

Advanced Cyber Illness Treatmant

Davor Perat Senior Technology Consultant

Agenda

- 1
- Advanced Threat Protection Prevent advanced persistent threats
- 2 Advanced Threat Protection Identify suspicious files
- **3** Advanced Threat Protection Search for Indicators of Compromise
- 4 Advanced Threat Protection Block, isolate and remove the advanced persistent threats
- 5 Advanced Threat Protection Minimize environmental changes
- 6 Symantec Product Integration and Support
 - Additional Resources and Summary



Let's get started!

What are Advanced Threats ?



How They Work: Advanced Threats

1. INCURSION

Attackers brask into network by using sectal engineering to defiver largered maleare to vulnerable systems and people.

2. DISCOVERY

Once in, the attackers May "low and play" to avoid detection.

They them may the organization's defenses train the incide and create a battle plan and deploy multiple paraflel kill chains to ensure vectors.

3. CAPTURE

Attackers access unprotected systems and capitals information over an estended period.

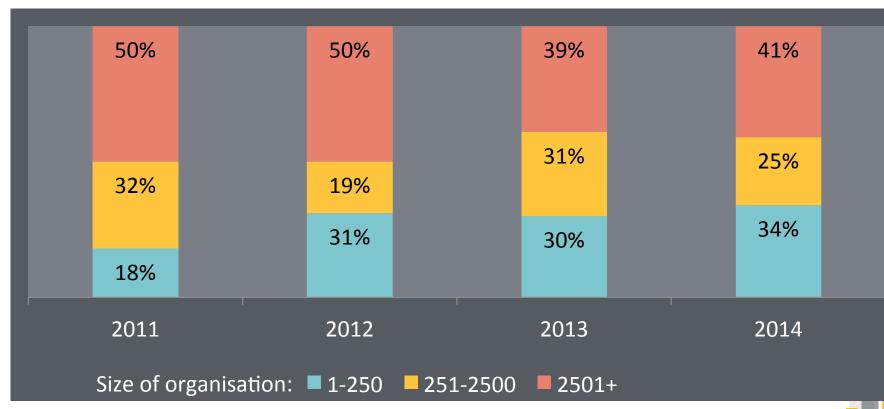
They may also statut malware to secretly ecours data or discupt operations.

4. EXFILTRATION

Captured information is sent back to attack learn's here base for analysis and further replaterion fraud-or works.



What the likelihood is of being a target



What the results are of being a target

Technically



66% Breaches

days or more



243

Is the average number of days before detection Months is the average time to remedy once detection has occurred

Copyright © 2014 Symantee

What the results are of being a target (continued)

Commercially



Resource

Opex Capex Legal Fees Time Money



Theft

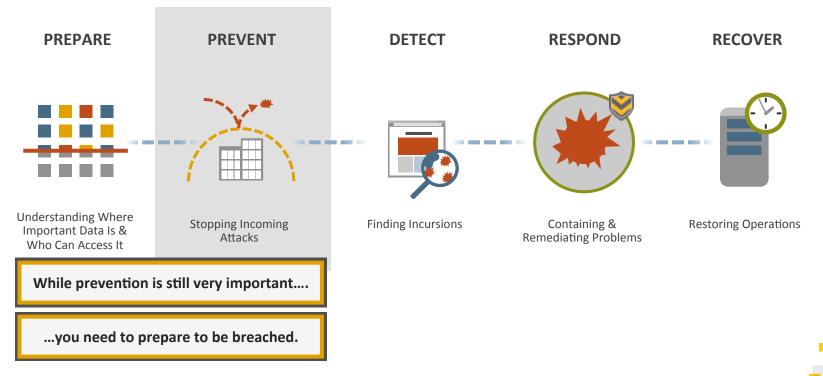
ntellectual Property Money Customer Data Employee Data



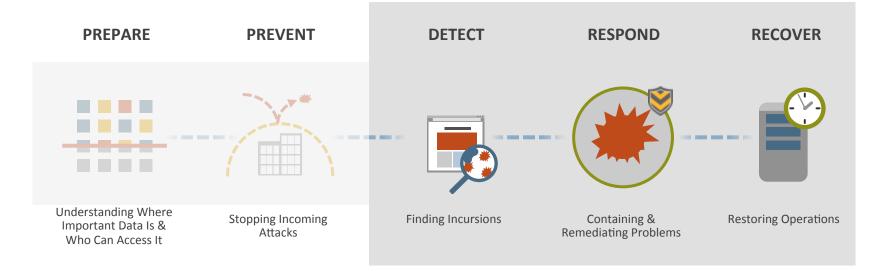
Reputation

Brand Reputation can be affected if a breach is reported in the press

Even with the best prevention technologies, can you stop advanced persistent threats?

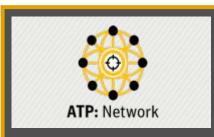


If you are breached, how fast can you detect, respond and recover?



