Red Hat
Ansible Automation
Platform

Ansible security automation

Automating security response and remediation

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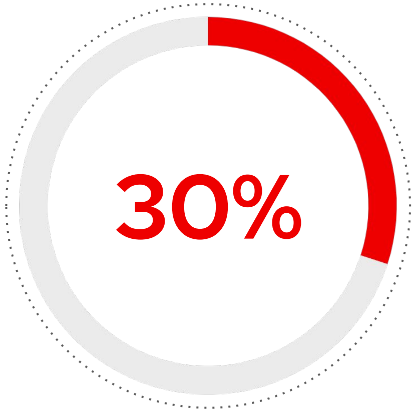
What we'll cover today

- Industry security challenges
- What is Ansible security automation?
- Ansible security automation and Zero Trust Architecture
- Demo!
- Where to go next

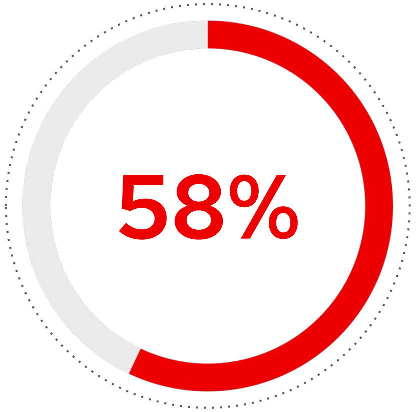
Security challenges

Security team challenges.

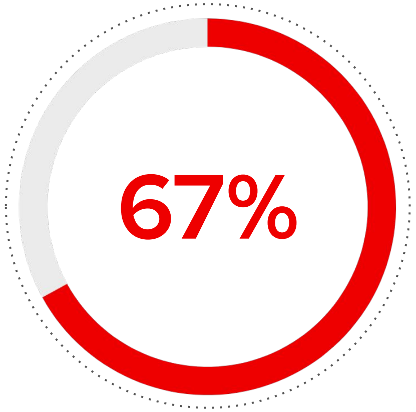
Increased complexity and scope



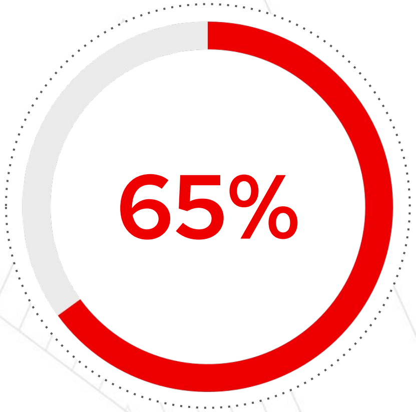
Incoming alerts are ignored or not investigated by the average security team*



Said the time to resolve an incident has grown



Reported increased severity and volume of attacks



Lack of improvement due to fragmented IT and security infrastructure

Source:
IBM Cyber Resilient Organization Study 2021
IDC- In Cybersecurity Every Alert Matters (sponsored by Critical Start) * Surveyed organizations with 1500 - 4999 employees.

Security industry challenges.

Lack of automation and orchestration

"Lack of automation and orchestration"

ranked third.

