



Red Hat

Ansible
Automation

WHY SHOULD YOU USE ANSIBLE FOR SECURITY AUTOMATION?

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WHAT WE'RE TALKING ABOUT TODAY

1. What is Ansible?
2. How can automation help security?
3. What's Ansible Security Automation?
4. Use Cases & Examples

WHAT IS Red Hat Ansible Automation?



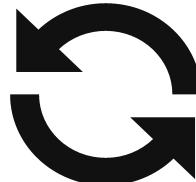
SIMPLE

Human readable automation

No special coding skills
needed

Tasks executed in order

Get productive quickly



POWERFUL

Gather Information and Audit

Configuration and System State
management

Workflow orchestration

Manage ALL IT infrastructure



AGENTLESS

Agentless architecture

Uses native connection
protocols (SSH, HTTPS, etc)

No agents to exploit or update

More efficient & more secure

ANSIBLE OVERVIEW

ANSIBLE IS A SIMPLE AGENTLESS IDEMPOTENT TASK AUTOMATION TOOL

- **Task** functionality provided by **modules**
- **Tasks** are grouped together via **plays**
 - A **play** operates on a set of **hosts**
 - **Hosts** are indexed via an **inventory**
- **Playbooks** can contain one or many **plays**
- **Roles** are self-contained, re-usable, distributable sets of content, variables, and tasks
 - Allows sophisticated purpose-built business logic (without writing code)

AD HOC TASK EXECUTION

EXAMPLE OF AN AD-HOC ANSIBLE ORCHESTRATION TASK

-**Module:** yum

-**Arguments:** pkg=bash state=installed

```
$ ansible localhost -m yum -a "pkg=bash state=installed"
```

```
localhost | SUCCESS => {
```

```
    "changed": false,
```

```
    "msg": "Nothing to do"
```

```
}
```

AUTOMATING WITH PLAYBOOKS

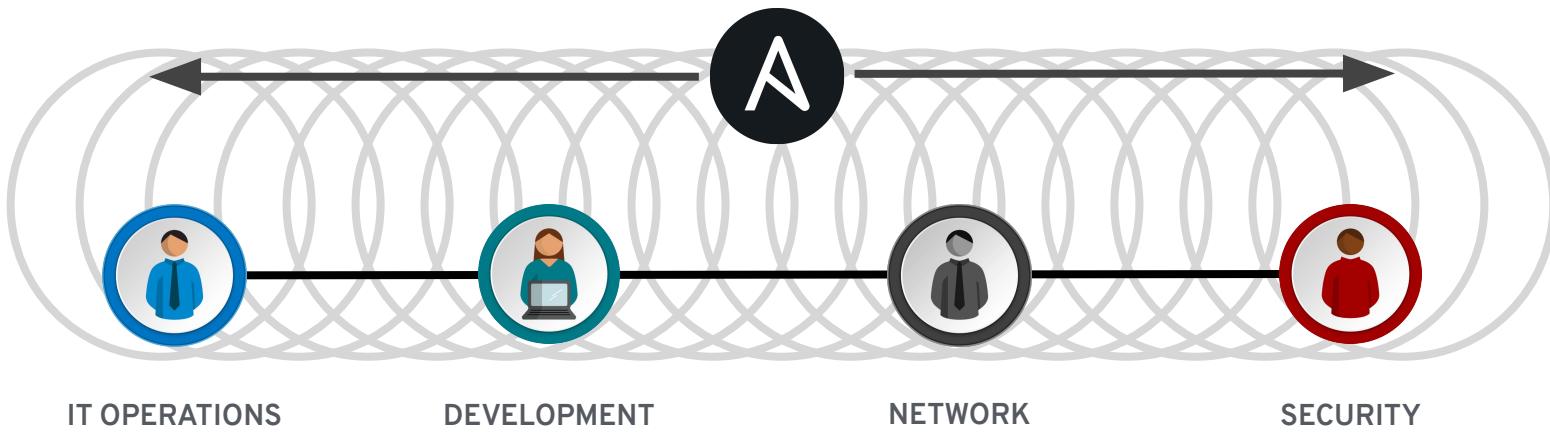
EXAMPLE OF A SIMPLE ANSIBLE PLAYBOOK AUTOMATING TASK(S)

