Ransomware Protection and how a Managed Security Service Provider can Protect Oil & Gas Retailers from Being the Next Target

Presenters:

Ajith Edakandi,

Director of Product Management & Marketing

HUGHES
An EchoStar Company

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Agenda

- Housekeeping
- Presenters
- About Conexxus
- Presentation
- Q & A

Housekeeping

This webinar is being recorded and will be made available in approximately 7 days.

- YouTube (youtube.com/conexxusonline)
- Website Link (conexxus.org)

Slide Deck

- Survey Link – Presentation provided at end

Participants

- Ask questions via webinar interface
- Please, no vendor specific questions
- Our webinars may be used toward PCI continuing education credits. Please contact arussell@conexxus.org for questions regarding a certificate of webinar attendance.

Email: **info@conexxus.org**

Presenters

Conexxus Host

Allie Russell
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Moderator

Kara Gunderson
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POS Manager, CITGO Petroleum
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Speakers

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About Conexxus

- We are an independent, non-profit, member driven technology organization
- We set standards…
  - Data exchange
  - Security
  - Mobile commerce
- We provide vision
  - Identify emerging tech/trends
- We advocate for our industry
  - Technology is policy

2020 Conexxus Webinar Schedule

Month/Date	Webinar Title	Speaker	Company
January 23, 2020	How to elevate your business through digital transformation	Dean Marier	Cybera
February 27, 2020	Progress in the “API Sprint”	Gray Taylor David Ezell	Conexxus Conexxus
March 18, 2020	Data Security Beyond PCI: Securing the Enterprise	Ed Adams Marc Punzirudu Kara Gunderson Sam Pfanstiel	Security Innovation ControlScan CITGO Petroleum ControlScan
April 2, 2020	Presentation by GS1	Liz Sertl	GS1
May 7, 2020	Breach response considerations for the convenience store and petroleum market	Todd McClelland	McDermott Will & Emery
July 16, 2020	How PCI Security Council Is Responding to COVID-19	Troy Leach	PCI SSC
July 30, 2020	Managed Network Service Providers: What you need to know		Joint MNSP’s

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2020 Conexxus Webinar Schedule

Month/Date	Webinar Title	Speaker	Company
August 27, 2020	How an Attacker Bypasses Network, Software & Physical Controls	Jeff Gibson Geoffrey Vaughan	ControlScan Security Innovation
September 24, 2020	Lessons Learned with IoT API Integration	Scott Cheek	SageNet
October 22, 2020	Ransomware Protection and how a Managed Security Service Provider can help Oil & Gas Retailers from being the next target	Ajith Edakandi	Hughes Network
November 12, 2020	Three Real-World Scenarios That Impact PCI Compliance	Rob Chapman	Cybera
November 19, 2020	A Step-by-Step approach to Automating Security Response in a Multi-Vendor Environment	Ash Swamy	Omega
December 3, 2020	EMV Webinar	TBD	TBD
January 2021	Securely Connecting Third-Party Vendors	Simon Gamble	Mako Networks

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Agenda

- Current Threat Landscape
- What can the traditional security services do and not do.
- What is Endpoint Protection
- Why do you need a Managed Service Provider
- How do you select the right MSSP