ATP Solution: Identify suspicious files

Symantec Advanced Threat Protection: Modules



- Network visibility into all devices & all protocols
- Automated sandboxing, web exploits, command & control
- Deployed off a TAP or inline as virtual or physical appliance

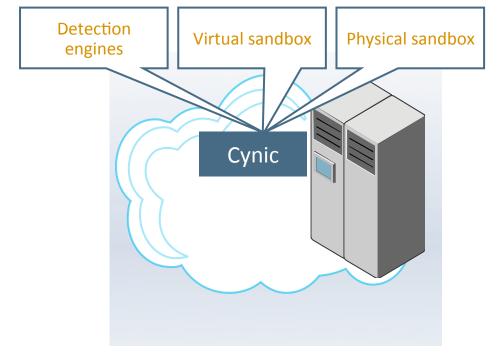


- Endpoint visibility (the foothold in most targeted attacks)
- Endpoint context, suspicious events, & remediation
- Requires SEP no new agent – and deployed as a virtual or physical appliance



- Email visibility (still the number one incursion vector)
- Email trends, targeted attack identification, sandboxing
- Cloud-based easy add on to Email Security.cloud

Symantec Advanced Threat Protection: Cynic







ATP: ENDPOINT

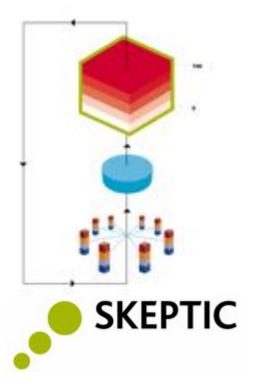


Cynic - File Types

- Windows binaries: EXE, DLL, SYS (drivers), OCX (ActiveX controls), SCR (Screen Savers)
- Office docs: Word, Excel, PowerPoint
- Java applets
- Compressed files (rar, zip, 7z)
- Adobe Acrobat



Skeptic: pseudo equation for heuristic analysis

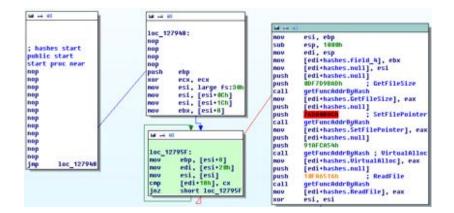


- Questionable source
- + Suspect Attachment
- + Suspicious code in attachment
- (+ Evidence of obfuscation)
- (+ Unexpected encryption)

Heuristically detected malcode

SONAR

- Dynamic analysis
- Does not make detections on application type, but on how a process behaves.
- If it behaves maliciously, regardless of its type, it will trigger a detection



Virtual Execution

- VM execution with mimicked end user behavior
- Range of OS and apps
- VM execution range of OS and applications
- VM communication analysis



Physical Execution

- Physical hardware
- Bare metal execution
 - No Virtualization



ATP Solution:

Search for Indicators of Compromise



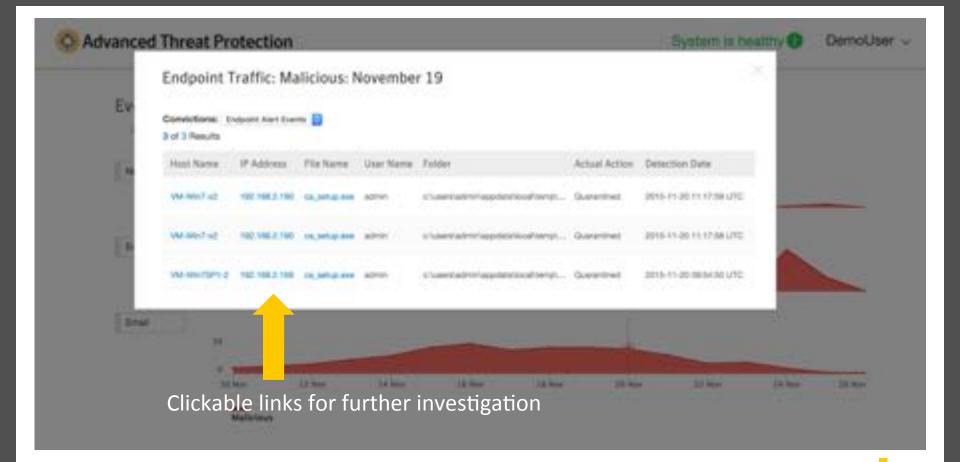




O Advanced Threat Protection

System is healthy
Demol





ca_setup.exe



f98bc99cb8160d4e7f19fb76410ca4fab37c3d3dbfef6123b54c6c...

ea2ef30c99ececb1eda9aa128631ff31

800

Not Signed

Unknown

File Overview 6 mil.rtm.tests

CTAIL HORISTON THE

Global Reputation Years ago

Local Reputation

Weeks ago

O DOLATED DECEMPTS

O DAMA DEPENDENCI OF

APTICAL RECTORES ADDRESS.

