

RED HAT FORUMS

AUTOMATIZZA IL TUO SECURITY OPERATIONS CENTER CON ANSIBLE

Massimo Ferrari
Consulting Product Manager
Ansible Security

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The State of Enterprise IT Security

\$103B

Global spending on security hardware, software and services

40

Average number of security tools used in a SOC

5%

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). "

65%

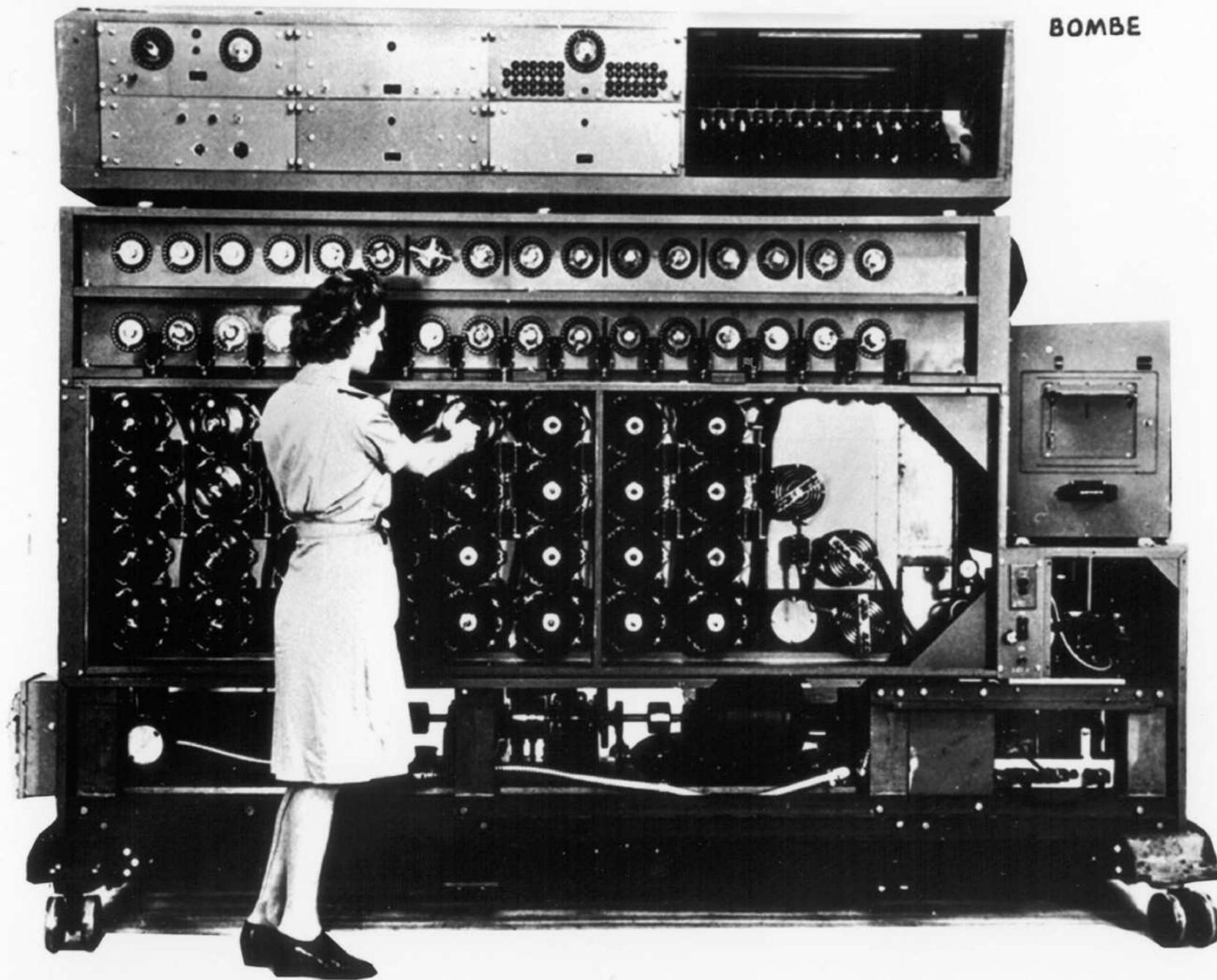
Severity of attacks has increased

57%

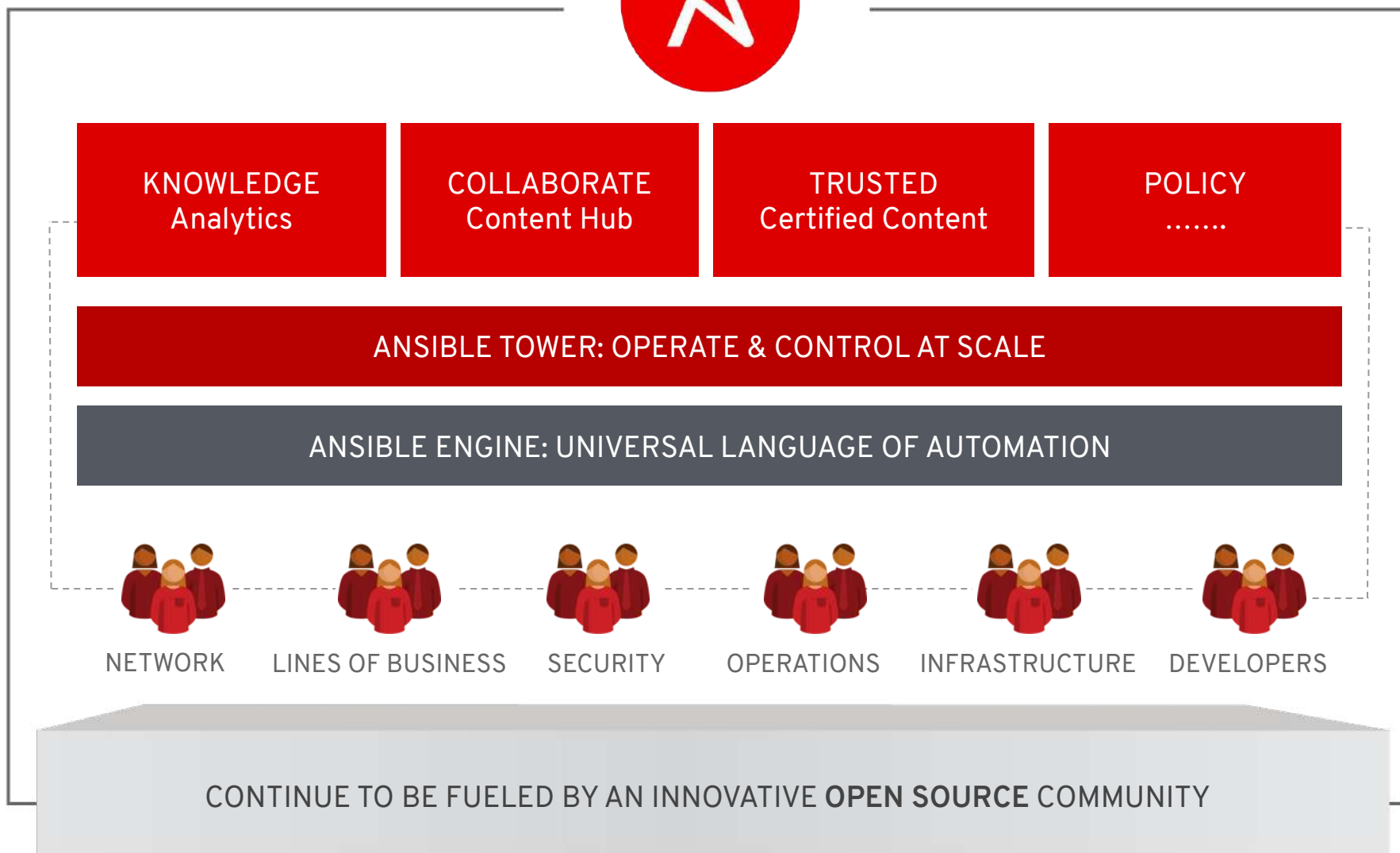
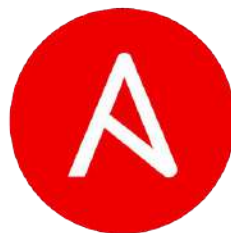
Time to resolve an incident has increased

53%

More than half of organizations report a "problematic shortage" of cybersecurity skills, and there is no end in sight.