Cybercrime Up 600% This Year

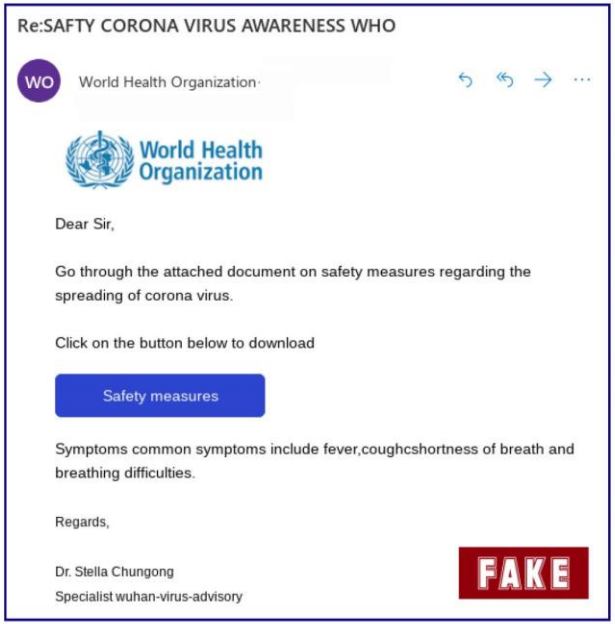
Typical Methods of attack

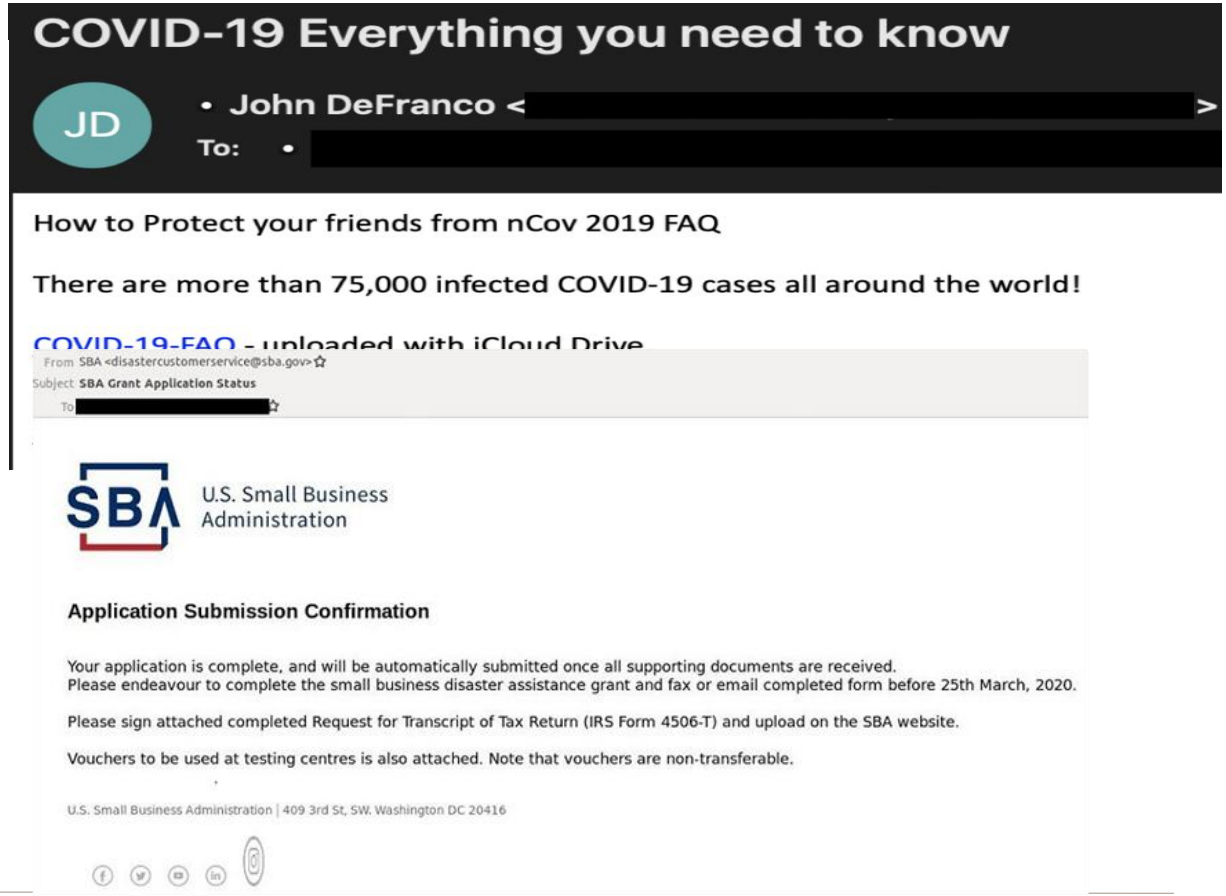
Social Engineering: tricks to fool you into downloading their malware from an attachment or URL.

Malvertising: Cybercriminals can place their ads on almost any website, even the most trustworthy sites. If you click on a malicious advertisement, you'll download ransomware onto your device.