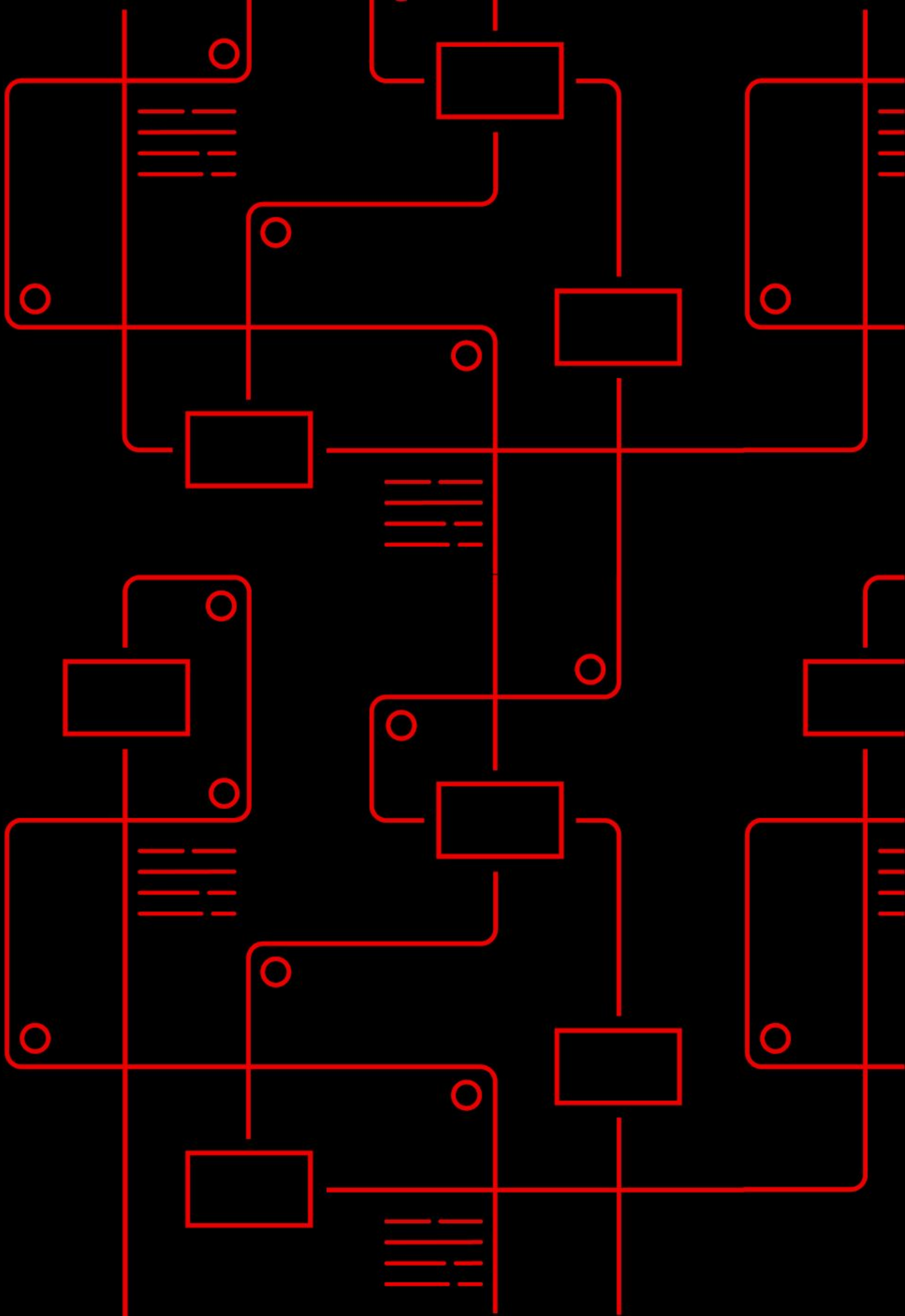
SANS 2022 SOC Survey

"Among respondents, ***45% used more than 20 tools*** *when specifically investigating and responding to a cybersecurity incident."*

