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Cisco Advanced Malware Protection for Endpoints

Donald J Case BizCare, Inc. Saturday, May 19, 2018



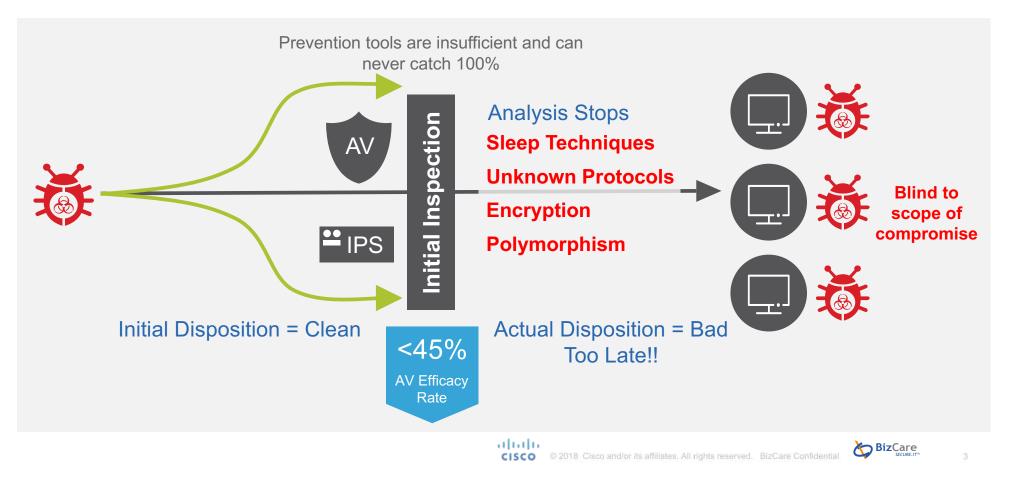
Every single attack that an organization experiences is either on an endpoint or it's headed there



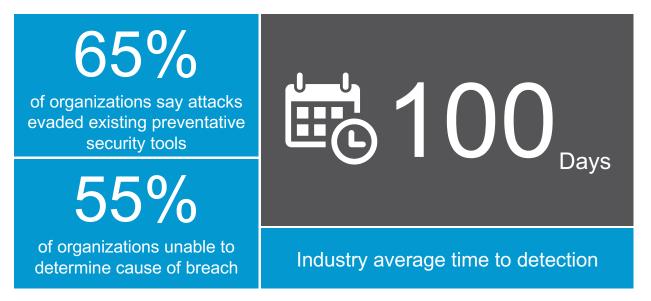




Malware is getting in. Prevention tools alone can't catch everything and provide limited visibility into threats once inside



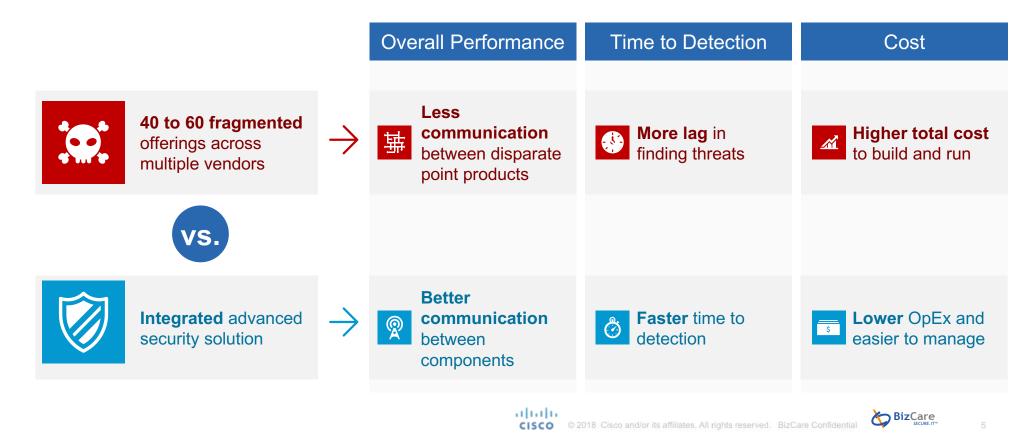
Failing Prevention Tools and No Visibility on the Endpoint Means Increased Time to Detection



-Source: 2016 Cisco Midyear Security Report; 2014: A Year of Mega Breaches, Ponemon Institute