Drive by downloads: Attackers can prime websites with malware so that when you visit, the site automatically and secretly downloads the malware onto your device.

Exploit kits: prewritten code designed to take advantage of vulnerabilities in applications, networks, or devices..





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Department of Treasury Releases Advisory on Potential Sanctions Risks for Facilitating Ransomware Payments

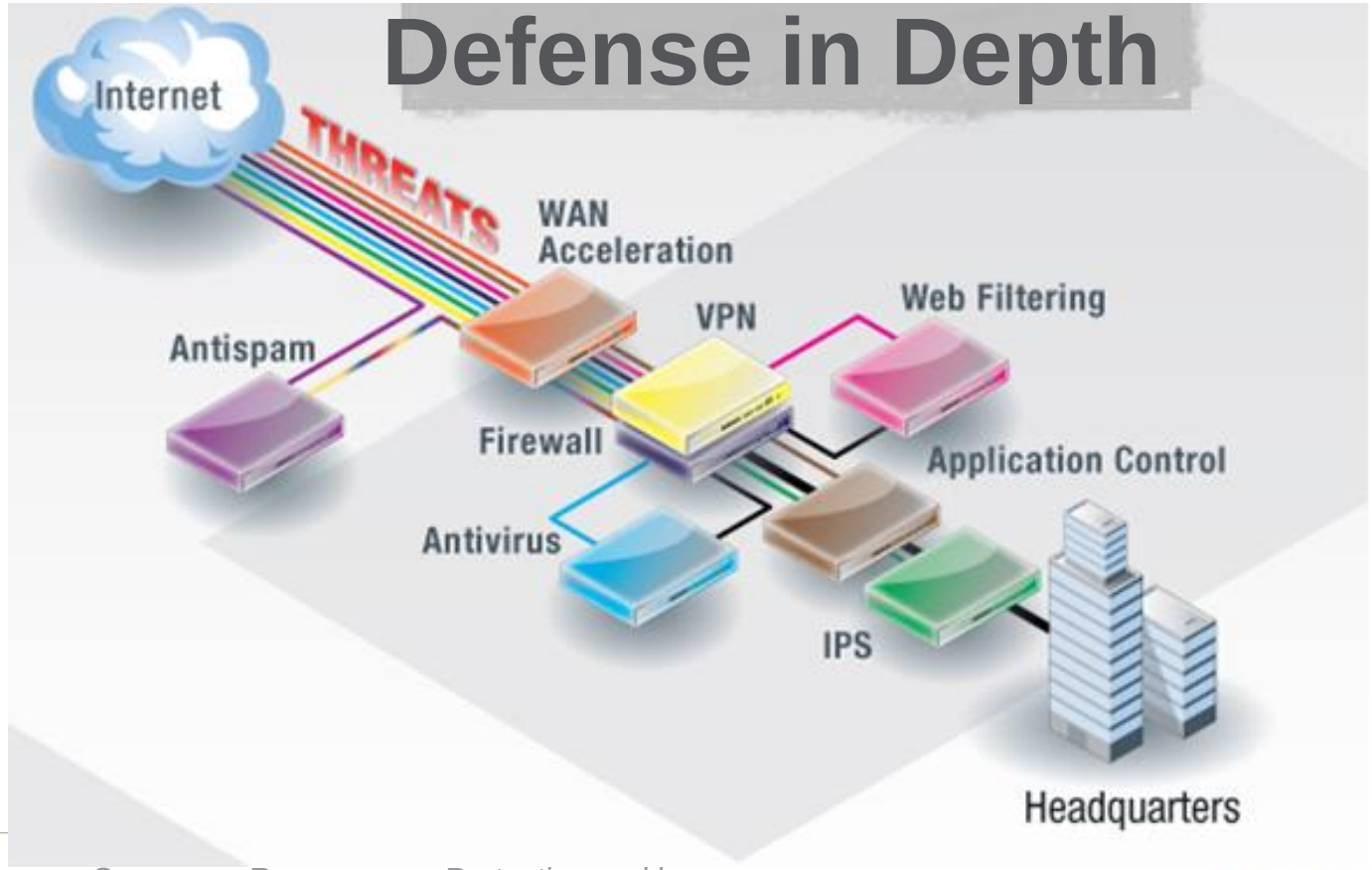
Original release date: October 02, 2020

Print Tweet Send Share

The U.S. Department of the Treasury's Office of Foreign Assets Control (OFAC) has released an [Advisory on Potential Sanctions Risks for Facilitating Ransomware Payments]. Financial institutions, cyber insurance firms, and companies that facilitate payments on behalf of victims may be violating OFAC regulations.

