Security Automation

with IBM Security QRadar and Ansible Automation Platform

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4 pillars of effective SIEM

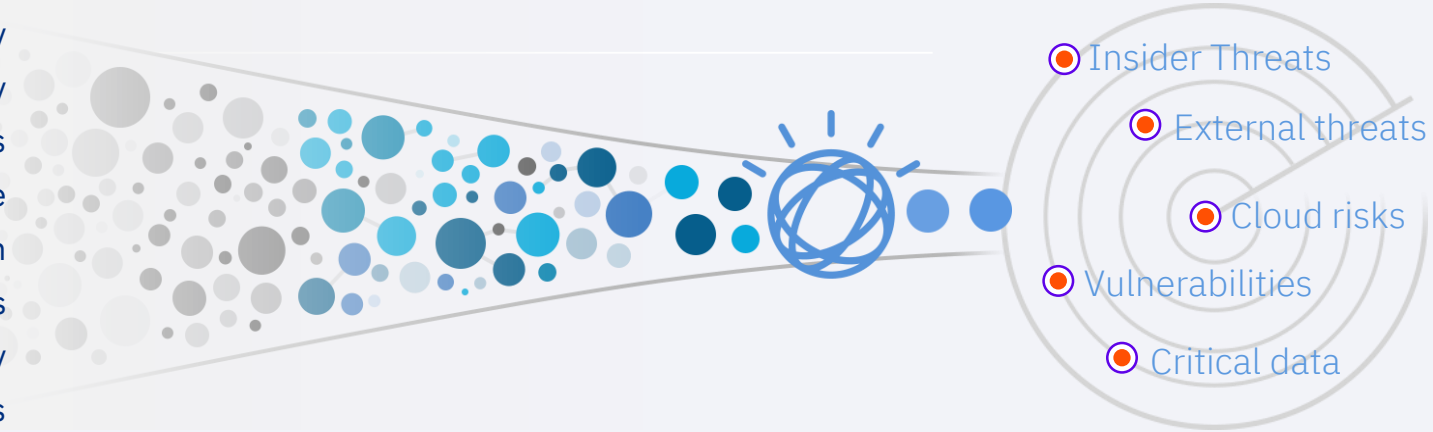
Complete Visibility

Endpoints
Network activity
Data activity
Users and identities
Threat intelligence
Configuration information
Vulnerabilities and threats
Application activity
Cloud platforms

Prioritized Threat Detection

Automated Investigations

Integrated Response

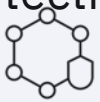


How IBM Security QRadar addresses the 4 pillars

Complete Visibility

- Normalization
- Categorization
- Enrichment
- Network, endpoint, cloud, user and application

Prioritized Threat Detection



- MITRE ATT&CK
- Models
- Behavior chaining
- Global threat intelligence

Automated Investigations

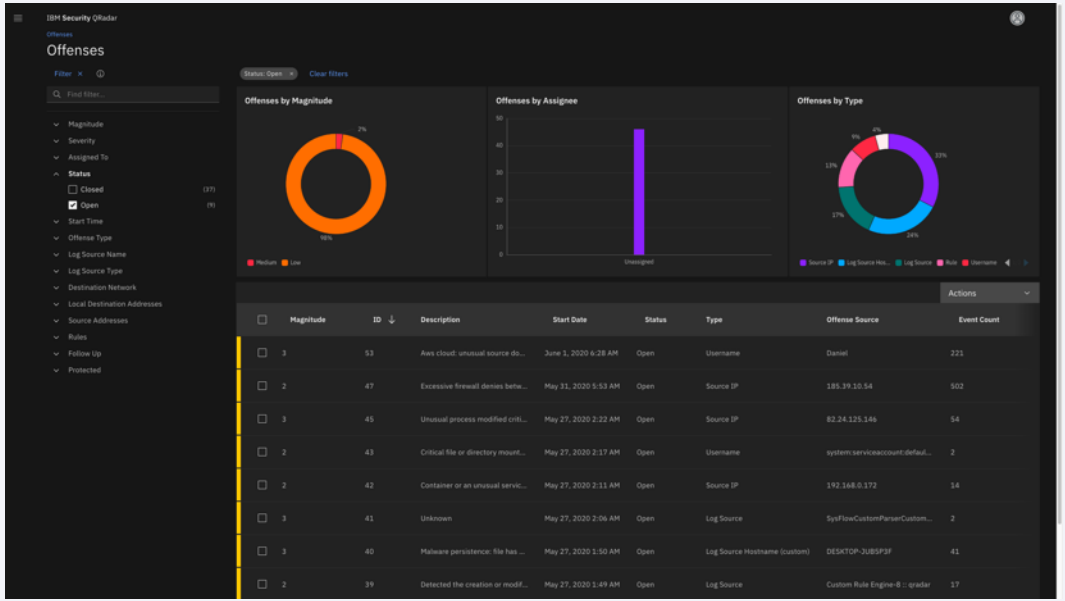
- AI
- Data mining
- Supervised learning
- Unstructured data analysis
- Federated Search