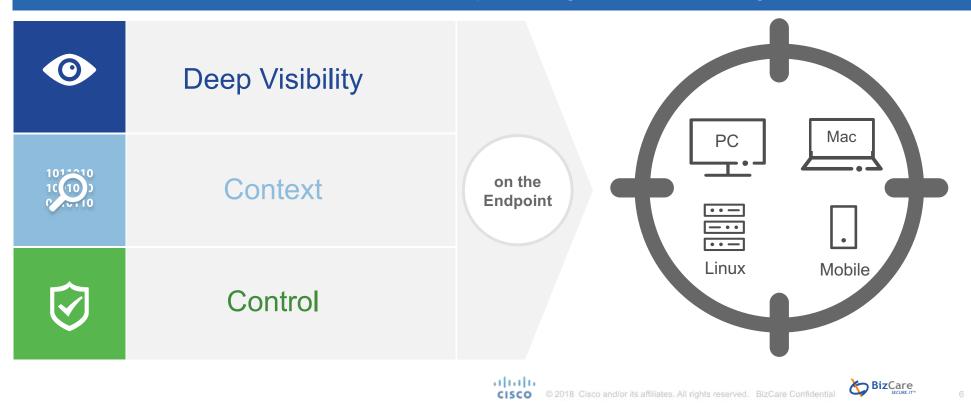


Complexity makes the problem worse. Juggling 40 to 60 disparate security point products slows you down, inhibits your ability to scope a compromise, and increases gaps in protection

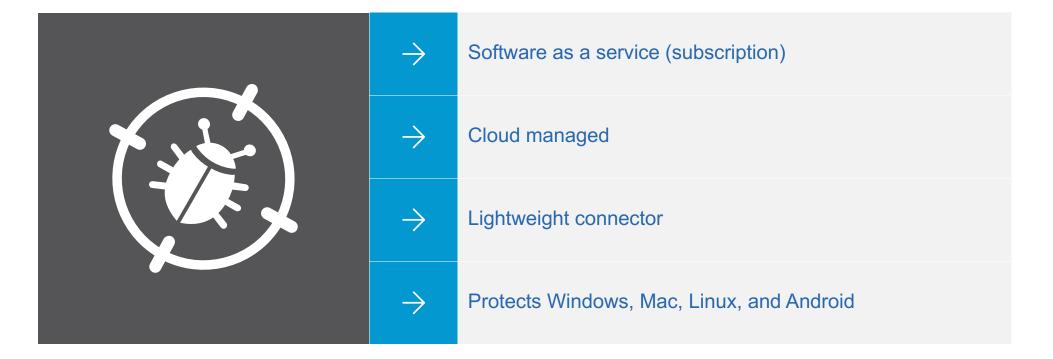


Our Philosophy

Malware will get in. You must prevent what you can, but you can never prevent 100% of attacks. So what's needed to protect against threats that get in?



What Is Cisco AMP for Endpoints?



AMP for Endpoints



Prevent attacks and block malware in real time



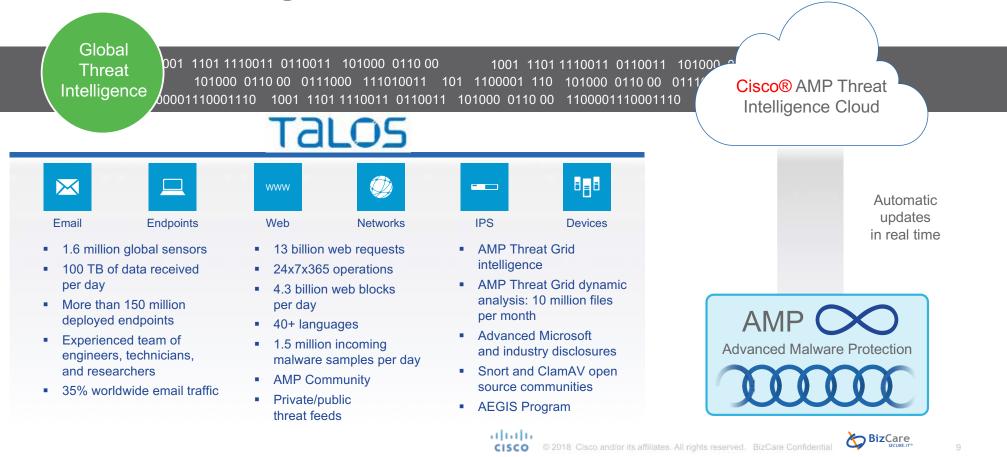
Continuously monitor for threats on your endpoints to decrease time to detection