CISA encourages organizations to review the OFAC Advisory for more information. See CISA's Ransomware page for how to report and protect against ransomware attacks.

Defense in Depth



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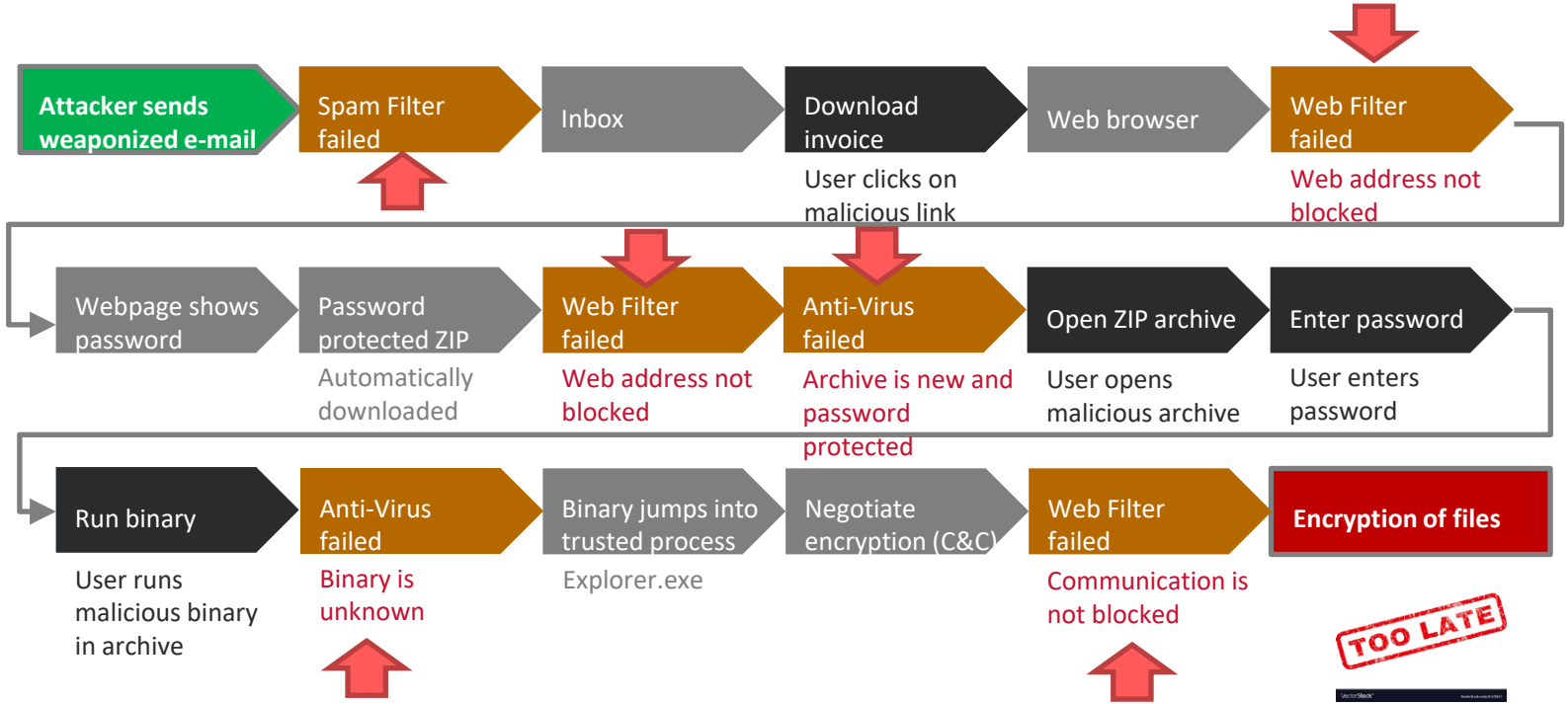
Ransomware Attack Example