Cyber Resilient Organization Study 2021

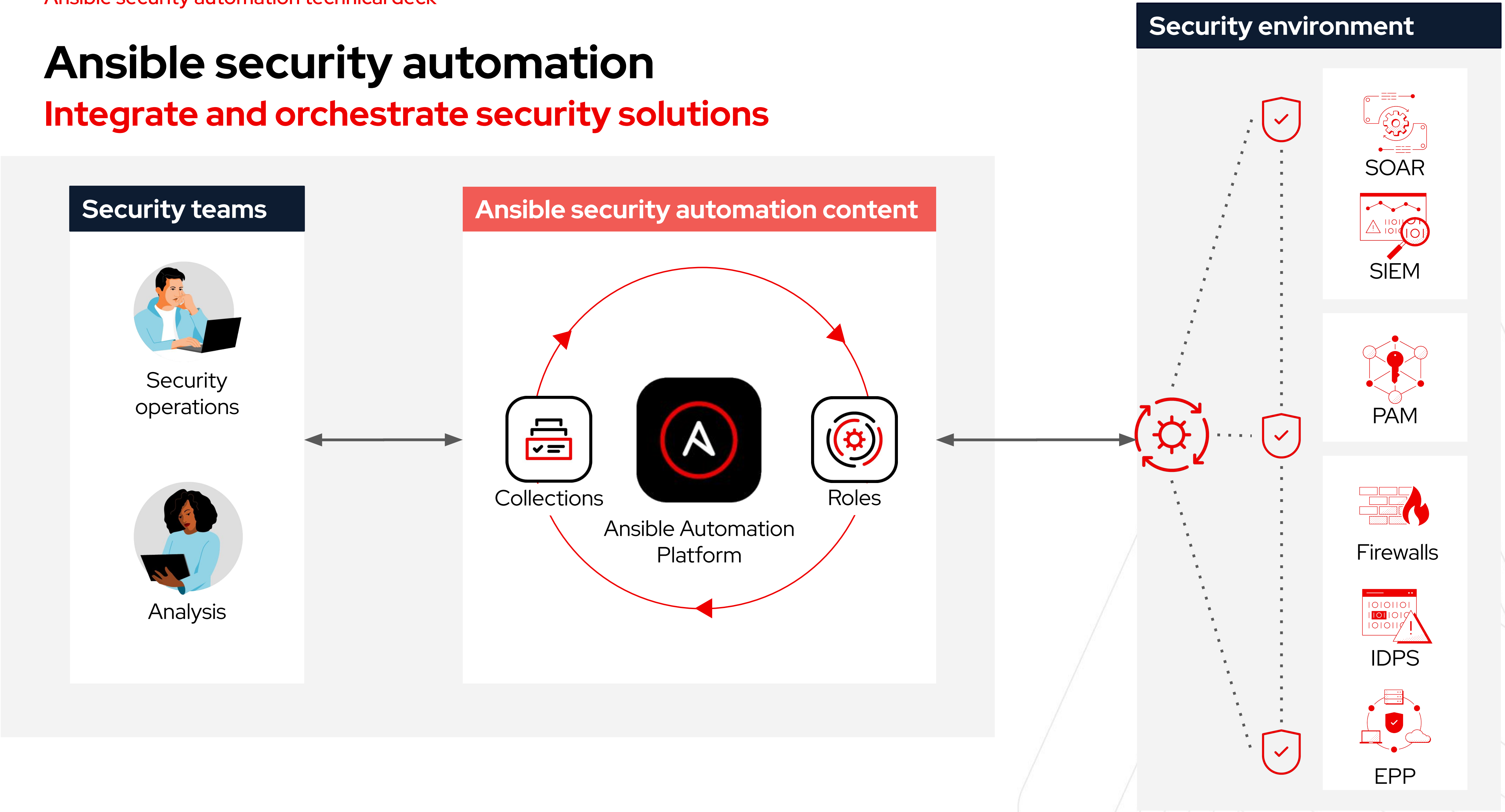
Source:
SANS 2022 SOC Survey
IBM Cyber Resilient Organization Study 2021

What is Ansible security automation?



Ansible security automation

Integrate and orchestrate security solutions



Ansible security automation content

Certified Content Collections and the Community

Security Information & Events Management

splunk>

Enterprise Security

IBM

QRadar

Enterprise Firewalls

Check Point SOFTWARE TECHNOLOGIES LTD

Next Generation Firewall
GAIA OS

CISCO

Adaptive Security Appliance (ASA)

f5

Advanced Firewall Manager

FORTINET

Fortigate: NGFW

JUNIPER NETWORKS

SRX (JunOS)