Accelerate investigations and remediate faster and more effectively



Harden Your Defenses with the Best Global Threat Intelligence





Block Attacks at Point of Entry

AMP Delivers the First Line of Defense, Blocking Known and Emerging Threats

Automatically stop as many threats as possible, known and unknown, using a combination of cloud- and system-based prevention technologies

One-to-one signature



Fuzzy fingerprinting



Machine learning and rootkit scanning



Built-in antivirus detection engine



Static and dynamic analysis (sandboxing)

Offer better accuracy and dispositioning

Block known and emerging threats

Protect your business with no lag





Proactive Protection Tools

Close attack pathways, uncover stealthy malware, and reverse-analyze suspicious threats.

Vulnerabilities	VulnerabilitiesOur vulnerabilities feature shows you, across all of your endpoints, all the software on your system that's vulnerable to malicious attacks, so you can patch them and close any potential attack pathway.				
Low Prevalence	Our low prevalence feature shows you applications on endpoints that are flying under the radar, and lets you take a closer look to see if there's any malicious behavior happening.	Prevalence			
Built-In Sandboxing	Built-in sandboxing capabilities powered by Threat Grid let you submit a file for analysis against over 700 behavioral indicators so you can see what that file is trying to do and if it's bad. Then AMP will automatically block and quarantine the file.	Behavioral Indicators Process Modified a File in a System Directory Process Modified at Executable File Process Created at Executable in a User Directory Process Modified File in a User Directory Potential Code Injection Detected PE Has Sections Marked Executable and Writable			



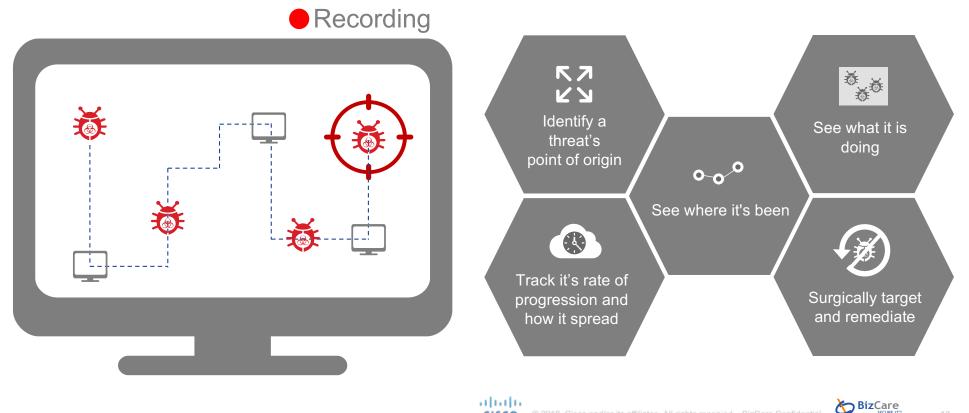


But Prevention Alone Will Never Be 100% Effective

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Continuous Analysis and Retrospective Security AMP for Endpoints Continuously Monitors, Records, and Analyzes All File Activity, Regardless of Disposition, to catch threats that got in





If Something Gets in, Continuous Analysis and Retrospective Security Helps You Find Answers to the Most Pressing Security Questions



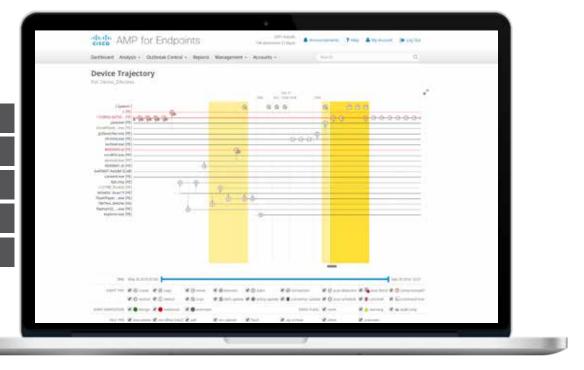
What happened?

Where did the malware come from?

Where has the malware been?

What is it doing?

How do we stop it?





