

Malware Defense Cloud & Secure Malware Analytics Integrations



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Abstract

The artists known as "AMP Cloud and Threat Grid", are now called Malware Defense Cloud and Secure Malware Analytics. This session will review and take a dive deep into the Malware Defense Cloud and Malware Analytics offerings while covering their integrations with Cisco security architectures, including Secure Email, Secure Web, Secure Firewall, Secure Endpoint, Umbrella and Meraki. These products work together, and we will be covering the Malware Defense Architecture and demonstrate how all of the pieces fit together to provide the industry leading Advanced Threat Architecture. This session is perfect for those who are newer to the Cisco Security Suite, as well as those customers who own one or more products and want to learn how to connect them all to achieve operational efficiency.

2

#me :: "the work"

- Technical Security Solutions Architect
- Over 14 years with Cisco and nearly 25 years of security, cloud and networking experience
- Global lead for Secure Client Technical Advisory Group
- · Life before Cisco...
 - Cisco competitor in Web Security space
 - · Network and Security Consultant on the customer side
 - · Large design, deployment, integration and troubleshooting focus

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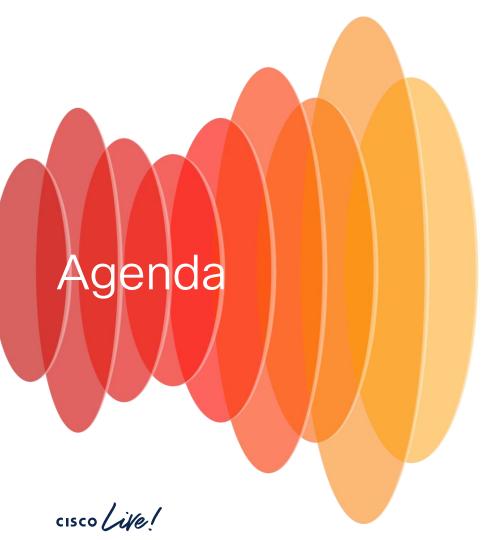
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Please fill out the survey

Drop your email in the comments - I WILL respond!

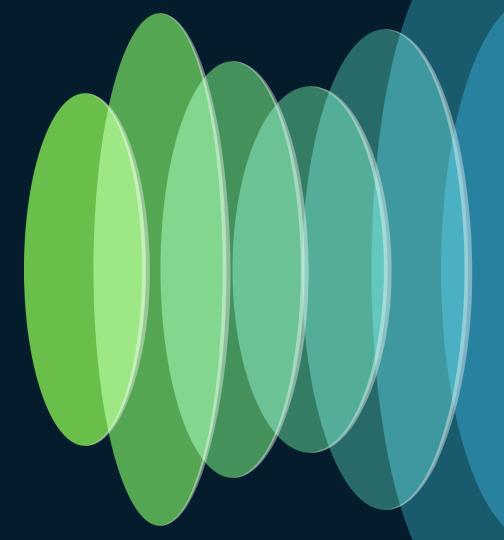
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- Architecture Review
- Secure Malware Analytics product tier deep dive
- APIs & Integrations with Secure Malware Analytics
- See once, block many
- Secure Malware Analytics
 demo dive

Architecture Review



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Questions you'll be able to answer after this section:

- What is Malware Defense?
- What is Secure Malware Analytics?
- How do they create an ecosystem?
- Cloud vs. On-Prem?
- What CAN go where?
- What things should you not do?

Ecosystem Components



- Malware Defense (AMP) A large database that drives File Reputation and File Retrospection
 - Cloud SaaS & Appliance
- Secure Malware Analytics (Threat Grid) File Analysis and much, much more...
 - Cloud SaaS & Appliance
- Malware Defense-Enabled Integration A Cisco device, 3rd party or service that queries data from Malware Defense, and submits files to Malware Analytics
- Secure Endpoint (AMP for Endpoints) Cisco's EDR tool



Cisco Secure Client

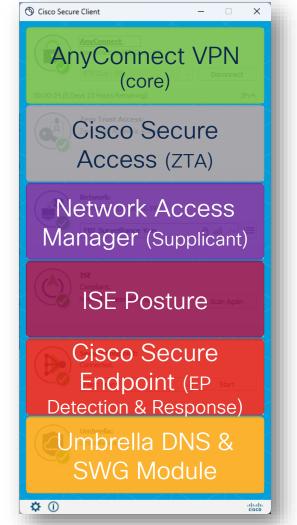
- Security Modules with UI
- Security Modules with no UI:
 - Cloud Management Module
 - Secure Firewall Posture (aka: HostScan)
 - Network Visibility Module (NVM)
 - Thousand Eyes
 - Diagnostics and Reporting Tool (DART)



Cisco Secure Client: Technical Deep Dive

BRKSEC-2834

Thursday, June 6



Secure Malware Analytics

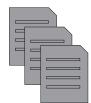
• Secure Malware Analytics is Cisco's <u>unified malware analysis and</u> <u>threat intelligence platform</u>.



