How to introduce automation to your colleagues in IT Security:

(and what's in for you)

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The State of Cybersecurity

Threats are evolving faster than ever and becoming increasingly sophisticated









Portion of alerts coming in that the average security team examines every day

Said the time to resolve an incident has grown

Reported increased Severity of attacks Have their ideal securityskilled staffing level, making it the #2 barrier to Cyber resilience



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'Lack of automation and orchestration' ranked second and 'Too many tools that are not integrated

'Too many tools that are not integrated' ranked third on the list of SOC challenges.

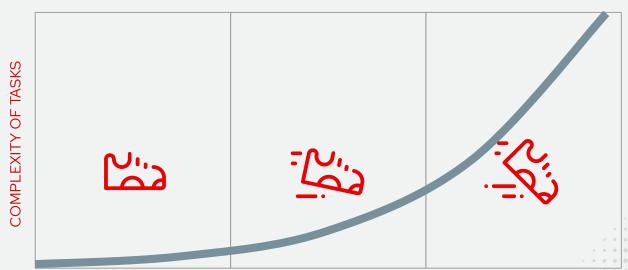
SANS Institute



Automation is a Journey

Start simple and small. Improve iteratively

SCALE OF AUTOMATION





Start simple and small. Improve iteratively

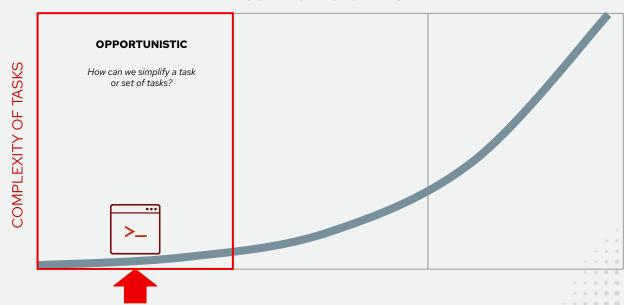
SCALE OF AUTOMATION

OPPORTUNISTIC How can we simplify a task or set of tasks? How do we centralise our processes? How do we centralise our processes? How do we orchestrate our processes?



Start simple and small. Improve iteratively

SCALE OF AUTOMATION





The values automation brings to Security

Security Automation 101



INCREASE SPEED

Reduce the number of manual steps and GUI-clicking, enable the orchestration of security tools and accelerate their interaction with each other



REDUCE HUMAN ERRORS

Minimize risks with automated workflows, avoid human operator errors in time-sensitive, stressful situations



ENFORCE CONSISTENCY

Enable auditable and verifiable security processes by using a single tool and common language covering multiple security tools



The values automation brings to Security



Predictable and repeatable process, mitigating risks of service downtime.

MANAGEMENT





FIREWALL POLICIES MANAGEMENT

Automate rule modification and decommissioning to improve performance and ultimately strengthen security reducing the potential attack surface.



IT Operations

The values automation brings to Security



Creating new security policies to grant access, block or quarantine a machine.

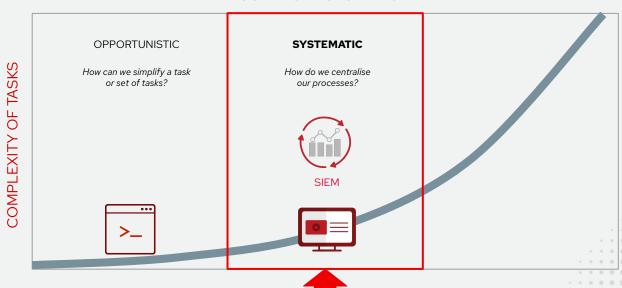
```
- hosts: checkpoint
  connection: httpapi
  tasks:
  - name: Create blacklist IP
    include role:
      name: acl_manager
      tasks_from: blacklist_ip
    vars:
        source_ip: "{{ attacker_ip }}"
        destination_ip: "{{ target_ip }}"
        ansible_network_os: checkpoint
```





Start simple and small. Improve iteratively

SCALE OF AUTOMATION



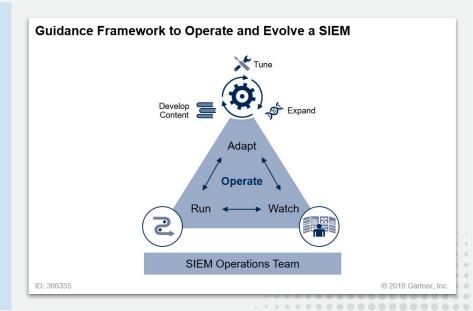


What is a SIEM?