-**Module:** yum

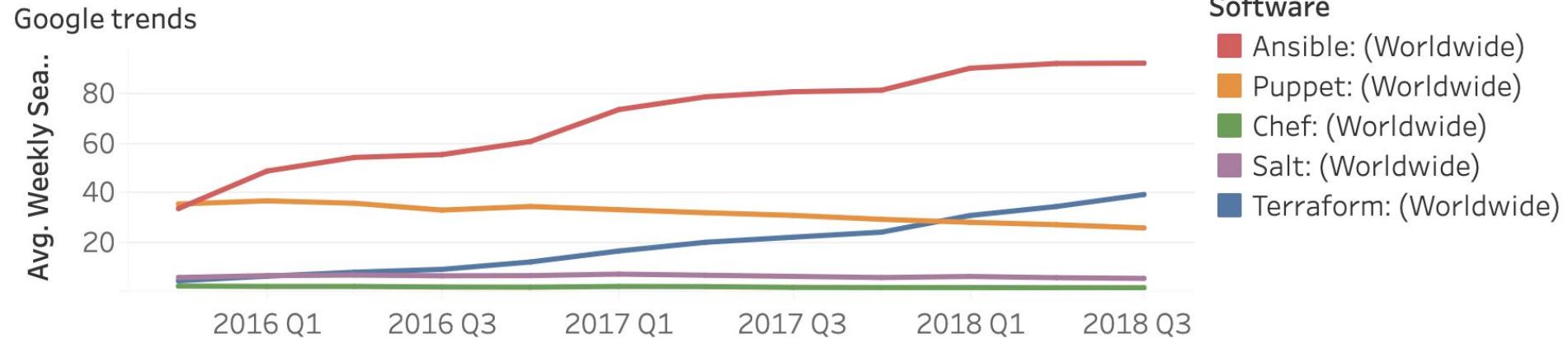
-**Arguments:** pkg=bash state=installed

```
playbook.yml
---
- hosts: localhost
  tasks:
    - yum:
        name: bash
        state: installed
```

ANSIBLE IS THE UNIVERSAL LANGUAGE



Ansible Project Momentum - Adoption

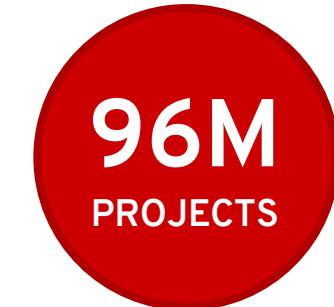


Ansible is downloaded **+2,000,000** times per month

ANSIBLE IS PERVASIVE

Top open source projects

VS Code, React, and Tensorflow once again top our list of open source projects by contributor count. New to the list are projects that manage containerized applications, share Azure documentation, and consolidate TypeScript type definitions: Kubernetes, Azure Docs, and DefinitelyTyped.*

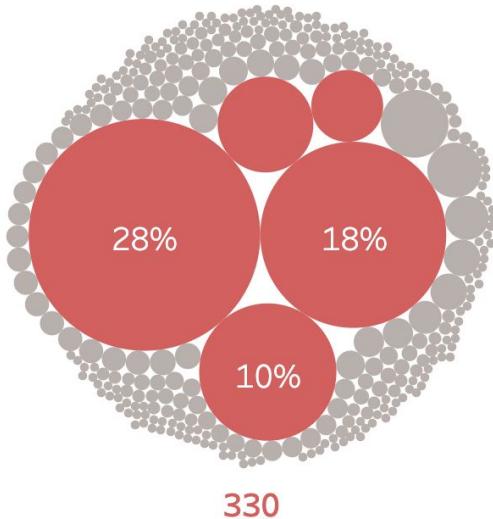


Contributors

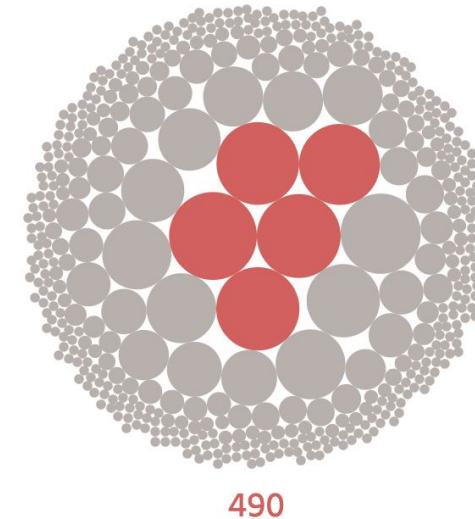
1	Microsoft/vscode	19k
2	facebook/react-native	10k
3	tensorflow/tensorflow	9.3k
4	angular/angular-cli	8.8k
5	MicrosoftDocs/azure-docs	7.8k
6	angular/angular	7.6k
7	ansible/ansible	7.5k
8	kubernetes/kubernetes	6.5k
9	npm/npm	6.1k
10	DefinitelyTyped/DefinitelyTyped	6.0k

Ansible Project Momentum - Contribution

Ansible 2015 (Q3)