Tens of thousands of users

2 internal endpoints

Add to Blacklist

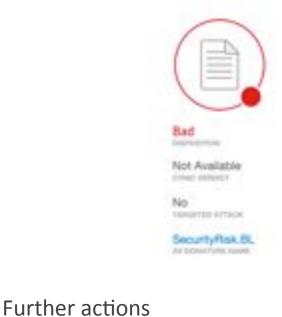


Submit to Cynic 🔠



Delete

ca_setup.exe



f98bc99cb8160d4e7f19fb76410ca4fab37c3d3dbfef6123b54c6c...

ea2ef30c99ececb1eda9aa128631ff31

800

Not Signed

Unknown

File Overview

CTARL MODERATION

Years ago

Weeks ago

PERCENT.

Global Reputation

Local Reputation

0

O DAMAGE DECISIONS

APTIMUM, RECEIPTED ADDRESS

Tens of thousands of users

2 internal endpoints

Add to Blacklist





Submit to VirusTotal

File Entity Image: State	File Entity page Related Incidents Related Events Seen on Endpoints Files downloaded Origins Files named associated with Hash Cynic Results
Domain Entity Page Related Incidents Files downloaded Endpoints that communicated IP's Associated with Domain	Domain Entity Omegan E
 Endpoint Entity Or revenue genteet Or hyper watering genteet Or hyper watering of the format of the format Add With the or My Compary day Charlet Word Hase Browsh Add 	Related Events

.



incidents Over Time

Incident

Manager

Share Filters V B of B Incidents

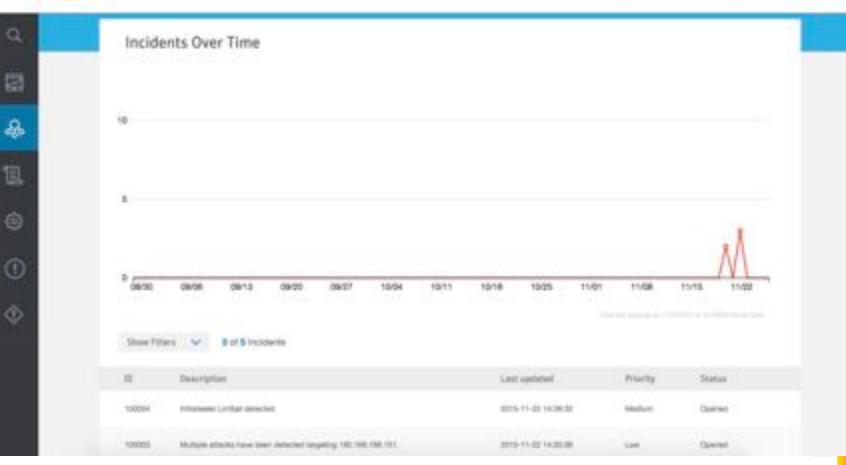
Lest updated Priority Status
arcs-11-dz 1x/36.00 Maintee Courses

yright C 2014 Symantec Corporati

26



Advanced Threat Protection



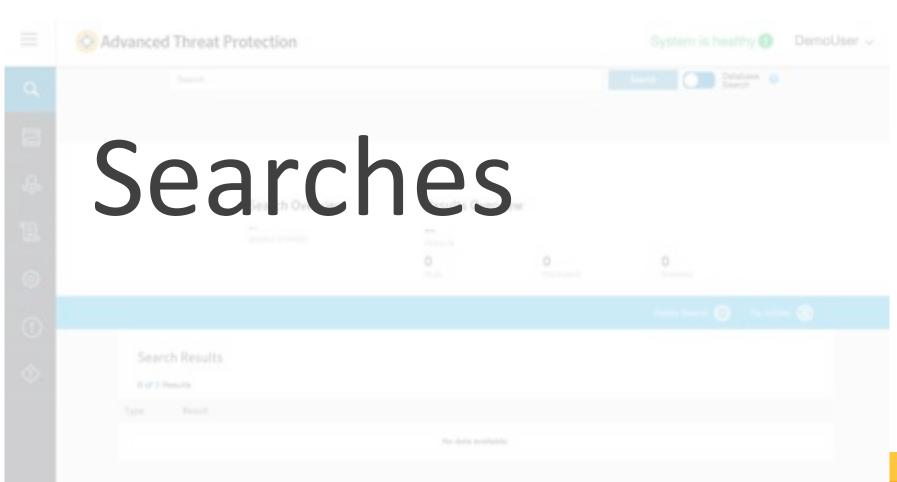
27

System is healthy ()