- Flexible Deployments: Cloud SaaS or On-Premise Appliance
- Submissions through Web Portal, Malware Defense-Enabled Device or API
- API automates sample analysis, enrichment and reporting
- Full Integration with Cisco and 3rd Party SIEM and Threat Solutions

Integration Use Cases

- Submit Samples for Analysis
- Query Malware Intelligence
- Retrieve Curated Intelligence Feeds
- Usage Statistics and Data



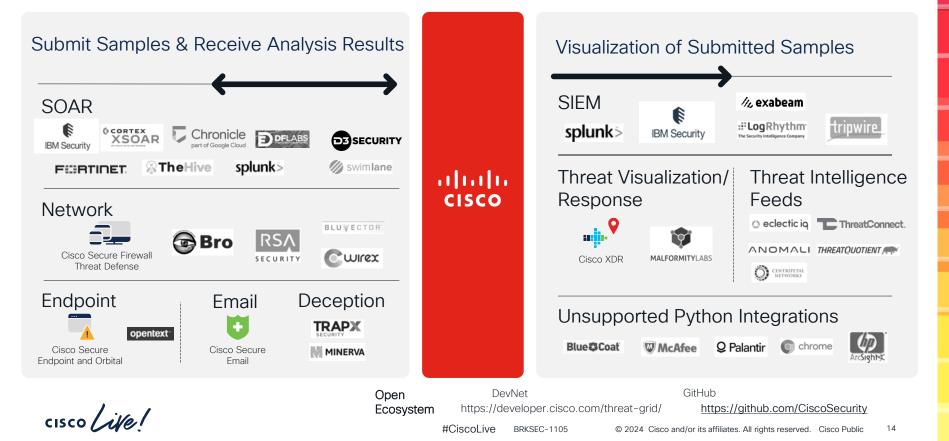
Malware Analytics API

Malware Analysis & Threat Intelligence





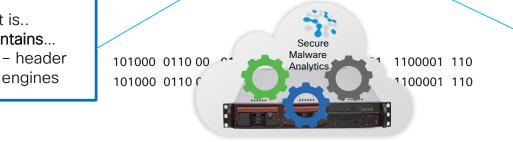
Secure Malware Analytics Integrations



Secure Malware Analytics

• ...performs automated static and dynamic analysis ...

What it is.. What it **contains**... File on disk – header details/AV engines



What it **does**.. Execution/Detonation File/System changes Function/Library calls

- An automated engine observes, deconstructs, and analyzes using multiple techniques
- "Outside looking in" approach / No presence in the virtual machine
- Observes & records all activity
- Wide range of supported file types
- Network Exit Localization, Playbooks and Evasion Behavior Indicators
- Fully interactive sample submission experience (Glovebox)

Secure Malware Analytics ...produces <u>human readable report</u> for submissions.

- 2500+ behavioral indicators
- Malware families, malicious behaviors, and more (not just signatures)
- Detailed description and actionable information
- MITRE ATT&CK data inputs
- Integration with Secure Endpoint Orbital queries

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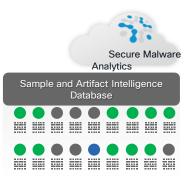


Secure Malware Analytics

• Secure Malware Analytics' **global scalability drives context rich** information that can be consumed directly by analysts and researchers or via **content rich threat intelligence feeds**.

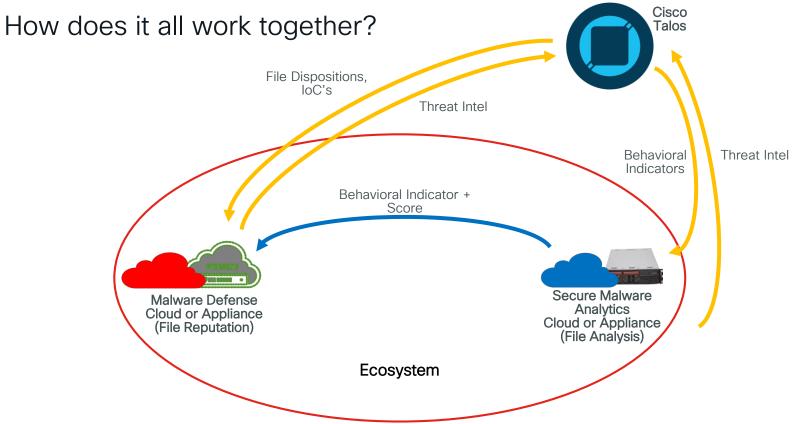
- Samples correlated with billions of malware artifacts
- Global / historical context on threat landscape
- · Create custom feeds with context/metadata
- Download curated feeds
- Various formats (JSON, CyBOX, STIX, CSV, or Snort rules)