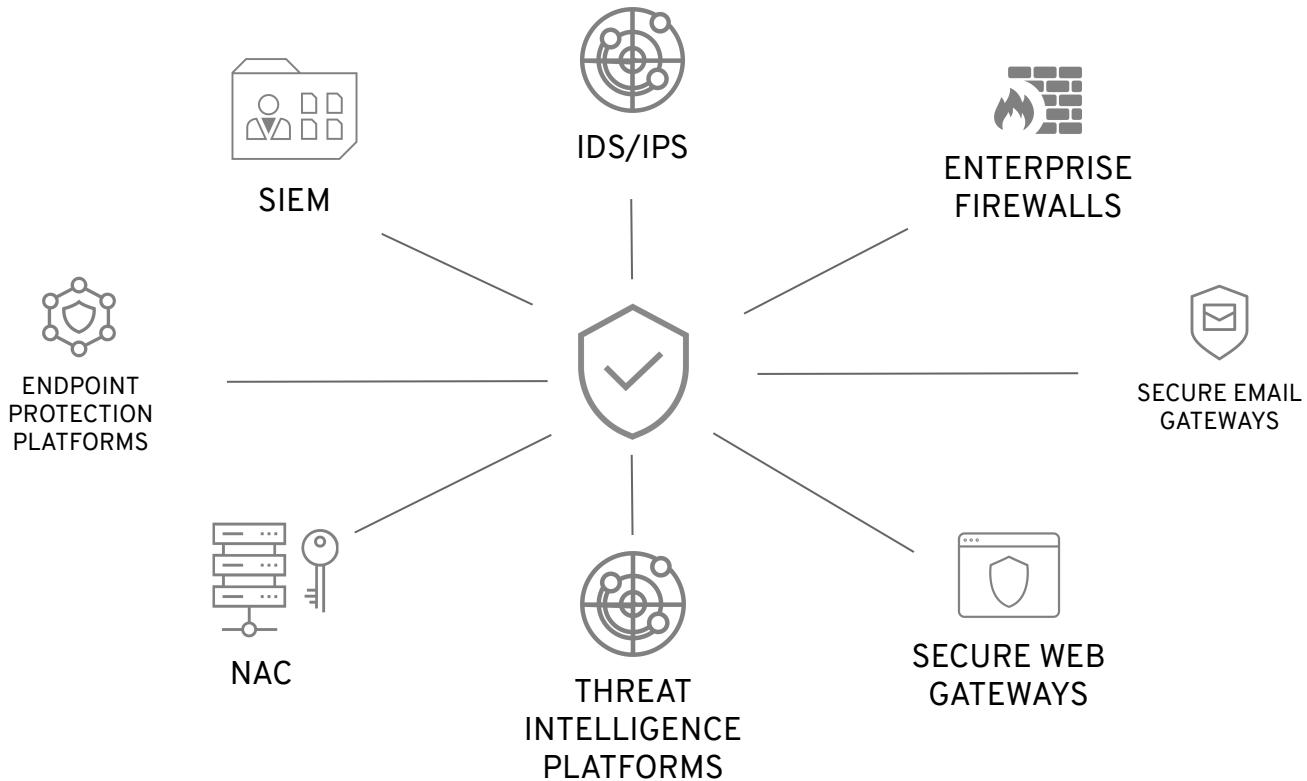


Ansible 2018 (Q3)



- Total active contribs grows
- Top 5's share moves from 64% to 20% of contribs

HOW CAN AUTOMATION HELP SECURITY?





**“For one, security teams are overwhelmed.
The average security team typically
examines less than 5% of the alerts flowing
into them every day
(and in many cases, much less than that). ”**

<https://venturebeat.com/2017/12/16/the-lesson-behind-2017s-biggest-enterprise-security-story/>

“57% of respondents said the time to resolve an incident has increased

65% reported the severity of attacks has increased”

“Having insufficient skilled personnel dedicated to cybersecurity was the second biggest barrier to cyber resilience, with only 29% having the ideal staffing level.”

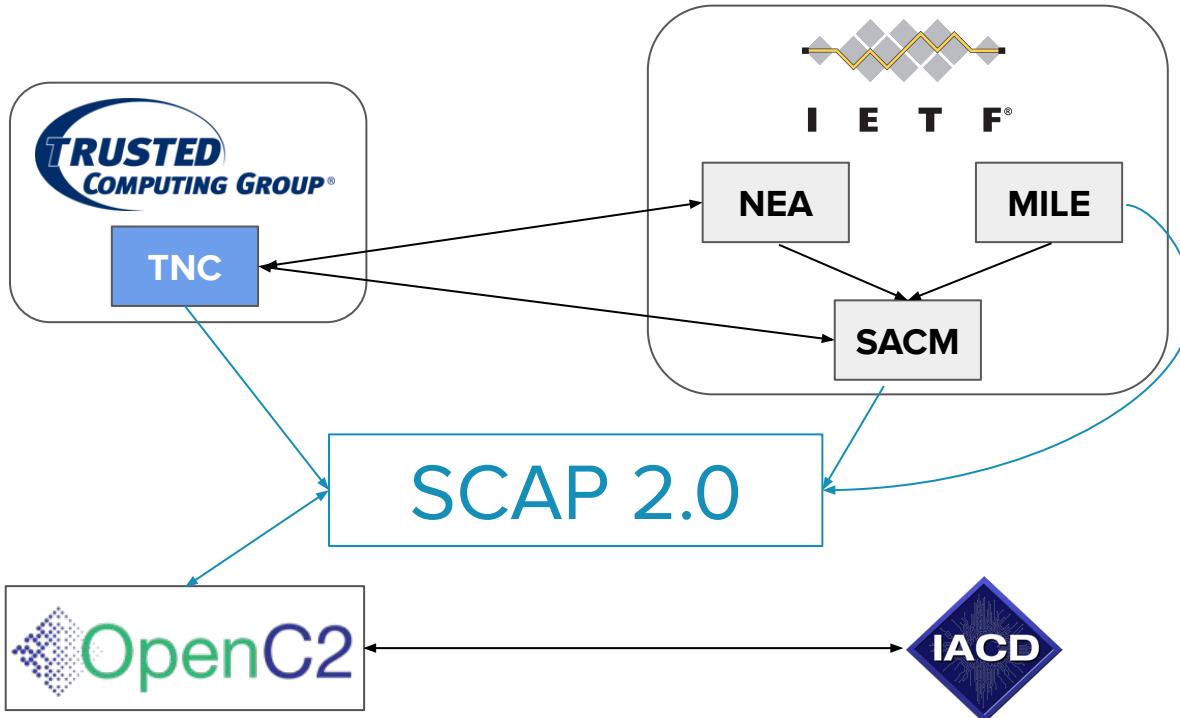
“63% of respondents say their leaders understand that automation, machine learning, artificial intelligence and orchestration strengthens cyber resilience.”

