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Share.
Learn.
Secure.

Capitalizing on
Collective Intelligence

How Shared Security Intelligence Can Better Stop Targeted Attacks

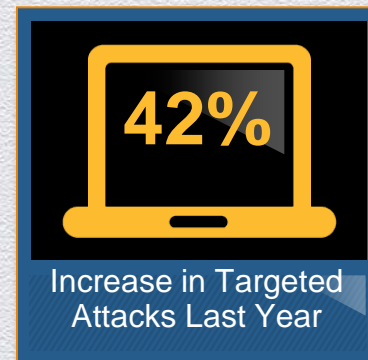
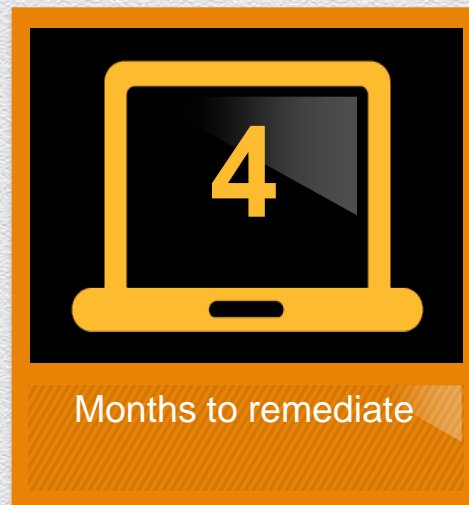
SESSION ID: SPO3-T07

Piero DePaoli

Senior Director
Global Product Marketing
Symantec Corporation



Targeted Attacks are an Increasing Issue



Targeted Attacks Defined

Broad term used to characterize threats targeted to a specific entity or set of entities

Often crafted and executed to purposely be covert and evasive, especially to traditional security controls

End goal is most commonly to capture and extract high value information, to damage brand, or to disrupt critical systems

Targeted Attacks: How they Happen

Spear Phishing



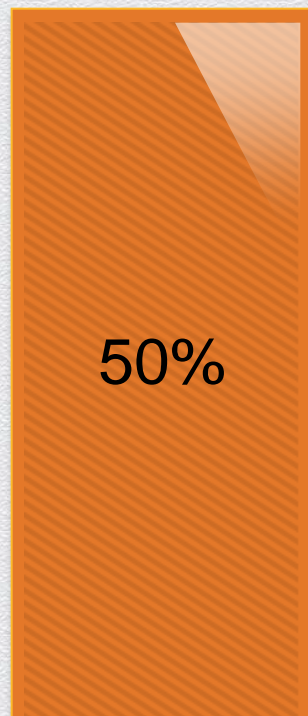
Send an email to a person of interest

Watering Hole Attack



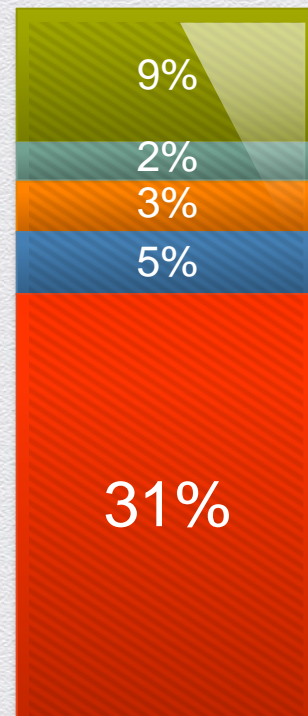
Infect a website and lie in wait for them