Integrated Response

- Dynamic playbooks
- Automation
- Orchestration
- Privacy breach reporting

IBM Security QRadar

- **Unify SOC workflows** by effectively addressing threats with an integrated visibility, detection, investigation and response platform
- **Augment security staff** with AI-assisted triage and automated response playbooks
- **Mature security operations** with visualized use case coverage, OOTB content, and expert threat intelligence powered by IBM's X-Force IRIS
- **Address regulatory risk** and report on compliance adherence with out-of-the-box content for GDPR, ISO 27001, HIPAA, and more



Why Ansible?

Simple

Human readable automation

No special coding skills needed

Hides away complexity

Usable by every team

Makes users productive faster

Powerful

Configuration management

Deployment & Integration

Workflow orchestration

Multi domain automation

Able to orchestrate complex processes

Agentless

Agentless architecture

Uses OpenSSH, WinRM, API

No agents to exploit or update

More efficient & secure

Easier to integrate in existing infrastructures

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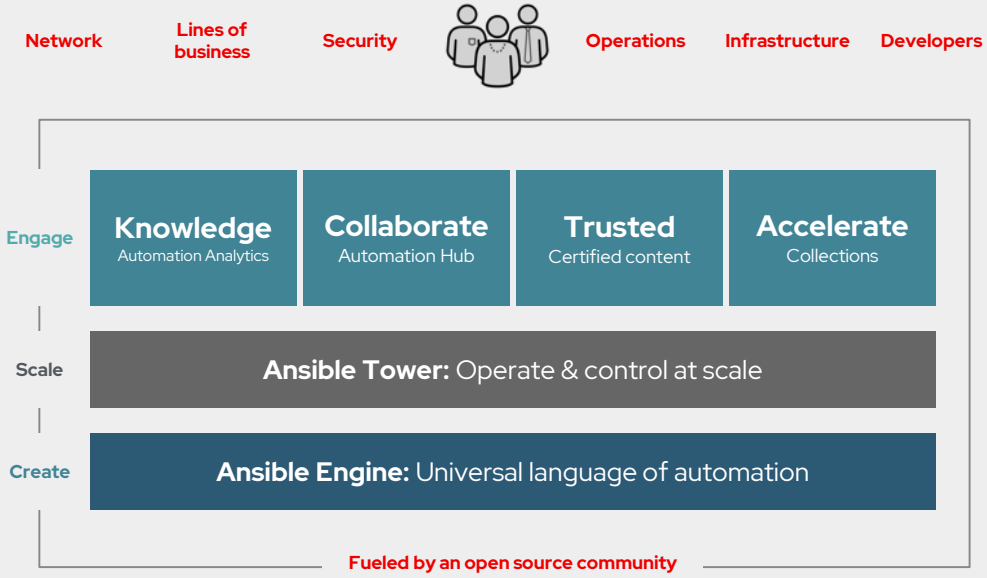
What Is Ansible Automation Platform?

Ansible Automation Platform 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.



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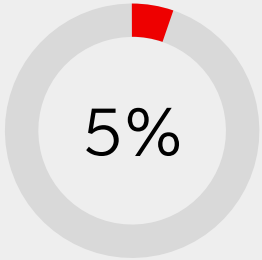
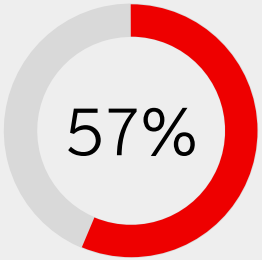
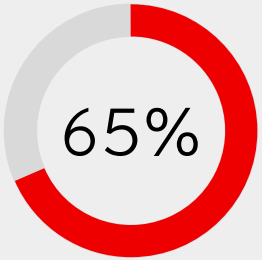
Why Ansible security automation?