DemoUser 🤟

Incident Tracking

ID	Description	Last updated	Priority	Status
100004	infostaaler.Limital detected.	2015-11-22 14:38:32	Medium	Opened
100003	Multiple attacks have been detected targeting 192,168,168,168,151.	2015-11-22 14:20:38	Low	Opened
NODECE	Multiple attacks have been detected from imbad.com	2015-11-22 14:20:38	Low	Opened
100001	Multiple attacks have been detected targeting \$1,181,170,111.	2015-11-20 11.01.18	Line	Opened
100000	Multiple attacks have been detected from 103.224.119.106.	2015-11-20 11:01:16	Low	Opened



Types of Searches

- Inline (Datastore)
 - Searches local data store for artifacts
 - Seconds to return results
 - Artifacts are generated from endpoint and network sensor events
 - Examples (file, hash, domain name, hostname, username, IP)
 - PE File types (exe,dll,com,scr,msi,drv,sys,ocx,cpl)
- Endpoint Interrogation
 - Searches endpoint for artifacts
 - Results can be delayed based on factors
 - Examples (file, hash, registry)
 - All file types (PE, Non PE)

Searches

Files using

- File name
- File Hash (SHA256, MD5)

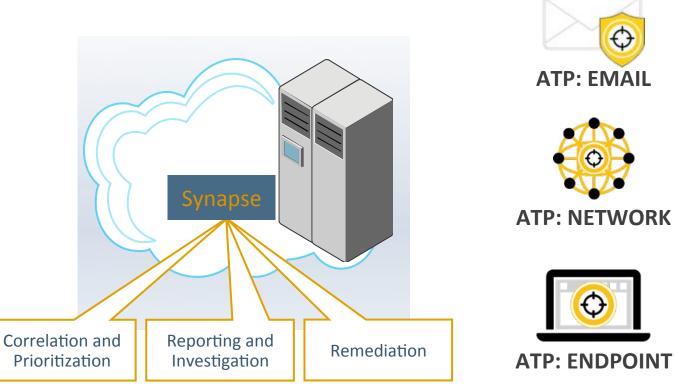
Endpoints using

- Host name
- IP Address (v4)
- Logon user

External domains using

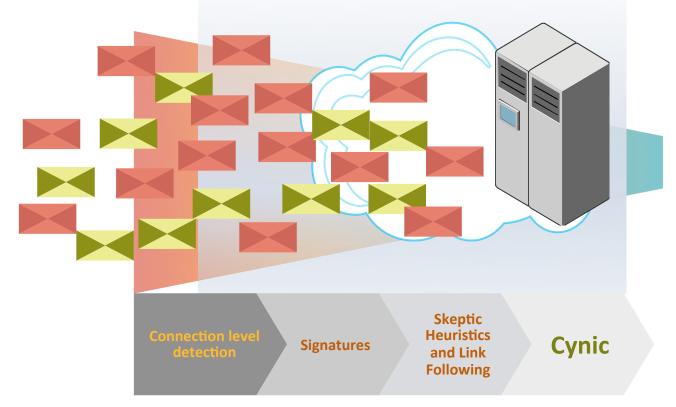
- Domain name
- Domain URL
- Domain IP address
- We check if the provided value is present anywhere in the above fields i.e. file name, MD5, sha2, hostname etc. i.e. contains match.

Symantec Advanced Threat Protection: Synapse



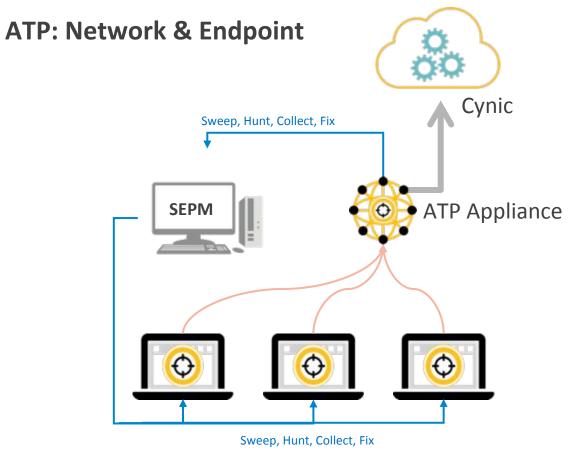
ATP Solution: Block, isolate and remove the advanced persistent threats