50% 2,501+



Employees
2,501+

50% 1 to 2,500



9%

1,501 to 2,500

2%

1,001 to 1,500

3%

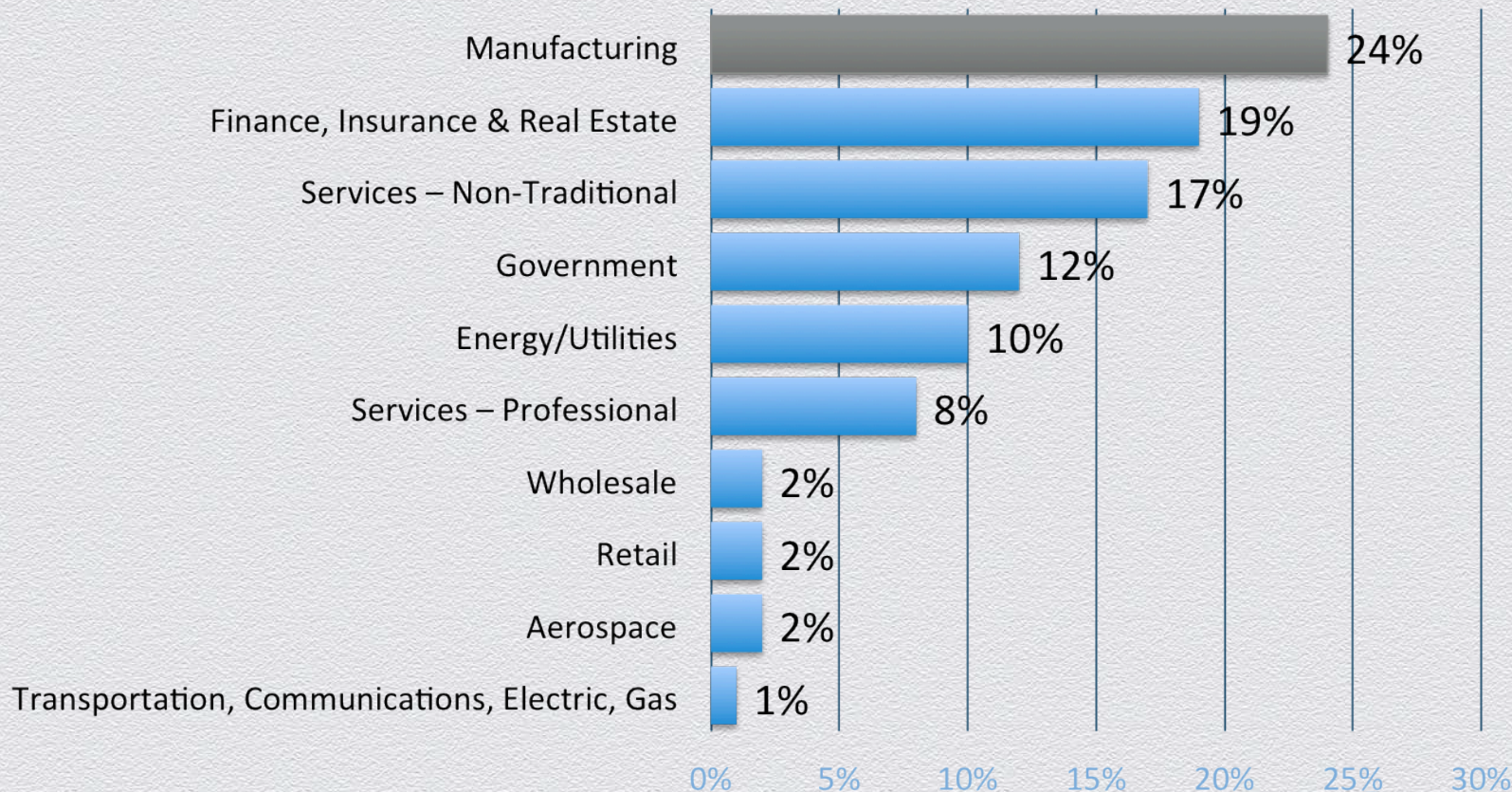
501 to 1,000

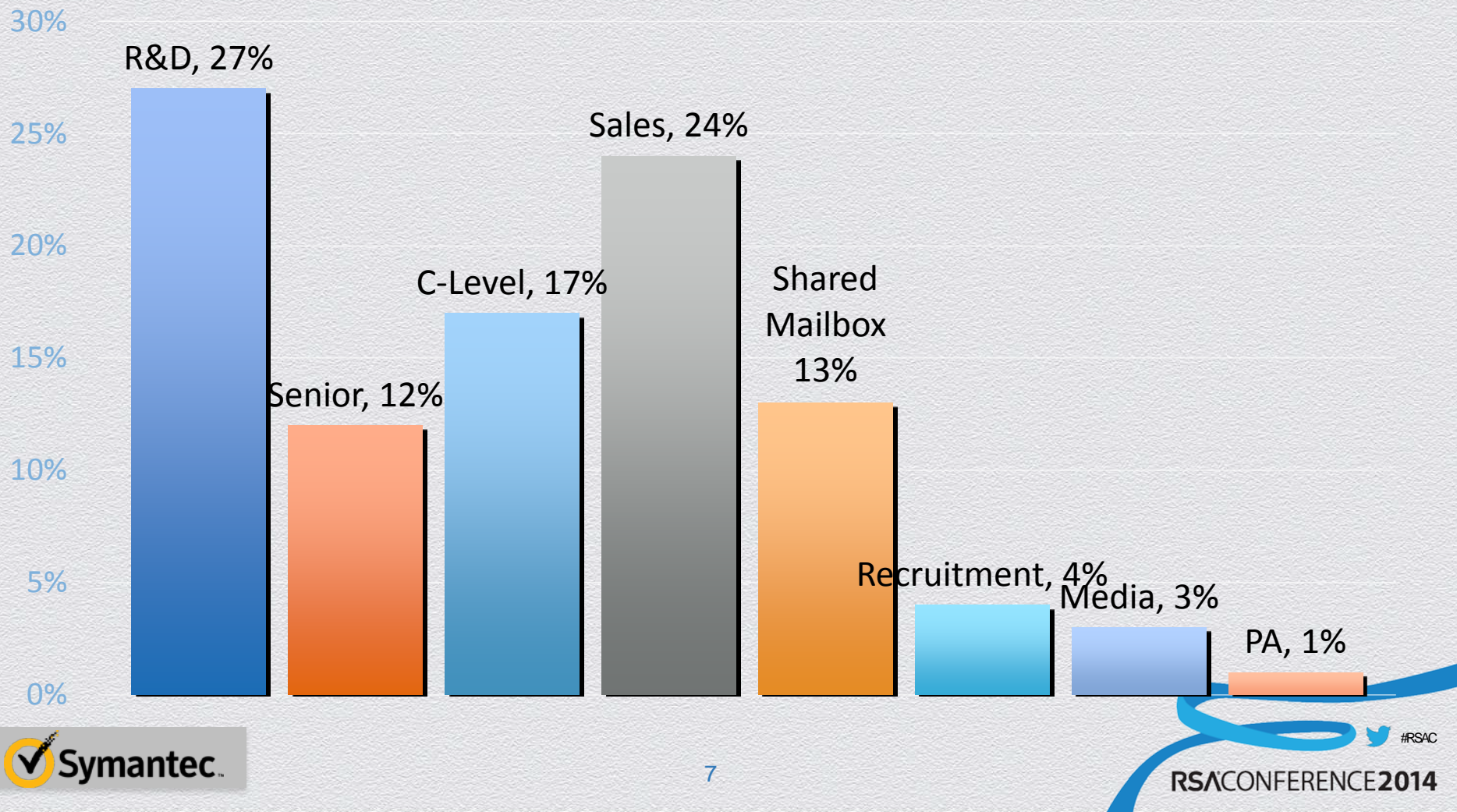
5%

251 to 500

31%

1 to 250







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**Organizations Are
Struggling to Keep Up**

Reliance on Silver Bullet Technologies

- ◆ A single point product won't identify all threats
- ◆ Most frequent Silver Bullet monitoring technologies:
 - ◆ IDP / IPS
 - ◆ Anomaly detection (on the rise)
- ◆ Individual technologies lack a comprehensive vantage point to detect today's threats.

32%

Average % of incidents detected by IDP / IPS technologies

Incomplete Enterprise Coverage

- ◆ Companies fail to effectively assess (and update) the scope of their Enterprise
- ◆ Enterprise technology trends further challenge scope
 - ◆ Mobile
 - ◆ Cloud
 - ◆ BYOD

Underestimate SIEM Complexity

- ◆ Companies frequently underestimate effort and cost to implement
 - ◆ Technical architecture frequently under scoped
 - ◆ Time to implement can take year+
- ◆ Struggle to sustain capability
 - ◆ Turnover of “the SIEM expert”
 - ◆ Focus / Expertise Required

72%

Collect 1TB of security data or more on a monthly basis

35%

Too many false positive responses

Lack of Sufficient Staff / Expertise

"CISOs have become accustomed to taking on more responsibilities without corresponding growth to their resource levels." – Forrester

"Recruitment specialists report increasing difficulty sourcing [information security] candidates." – Forrester

*"We're at 100% employment in IT security"
– Chief Security Officer Health Care Organization*

*"CISOs will not be able to hire their way out of security analytics problems"
– Enterprise Security Group, March 2013*

