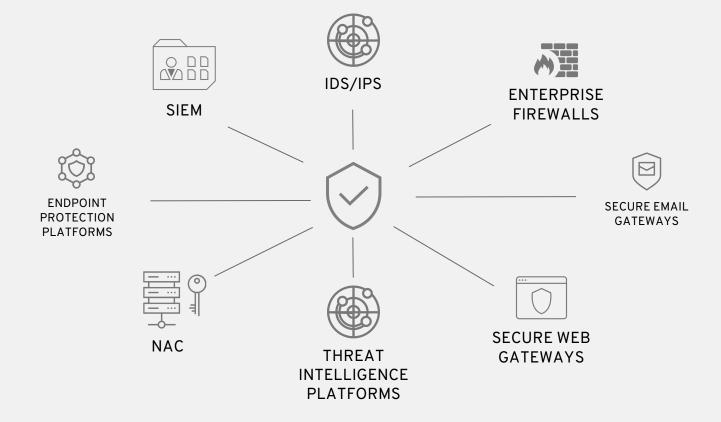
#ANSIBLEAUTOMATES

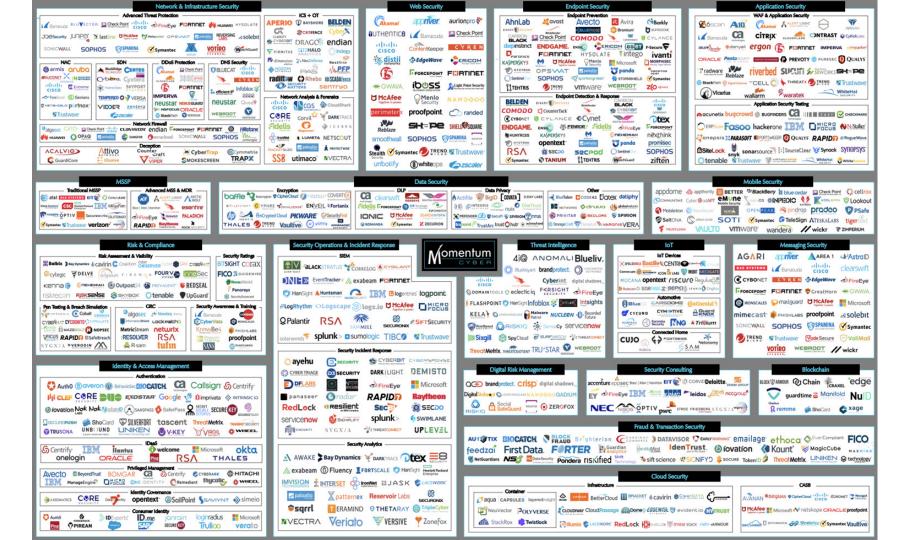
INTRODUCING ANSIBLE SECURITY AUTOMATION

Massimo Ferrari, Management Strategy Director mferrari@redhat.com @crosslogic



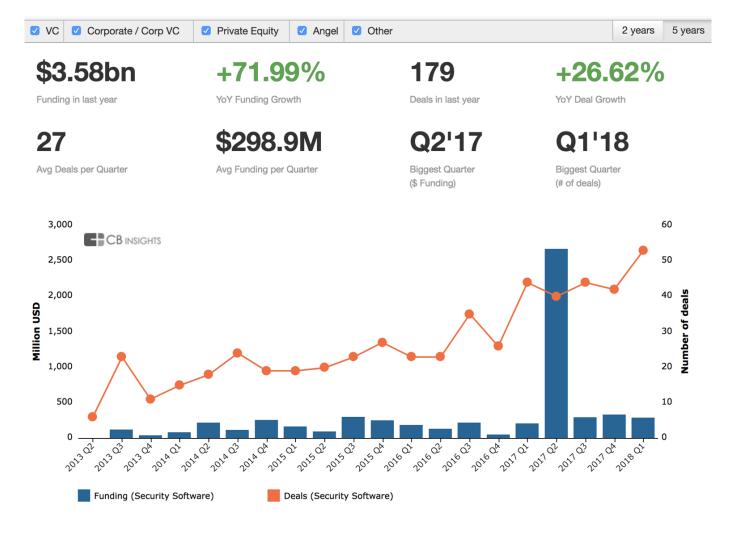
ANSIBLE





2018 CYBER DEFENDERS





"According to Gartner,
worldwide spending on enterprise security
will reach \$96.3 billion in 2018,
an increase of 8% from 2017."