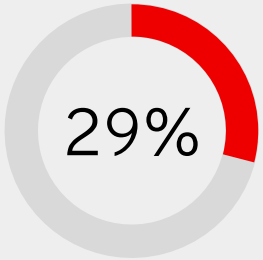
Portion of alerts coming in that the average security team examines every day



Said the time to resolve an incident has grown



Reported increased Severity of attacks



Have their ideal security-skilled staffing level, making it the #2 barrier to Cyber resilience

Source:

1 The Third Annual Study on the Cyber Resilient Organization - Ponemon Institute, 2018 (Sponsored by IBM)

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

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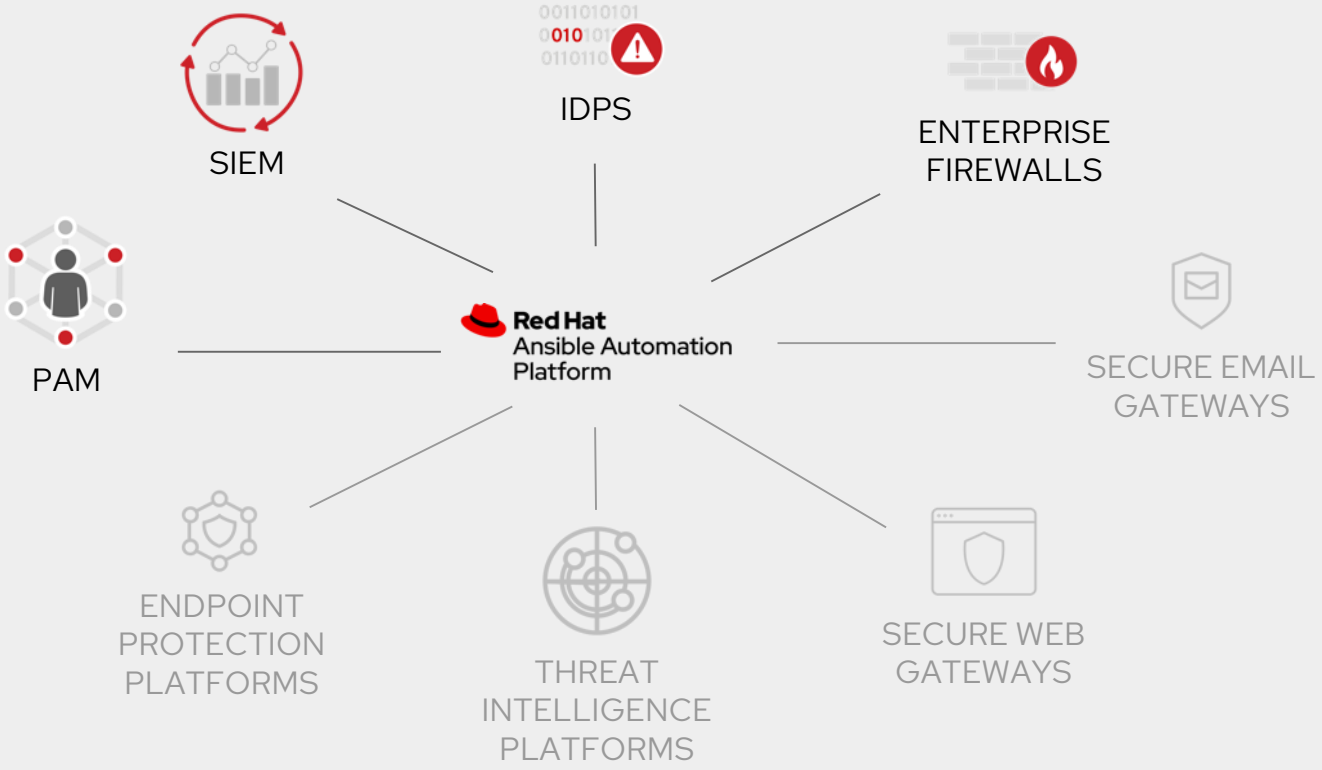
‘Lack of automation and orchestration’
ranked second and
‘Too many tools that are not integrated’
ranked third on the list of SOC challenges.