WHY?

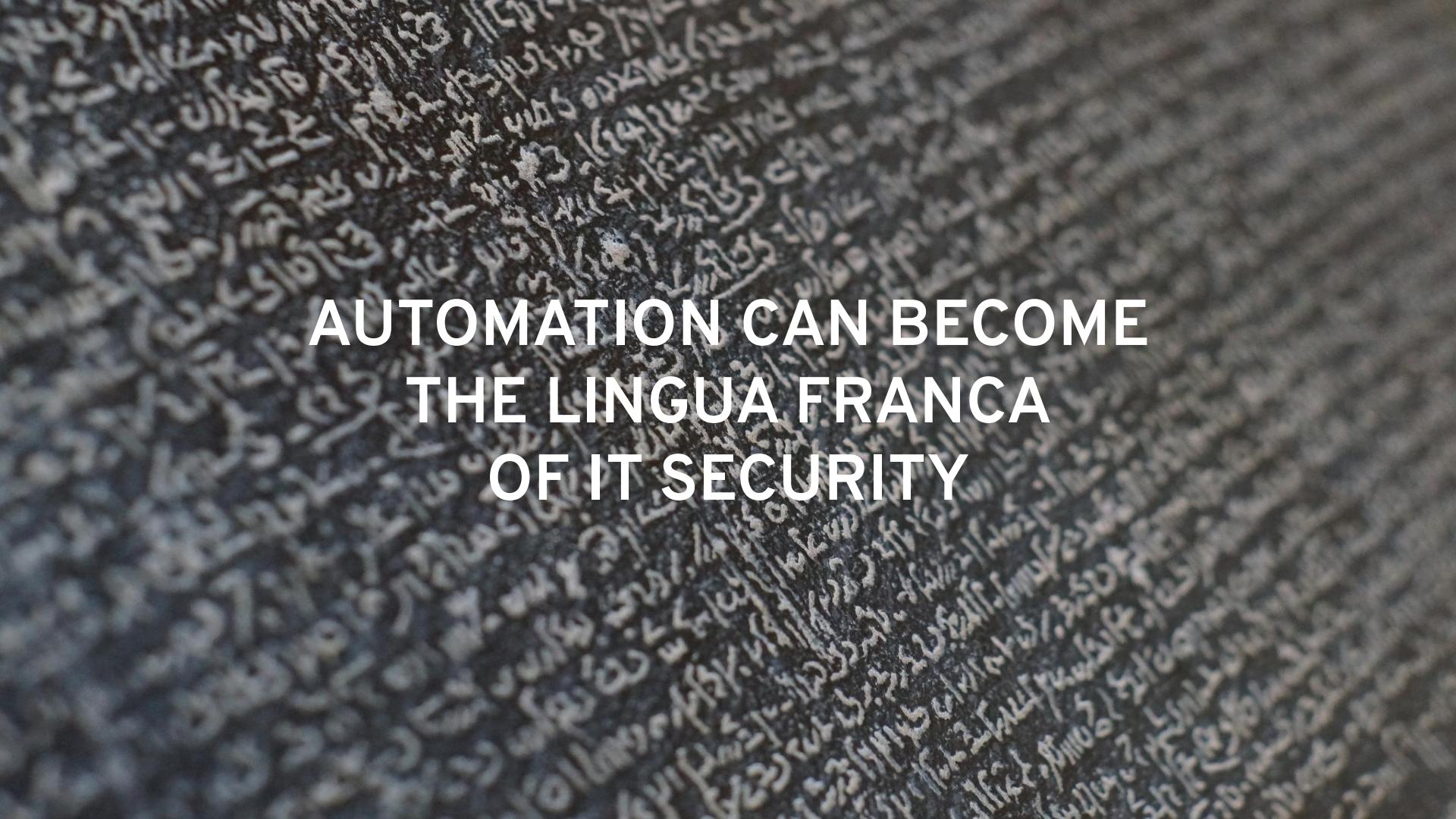
THERE IS NO INTEGRATION

- Proposed standards for integrations (CYBOX, OPENIOC, YARA, STIX/TAXII) are not widely adopted
- Main proponent for integrations are security content providers
- Automated tasks rarely involve more than a few systems
- Automated remediation is not trusted

CURRENT RESEARCH AND STANDARDS FOR SECURITY AUTOMATION





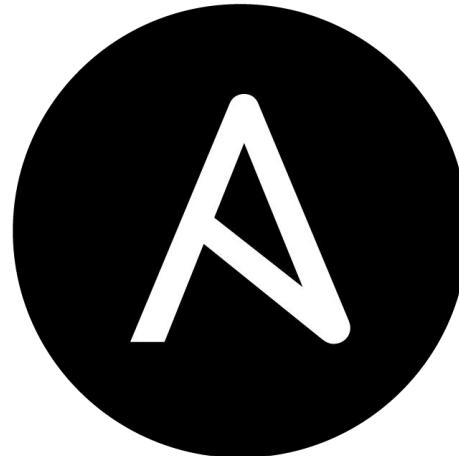


AUTOMATION CAN BECOME
THE LINGUA FRANCA
OF IT SECURITY

ANSIBLE IS NOT ZERO SUM



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(the list goes on and on)

INTRODUCING ANSIBLE SECURITY AUTOMATION

WHAT IS IT?