"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)."

"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."

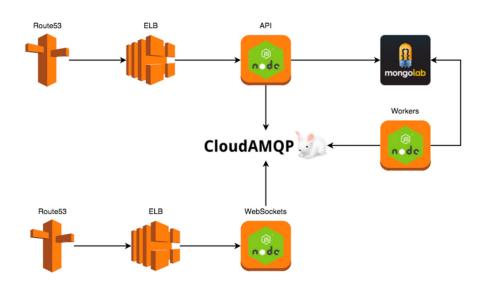
"63% of respondents say
their leaders understand that
automation, machine learning,
artificial intelligence and orchestration
strengthens cyber resilience."



AT CLOUD SCALE YOU HAVE NO CHOICE BUT AUTOMATE

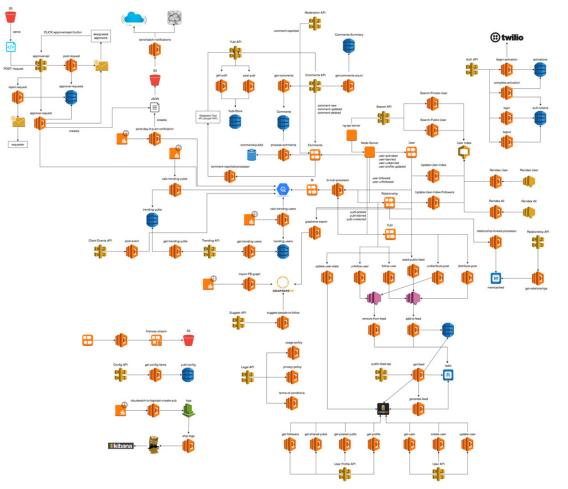


REAL-WORLD CONTAINER-BASED APP IN AWS





SAME APP, REWRITTEN AS FUNCTION-BASED AWS APP





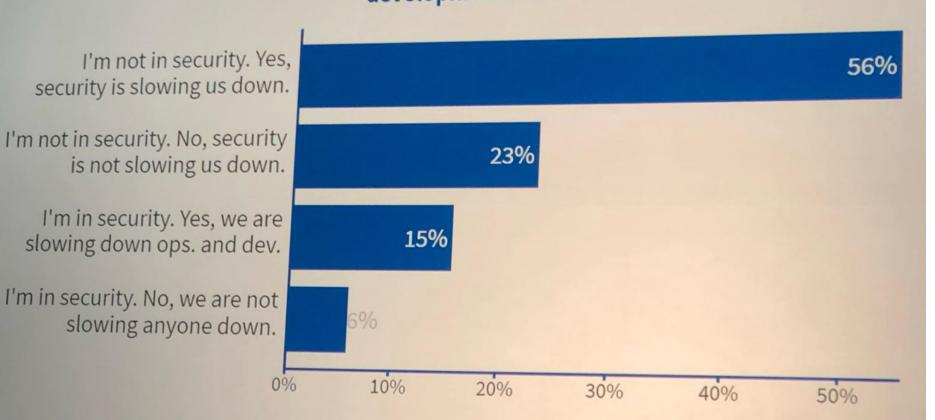
This is just about the inherent inefficiency of the IT security world.

Then there are 2 new emerging aspects...



Visit gartner.com/gpolls3

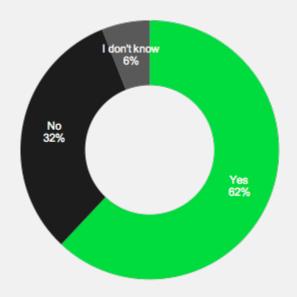
Do you believe information security is slowing down agile operations and agile development?