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Agentless Detection Our Cognitive Threat Analytics (CTA) Integration Helps You See Threats on Endpoints Without an Agent Installed





Get visibility into devices where you can't install an AMP for Endpoints connector



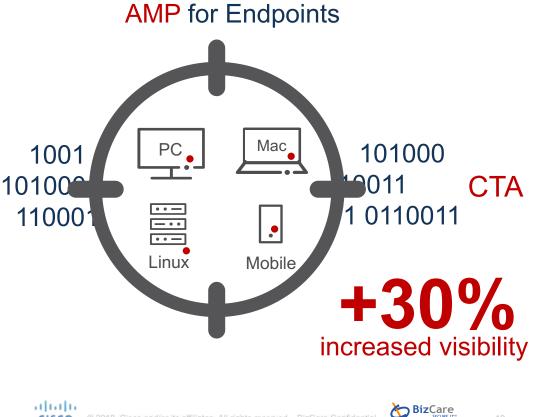
See more malware than before, like fileless or memory-only malware and infections that live in a web browser only



Catch malware before it compromises the OS level



Investigations are easier and faster because all detections and threat information are shown in the AMP for Endpoints console



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Recent Innovations



Cognitive Threat Analytics (CTA) Integration

Get agentless detection when AMP for Endpoints is deployed alongside a compatible web proxy, like Cisco WSA or Blue Coat ProxySG. See an average 30% more infections across your environment; uncover file-less or memory-only malware; catch malware before it compromises the OS-level; get visibility into devices with no AMP connector installed; all managed from the AMP for Endpoints management console.



Built-in AV Detection Engine

We've always provided malware blocking at point-of-entry inspection. Now we encourage customers to turn on our built-in AV engine to perform offline and system-based detections including rootkit scanning to complement Cisco's advanced endpoint protection capabilities. The engine can be enabled and used by customers that want to consolidate their antivirus and advanced endpoint protection in one agent.



New Dashboard UI

Our updated user interface allows customers to better assess the health and state of their security deployment, and ensures a more streamlined management, faster incident response, and improved workflow to triage, manage and respond to possible breaches.



Command Line Visibility

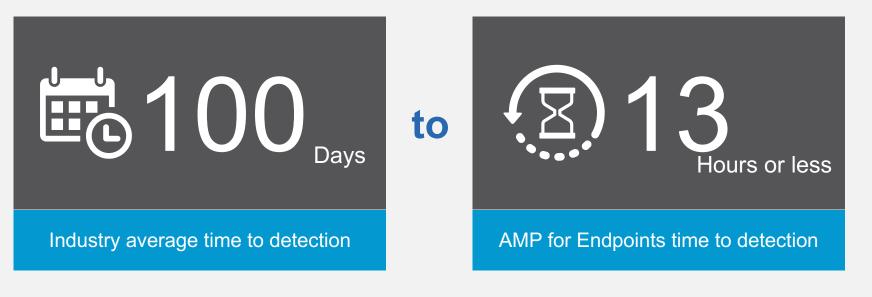
Get visibility into what command lines arguments are used to launch executables to determine if legitimate applications, including Windows utilities, are being used for malicious purposes. For instance, see if vssadmin is being used to delete shadow copies or disable safe boots; see PowerShell-based exploits; see into privilege escalation, modifications of access control lists (ACLs), and attempts to enumerate systems.



Improved Endpoint Search

A simple interface to easily and quickly search across all endpoints looking for artifacts left behind as part of the malware ecosystem, extending search capabilities beyond data stored in the cloud to the endpoint itself.