Intrusion Detection & Prevention Systems

Check Point SOFTWARE TECHNOLOGIES LTD

IPS Blade

FORTINET

Fortigate: IPS

SNORT

Intrusion Detection System

Privileged Access Management

CYBERARK

PAM

Syncope

Apache Syncope

IBM

ISAM

Endpoint Protection

CROWDSTRIKE

Falcon

TREND MICRO

Deep Security

Ansible security automation

Response and remediation use cases

Investigation enrichment

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

Threat hunting

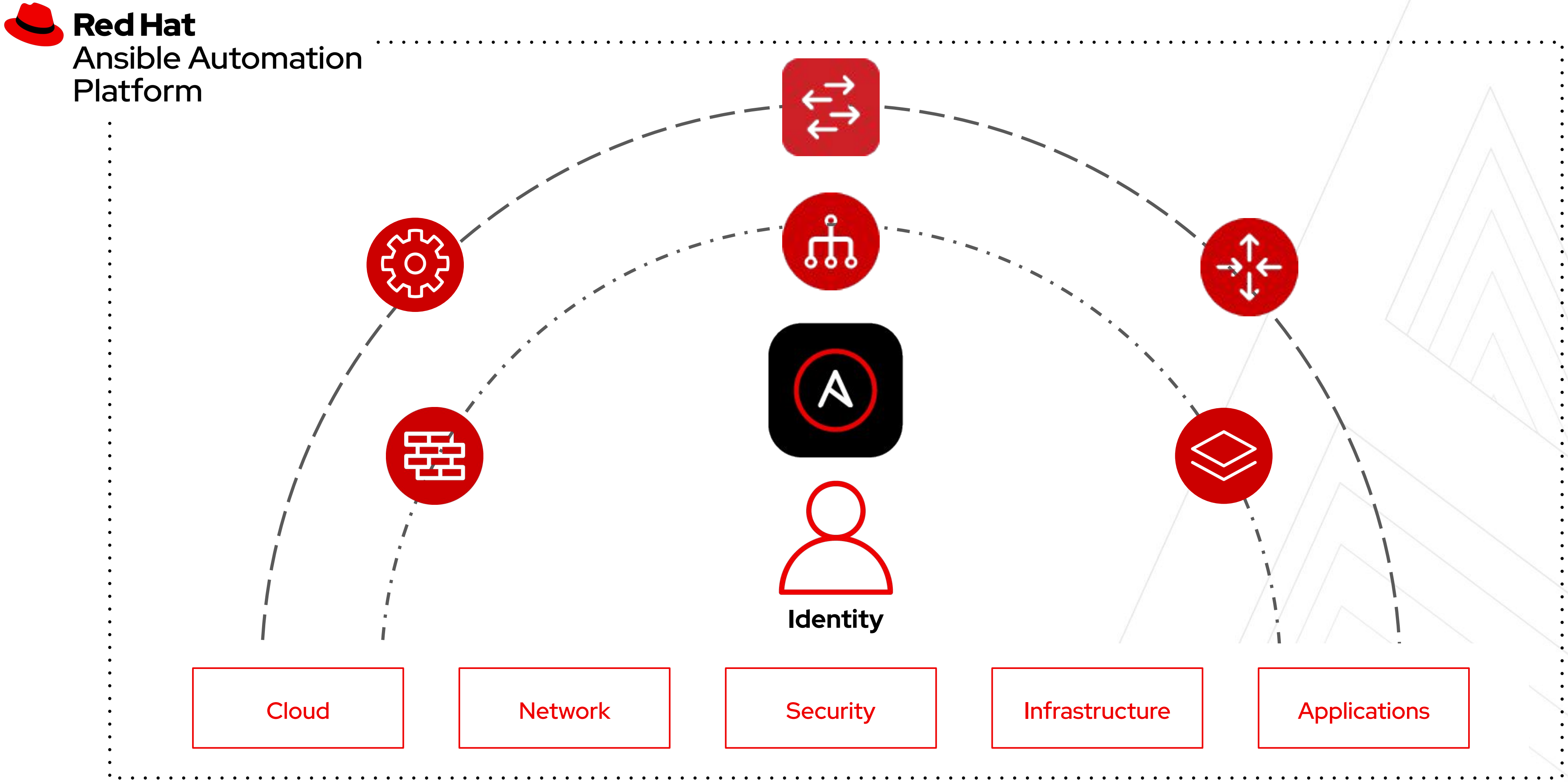
Automating alerts, correlation searches and signature manipulation.

Incident response

Creating new security policies to allow, deny or quarantine a machine.