Automation saves time for the analyst



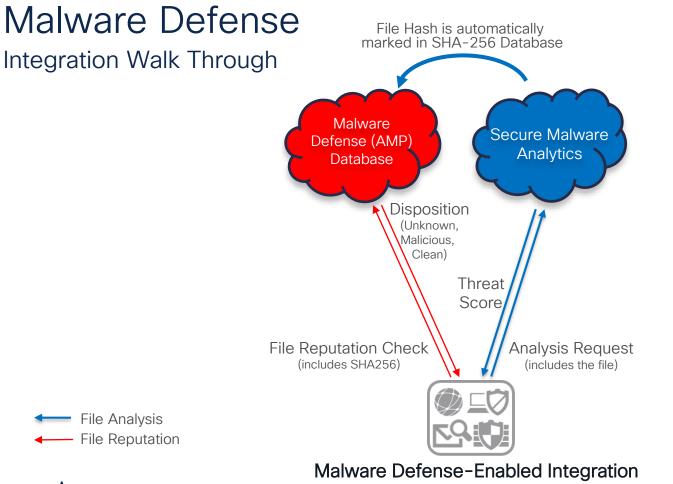


Malware Defense and Malware Analytics Integration



Integrations & Capabilities







File Pre-Classification

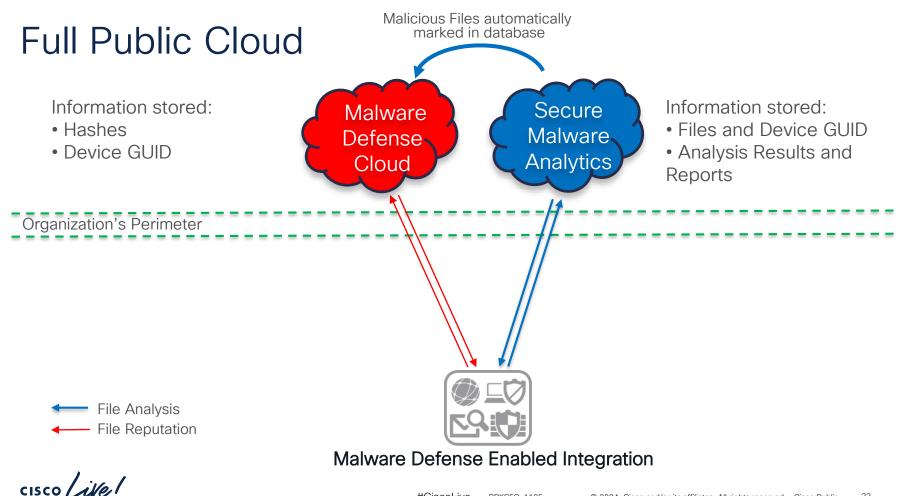


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Submitted to Secure Malware Analytics Suspect Norma Not submitted to Secure Malware Analytics

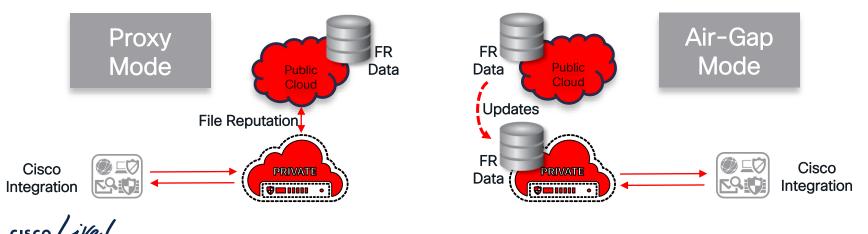
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File



Secure Endpoint Private Cloud Two Deployment Options

- The File Reputation (FR) database provides the foundation for the solution
- Available as a standalone appliance or virtual appliance
- · Delivers many of the cloud features with a dedicated instance on premise
- · Great for environments with very high data privacy requirements (Air Gap)
- Private Cloud Appliance can be deployed in two ways:



Secure Malware Analytics Appliance

- Appliance and Cloud user experience parity
- Aggressive compute to permit concurrent sample analysis
- License scaling from 500 to 10,000 submissions per day, per appliance.
- TG-M6



• Appliances can be clustered for redundancy and increased capacity with cluster licensing for up to 70,000 samples per day

Cisco Secure Malware Analytics Appliance vs. Cloud

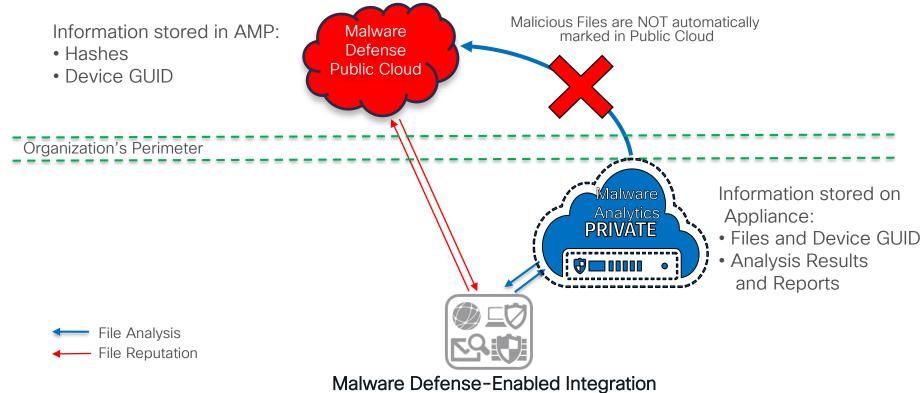
Secure Malware Analytics Appliance

- All samples & artifacts are local no data is sent to the cloud
- Pivoting on samples and artifacts is only based on local data
- Malicious marking can only be achieved with Private Cloud and has only local relevance
- Submission Limits based on appliance platform and license purchase

Secure Malware Analytics Cloud

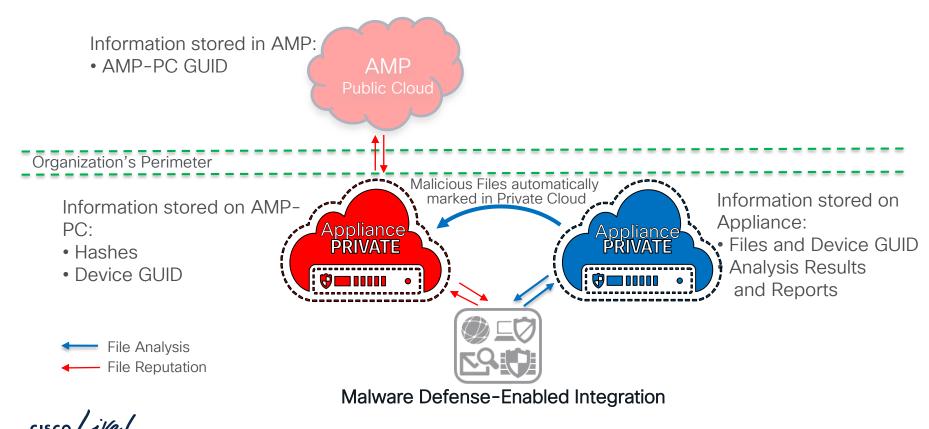
- Manual and API Samples are submitted either as Private or Public (depending on Tagging)
- Malware Defense-Enabled Integrations (Secure Email/Web/Firewall/Endpoint) are ALWAYS marked private
- Public data can be pivoted on, but is still anonymous on who submitted the sample
- Curated Feeds
- Submission Limits based on purchased amount, easily scalable as needs grow