SANS Institute

Source:
The Definition of SOC-cess? SANS 2018 Security Operations Center Survey

What is Ansible security automation?



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What is Ansible security automation?

Ansible security automation is Ansible expansion deeper into the security use case. The goal is to provide a more efficient, streamlined way for security teams to automate their various processes for the identification, search, and response to security events.

Ansible security automation is a supported set of Ansible modules, roles and playbooks designed to unify the security response to cyberattacks.

Is It A Security Solution?

No. Ansible can help security teams “stitch together” the numerous security solutions and tools already in their IT environment for a more effective cyber defense.

By automating security capabilities, organizations can better unify responses to cyberattacks through the coordination of multiple, disparate security solutions, helping these technologies to act as one in the face of an IT security event.

Red Hat will not become a security vendor, we want to be a security enabler.

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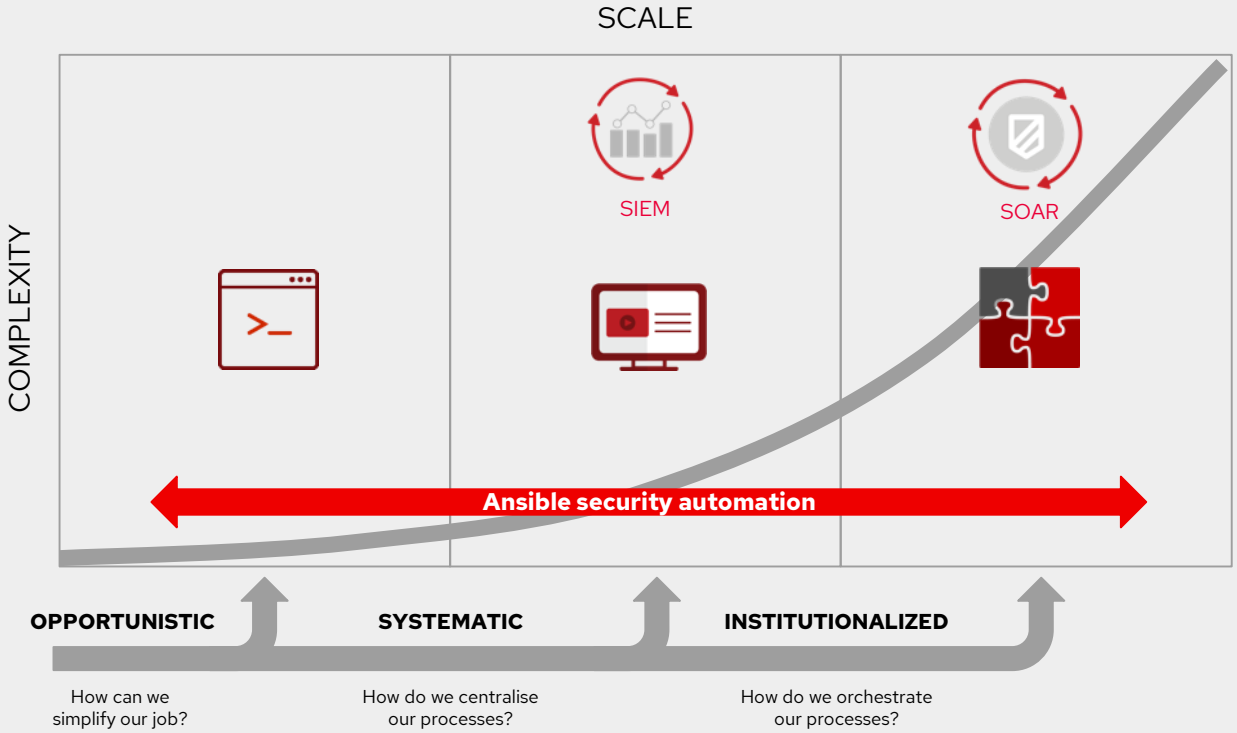
IBM QRadar & Ansible, better together.