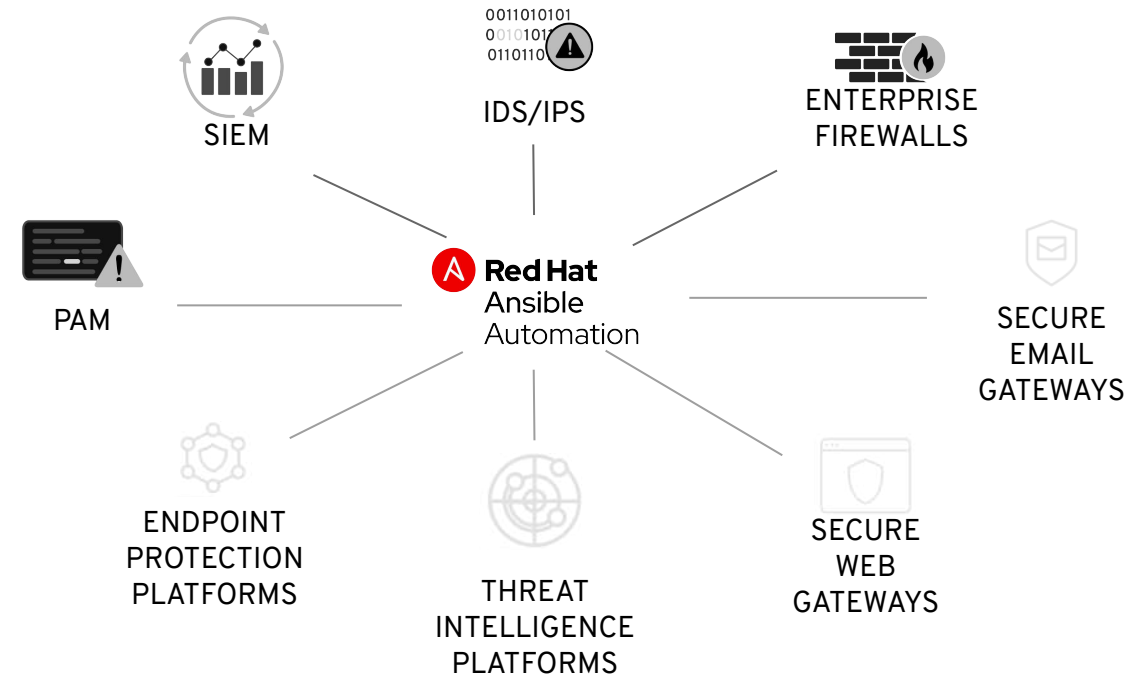
BOMBE



What's Ansible security automation?

DESIGNED TO ORCHESTRATE THREAT RESPONSE ACROSS SECURITY DOMAINS

- Expansion of Ansible as the Enterprise automation platform
- Integrates & orchestrates multiple classes of security solutions
- Provides modules, roles and playbooks to support security use cases across those solutions



Who Are Our Partners?



Security Information &
Events Management

splunk>

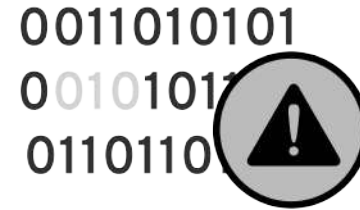
IBM



Enterprise
Firewalls



FORTINET



Intrusion Detection &
Prevention Systems



FORTINET



Privileged Access
Management

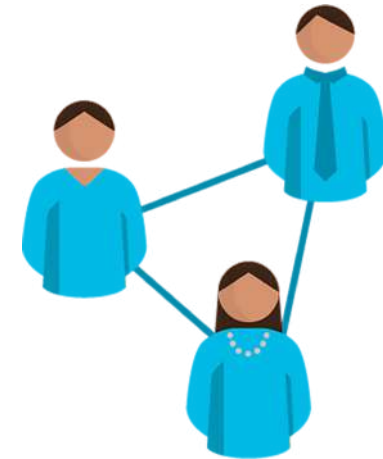
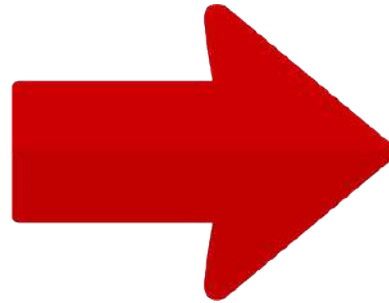


Why Should You Care About Security?