83%

of enterprise organizations say it's extremely difficult or somewhat difficult to recruit/hire security professionals

Can't Keep up with Global Threats

- ◆ Detection program must be evolve as threats evolves
 - ◆ Analyst training / awareness
 - ◆ SIEM tuning
 - ◆ Detection methods
 - ◆ Response tactics
- ◆ Varied tactics to keep up with threats:
 - ◆ Open source
 - ◆ Commercial

28%

Sophisticated security events have become too hard to detect for us

35%

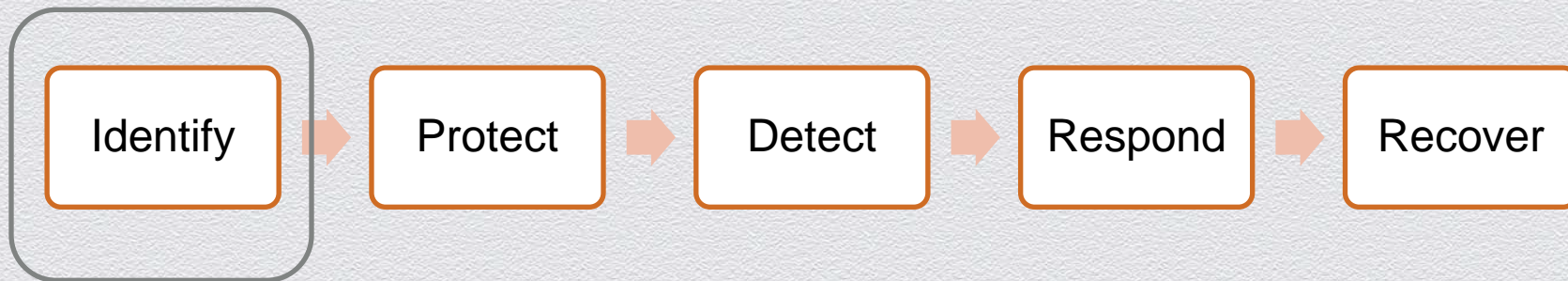
Do not use external threat intelligence for security analytics



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Stopping Targeted Attacks





Protect Against Targeted Attacks Today

Global Intelligence

Endpoint

Gateway

Data Center

An Example of Global Intelligence

7 Billion

File, URL & IP Classifications

1 Billion+

Devices Protected

2.5 Trillion

Rows of Security Telemetry

550

Threat Researchers

240 Million+

Contributing Users & Sensors

14

Operations & Response Centers

All Security Telemetry in One Place

File/user/site associations

- Hygiene
- Parent program
- File name/path

File hash

IP/URL

Machine ID

File heuristics

- Instruction use
- File structure
- Digital signature

File hash

Machine ID

Behavior heuristics

- Has a GUI
- Settings changes
- In program menu

File hash

IP/URL

Machine ID

Industry feeds

- Vendor A sent us this file

File hash

IP/URL

Machine ID

Spam/phishing traffic

- IP address Y sends spam

IP/URL

Network traffic

- IP source
- IP destination
- Vulnerability ID

File hash

IP/URL

Machine ID

SSL certification

- Domain
- Level of VeriSign SSL certification

IP/URL

Honeypot sensors

- Suspicious traffic from IP address X

File hash

IP/URL

Machine ID

Web site details

- Popularity
- PII fields
- Site age

IP/URL

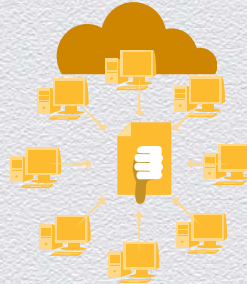
Machine ID

Endpoint



NETWORK

Block attacks before
they arrive on the
computer



REPUTATION

Automatically determine
safety of files and web
sites using the “wisdom of
crowds”