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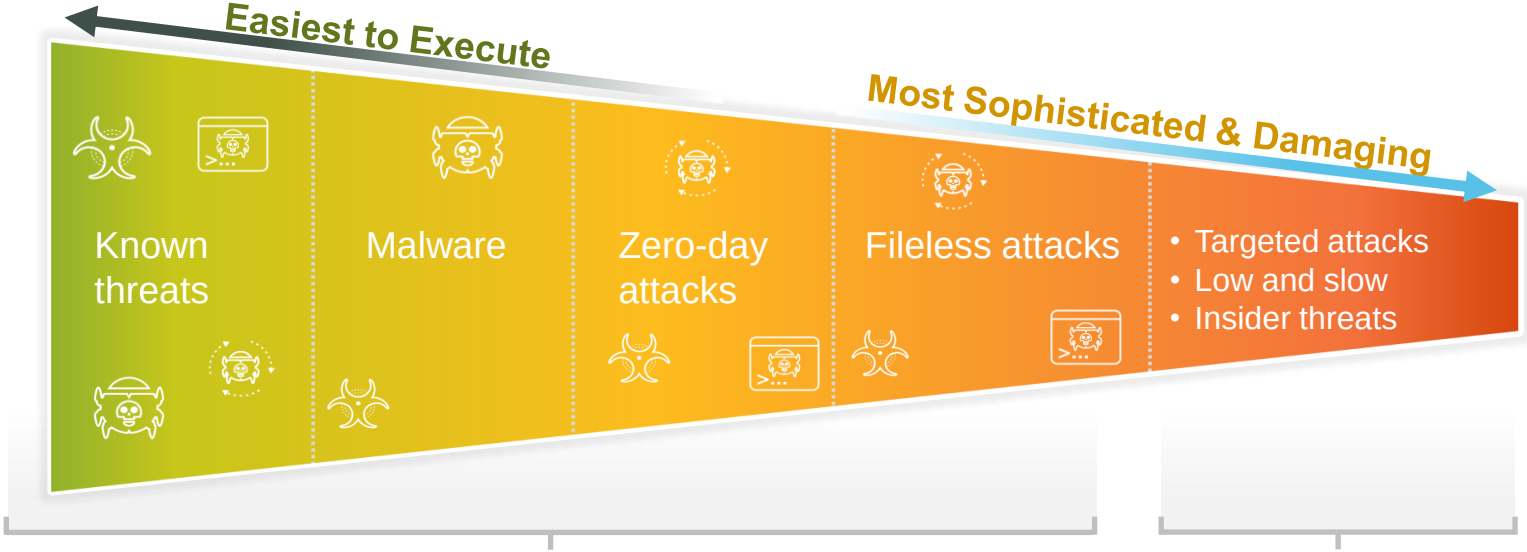
Current Attacks and Threats