IT Process

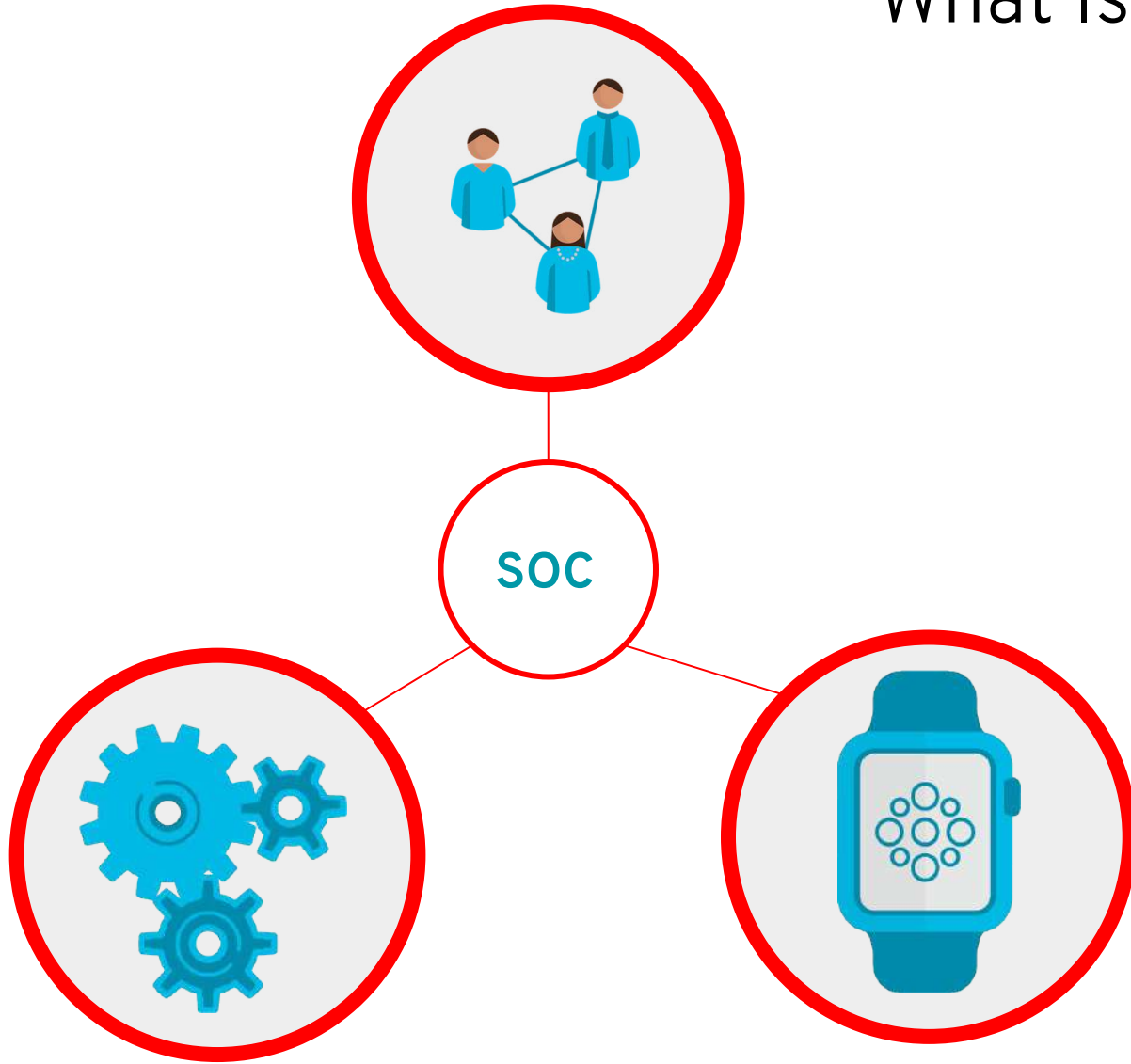
Core practitioners.
Experts with deep IT technical knowledge.



Organization-wide Process

Business process owners, Product
Managers, Legal, PR, Customer Relations

What Is a SOC?



- Prevent
- Detect
- Assess
- Respond

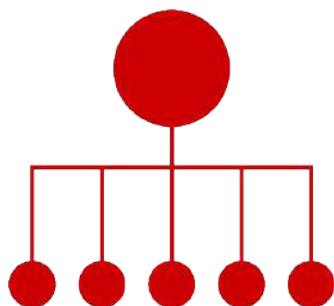
Why Do We Need a SOC?

“““

Organizations are building internal security operations capabilities (even if in a limited sense) because they desire more control over their security monitoring and response process. They also want to have more informed conversations with regulators.

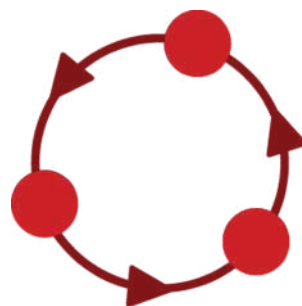
Gartner

What Kind of SOC's Are Out There?



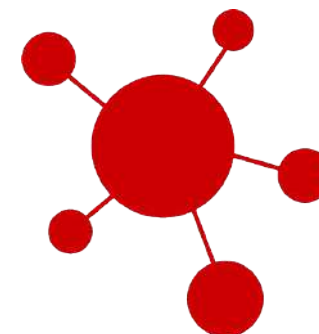
Command

Coordinates other SOC's.
Provides threat intelligence, situational awareness and additional expertise.
Rarely directly involved in day-to-day operations.