Hybrid Deployments (Except Secure Endpoint)

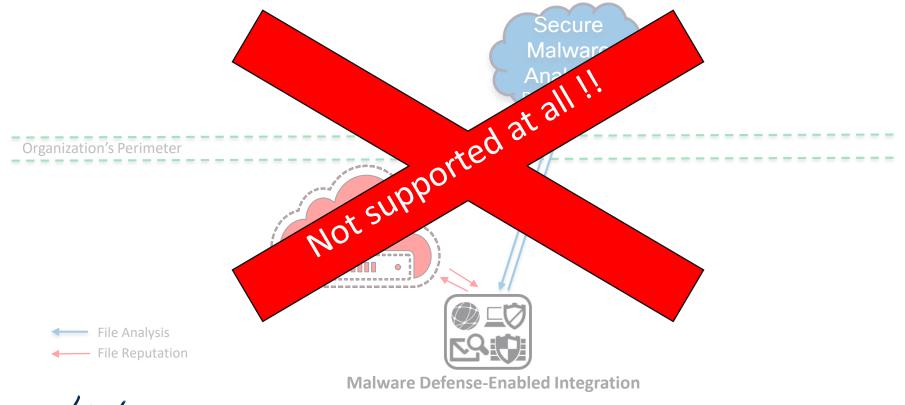


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Full Private Cloud for Integrations

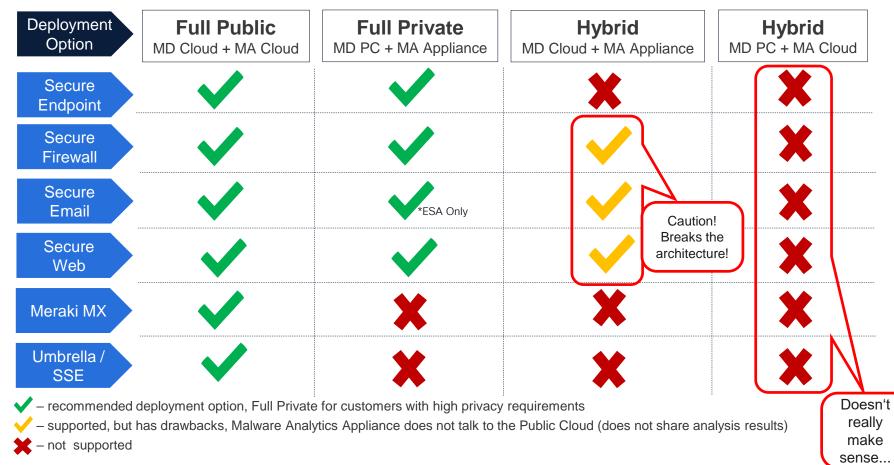


AMP Deployments Hybrid for Integrations



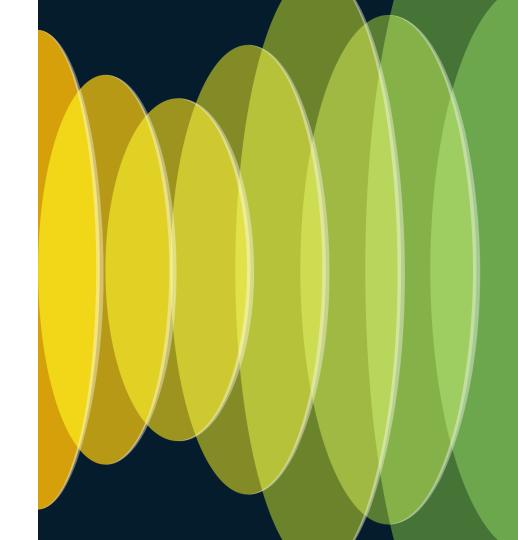
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Deployment Options



Secure Malware Analytics Product Tiers



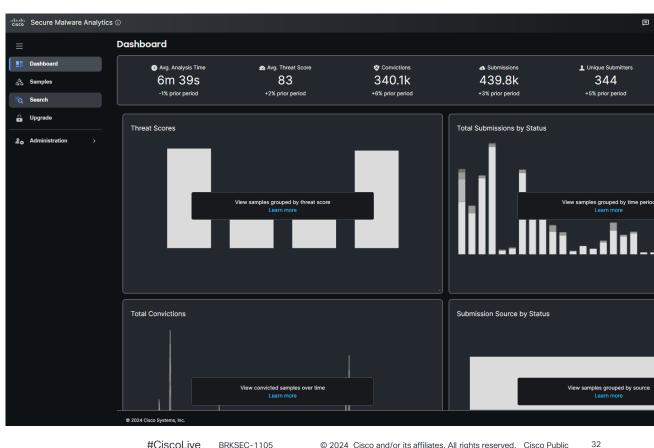


Questions you'll be able to answer after this section:

- What Secure Malware Analytics is 'included' with a Malware Defense-Enabled integration?
- Secure Malware Analytics Cloud full portal vs. Malware Defense-Enabled integration?
- Can I integrate with 3rd party products? How?
- Secure Malware Analytics offers different types of portal views?!?
- How do I integrate my Malware Defense-Enabled devices to Secure Malware Analytics Cloud?

Secure Malware Analytics Entitlement Portal

- No-cost access for all Malware Defense-Enabled customers who do not have Secure Malware Analytics Cloud
- 'Device_Admin' account that provides a *limited view* of the Secure Malware Analytics Cloud portal
 - Sample Consumption per 24 hours
 - Basic Dashboard Avg. Analysis Time, Avg. Threat Score. Convictions, etc.