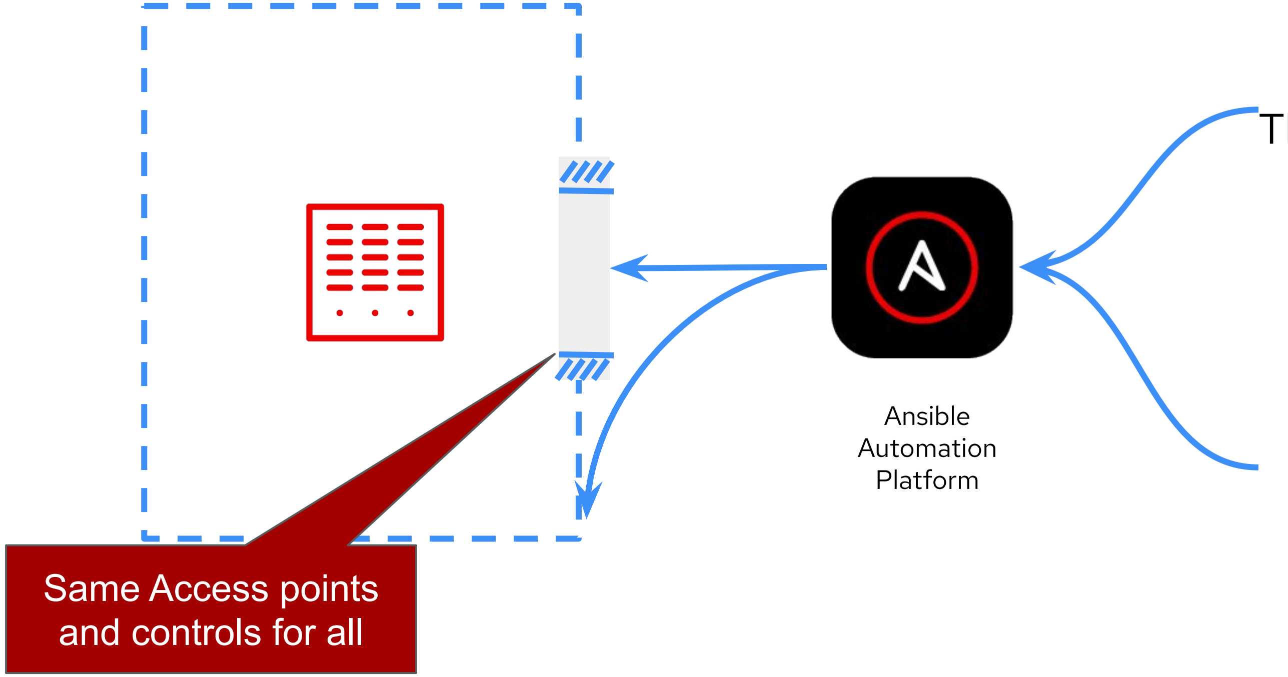
Ansible Automation Platform and Zero Trust Architecture