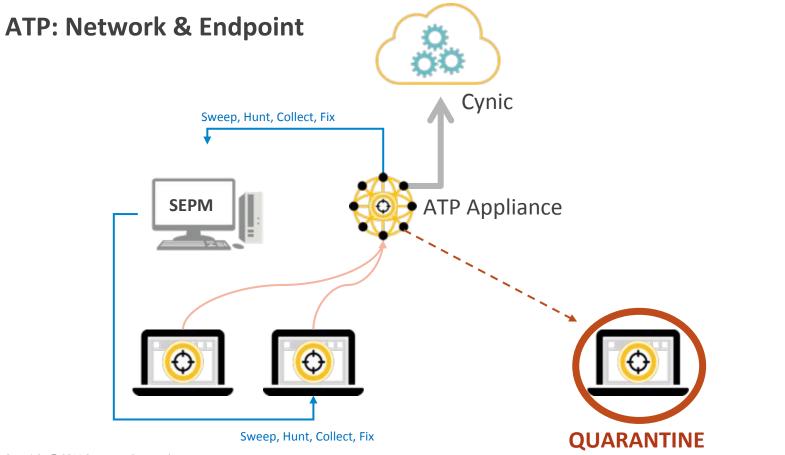
First line of defense: ATP: Email

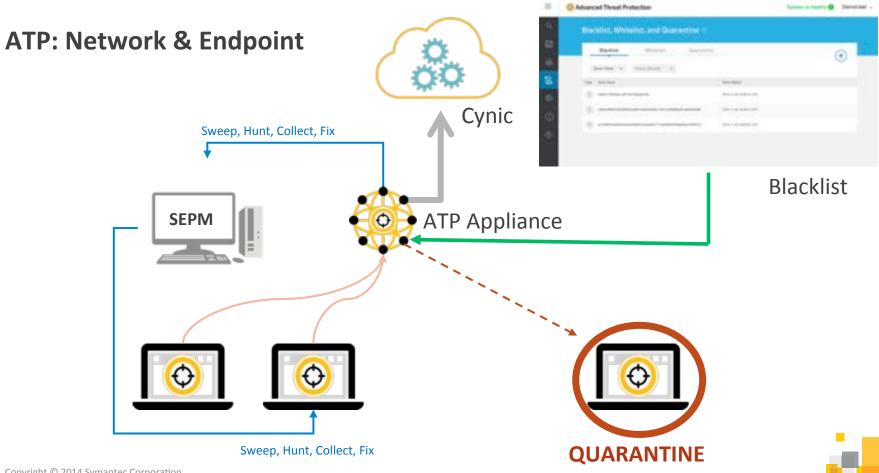


Anything without a verdict will be scanned by Cynic for a customer configured duration (≤ 20 mins)

Malicious mail is quarantined and logged as soon as a detection method flags it







Blacklist / Whitelist Valid Entries

Domain

www.google.com .gov.ca

URL

gov.ca/dmv http://stanford.edu/news http://gość.pl/a

IP/ IP Subnet

fe80::250:56ff:fe99:3903 10.10.10.10/24 10.10.10.10/255.255.255.0

SHA256 Hash

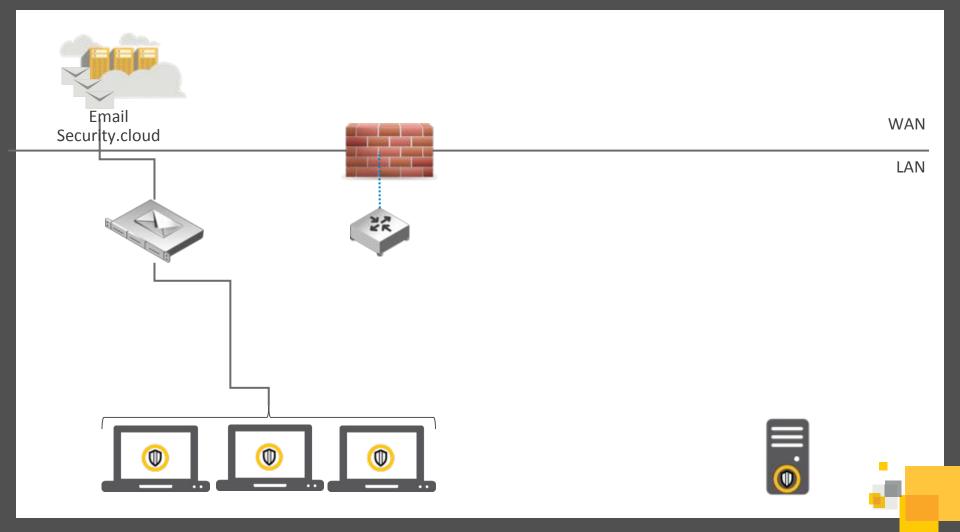
e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b854 MD5 hash