Security Automation 201

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Gartner defines the security and information event management (SIEM) market by the customer's need to analyze event data in real time for early detection of targeted attacks and data breaches, and to collect, store, investigate and report on log data for incident response, forensics and regulatory compliance. SIEM technology aggregates event data produced by security devices, network infrastructure, systems and applications.





The values automation brings to SIEM







CONSISTENCY



MODERNIZATION



EXTENSIBILITY

Automate deployment, configuration and mundane tasks

Interoperate multiple platforms from multiple vendors

Integrate SIEM in DevSecOps workflows

Automate investigation & remediation tasks from the SIEM



The values automation brings to SIEM



Enabling self-service access to IT Operations assets.





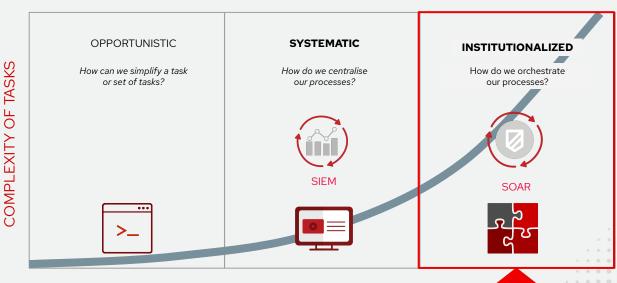
Reusing the assets created by security operations to automate investigation & remediation tasks directly from the SIEM UI



Lines of Business

Start simple and small. Improve iteratively

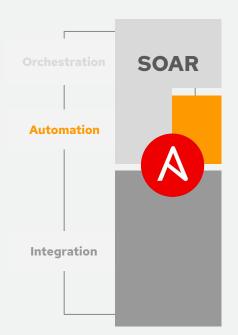
SCALE OF AUTOMATION





How Ansible security automation relates to SOAR?

Security Automation 301



SOAR orchestrates the high-level threat response process. Their Security 'Playbooks' focus on Who is doing What, Why and When.

The Ansible Automation Platform automates tasks: the How.

The Ansible Automation Platform content initiatives, like Ansible security automation, provide technology integration:
the Where.



The values automation brings to SOAR









Makes security a team play

Removes integration challenges

Makes security experts productive faster

Enables quick wins from the beginning



The values automation brings to SIEM





ITSM INTEGRATION

Connecting automation jobs to business processes.



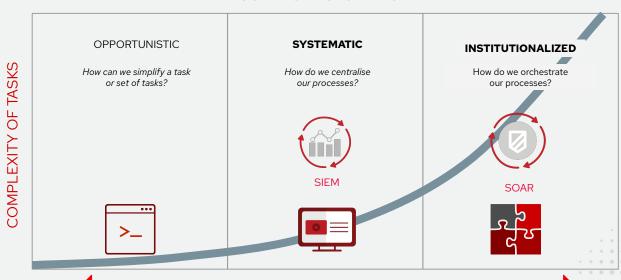


Integrating cross-functional automation assets into investigation & response processes.



Start simple and small. Improve iteratively

SCALE OF AUTOMATION





Ansible security automation

So what's in for you?



Become the automation rockstar!

Contribute to the growth of automation in your organization





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Automation expertise is among the most desirable and lucrative skills for I&O technical professionals. Gartner predicts that, through 2023, I&O staff with automation skills will command up to a 40% salary premium versus those without.

Gartner



Accelerate your career!



Find the pockets of ad hoc automation in your company, and grow them into a formal automation program. Bottom-up automation initiatives that grow organically are more likely to succeed than top-down, mandate-driven projects.

Gartner



Become an Automation Architect

Find the pockets of ad hoc automation in your company, and grow them into a formal automation program. Bottom-up automation initiatives that grow organically are more likely to succeed than top-down, mandate-driven projects.

Gartner





Where do I start?



Get Started

Security automation on ansible.com

Simplify your security operations center - **eBook**



Check out the Code

Ansible security on Ansible Galaxy

Check Point collections

Cisco ASA collection

Cyberark collections

F5 Networks collections

Fortinet collections

IBM Qradar collection

Splunk Enterprise Security collection

Tirasa Syncope collection



Join the Community

Security automation community wiki

Blog posts

#ansible-security on irc.freenode.net



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