
# Introduction to Defending the Enterprise using Automated Security Operations

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# Tomasz Bania

## Cyber Defense Manager, Information Security, Dolby

- Formerly Cyber Defense Center Lead at HP
- 8 Years in IT
- 6 Years in Cyber Security
- Worked in Government, Education, and Enterprise
- Background in Government Network Securities and Management

# Automation: What is it?

# What is Security Automation and Orchestration (SAO)?

- SAO is the integration of disparate security platforms to complete workloads using limited human interaction

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# Why is Automation Important?

- 62% of Organizations report Security Challenges related to the Lack of skilled staff
  - Addressing the skills gap with automation allows organizations to improve their security posture by improving the efficiency of resources already present

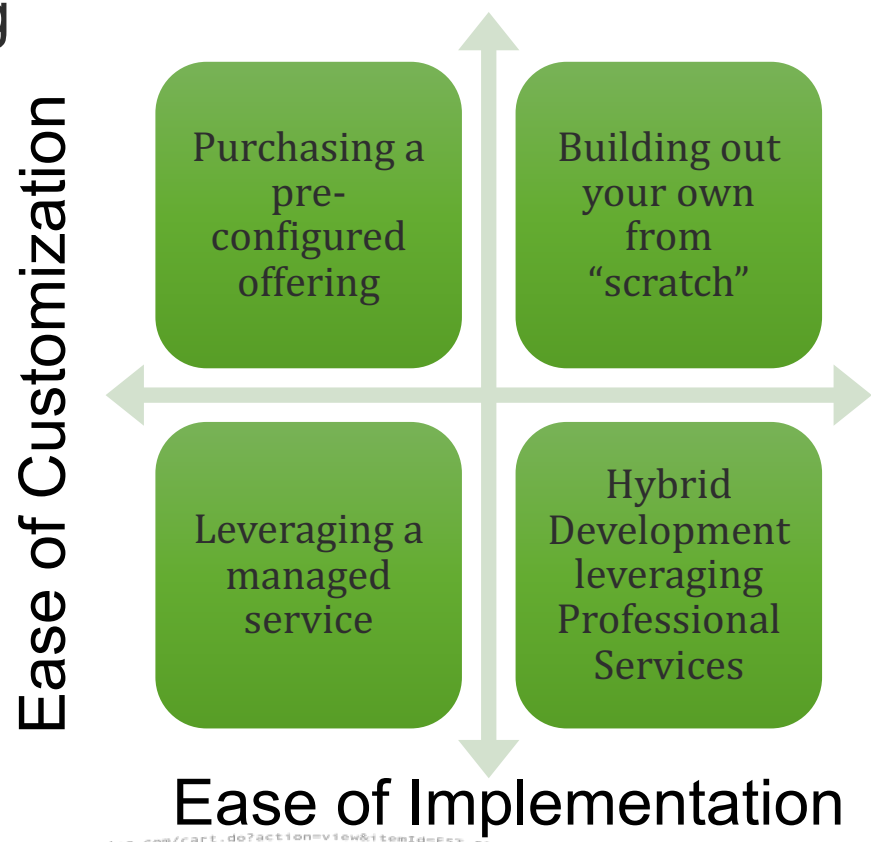
# Is Automation Easy?

- 50% Of Organizations Report Challenges related to Lack of automation and orchestration (Second only to the hiring of skilled staff)
- Only 18% of organizations feel they have implemented an effective Security Automation Strategy

# Automation: Where do I Start?

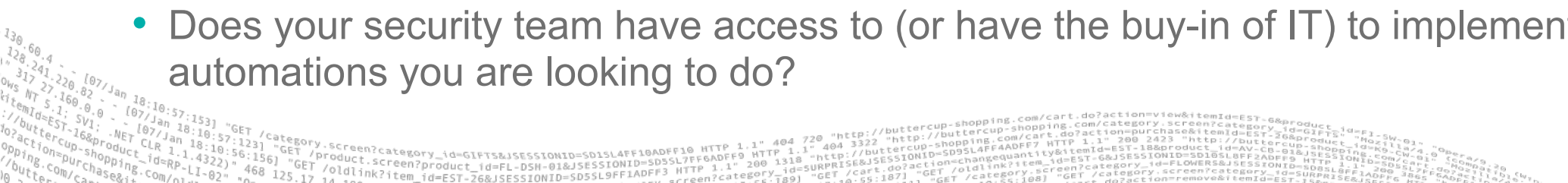
# The Four Paths to Automated Security Operations

- Building out your own from “scratch”
- Hybrid Development leveraging Professional Services
- Purchasing a pre-configured offering
- Leveraging a managed service



# How Do I choose the Right Path?

- Cost Considerations
  - Resources
    - *Financial*
    - *Personnel*
- Organizational Knowledge
  - Does your organization have people that truly “know” what to do?
    - *Extensive operational experience*
    - *Comprehensive Existing Workflows/Playbooks*
- Enterprise Resources
  - Is there any resistance to automating certain actions (such as blocking IP’s or domains automatically)?
  - Does your security team have access to (or have the buy-in of IT) to implement the automations you are looking to do?



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# I've Settled on a Path, Now What?

- With all paths:
  - Ensuring there is an understanding regarding the following:
    - *Expected Deliverables*
    - *SLA's/SLO's*
    - *Continuous Improvement Plan*
- If leveraging a managed service or purchasing a preconfigured offering:
  - Balancing Expectations Vs. Realities
    - *You are not the only client…*
      - *…however, you can leverage the collective knowledge gained by others*
- If Building Your own or Leveraging External Contractors
  - Defining your automation goals and benchmarks
  - Determining what is in-scope and out-of-scope
    - *Do I implement an automated block or do I automate a notification to an engineer for validation?*

# Where Not to Begin your Automation Journey

- Buy a product/solution without an implementation plan
  - Avoid buying “shelfware”
    - Review existing documented processes
    - Validate organizational knowledge of existing platforms
    - Define # of FTE available for automation management
- Trying to automate everything on day one
  - Prioritize your automations using the following criteria:
    - Is the workflow repeatable?
    - Is there an API or script?
    - Is it Time-Consuming?

# Tactical VS Strategic Automation

- Tactical Automation
  - Individual Tasks or Workflows
- Strategic Automation
  - Combination of multiple automated workflows

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# How Can I Measure my Organizations Automation Effectiveness?

- Level One - No Automation
- Level Two - Limited Tactical Automation/No Strategic
- Level Three -  Significant Tactical/Limited Strategic
- Level Four - Full Tactical/Partial Strategic
- Level Five - Full Tactical and Strategic Automation

# Automation: What Can I Do?

# What are Some Things I Can Automate?

- Basic Automated Phishing Analysis
  - Gathering Submissions
  - Conducting Analysis
  - Implementing desired actions based on findings
- Automated Alert Analysis and Remediation
  - Forwarding alerts to automation platforms
  - Conducting an Investigation
  - Establishing a remediation plan
- Temporary Security Exception Orchestration and Management
  - Manual or Automated Input
    - *Examples:*
      - *Temporary Network Access*
      - *Temporary Firewall Opening for Controlled Environments*
  - Orchestrated Implementation
  - Effective Reporting

# Resources

- SANS 2018 SOC Report
- Gartner SOAR Innovation Insight 2017

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# Thank You

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