Multifunction

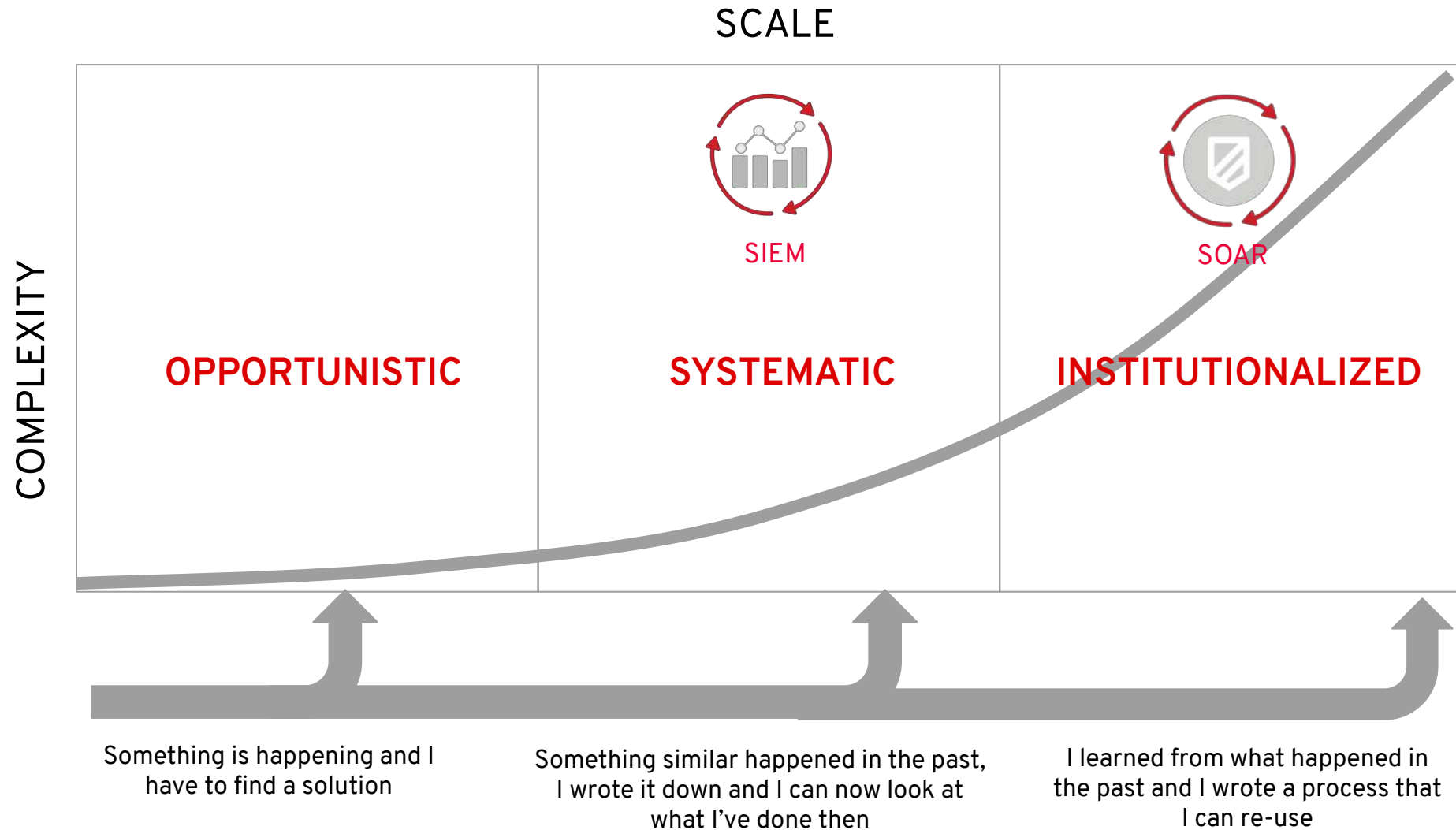
Dedicated facility with a dedicated team performing not just security, but other critical 24/7 IT operations from the same facility to reduce costs.



Fusion

Traditional SOC functions and new ones, such as threat intelligence, computer incident response team (CIRT) and operational technology (OT) functions, are integrated into one SOC facility.

Security Processes Maturity Model





The Italian Army

The C4 Command, Development, management and security of of enterprise applications, systems and networks