Explicit Trust is the Goal



Ansible security automation and Zero Trust Architecture

Dynamic security boundaries


Ansible Automation Platform
Same Access points and controls for all

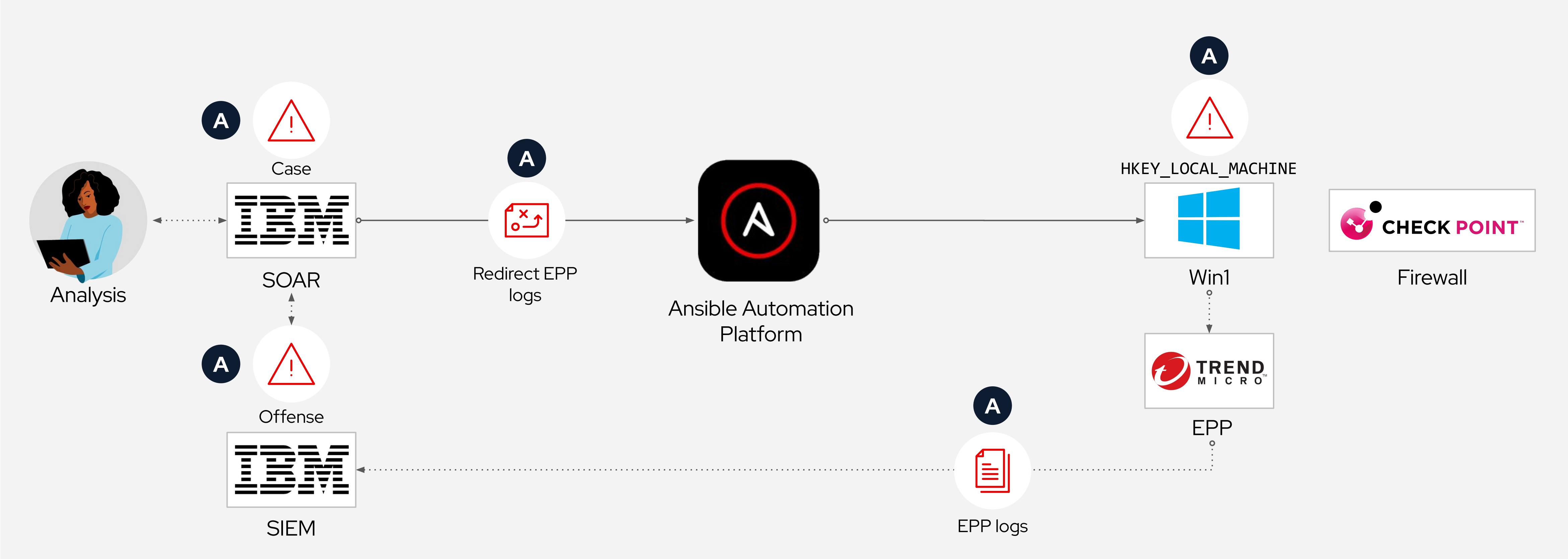
Through Ansible, Red Hat provides tools to

- **Apply** security controls across the hybrid cloud
- **Open and close** access points (file, network, processes)
- Scan, assess, test, validate these controls
- **Configure** your Continuous Diagnostic and Mitigation (CDM), SOAR, SIEM tools to do these things too

Demo overview

Investigation enrichment zero trust workflow

Collate data and build context

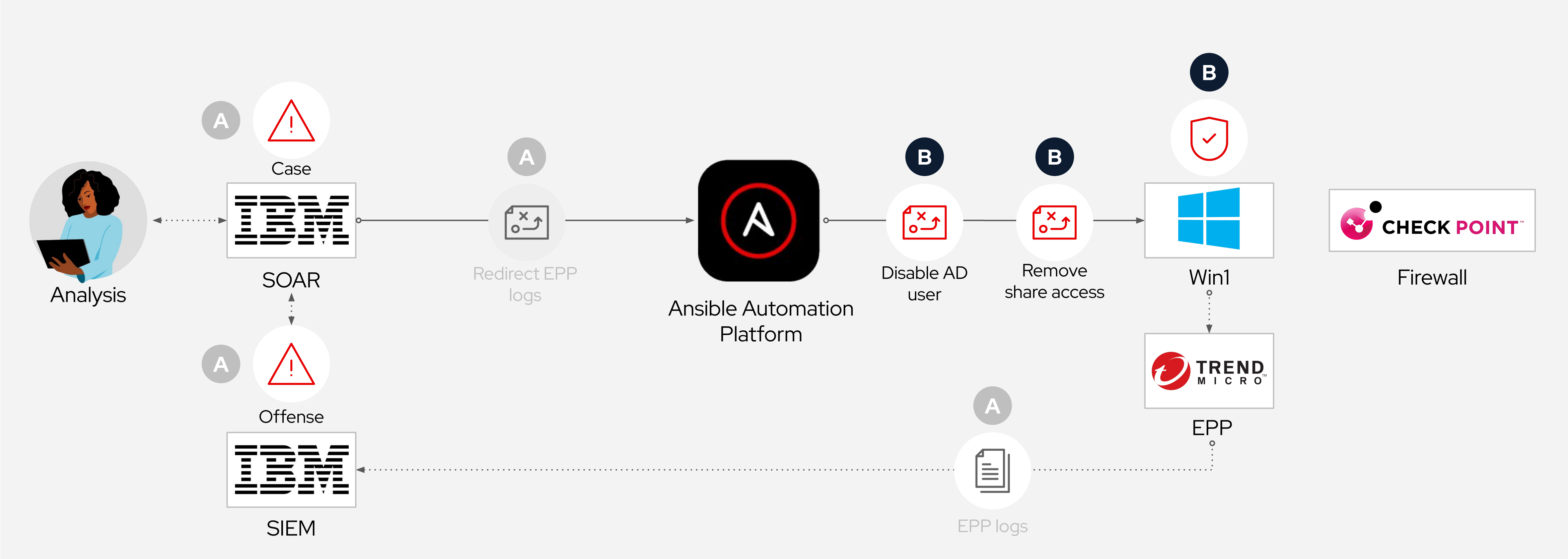


A. Suspicious registry key

- Suspicious registry key detected
- Trend Micro Deep Security log redirection into IBM QRadar
- New Offense created and imported into IBM SOAR