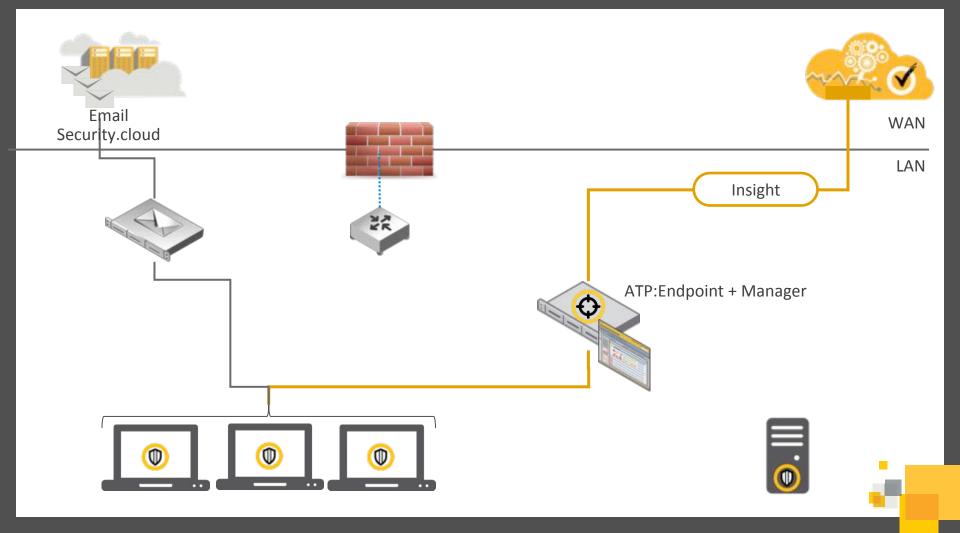
fe58cec593d7cdf2e0e9d13dfe1020b8

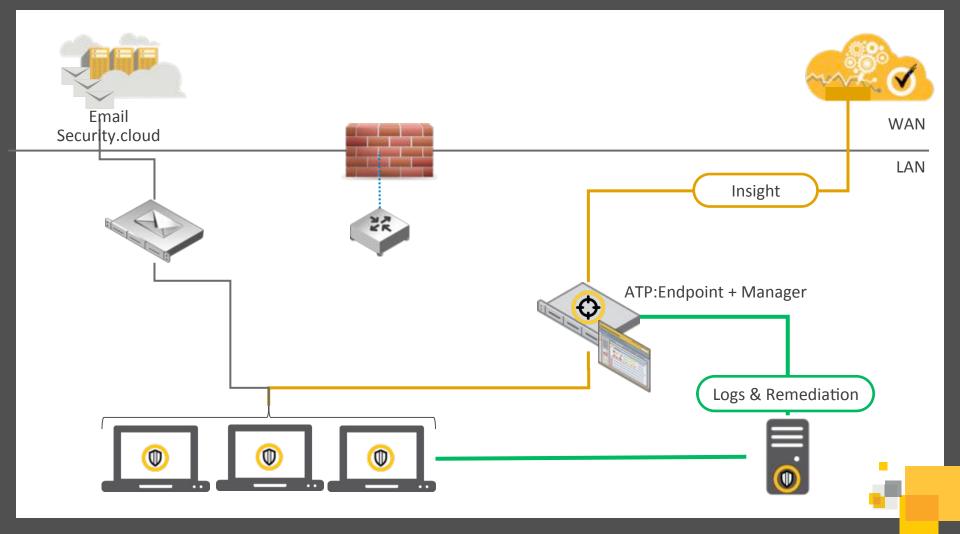
Copyright © 2014 Symantec Corporation

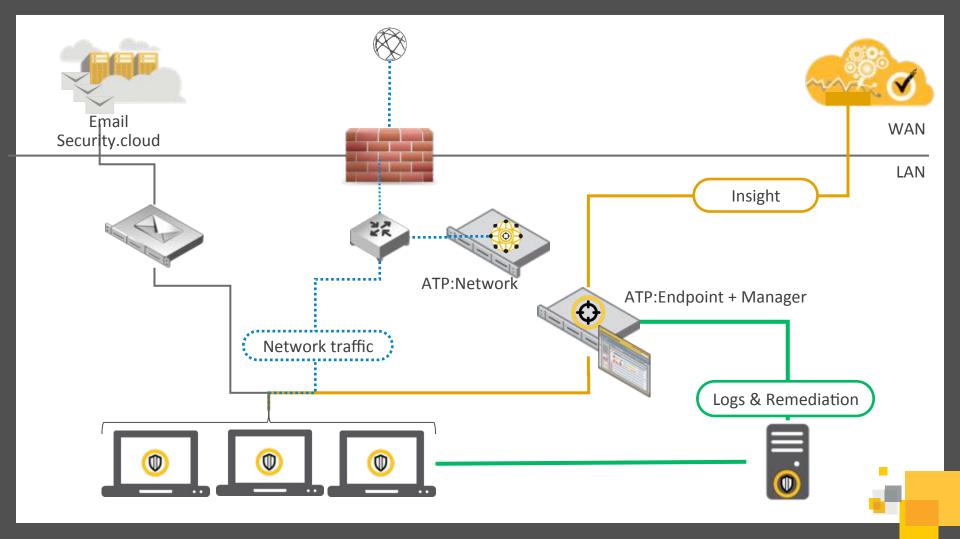
ATP Solution:

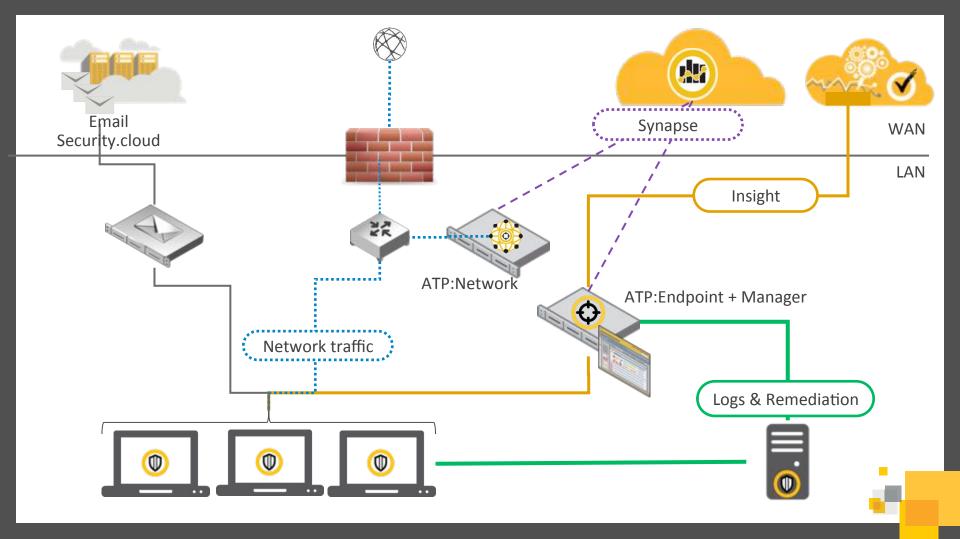
Minimize environmental changes

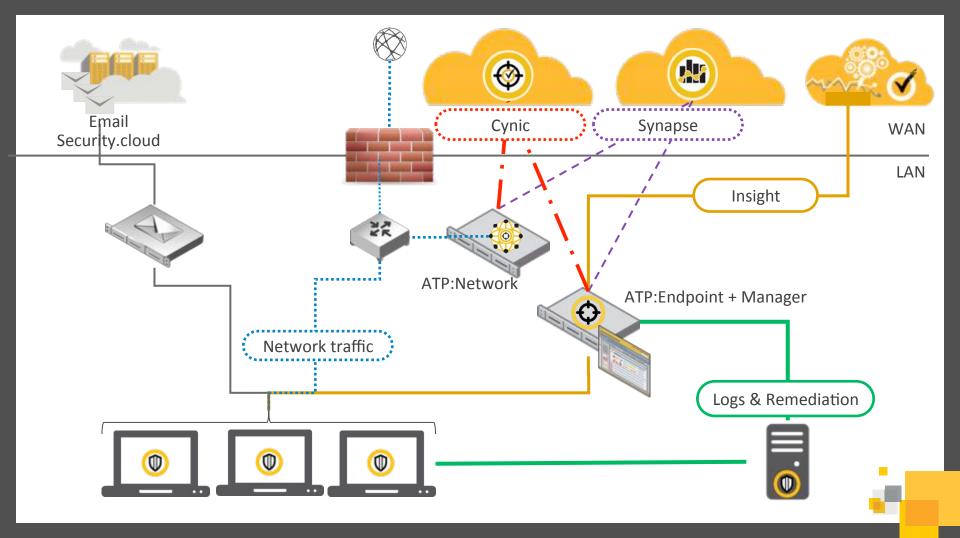


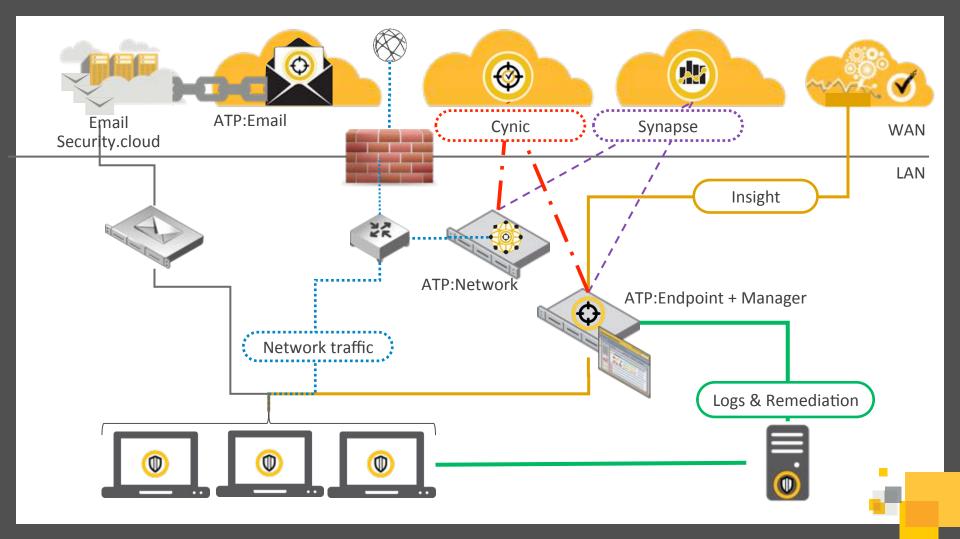


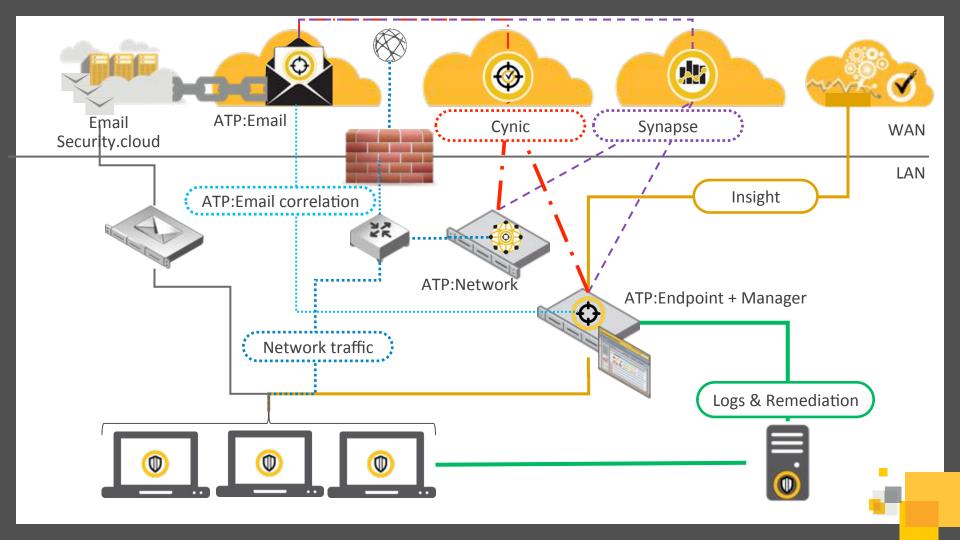




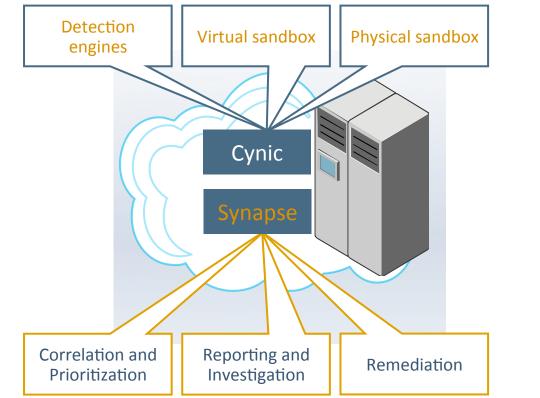


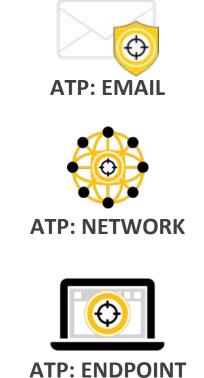






Symantec Advanced Threat Protection





Symantec Services

Helping you with all of your product needs

Symantec Technical Services Supports You



Symantec Education Services Offers Effective Product Training



Education Services

A broad range of training solutions to help you get the most out of Symantec products.

- Achieve expected value for your products.
- Learn how Symantec products can solve your business problems today and tomorrow.
- Gain best practice insight to keep your investments running smoothly long-term.
- For more information visit training.symantec.com

Services for ATP – more help, more success! What to sell and who to contact

Service	What it is	Available when?	Global Contacts	Website
Education Course Offering	ATP Incident Response Course available as Instructor Led Training or via Virtual Academy	Mid-2016	americas_education@symantec.com; emea_education@symantec.com; apj_education@symantec.com	Education Services website
BCS Premier for ATP	Symantec's premium Support Services offering, designed to simplify support, maximize return and protect IT infrastructure.	At Product GA	Contact BCS team members from the internal SAVO page or PartnerNet	BCS Contact Page
BCS Proactive Services for ATP	Review of customer's ATP configuration and initial reporting from ATP console	At Product GA	Contact BCS team members from the internal SAVO page or PartnerNet	BCS Contact Page
Consulting Services for ATP	On-site Implementation Services, Solution Assessment & Optimization & Residency Services	At Product GA	ask_consulting_americas@symantec.com ask_consulting_asiapacificjapan@symantec.com ask_consulting_emea@symantec.com	<u>Consulting website</u>

Additional Resources and Summary



RESOURCES

If you would like to know more about Advanced Threat Protection please visit: <u>https://www.symantec.com/advanced-threat-protection/</u>



SUMMARY

During this presentation we have discussed how Advanced Threat Protection enables a customer to prevent advanced persistent threats, identify suspicious files and search for Indicators of Compromise. We also learned how ATP can block, isolate and remove the advanced persistent threats while minimizing environmental changes by leveraging a company's existing Symantec security investment.