99%+ of attacks can be prevented with the right tools

<1% require analysis over time & across layers with machine learning

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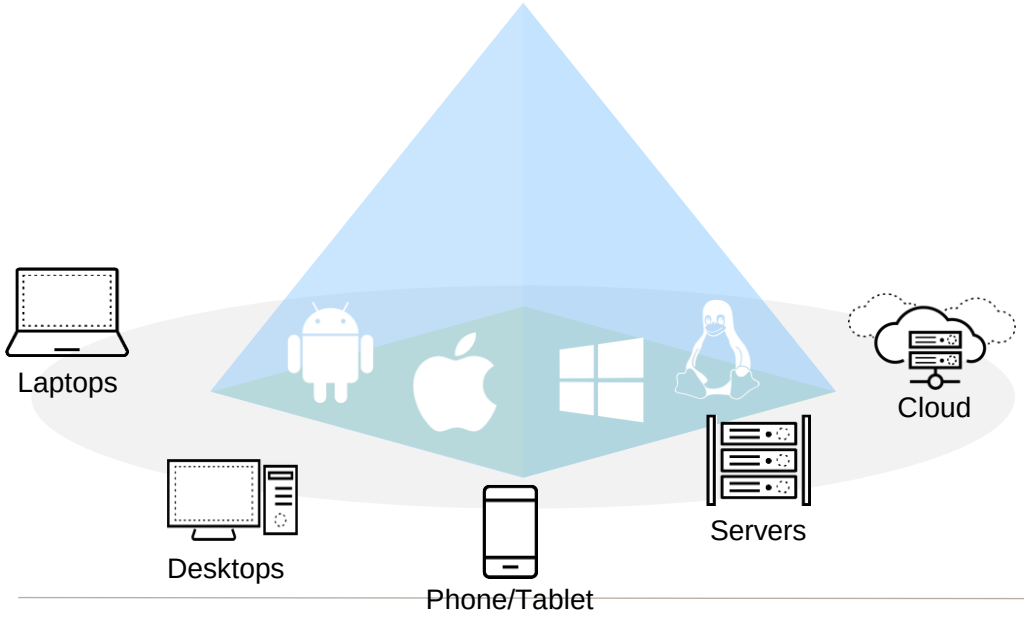
Endpoints



Users and devices exploited

Once penetrated the exploit propagates

Traditional security stack and event monitoring solutions might not detect it before its too late.

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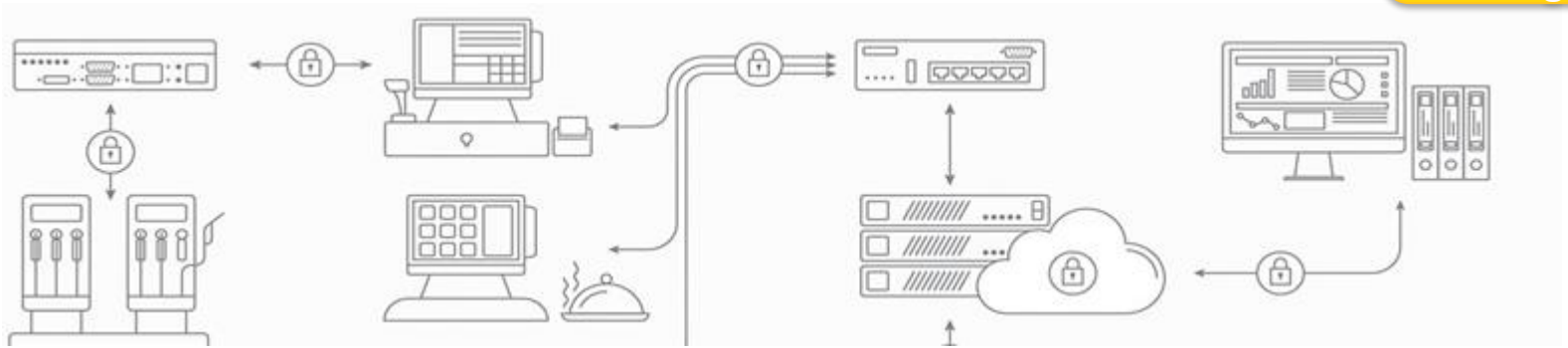
Retail Store Environment