3artner IT Infrastructure, Operations Management & Data Center Summit - Dec 2017

"The use of AI to automate tasks involved in carrying out cyberattacks will alleviate the existing tradeoff between the scale and efficacy of attacks. This may expand the threat associated with labor-intensive cyberattacks (such as spear phishing). We also expect novel attacks that exploit human vulnerabilities (e.g. through the use of speech synthesis for impersonation), existing software vulnerabilities (e.g. through automated hacking), or the vulnerabilities of AI systems (e.g. through adversarial examples and data poisoning)"

BlackHat 2017 attendees on the chances of more attacks using Al against targets in the next year





WHY?

THERE IS NO INTEGRATION

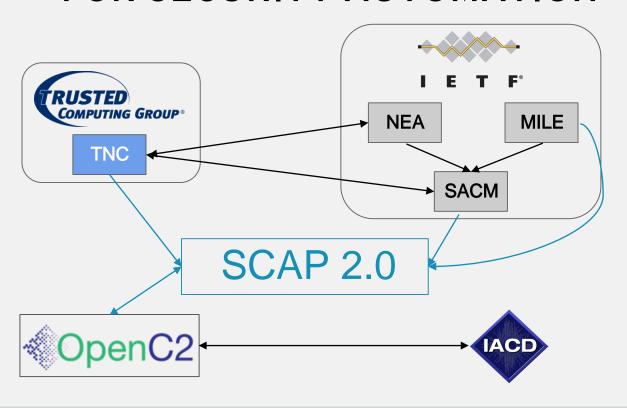
 Proposed standards for integrations (CYBOX, OPENIOC, YARA, STIX/TAXII) are not widely adopted

Main proponent for integrations are security content providers

Automated tasks rarely involve more than two system

Automated remediation is not trusted

CURRENT RESEARCH AND STANDARDS FOR SECURITY AUTOMATION





AUTOMATION CAN BECOME THE LINGUA FRANCA OF IT SECURITY



SECURITY ORCHESTRATION AND AUTOMATED RESPONSE (SOAR) IS BORN











Hosted by:



Discussion Topics:

- What is SOAR
- · Who should use SOAR
- How organizations are using SOAR
- The best practices in deployment and use of SOAR tools

Click "Attend" to add this webinar to your calendar.

VIEW ALL WEBINARS

Polling Question 1

Question: given what you know now, do you see your organization deploying a SOAR tool in the next 12 months?

- A. Yes, a commercial toolB. Yes, an open source tool
- C. No, see no need or not ready
- D. No for other reasons

 E. Not sure

10 0 2015 Garrier, Inc. and/or its afficies. All notes

How to participate in our polling If you are in full screen mode – click Esc The poll question is on the "Vote" tab. Please click the box to make your selection. Upon voting you will see the results. Thank you! All a question (please choose 1 answer) A Answer B. Answer

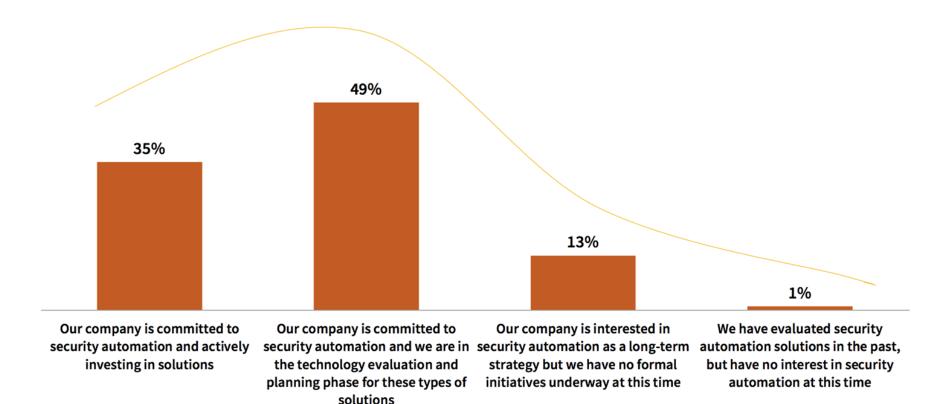
E. Answer

Gartner.