AMP for Endpoints Decreases Time to Detection



Source: 2016 Cisco Midyear Security Report





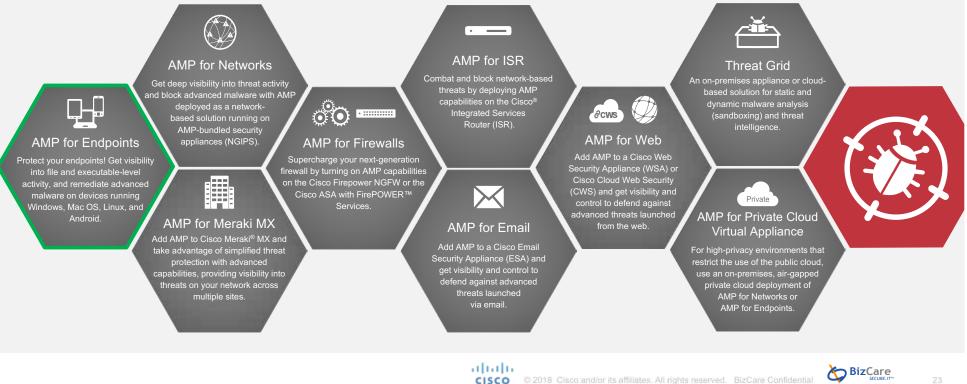
Demo

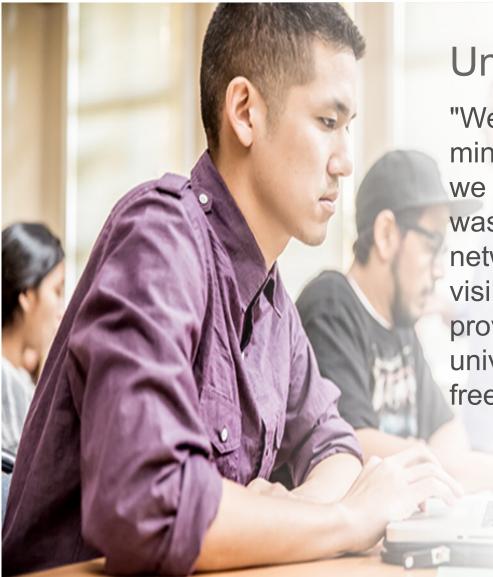
	Outbreak Control - Repor	rts Management ~	Accounts ~	Search		Ο.)
Dashboard New Dashboard Den Dashboard Inbox	no Overview Events Heat N	Мар				
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See More and Respond Faster with AMP **Everywhere's Integrated Threat Defense**

Get visibility and control across all attack vectors to defend against today's most advanced threats.





University Testimonial

"We received a malware alert. Within a few minutes in the AMP for Endpoints console we were able to determine the malware was using prohibited websites to mask its network traffic. AMP provides us the visibility and control on our endpoints to provide the IT security needs of the university without inhibiting academic freedom and research."

> *Tim McGuffin, Information Security Officer, Sam Houston State University*

> > Video Testimonial



Bank Testimonial

"One of the most successful stories we've had is AMP for Endpoints. We brought it in... and it immediately started solving problems for us."

Dan Polly, VP Enterprise Information Security Officer First Financial Bank

Video Testimonial

Cisco AMP is the Leader in Security Effectiveness with Fastest Time to Detection

NSS Breach Detection and Time to Detection Test Results for Cisco

Product					each on Rate¹	NSS-Tested Throughput		
Cisco Firepower 8120 with NGIPS v6.0 and Advanced Malware Protection				100	0.0%	1,000 Mbps		
False Positives	Drive-by Exploits	Social Exploits	HTTP Malware	SMTP Malware	Offline Infections	Evasions	Stability & Reliability	
0.33%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	PASS	

Detection Time Scoring									
Time to Detect	Product A	Cisco	Product B	Product C	Product D	Product	Product F	Product G	Product H
<1min	44.40%	67.00%	0.60%	48.90%	46.20%	5.50%	7.30%	6,50%	3.60%
<3min	75.90%	91.80%	2.90%	88.70%	84.20%	31.30%	17.90%	17.10%	26.70%
<5min	86.60%	96.30%	6.50%	91.00%	88.40%	47.80%	27.60%	27.00%	66.20%
<10min	97.40%	96.60%	15.20%	95.60%	91.30%	85.00%	43.10%	42.50%	90.10%
<30min	97.90%	97.10%	85.80%	98.50%	93.10%	96.90%	76.40%	75.40%	94.00%
<60min	98.20%	97.90%	90.80%	98.70%	93.10%	98.20%	97.90%	89.20%	96.30%
<120min	98.50%	98.50%	90.80%	98.90%	94.30%	98.40%	98.50%	89.70%	96.60%
<240min	98.90%	99,20%	91.60%	99.00%	97.60%	98.90%	98.50%	89.70%	96:80%
<480min	99.00%	99.40%	95.80%	99.00%	98.70%	99.40%	98.90%	90.00%	99.70%
<720min	99.20%	99.70%	96.40%	99.40%	98.70%	99,50%	98.90%	90,10%	99.80%
<1080min	99.40%	99.80%	96.80%	99,40%	98.70%	99.80%	98.90%	90.10%	99.80%
<1440min	99.40%	100.00%	96.80%	99,40%	99.00%	100.00%	98.90%	90.10%	99.80%
Overall Detection Score	99.40%	100.00%	96.80%	99.40%	99.00%	100.00%	98.90%	90.10%	99.80%