190,000 Users



National territory and International missions



470+ Barracks



Maintain an Extensive Private Network



15 Datacentres

“““

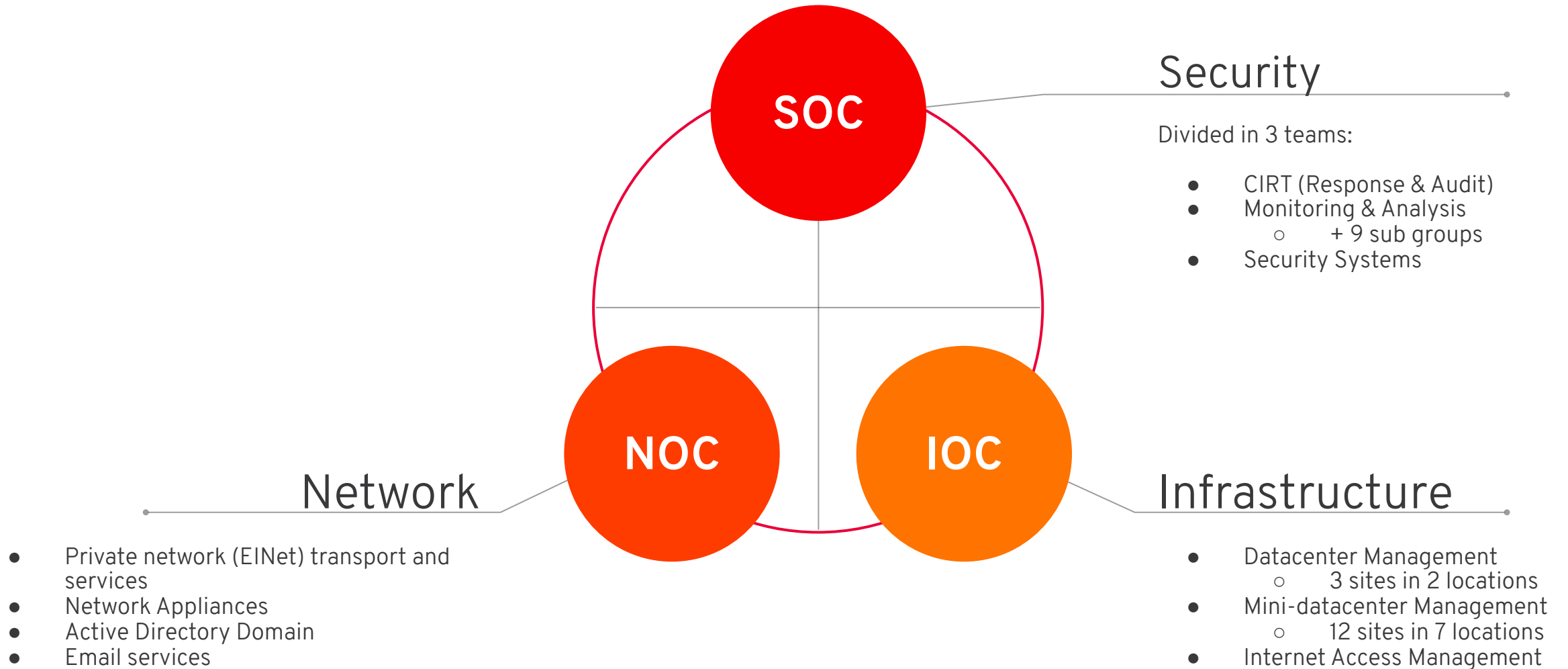
In the interconnected digital world, every individual becomes an operator and we're often only as strong as our weakest link.

Michael S. Rogers

You can't predict future, but you can plan for it.

Saji Ijiyemi

Decision Making Room

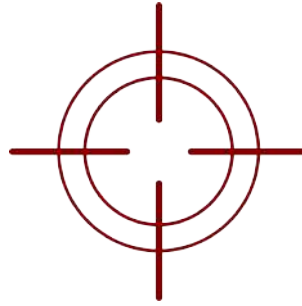


Use Cases



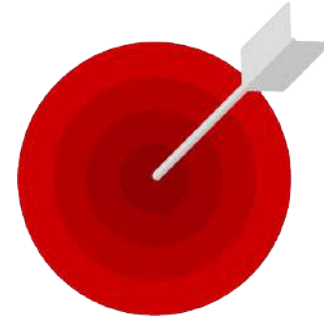
Investigation Enrichment

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



Threat Hunting

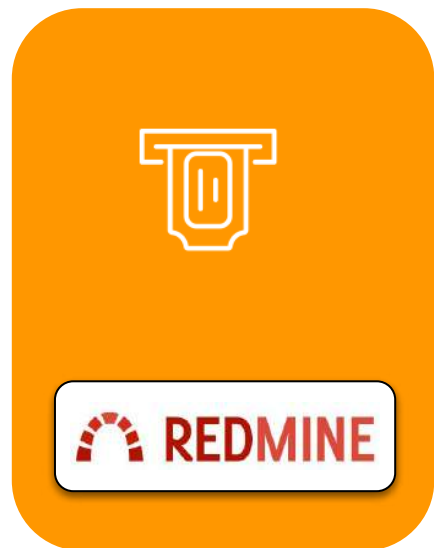
Automating alerts, correlation searches and signature manipulation



Incident Response

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

The Tool Set



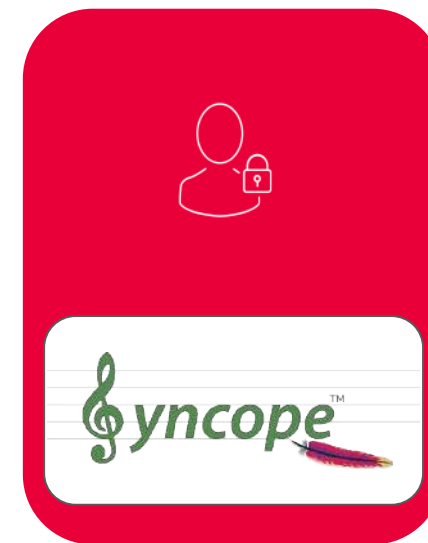
SIEM



Firewall



IDS/IPS



PAM

Investigation Enrichment



USE CASE - INVESTIGATION ENRICHMENT ON FIREWALLS

Investigation Enrichment



USE CASE - INVESTIGATION ENRICHMENT ON FIREWALLS



Investigation Enrichment

```
- name: Forward Cisco ASA Logs
hosts: ciscoasa
tasks:
  include_role:
    name: log_manager
    tasks_from: forward_logs_to_syslog
vars:
  syslog_server: 192.168.0.1
  ciscoasa_server_name: test
  firewall_provider: ciscoasa
```