How customers adopt security automation?



https://www.ansible.com/blog/the-journey-to-security-automation

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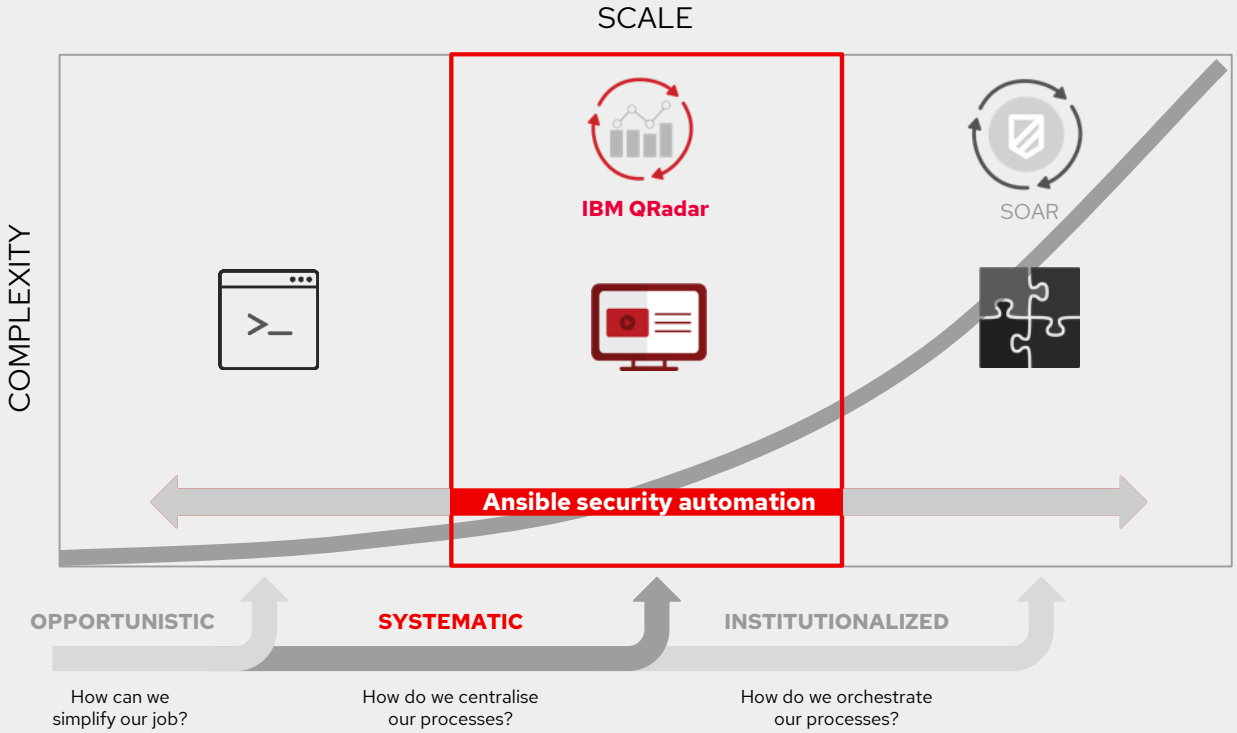

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Why Ansible Automation Platform + QRadar Better Together

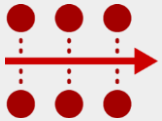
Simplicity

Automate deployment, configuration and mundane tasks

Ansible security automation offers modules to automate the most common and yet onerous tasks, like adding new log sources.

This contributes to lower the running cost of a SIEM freeing up time for Security Operations Centers to focus on more critical activities.

Why Ansible Automation Platform + QRadar Better Together



Consistency

Interoperate multiple platforms from multiple vendors

Ansible security automation enables management at scale and platform-agnostic operations.

Security Operations Centers can operate consistently across multiple instances IBM QRadar or other SIEMs from different vendors.

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Why Ansible Automation Platform + QRadar Better Together

Modernization

Integrate SIEM in DevSecOps workflows

Ansible security automation modules enable QRadar users to more easily integrate into modern automated workflows.

Response & remediation actions may be triggered in any part of the security organization and potentially outside of it. The Ansible Automation Platform provide a common integration substrate across all the different areas of IT organizations.

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Why Ansible Automation Platform + QRadar Better Together

Extensibility

Automate investigation & remediation tasks from the SIEM

Ansible security automation allows security organizations to create pre-approved automation workflows that can be maintained centrally and shared across different teams.