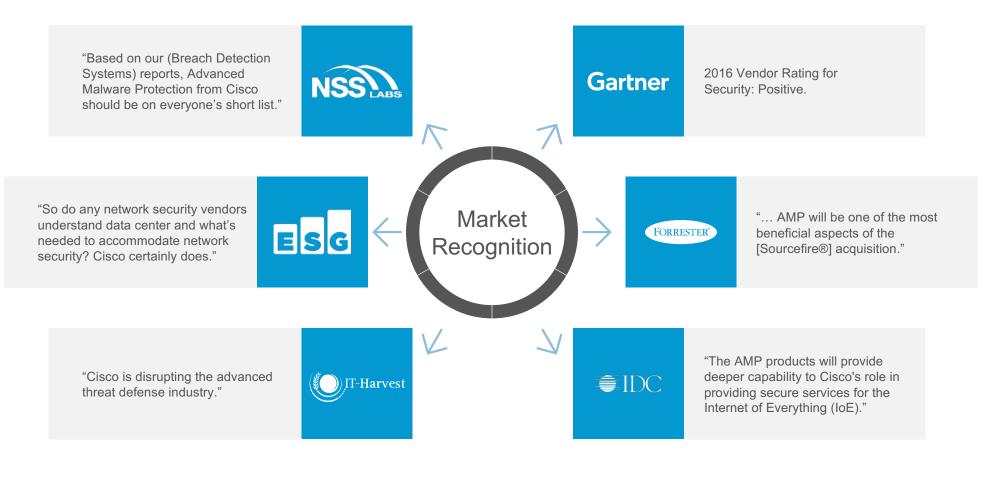
- The leader for the 3rd year in a row in the BDS test – detecting 100% of malware, exploits & evasions.
- Faster time to detection than any other vendor blocking 91.8% of attacks in < 3 minutes
- Products with faster detection rates get to green numbers faster moving from top to bottom.
- Products may have the same Overall Detection Score at the bottom, but those with the faster time to detection are more effective – giving attackers less time and space to operate.



= > 90% = 80 - 89% = 60 - 79% = 40 - 59% = < 40%

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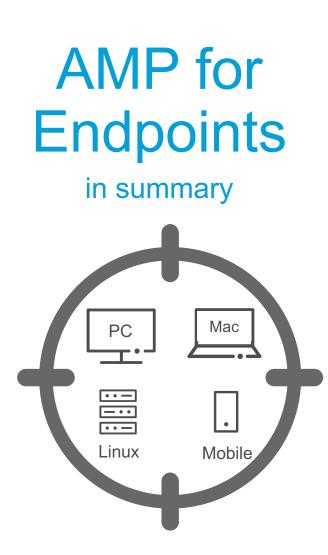




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Appendix Slides

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- Prevention, Monitoring + Detection, Response
- Deep Visibility, Context, and Control if something gets in
- Continuous Analysis of File Behavior and Retrospective Security
- Turn on our AV detection engine in AMP for Endpoints to consolidate agents
- Containment and quarantine on endpoint
- Built-in sandbox powered by Threat Grid
- Open APIs for seamless integration
- Agentless protection via CTA
- More than just endpoint, it's the integrated security architecture of AMP Everywhere



AMP Assets to Learn More









AMP Webpages	
www.cisco.com/go/amp www.cisco.com/go/ampsolution www.cisco.com/go/ampendpoint www.cisco.com/go/ampnetwork	www.cisco.com/go/ampprivatecloud www.cisco.com/go/amptg <u>Cloud deployment</u> <u>On-premises deployment</u>
AMP Solution Overview Videos	
AMP for Endpoints Overview Video AMP for Endpoints Continuous Analysis AMP for Endpoints Threat Intelligence Cisco Executive Perspectives on Security	AMP for Endpoints Integration with CTA AMP for Endpoints Integration with CTA Demo AMP Overview in 4 Minutes: Meet Tom, the IT Security Guy Solving the Security Patchwork Problem
Demos	
5-minute AMP Demo, with Threat Grid integration AMP Threat Grid for Incident Response	AMP and Threat Grid Full Demo on Techwise TV June 2015 AMP Threat Grid: Portal overview and API demo
Customer Testimonials	
Playlist of all Customer Testimonials on AMP First Financial Bank	SHSU.uses AMP for Endpoints Center for Internet Security uses AMP Threat Grid