Ansible is Red Hat's enterprise automation platform to automate the provisioning and configuration of modern enterprise IT environments, from compute resources, like VMs and containers, to networks, all the way to the application layer.

Ansible Security Automation is a supported set of Ansible modules, roles and playbooks designed to unify the security response to cyberattacks in a new way - by orchestrating the activity of multiple classes of security solutions that wouldn't normally integrate with each other.

WHO IS IT FOR?



SECURITY TEAMS IN LARGE ORGANIZATIONS

Security Operations Centres (SOCs) dealing with increasingly fast and complex attacks



MANAGED SECURITY SERVICE PROVIDERS

Dealing with thousands of security solutions across their whole customer base

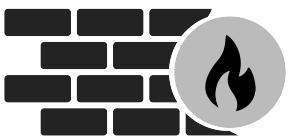


SECURITY ISVS

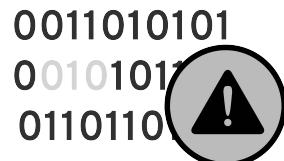
Offering security orchestration and automation solutions currently using custom-made automation frameworks

WHAT ARE WE FOCUSING ON?

For now ...



ENTERPRISE
FIREWALLS



INTRUSION DETECTION &
PREVENTION SYSTEMS



SECURITY INFORMATION
& EVENTS MANAGEMENT

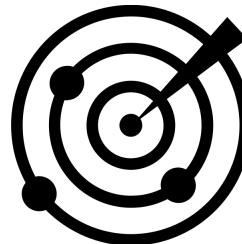
WHAT DOES IT DO?

Through Ansible Security Automation, IT organizations can address multiple popular use cases:



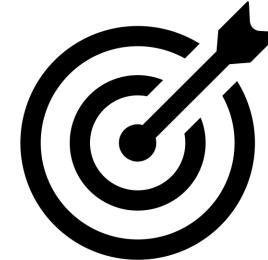
TRIAGE OF SUSPICIOUS ACTIVITIES

Enabling programmatic access to log configurations such as destination, verbosity, etc.



THREAT HUNTING

Automating alerts, correlation searches and signature manipulation



INCIDENT RESPONSE

Creating new security policies to whitelist, blacklist or quarantine a machine

HOW DOES IT WORK?

USE CASE 1

ENABLING LOG FORWARDING ON CHECK POINT NGFW



TRIAGE OF SUSPICIOUS ACTIVITIES

Enabling programmatic access to log configurations such as destination, verbosity, etc.

```
- name: Forward CheckPoint NGFW Logs
  hosts: checkpoint
  tasks:
    include_role:
      name: log_manager
      tasks_from: forward_logs_to_syslog
  vars:
    syslog_server: 192.168.0.1
    checkpoint_server_name: test
    firewall_provider: checkpoint
```



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USE CASE 1

CREATING CORRELATION SEARCH TO PROCESS FIREWALL LOGS



TRIAGE OF SUSPICIOUS ACTIVITIES

Enabling programmatic access to log configurations such as destination, verbosity, etc.

```
- name: create splunk notable event
hosts: splunk
tasks:
  - name: import SplunkEnterpriseSecurity
    import_role:
      name: SplunkEnterpriseSecurity
  - name: Create Splunk Data Input Monitor
    splunk_data_input_monitor:
      name: "/var/log/checkpoint.log"
      state: "present"
      recursive: True
  - name: Create Splunk Correlation Search
    splunk_correlation_search:
      name: "Triage Firewall Logs"
      description: "Triage Firewall Logs, description."
      search: 'source="/var/log/checkpoint.log"'
      state: "present"
```

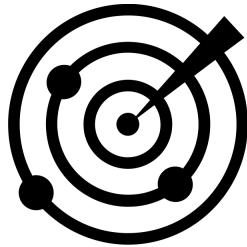


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USE CASE 2

IMPLEMENTING A NEW SIGNATURE ON SNORT IDS



THREAT HUNTING

Automating alerts,
correlation searches
and signature
manipulation

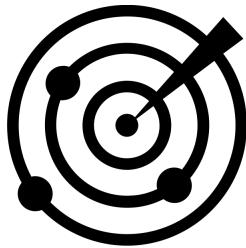
```
vars:  
  ids_provider: snort  
  protocol: tcp  
  source_port: any  
  source_ip: any  
  dest_port: any  
  dest_ip: any  
  
tasks:  
  - name: Add snort password attack rule  
    include_role:  
      name: "ids_rule"  
    vars:  
      ids_rule: 'alert {{protocol}} {{source_ip}}  
{{source_port}} -> {{dest_ip}} {{dest_port}}  
(msg:"Attempted DDoS Attack"; uricontent:"/ddos_simulation";  
classtype:successful-dos; sid:99000010; priority:1; rev:1;)'  
      ids_rules_file: '/etc/snort/rules/local.rules'  
      ids_rule_state: present
```