Secure Malware Analytics Entitlement Portal "Device & Service" View

- View all devices and cloud services in an organization
 - Device detail
 - API Limits
 - Amount Consumed
 - Remaining
- Ability to self-configure device limits from organizational total

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Secure Malware Analytics Entitlement Portal

"Entitlements" View

- View all Entitlements in an organization
 - Type Samples/Day
 - Login
 - Users (if applicable)
 - Start/End date subscription

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Secure Malware Analytics Cloud Full access portal



- Full Visibility into global views
- Submission Types
- Threat Scores
- Environmentals
- Behavioral Indicators and IP's

File Analysis Visibility

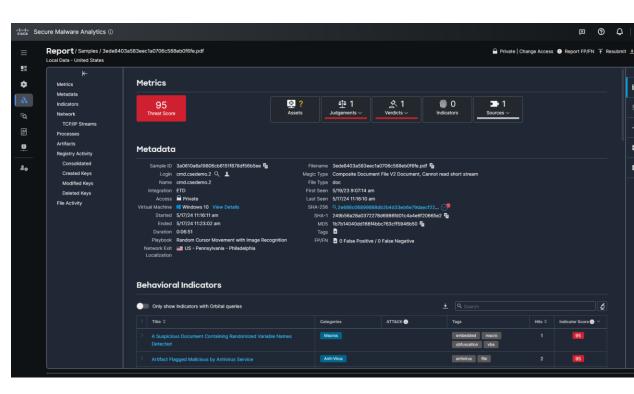
Secure Malware Analytics Sample Manager

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Secure Malware Analytics Sample Report

- Report Data:
 - Meta Data
 - Behavioral Indicators
 - Network Activity
 - Processes
 - Artifacts
 - Registry Activities
 - File Activities
 - Cisco XDR Bar
- Deep view of sample run
 - Video of the VM session
 - PCAP from all network activities
 - Export the report in various formats
 - Download the sample and Artifacts
 - Ability to interact with sample
 - Global sample search





Endpoint Submission

Secure Endpoint > Cloud Analytics

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Secure Endpoint

File Analysis

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File

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You control the privacy...

'Public' and 'Private' Access

- Sample tagging controls privacy
 - Private Full sample detail is <u>only</u> visible to the submitting Organization
 - Public Sample will be visible globally (all users can access all the details of the report)

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Vetrics							
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Network		Only show Indicators with Orbital queries			Q Search		
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TCP/IP Streams		Title ≎	Orbital Queries	Categories	ATT&CK	Tags	Score \
Extracted Domains		Mabezat File Path Detected	Orbital Queries	Worm	Initial Access	mabezat usb worm	100 🖁
Processes					Lateral Movement		
Artifacts		USB Autorun Enabled through the Creation of autorun.inf		Spreading	Initial Access	autorun file process	100
Registry Activity Consolidated					Lateral Movement		
Created Keys		Artifact Flagged as Known Trojan by Antivirus		Anti-Virus		RAT trojan	95
Modified Keys		Artifact Flagged Malicious by Antivirus Service		A-41 16-1-		antida a Ela	95
File Activity		Artifact Plagged Malicious by Artifutinus Service		Anti-Virus		antivirus file	90
		Executable File Created On the USB Drive		Spreading	Initial Access	executable file PE	90
					Lateral Movement	process spreading usb	
		Process Created a File in a Recycle Bin Folder	Orbital Queries	Evasion	Defense Evasion	file process recycler	90
		Process Created an Executable in a Recycle Bin Folder		Evasion	Defense Evasion	executable file process	90
						recycler	
		Process Modified the Windows System Startup File		Persistence	Persistence	file process	90
				r claisterice	Privilege Escalation	system modification	
		Process Modified a File in a System Directory		Dynamic Anomaly		executable file process	85
		A PE Artifact has an Invalid Certificate Signature		Static Anomaly	Defense Evasion	attributes certificate PE	80
		An Executable Found in Recycle Bin Folder		Pattern	Defense Evasion	executable file process	80

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Report / Samples / c45caf9fc Local Data - United States	817277f573dec9da10c6eab					•	Report FP/FN 🚡 Resu	bmit 🛨 Downloads 🗸 📁 Feedback
Metrics								→
Metadata Indicators	Behavioral Indi	cators						Report
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Registry Activity Consolidated	Mabezat File Pa				мп	REATTACK	attack.mitre.org	Runtime Video
Created Keys	Description					ctic: Initial Access 🔍 🖸		
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Local Data - United Status		् Query		Clear Reset				A COMPANY A
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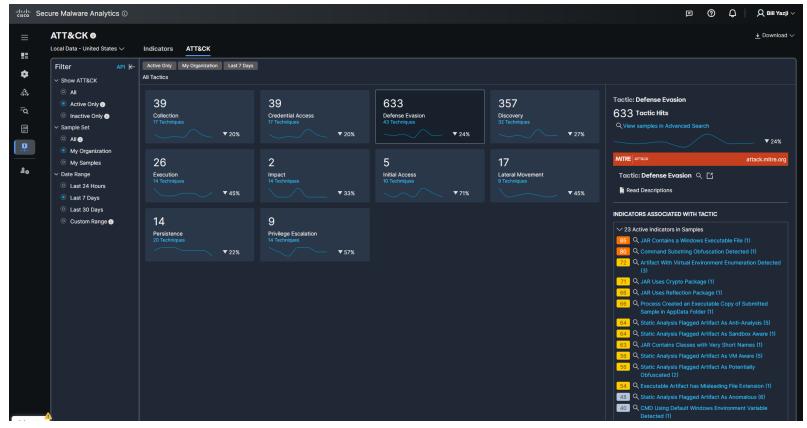
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Trend View