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AMP Assets to Learn More

Average Clist of a Breach \$5.4MM \$5.9MM 32 days 45 days	Data Sheets, At-a-Glances, Infographic, Whitepape	rs	
	AMP Solution Overview	AMP Threat Grid Solution Overview	
2013 2014 2013 2014	AMP for Networks: Data Sheet	AMP Threat Grid - Appliance: Data Sheet AAG	
	AMP for Endpoints: <u>Data Sheet</u> <u>AAG</u>	AMP Threat Grid - Cloud: Data Sheet	
	AMP Private Cloud: Data Sheet	Continuous Endpoint Protection in a Point-in-Time	
	Security Everywhere Whitepaper (direct link)	World	
Gartner	Third Party Validation Gartner Video-on-Demand: Strategies to Combat A 2016 NSS Labs Breach Detection Test Results The Business Value of Endpoints Security by IDC Next Generation Endpoint Security Infographic	Advanced Threats featuring Cisco AMP	



65% of CEOs say their risk management approach is falling behind. In a **new reality** where security breaches come at a daily rate, we must move away from trying to achieve the impossible perfect protection and instead invest in detection and response. Organizations should move their investments from 90 percent prevention and 10 percent detection and response to a 60/40 split.

> — Peter Sondergaard, Senior VP and Global Head of Research Gartner



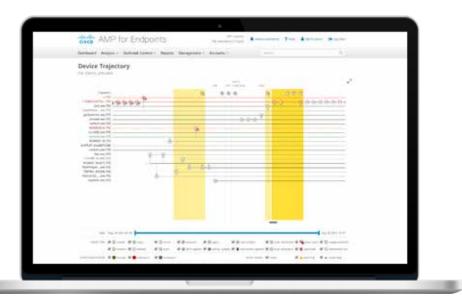
Gartner





What Do You Get with AMP for Endpoints over AMP for Networks?

Visibility into executables and file operations
Device trajectory
Visibility into and control of off-network endpoints
Remediation vs. just containment
Prevalence feature for threat hunting
See lateral movement between endpoints
Sharing info between endpoint and network
Robust tool for incident response teams
Lightweight connector; no impact on users
Widest selection of AMP features for visibility and control







Block Threats Before They Breach A U.S. Bank Case Study

	Challenge	An experienced security team of 7 supporting more than 120 locations needed greater intelligence to quickly identify and stop threats. Current defenses alerted personnel and logged details but did nothing to aid the investigation of the situation.
**	Solution	Augmented intrusion prevention systems with Cisco® AMP for Endpoints.
uÎ	Result	After installation of AMP for Endpoints, a targeted attack was identified and remediated in half a day. Seven days after the initial attack, new business processes and intelligences implemented by AMP for Endpoints resulted in the immediate mitigation of a second targeted attack.





Defend Against Threats During the Attack FVC Case Study

	Challenge	A previous bulky malware solution was not centrally managed, so it was difficult for IT to monitor and troubleshoot the network effectively.
**	Solution	Installed Cisco® AMP for Endpoints for a lighter footprint, central monitoring, and real-time, remote visibility.
uÎ	Result	The AMP for Endpoints dashboard helped the team find and stop threats much faster than previous methods. What used to take them hours now requires only 2 or 3 minutes. With remote management, the team is also able to solve many problems remotely and keep employees productive.

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Identify Scope and Remediate Impact After Breach Power Utility Case Study

	Challenge	The company is a frequent victim of spear-fishing campaigns, with indications of infection emanating from multiple sources.
**	Solution	Added Cisco® AMP for Endpoints to a system already using a Cisco FirePOWER™ NGIPS to enable the company to track and investigate suspicious file activity.
uÎ	Result	The company gained complete visibility into its malware infections, determined the attack vector, assessed the impact on the network, and made intelligent surgical decisions for remediation in a fraction of the time that it would take to respond manually.



Business Impact Summary





Customer Challenges



- Prevention tools are not enough
- Malware still getting in
- No visibility into file activity on endpoints once malware gets in
- If I can't see malware, I can't detect it or respond quickly

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- Complexity: too many tools, too much to manage.
- Complexity is slowing us down

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