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USE CASE 2

CREATING CORRELATION SEARCH TO CAPTURE NEW SIGNATURE



THREAT HUNTING

Automating alerts,
correlation searches
and signature
manipulation

```
- name: create splunk notable event
hosts: splunk
tasks:
  - name: import SplunkEnterpriseSecurity
    import_role:
      name: SplunkEnterpriseSecurity
  - name: Create Splunk Data Input Monitor
    splunk_data_input_monitor:
      name: "/var/log/snort.log"
      state: "present"
      recursive: True
  - name: Create Splunk Correlation Search
    splunk_correlation_search:
      name: "Triage IDS Logs"
      description: "Triage IDS Logs, description."
      search: 'source="/var/log/snort.log"'
      state: "present"
```



USE CASE 3

ENABLING LOG FORWARDING ON SNORT IDS



INCIDENT RESPONSE

Creating new security policies to whitelist, blacklist or quarantine a machine

```
- name: enable snort logs
hosts: ids
handlers:
  - name: restart rsyslog
    service:
      state: reloaded
      name: rsyslog
tasks:
  - name: enable snort to sent logs
    lineinfile:
      path: /etc/rsyslog.conf
      line: "if $programname == 'snort' then
/var/log/snort.log"
      state: present
    notify:
      - reload rsyslog
```



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USE CASE 3

CREATING CORRELATION SEARCH TO PROCESS IDS LOGS



INCIDENT RESPONSE

Creating new security policies to whitelist, blacklist or quarantine a machine

```
- name: create splunk notable event
hosts: splunk
tasks:
  - name: import SplunkEnterpriseSecurity
    import_role:
      name: SplunkEnterpriseSecurity
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    splunk_data_input_monitor:
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      recursive: True
  - name: Create Splunk Correlation Search
    splunk_correlation_search:
      name: "Triage IDS Logs"
      description: "Triage IDS Logs, description."
      search: 'source="/var/log/snort.log"'
      state: "present"
```



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USE CASE 3

PROVIDING RECOMMENDED ACTIONS



INCIDENT RESPONSE

Creating new security policies to whitelist, blacklist or quarantine a machine

```
- name: Create Splunk Adaptive Response - Notable Event
splunk_adaptive_response_notable_event:
  name: "Create Splunk AR-NE"
  correlation_search_name: "Triage IDS Logs"
  description: "Firewall IDS Triage"
  state: "present"
  next_steps:
    - ping
    - nslookup
  recommended_actions:
    - script
```



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USE CASE 3

BLACKLIST THE ATTACKER ON CHECK POINT NGFW



INCIDENT RESPONSE

Creating new security policies to whitelist, blacklist or quarantine a machine

```
- hosts: checkpoint
  tasks:
    - name: Create host object
      checkpoint_host:
        name: "attacker_{{attacker_ip_address}}"
        ip_address: "{{ attacker_ip_address }}"
        state: present
    - name: Create access rule
      checkpoint_access_rule:
        layer: Network
        name: "Drop attacker: {{attacker_ip_address}}"
        position: top
        source: "attacker_{{attacker_ip_address}}"
        destination: Any
        action: Drop
```



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WHY ANSIBLE FOR SECURITY?

ANSIBLE IS AN AUTOMATION TOOL

Security is something that *should* be pervasive to all systems and technologies.

This leads to repetitive tasks as:

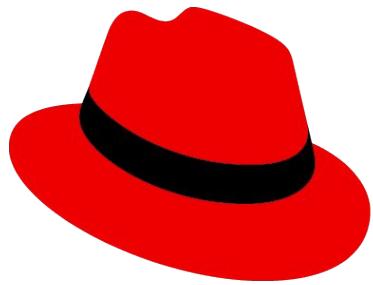
SECURITY ANALYSTS

- Investigate malicious events
- Threat hunt
- Remediate

SECURITY OPERATIONS

- Bring systems online
- Take systems offline
- Deploy new apps
- Modify rules and policies

AUTOMATION CAN MAKE SECURITY PRACTITIONERS LIFE EASIER LIKE IT DID FOR INFRASTRUCTURE AND NETWORKING PROFESSIONALS



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New template

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seeing one of the thousands of
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From Summit keynotes to conference-room sales meetings, we want our public face
to be coherent and recognizable. Our content must be meaningful and relevant to

~~HOW TO DESIGN AN EFFECTIVE PRESENTATION~~ told in a clear ~~GETTING STARTED WITH GOOGLE SLIDES~~

<https://gsuite.google.com/learning-center/products/slides/get-started/#/>

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Presentation title should not exceed three lines

Optional subheading Lorem ipsum dolor
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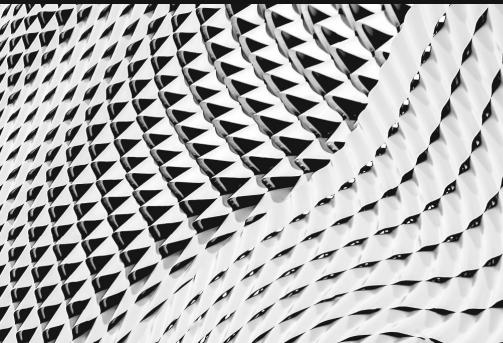