USE CASE - INVESTIGATION ENRICHMENT ON FIREWALLS



Investigation Enrichment

```
- hosts: fortios
vars:
  vdom: "root"
tasks:
- name: Global settings for remote syslog server.
  fortios_log_syslogd_setting:
    vdom: "{{ vdom }}"
    https: "False"
    log_syslogd_setting:
      custom_field_name:
        - custom: "cef"
        id: "6"
        name: "default_name_7"
    enc_algorithm: "high-medium"
    facility: "kernel"
    mode: "udp"
    port: "12"
    server: "192.168.0.1"
    source_ip: "84.230.14.43"
    ssl_min_proto_version: "default"
    status: "enable"
```

FORTINET

USE CASE - INVESTIGATION ENRICHMENT ON FIREWALLS

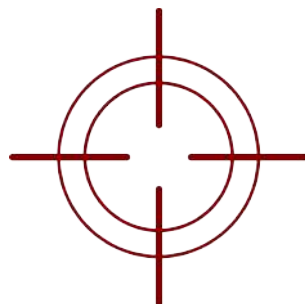


Investigation Enrichment

```
- name: Create a QRadar Log Source and Enable Offense Rule
hosts: qradar
collections:
  - ibm.qradar
tasks:
  - name: Create QRadar Log Source - FortiGate
    qradar_log_source_management:
      name: "FortiGate LogSource: {{ fgate_ip_addr }}"
      type_name: "Fortinet FortiGate Security Gateway"
      state: present
      description: "Automated Creation of QRadar LS"
      identifier: "{{ fgate_ip_addr }}"
```