Automated containment zero trust workflow

Automated containment based on context

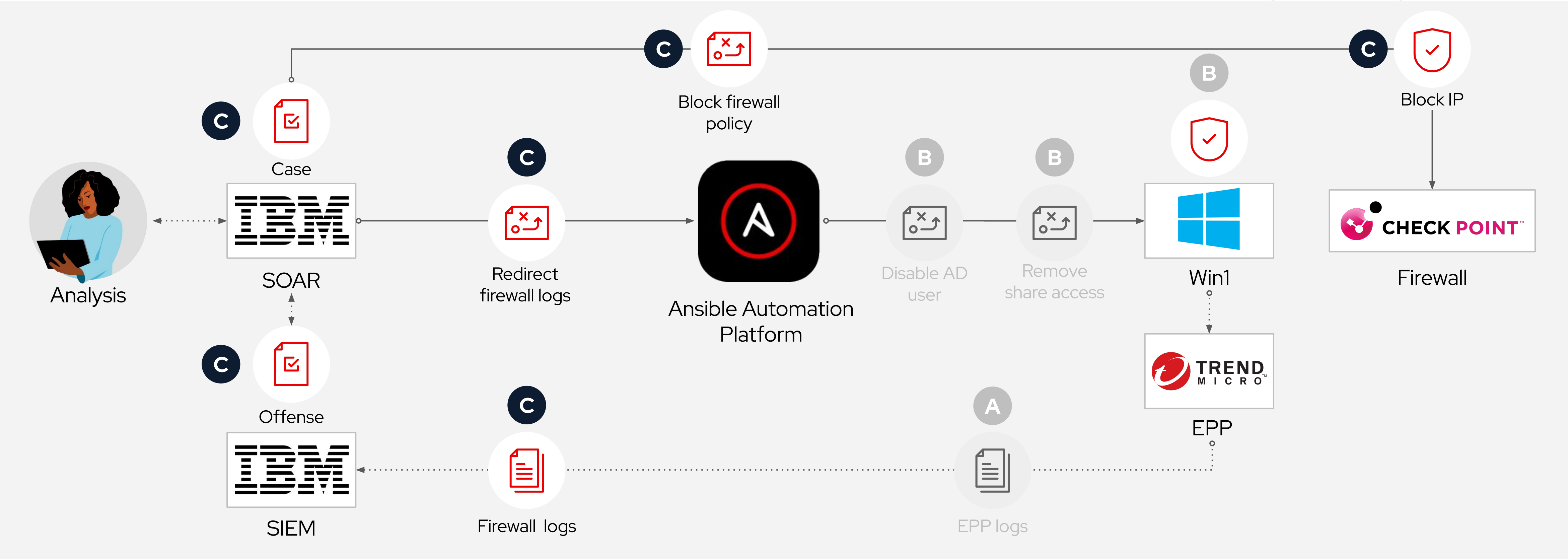


B. Threat mitigation workflow

- Gather information on compromised AD account
- Disable access to corporate data
- Disable AD user account

Remediation zero trust workflow

Remediate threat



C. Threat remediation workflow

- Redirect CheckPoint NGFW logs to QRadar SIEM
- Analyse network traffic
- Block malicious IP

Demo time!

Where to go next

Learn more

- Security automation on ansible.com
- Simplify your security operations center – eBook
- Documents
- Youtube

Get started

- Self-paced labs
- Ansible security automation workshop
- Ansible Automation Platform Trial
- console.redhat.com

Get serious

- Red Hat Automation Adoption Journey
- Red Hat Training
- Red Hat Consulting

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