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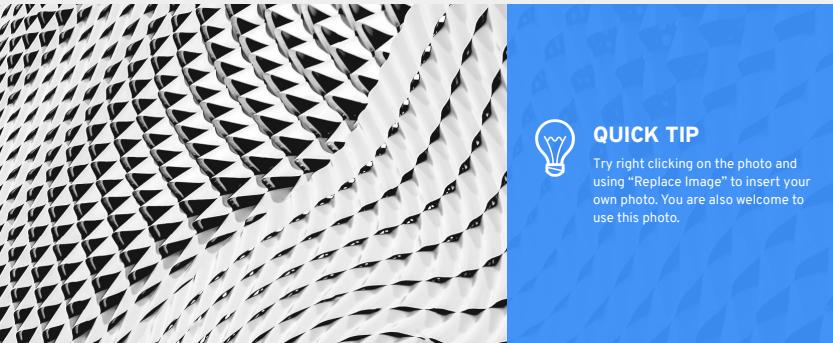


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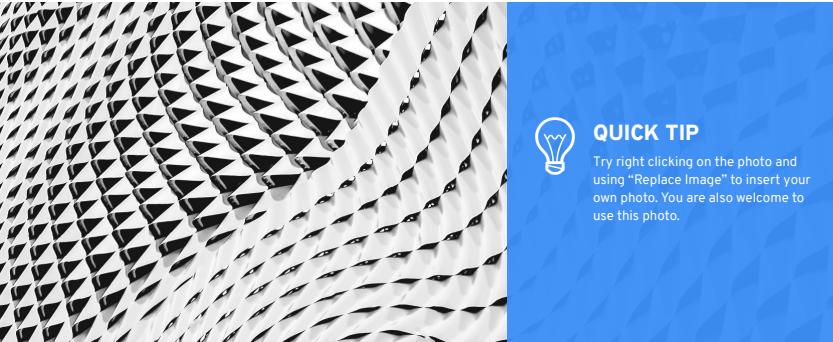


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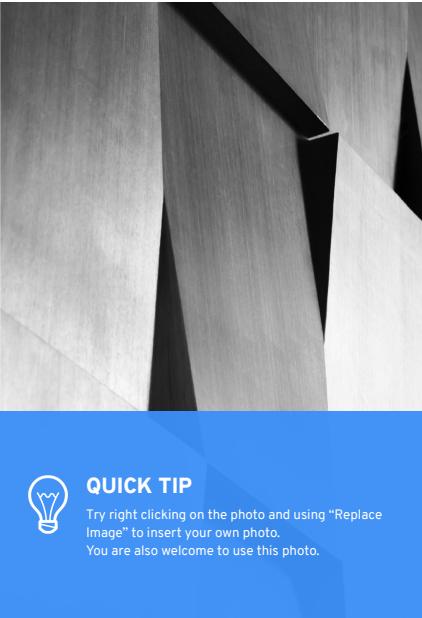
Quote slide templates

What we'll be discussing today

Topic

What we'll be discussing today

Topic



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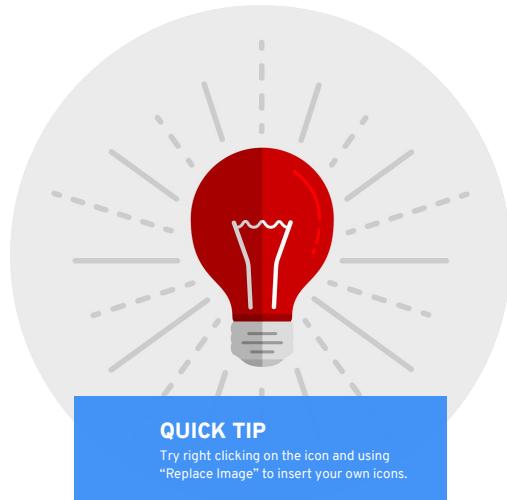
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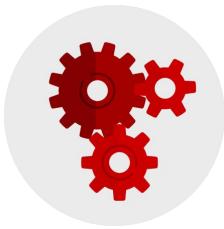
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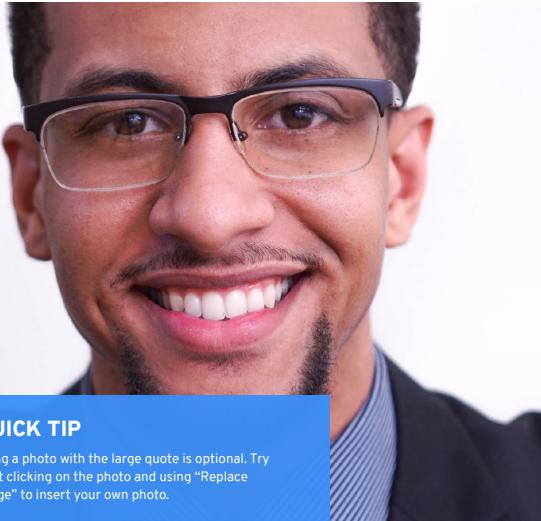
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QUICK TIP