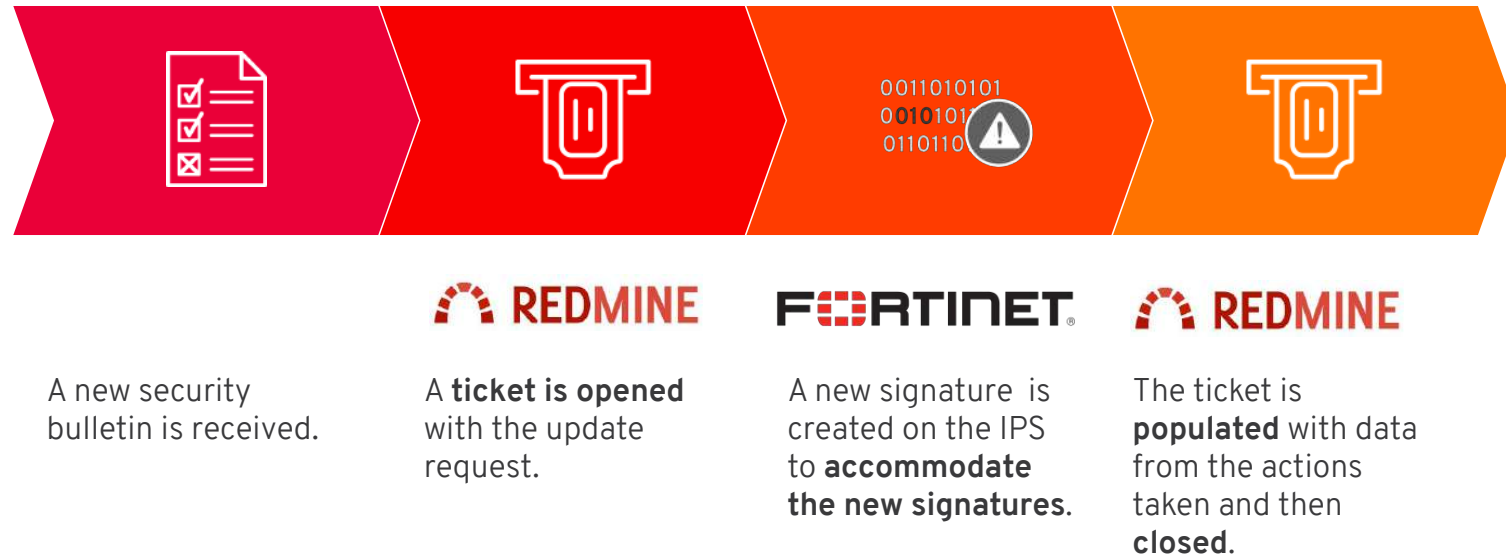


Threat Hunting

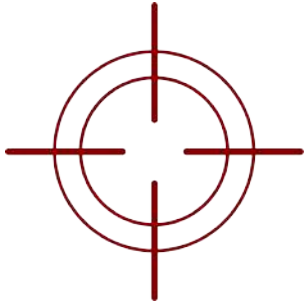


USE CASE - IMPLEMENTING A NEW CUSTOM SIGNATURE ON IPS

Threat Hunting



USE CASE - IMPLEMENTING A NEW CUSTOM SIGNATURE ON IPS

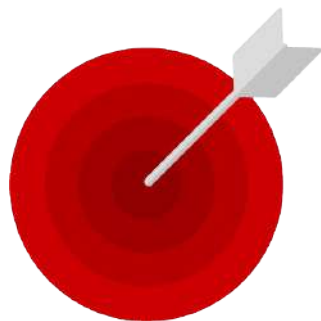


Threat Hunting

```
- hosts: fortios
vars:
  vdom: "root"
tasks:
  - name: Configure IPS custom signature
    fortios_ips_custom:
      vdom: "{{ vdom }}"
      https: "False"
      ssl_verify: "False"
      state: "present"
      ips_custom:
        action: "pass"
        application: "Other"
        comment: "TEST IPS Comment"
        location: "client"
        log: "disable"
        log_packet: "disable"
        os: "Linux"
        protocol: "TCP"
        severity: "info"
        signature: "F-SBID( --name 'Block.example.com'; --pattern
'example.com'; --service HTTP; --no_case; --flow from_client; --context
host; )"
        status: "disable"
        tag: "ipsSignature"
```

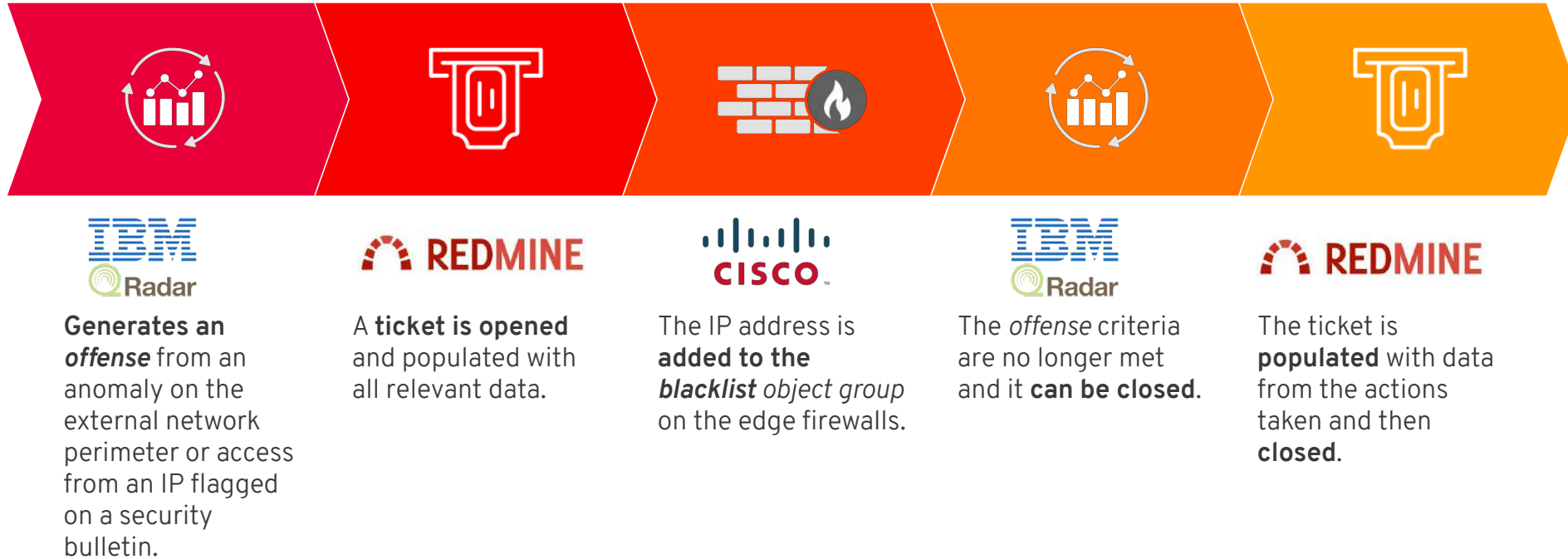
FORTINET

Incident Response



USE CASE - PUBLIC IP BLACKLISTING

Incident Response



USE CASE - SSO CREDENTIALS QUARANTINE + FORCE PASSWORD RESET

Incident Response



AUTOMATE AN ENTIRE PROCESS THROUGH TOWER

Where are you in the Automation Journey