Q(1 of 1) Given what you know now, do you see your organization deploying a SOAR tool in the next 12 months?

Yes, a commercial tool	32%
Yes, an open source tool	22%
No, see no need or not ready	20%
No for other reasons	1%
Not sure	24%



"Early SOAR tools assumed that every tool user is both a security expert and a skilled Python developer, but fortunately those times are over. However, even today Python is useful for customizing playbooks of several of the popular SOAR tools, such as Phantom, Demisto and Swimlane. .. Vendors make it sound that integrating a SOAR tool with an SIEM or EDR tool is truly point-and-click. It may be, in some specific cases, but clients report that in most cases these just don't work as expected and an expert is needed to refine and fix it."

Anton Chuvakin VP Distinguished Analyst

Augusto Barros Research Director

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	19 k	
2 <u>facebook/react-native</u>	10ĸ	
3 tensorflow/tensorflow	9.3 k	
4 <u>angular/angular-cli</u>	8.8 k	
5 MicrosoftDocs/azure-docs	7.8 к	
6 <u>angular/angular</u>	7.6 κ	
7 <u>ansible/ansible</u>	7.5 κ	
8 <u>kubernetes/kubernetes</u>	6.5 к	96M
9 <u>npm/npm</u>	6.1 к	
10 <u>DefinitelyTyped/DefinitelyTyped</u>	6.0 k	PROJECTS



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.

WHAT DOES IT DO?

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

- For **detection and triage of suspicious activities**, for example, Ansible can automatically enable logging or increase the log verbosity across enterprise firewalls and IDS to enrich the alerts received by a SIEM for an easier triage.
- For **threat hunting**, for example, Ansible can automatically create new IDS rules to investigate the origin of a firewall rule violation, and whitelist those IP addresses recognized as non threats.
- For **incident response**, for example, Ansible can automatically validate a threat by verifying an IDS rule, trigger a remediation from the SIEM solution, and create new enterprise firewall rules to blacklist the source of an attack.

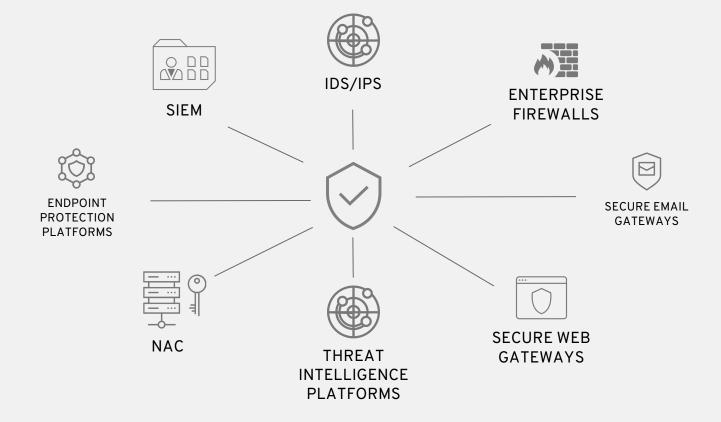
In technology preview, Red Hat's Ansible security automation platform provides support for:

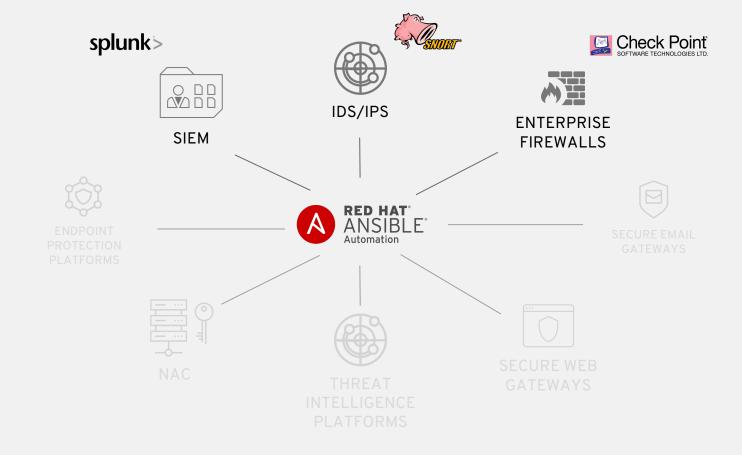
- Check Point Next Generation Firewall (NGFW);
- **Splunk** Splunk Security Enterprise (SE);
- Snort

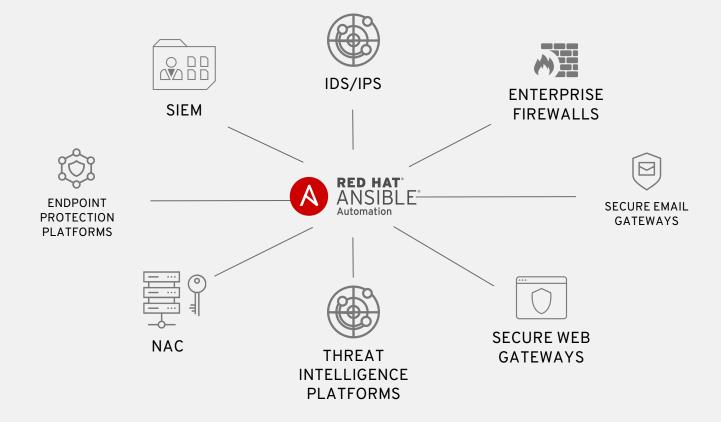
WHO IS IT FOR?

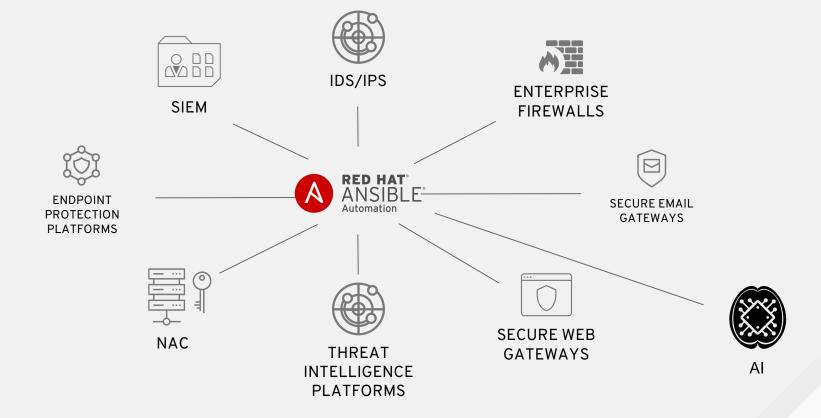
Ansible Security Automation extends the Ansible agentless, modular and easy to use enterprise automation platform to support the following industry constituencies:

- End-user organizations' security teams in charge of Security Operations Centres (SOCs)
- Managed security service providers (MSSPs) responsible for the governance of thousands of enterprise security solutions across their whole customer base
- Security ISVs offering security orchestration and automation (SOAR) solutions currently using custom-made automation frameworks









HOW DO WE GET THERE?

- Reconsider automation as a strategic defense, not just another tactical tool
- Discover what automation tools are the most used in your org, and why
- Assess selected tools' capability to mitigate risks of automation
- Include automation software as target for pentesting

- Pilot automated host and network security for non-critical applications
- Evaluate feasibility of centralized automation and lock down of platforms against rogue scripting
- Let your automation vendor know what security tools you are using, and how you'd like them to interact with each other
- Pressure security vendors to start integrating with automation tools



This Japanese AI security camera shows the future of surveillance will be automated

By James Vincent | @jjvincent | Jun 26, 2018, 7:31am EDT













#ANSIBLEAUTOMATES



ANSIBLE