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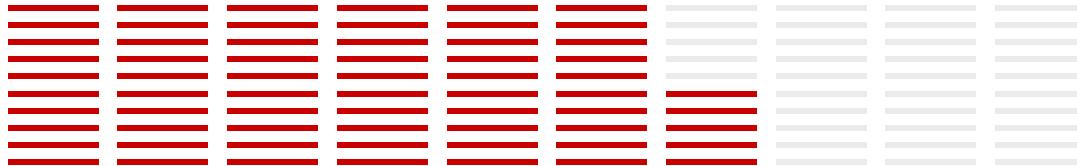
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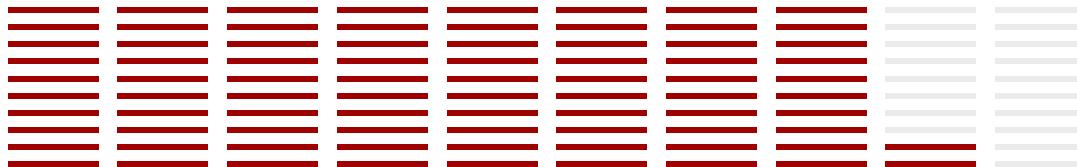
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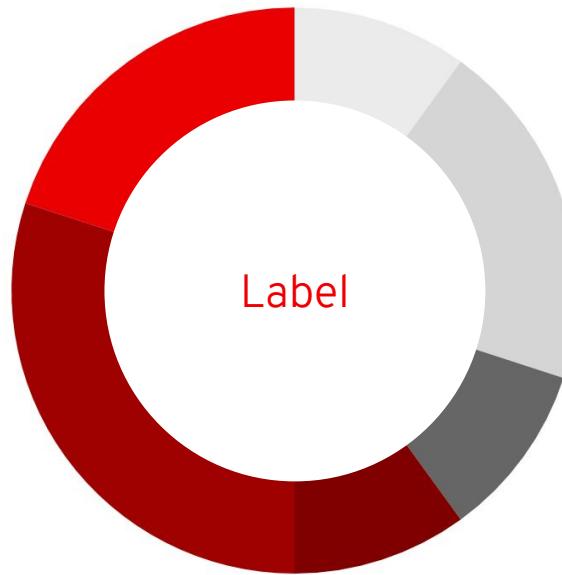


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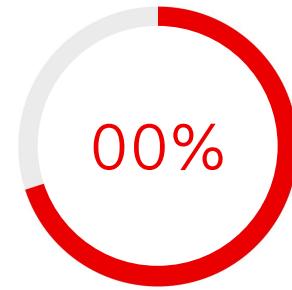
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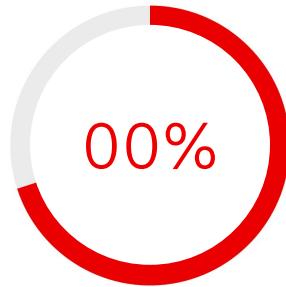
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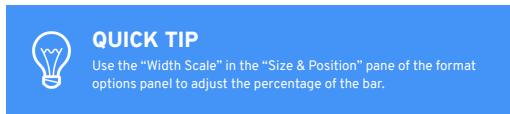
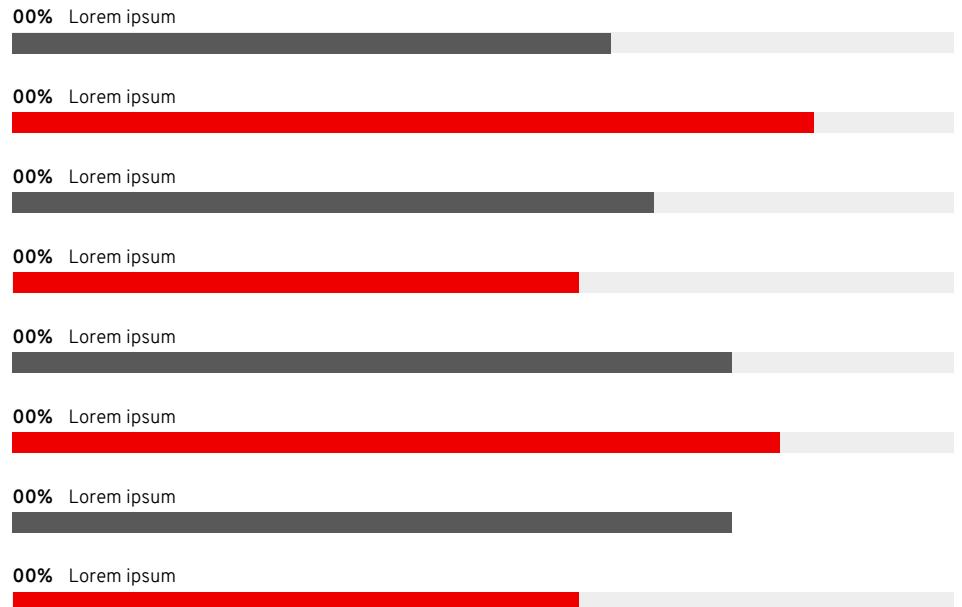
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QUICK TIP

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You are also welcome to use this photo.



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