The Ansible Automation Platform can be integrated with IBM QRadar to trigger these workflows directly from the UI, accelerating the response and reducing the operational burden.

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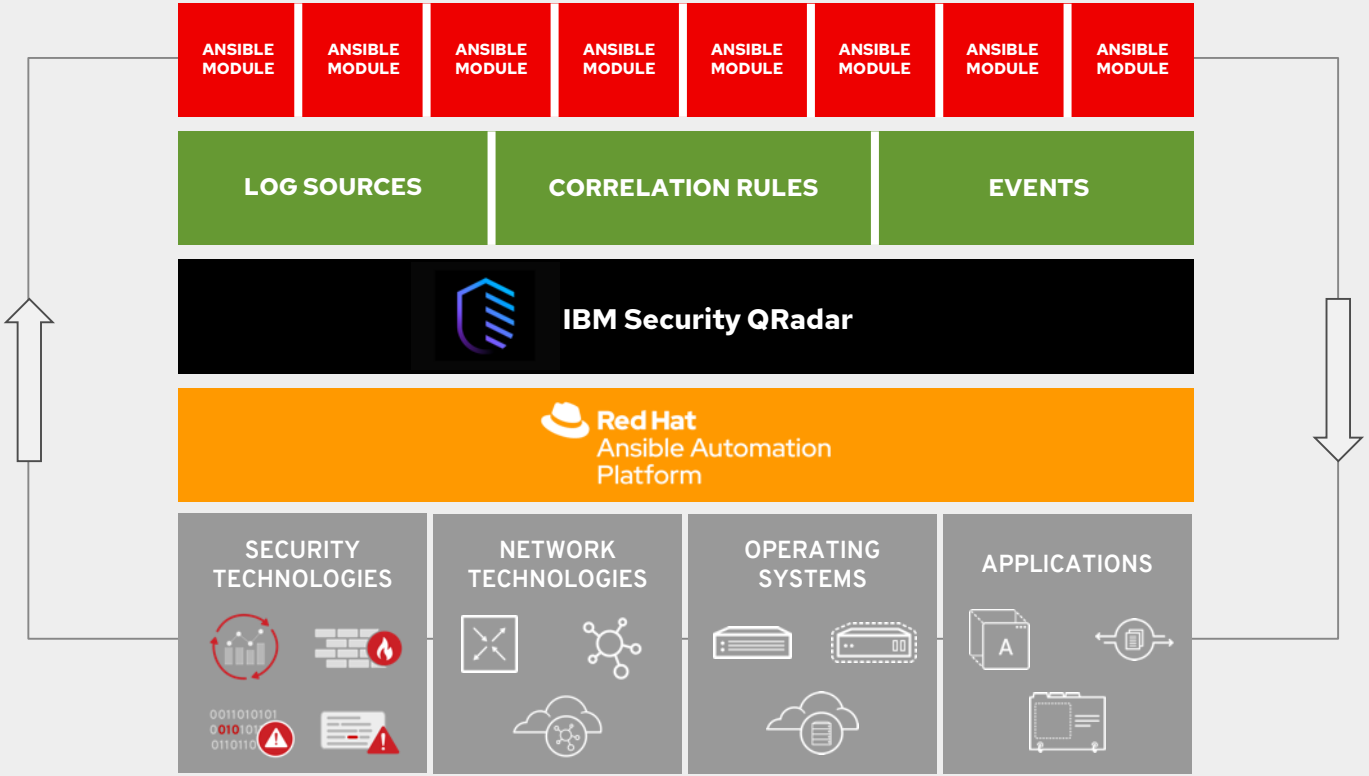
Ansible Automation Platform & QRadar



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IBM QRadar and Ansible Automation Platform

Demo

Relevant Resources

Get Started

Security automation on ansible.com

https://www.ansible.com/use-cases/security-automation

Join the Community

Security automation community wiki

https://github.com/ansible/community/wiki/Security-Automation

Blog posts

https://www.ansible.com/blog/topic/security-automation

#ansible-security on irc.freenode.net

Check out the Code

Ansible Galaxy

IBM Qradar collection

https://galaxy.ansible.com/ibm/qradar

Automation Hub

IBM Qradar Supported collection

https://cloud.redhat.com/ansible/automation-hub/ibm/qradar

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Questions?

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