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ATT&CK View



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Offering Comparison

Tier offerings based on purchase

	Defense- Enabled Secure Malware Analytics	Secure Malware Analytics Entitlement Portal	Secure Malware Analytics Cloud Portal
Automatic submissions from Cisco devices/services	*	✓ *	✓ *
Access to "Device/Entitlements" portal views		V	>
Manual file & 3 rd party API submissions			*
Search and pivot on Global Data			\checkmark
Cisco XDR Integration			\checkmark
Ability to interact with running sample (Glovebox)			>
View Network\Process\Artifact\File\Disk\Registry Activity			\checkmark
Easily delete submissions via GUI			\checkmark
Orbital & MITRE Enhancements and Pivot			>

Malware

* Requires Advanced File Analysis Submission package

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Integrations feeding Secure Malware Analytics

Secure Email / Web / Firewall

• File Analysis (FA) Client ID identifies individual device

Umbrella / Secure Endpoint / Meraki / Cloud Mailbox Defense / Email Threat Defense

• Business/Service name identifies a service to Secure Malware Analytics

FA Client ID and Service Name are used to bind submissions to a Secure Malware Analytics Org

- Provides access to view in Cloud Portal if purchased
- Provides the ability to see samples submitted by Malware Defense-Enabled devices

Appliance Note: These are also used to register devices on a Secure Malware Analytics Appliance

- Device registers a new User at Appliance with Client ID as the Username
- This new User must be activated, otherwise Appliance will not accept submissions

Integrated Connector Registration

Malware Defense-Enabled Integration Registration to Secure Malware Analytics

Tech Note on obtaining File Analysis Client ID

• <u>https://www.cisco.com/c/en/us/support/docs/security/email-security-appliance/213667-file-analysis-client-id-on-content-secur.html</u>

Best to work with your Cisco Security account teams

- Gather FA-IDs and Service Names
- Group in Secure Malware Analytics Cloud organization (subscription) or Secure Malware Analytics Entitlement Portal organization (complimentary)
- <u>tg-provisioning@cisco.com</u> can also provide grouping assistance

Integrated Connector Registration

Secure Malware Analytics

Organizational view into Malware Defense-Enabled devices and cloud users

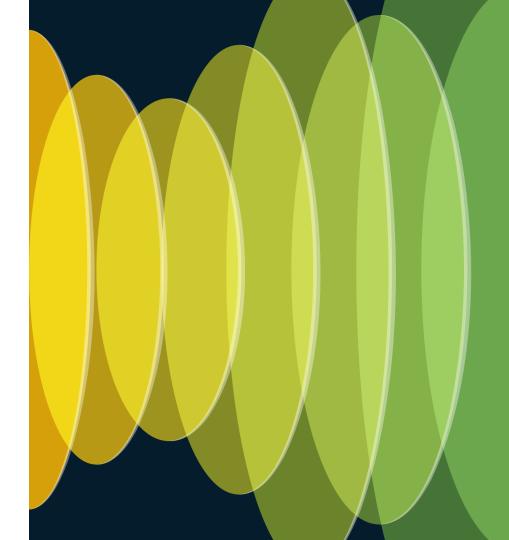
Users - CSE-De Local Data - United States	mo								$\underline{\bullet}$ Download \lor + M	lew User ଢ	l Feedback
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		sig.csedemo.1	sig.csedemo.1	byazji@cisco.com		User	Active /	N/A	SIG	service	
✓ User Type		cse-device-admin1	cse-device-admin1	byazji@cisco.com		Device Admir	Active /	N/A	Unspecified	person	
DevicePerson		cse-org-admin1	cse-org-admin1	byazji@cisco.com		Org Admin	Active /	N/A	Unspecified	person	
Service		cse-byazji-admin	Bill Yazji	byazji@cisco.com	CSE-Demo admin	Org Admin	Active	N/A	Unspecified	person	
✓ Role Device Admin			cse-user1	byazji@cisco.com		User	Active /	N/A	Unspecified	person	
Org Admin		cmd.csedemo.1	cmd.csedemo.1	byazji@cisco.com		User	Active /		CMD	device	
User		wsa-device-d57463bd	WSA Device			User	Active /		WSA	device	
 Limited User Integration 		fmc-sensor-df2ed4db	FMC Sensor			User	Active /		FMC Sensor	device	
CMD		fmc-sensor-7f6b511b	FMC Sensor			User	Active /		FMC Sensor	device	
CSA		esa-device-8d70437e	ESA Device			User	Active 🖌		ESA	device	

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Integrated Connector Registration

- Firewall rules can will interfere with your device registering
- If a device is exchanged (hardware refresh/RMA, etc) you will need to add that back to Secure Malware Analytics and your organization manually
- Firepower Threat Defense applicances have the FMC MAC address in its ID. If you change FMC – you will need to ensure all in same org.
- Register primary and failover FMC to Secure Malware Analytics Portal
- Consider Secure Malware Analytics Entitlement Portal for device visibility vs. Group Reporting feature of WSA/ESA/CES
- Consider Secure Malware Analytics Cloud upgrade for full visibility

Secure Malware Analytics APIs & Integrations



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Secure Malware Analytics APIs

Data API

- Entity search /search/
 - search observables by specific criteria
- Entity lookups /domains/, /urls/, /paths/, etc
 - pivot from a known observable to other related information in Threat Grid data
- Sample mgmt: /samples/
 - submit
 - retrieve data/analysis
 - raw observables feeds /samples/feeds/
 - · Get lists of observables associated with a filterable set of samples
 - Harvested from all sample activity, suspicious or not, therefore very high FP
 - Can filter to your user's or your org's samples only; eg "get all domains associated with samples my company submitted"
 - Results in JSON



