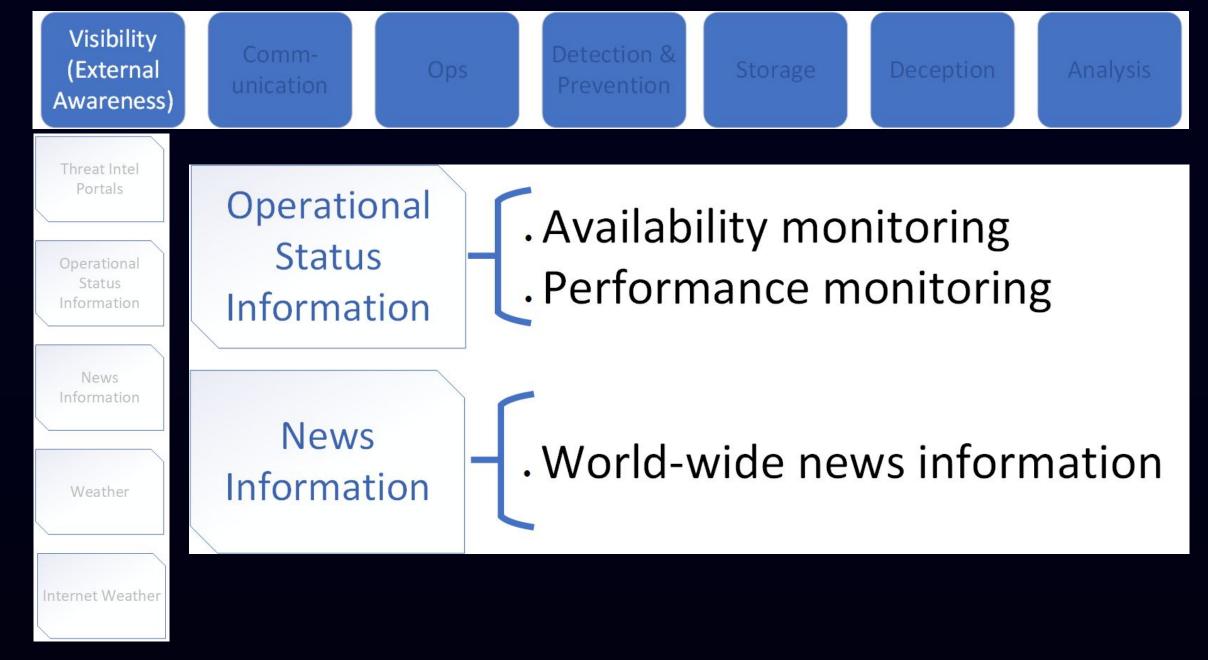
Technology

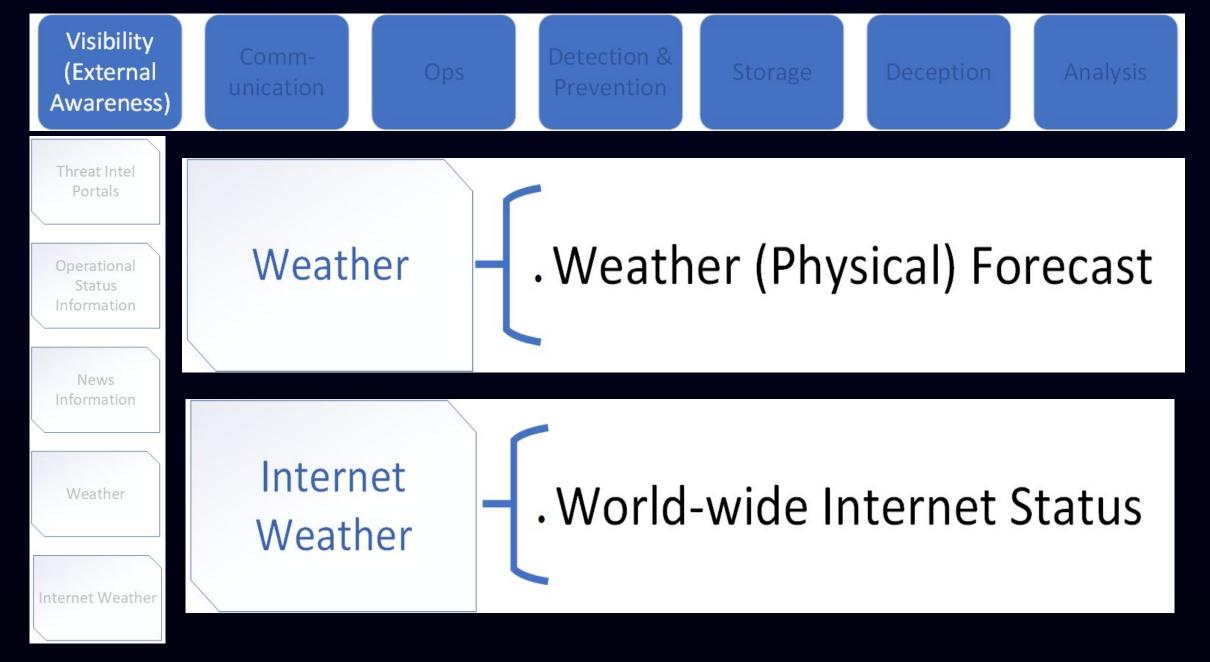
- I advise organizations on security operations and assess maturity of SOCs
- I start with a "complete list" that I narrow based on drivers, needs, systems to defend
- Identify a budget-appropriate technology portfolio for organization and its culture
- Is open-source OK? Can McAfee/Kaspersky... be installed? (Legal/governmental alignment and prohibitions)
- Staff in place who are capable to deploy and maintain the tool
- Technologies should be compatible, effective, supported, secure, and fit into the operational capability of the organization



Visibility







Care & Feeding

Keeping the Lights on Isn't Enough

- Many SOCs do little more than operate systems, never get to in-depth analysis
 - Poor budgeting
 - Misunderstanding of what the SOC is supposed to do by management (lack of management support)
 - Staff shortage, lack of empowerment, lacking clear boundaries of authority (results in overreach, then hesitance)
- Resolutions
 - Outsource the tool management if feasible
 - Consistently convey the SOCs responsibility as analytical and threat-focused, with monitoring and incident handling responsibility
 - Develop great engineered programs for automated detections (develop use cases)
 - Also hunt: ad hoc, sloppy, but structured and progressively more repeatable in structure, enabling progressively more creative and unstructured hunting

Conclusion

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- Today, we started into the Montance® Technology Taxonomy I use to organize technology for security operations.
- In our next two programs we'll cover:
 - The rest of the taxonomy: Communication, Ops, Detection & Prevention,
 Storage, Deception, and Analysis
 - Orchestrating and automating technology to develop effect data use and technology selection criteria

Let's Connect



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Resources

- Cybrary SOC Career Paths
 - o SOC Analyst Level 1
 - o SOC Analyst Level 2
 - o SOC Analyst Level 3
- Montance® SOC-Class: Online in December
 - https://soc-class.com
- <u>SOC Survey</u> Key Findings and Results Video Series: https://soc-survey.com
- Maximizing Security Operations, on-demand 4-part series
 - Part 1: <u>The Role of a SOC</u>
 - Part 2: <u>SOC Architecture and Management</u>
 - Part 3: <u>SOC Staffing and Incident Response</u>
 - Part 4: <u>Enhance SOC Capability and Maturity</u>

Thanks For Joining Us!