BEHAVIORS

Watch programs
as they run and
blocks
suspicious behaviors

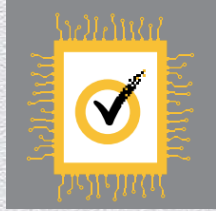
Gateway

Identify
Anomalies

Determine
the True
Destination
of a URL

Strip Active
Content
from
Attachments

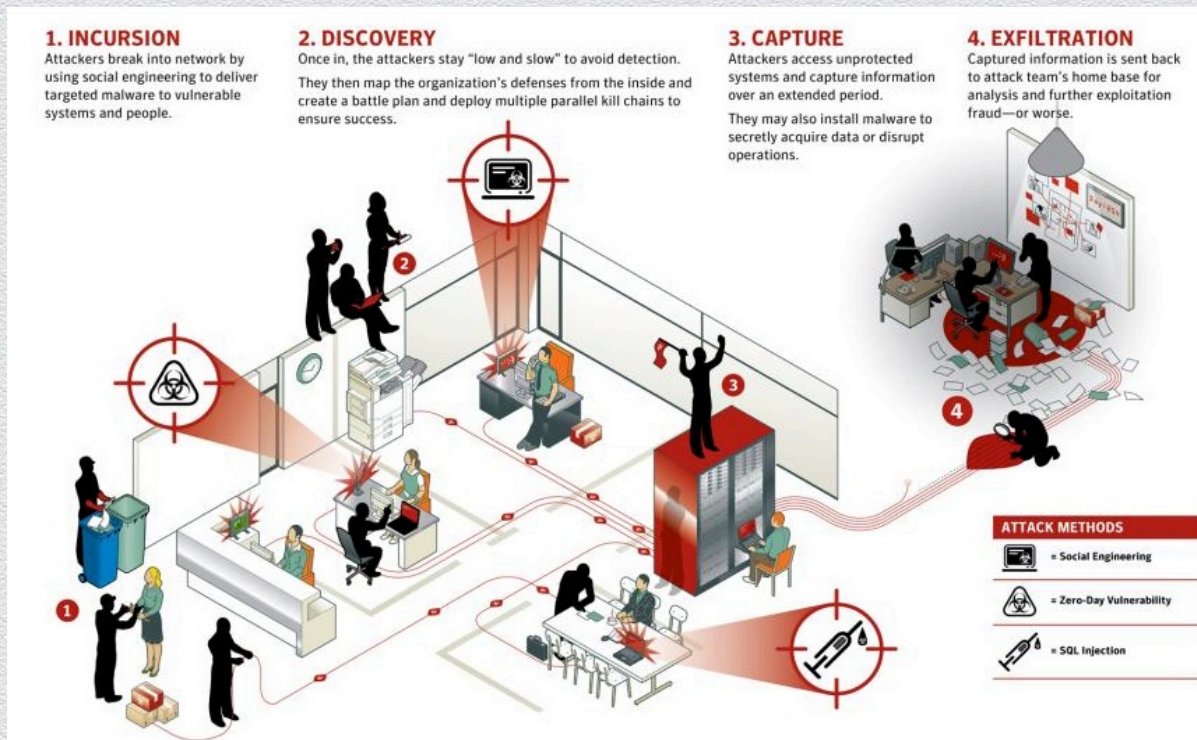
Data Center



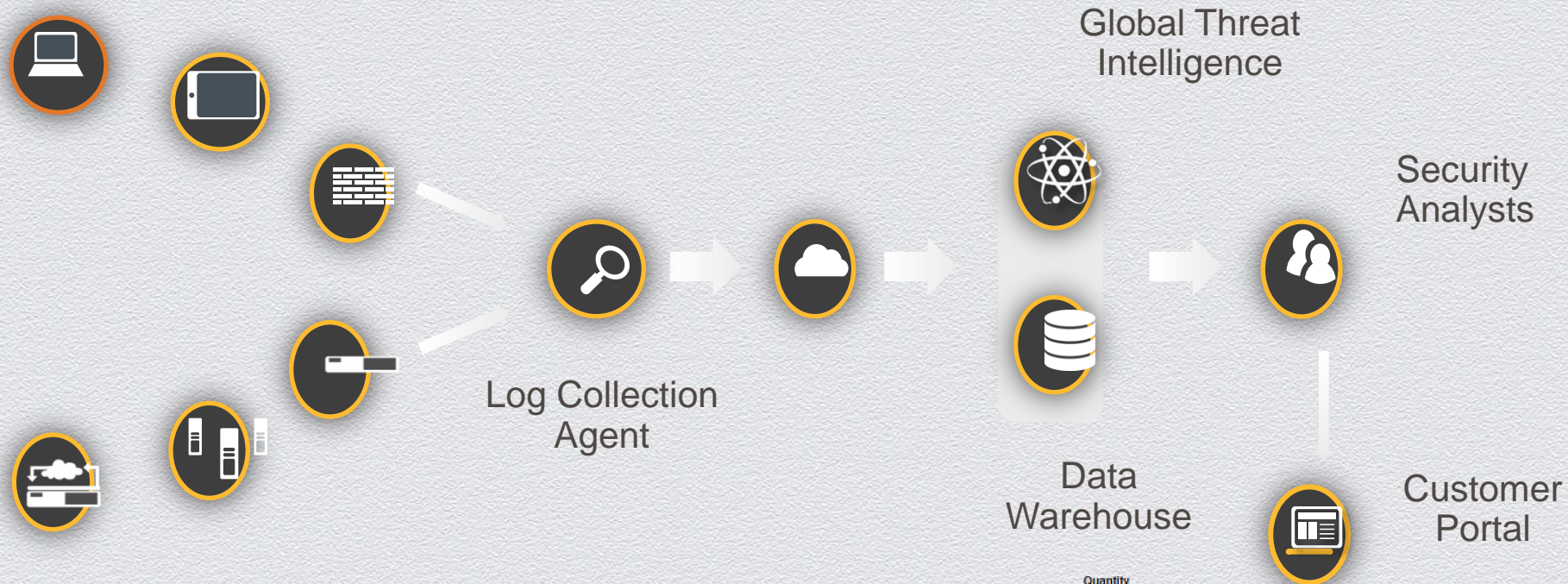
- ◆ Least Privilege Access Control
- ◆ File Integrity Monitoring
- ◆ Server Hardening