Secure Malware Analytics APIs – Search docs

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Back to Help Home Page	Hierarchy Endpoint: /api/v2/sea								
k Search	Descendant Interface Endpoints:	Malware Analytics Formerly Threat Grid	Dashboard	Samples	Search 🗸	Reports Indie	cators		
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Secure Malware Analytics - Curated Feeds

Curated feeds API /feeds/

- Based on specific, high confidence human-curated Bls
- Whitelisted via TG and Talos intelligence
- Much lower FP
- Groups observables by IOC type (eg "DGA DNS domains")
- Not filterable by sample ownership -
- But you could combine with IOC feeds to do so!
- Least complex request structure
- Made for integrations available output formats:
- JSON / CSV / Snort / STIX

Secure Malware Analytics APIs

Feed details summary:

	Sample Feeds	IOC feeds	Curated Feeds
Version	/v2	/v2	/v3
Endpoint	/samples/feeds/	/iocs/feeds/	/feeds/
Content	All observables seen	Observables seen – by Bls	Observables seen as part of a trusted high confidence Bl trigger
FP rate*	High	Medium	Low
Pre-whitelisted	No	No	Yes
Filterable to only you/org?	Yes	Yes	No
Output Formats	JSON	JSON	JSON/CSV/Snort/STIX**
Request Complexity	Low	Low	Lowest

* The factual FP rate is 0; these were all seen. The functional FP rate, as an indicator of local compromise, is dependent on the details of the observation and varies from feed to feed.

** additional formats not available for all curated feeds

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Retrieving Data

Curated Feeds

- Based on human-vetted Bls (or collections of related Bls).
- Refreshed frequently
- Whitelisted: known good or known benign observables are scrubbed before publishing.
- Useful or benign domains could still be in the feed.
 While many customers do use these for automated blocking, be aware that this is a risk.

Feed Name	Short Description
autorun-registry	Contains registry entry data derived from querying registry changes known for persistence
banking-dns	Banking Trojan Network Communications
dga-dns	DGA Domains with pseudo-randomly generated names
dll-hijacking-dns	Feed contains Domains communicated to by samples leveraging DLL Sideloading and/or hijacking techniques
doc-net-com-dns	Document (PDF, Office) Network Communications
downloaded-pe-dns	Samples Downloading Executables Network Communications
dynamic-dns	Samples Leveraging Dynamic DNS Providers
irc-dns	Internet Relay Chat (IRC) Network Communications
modified-hosts-dns	Modified Windows Hosts File Network Communications
parked-dns	Parked Domains resolving to RFC1918, Localhost and Broadcast Addresses
public-ip-check-dns	Check For Public IP Address Network Communications
ransomware-dns	Samples Communicating with Ransomware Servers
rat-dns	Remote Access Trojan (RAT) Network Communications
scheduled-tasks	Feed containing scheduled task data observed during sample execution
sinkholed-ip-dns	DNS entries for samples communicating with a known dns sinkhole
stolen-cert-dns	DNS Entries observed from samples signed with a stolen certificate



Retrieving Data

Curated Feeds

Parameters	Description		
feedname	The name of the feed.		
time range	The date time stamp. Optional. Default = last one hour.		
format	The output format.		
api_key	The API key of the user or program requesting the data.		

Making the request:

[Root, version, and endpoint]/[feed_name]_[date].[format]?[api_key]

Examples:

• DGA DNS as JSON for a specific day:

https://panacea.threatgrid.com/api/v3/feeds/dga-dns_2022-12-08.json?api_key=[API_KEY]

• Last hour's Sinkholed IP/DNS as STIX:

https://panacea.threatgrid.com/api/v3/feeds/sinkholed-ip-dns.stix?api_key=[API_KEY]

 Dynamic DNS Domains for a date as Snort rules, in the browser, after logging in: https://panacea.threatgrid.com/api/v3/feeds/dynamic-dns_2022-12-08.snort

SIEM/SOAR integrations with ease

Splunkbase

splunkbase [®] Collections	Apps	Q Find an app		Submit an App Log In 💌
Threat This app suppo But by Source Pool	rts executing investigative ac	ctions to analyze executables and Ui	Ls on the Threat Grid sandbox	
Latest Version 2.4.1 November 4.2022 Rulease notes	Compatibility (SOAR Cloud, SOAR On-Pren Platform Version: 5.4, 5.3	(i) Rating m O ★★★★★(0) Log in to rate this app	Support Splunk Supported Connector Learn more	Ranking #5 In Sandbox
Summary Details	Installation Troubleshoo			
Supported Actions • test connectivity: Validat the connection and crede d datonate file. But the file • get report: Query for rease • detonete urt: Load a URL • list playbooks: List the pl • list vms: List by Vds avail	the asset configuration for con initials in the Threat Grid sandbox and its of an aiready completed task in the Threat Grid sandbox and hybooks available in the connect lable in the connect ThreatG	ak in Threat Grid I retrieve the analysis results cted ThreatGrid environment	ce to check ice to check Created by Solute Rice Created by Solute Rice Created by Solute Rice Created by Solute Rice Solute Anna Solute Anna Ant & Quality Resources	16 na Tama 12

https://github.com/splunk-soar-connectors/threatgrid

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Supported Actions

test connectivity - Validate the asset configuration for connectivity. This action logs into the device to check the connection and credentials

detonate file - Run the file in the Threat Grid sandbox and retrieve the analysis results get report - Query for results of an already completed task in Threat Grid detonate url - Load a URL in the Threat Grid sandbox and retrieve the analysis results list playbooks - List the playbooks available in the connected ThreatGrid environment list vms - List the VMs available in the connected ThreatGrid environment list submissions - List the submissions present on ThreatGrid based on the query provided

action: 'detonate file'

Run the file in the Threat Grid sandbox and retrieve the analysis results

Type: generic Read only: False

This action requires the input file to be present in the vault and therefore takes the vault id as the input parameter.