Forecourt

POS/Kiosks

Routers

Backoffice Fuel Order Management



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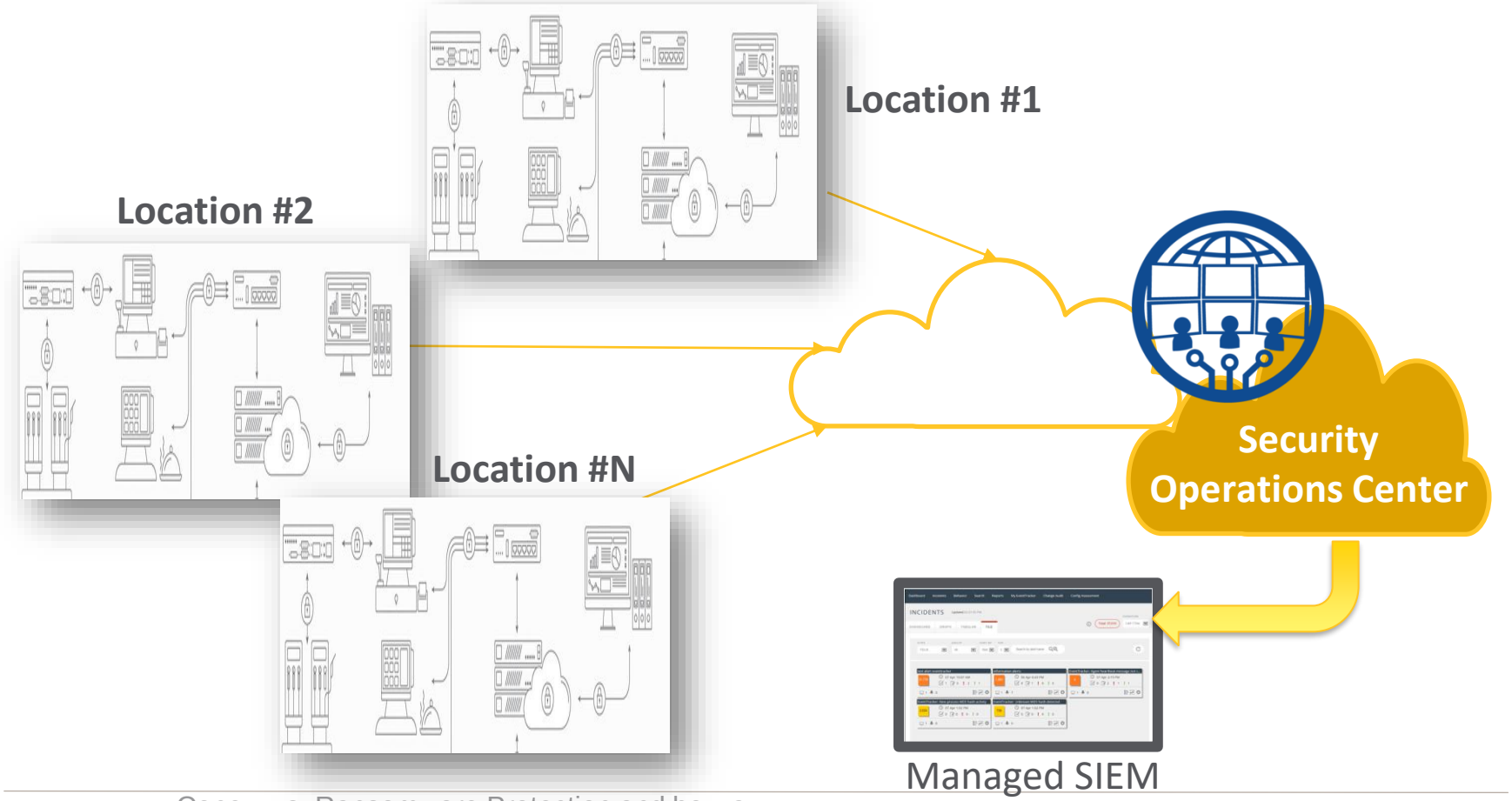
Gartner Category:

Endpoint Detection and Response (EDR)

- Solutions that have the following capabilities:

1. **Detect** security incidents at the endpoint
2. **Investigate** security incidents
3. **Contain** the incident
4. **Remediate** endpoints to a pre-infection state

> The endpoint detection and response (EDR) market is an emerging security technology created to ***continuously provide early identification*** of ongoing advanced attacks and to more rapidly respond to detected attacks.


Location #1
Location #2
Location #N
Security Operations Center
Managed SIEM

Key Features to look for in an Endpoint Solution

Prevention

to stop everything you can

AI & Machine Learning

to detect sophisticated attacks

Automation

to accelerate investigations

ACROSS NETWORK, ENDPOINT AND CLOUD DATA

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How do you select the right Service Provider

- 24x7 Managed Detection and Response
  - Augmented SOC (Security Operations Center)
- Relies on a Machine Learning (AI) Technology Leader
- Can Deliver Automated Remediation for Ransomware

THANK YOU

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