Targeted Attacks: How they Work

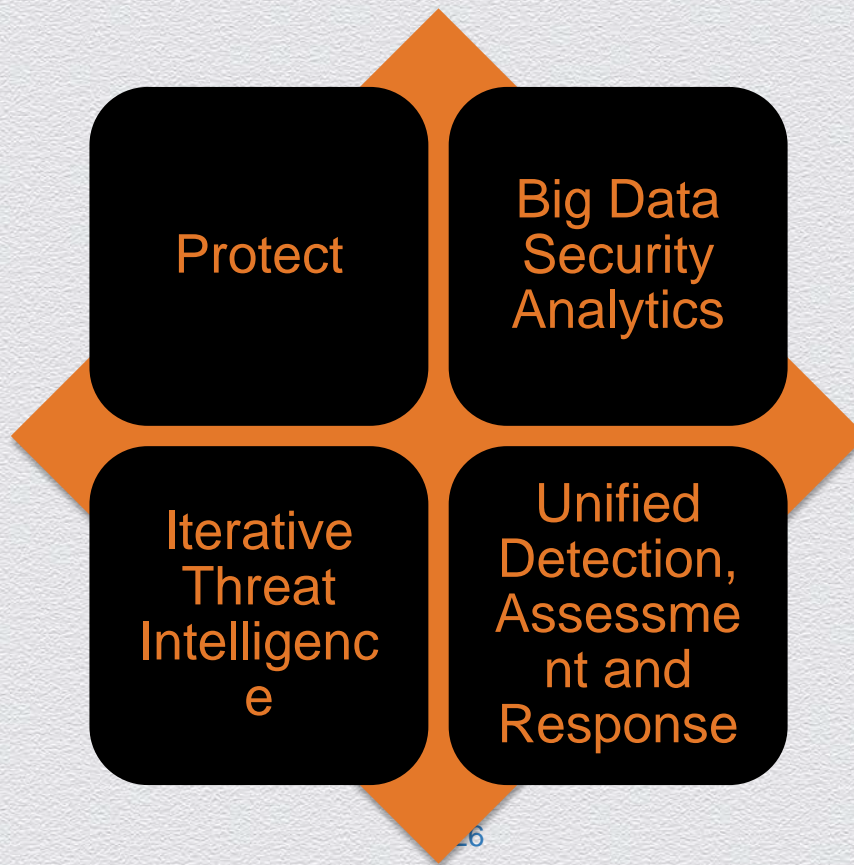


How Managed Security Services Works



	Quantity
Logs Received	2,995,155
Security Incidents Analyzed	13
Security Incidents Validated	3
Security Incidents Escalated	2

The Future of Detect & Respond







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**How Symantec Can
Help**

Managed Security Services

Global Intelligence

Endpoint

Gateway

Data Center





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Thank You!

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in North Hall Booth
#2803**