Action Parameters

PARAMETER	REQUIRED	DESCRIPTION	TYPE	CONTAINS
vault_id	required	Vault ID of file to detonate	string	vault id pe file pdf shal
file_name	optional	Filename to use	string	file name
vm	optional	VM image to run on	string	threatgrid vm name
force_analysis	optional	Force re-run of sample	boolean	
private	optional	Mark file and results private (This parameter is ignored if the asset setting is checked)	boolean	
playbook	optional	ThreatGrid playbook to run on the submitted file	string	threatgrid playbook name
sample_password	optional	Password used to open the submitted file	string	password
tags	optional	A comma-separated list of tags applied to this sample	string	
vm_runtime	optional	The number of minutes the sample should be analyzed for (Must be set to either 2 or 5)	numeric	

Devnet

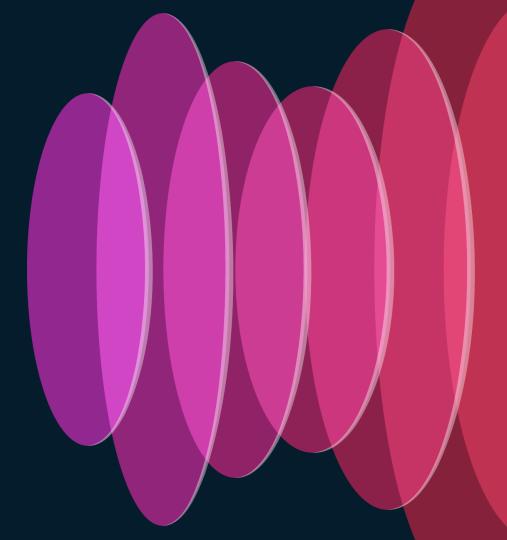
https://developer.cisco.com

	deter DEVNET Learning Labs Center	(B) Mer			
Hands-on: Cisco Secure Malware Analytics (Threat Grid) APIs	Hends-on: Cisco Secure Malware Analytics (Threat Grid) APIs				
About Cisco Secure Malware Analysics APIs Cisco Secure Malware Analysics API Basics	Hands-on: Cisco Secure Malware Analytics (Threat Grid) APIs	and an end of the second			
Working with IOC feeds Working with Curated feeds	In this section, you use the Gisco Secure Makware Analytics (Threat Grid) API to gain intelligence about the \mp in this Lab helps you understand the basics of using Threat Grid APs with Postman.	ೆಂದೆ DEVNET Learning Labs Center ands-on: Cisco Secure Malware Analytics (Threat Grid) APis		we amp-tg.sector.py from datetime import datetime,date Zimport joon	
Working with samples	Objectives	¹ Spranch, Syramh, With M. Network, N. Network, Network, N. Network, Network, Network, Network, Network, Network, Network	 5 ■ DOE_pany 5 ■ the security-permit + -2 5 ■ security = -2 	3 import sys 4 from pathlib import Path 5 import requests 6 from crayens import blue, green, yellow, white, red	
	When you have completed this Learning Lab, you will be able to: • Harvest data from the Claco Secure Malware Analytics (Threat Grid) API, • Use the data from Claco Secure Malware Analytics to hunt for specific information. Documentation	Execute the function	Barrowski + 2 worker water	I from requests packages unlikit exceptions import insecuritequestion i from threatequesse import Insecuritestingence i paper understandig is adde Juneo in the path to import environment module it systamic insection, Juneo 1 i systamic environment as env id i Serting add hows not internative additions	
	In-product API documentation can be accessed with the link: https://panaces.threatgrid.com/mask/doc /mask/epi-getting-started	Add the following code to the bottom of the script (sfler_str_make_ == *_exis_*r;). Review the code wet: prioritybits(f''uddrag 4*)) * cole; fractions of bot of it eagles, absolutions (formatprint, bot) threatyring,mayle_id, a websites, ubbit[][[tree]][targe[t-1] prioritypene(f''accessfully retrieved Cisca Society Nalewa Analytics scape 20 (Domatprint, code) Execute the file in the terminal, respect the output throughly. cd threaty-halfing	I margo-menta, anton Landor J I margo-menta, anton Landor J I margo - 1 I margo	11 # Class Berrila 11 # Class Berrila 11 ubrila, m., bot = em. UMBELLA, BUYOKCHENT, UK 11 ubrila, m., bot = em. UMBELLA, BUYOKCHENT, UK 12 # Class Secure Exhibitat 13 # Class Secure Exhibitat 14 # Class Secure Science, Beroom, JPL, JKY 14 # Jost = em. Science, Beroom, JPL, JKY 14 # Jost = em. Science, Beroom, JPL 14 # Jost = em. Science, Beroom, Science, Science, JPL 14 # Jost = em. Science, Science, Market, JPL 14 # Jost = em. Science, Science, Science, JPL 14 # Jost = em. Science, Scienee, Science, Science, Science, Science, Science, Science, Scienc	
		Request sample domains Use the sample Do forch the analysis report and retrieve associated domains that have been seen during analysis of this sample. Coay the following is your tarvest-heartsie_py; file, after the other functions; our tarvestream of the sample. Coay the following is to be a sample.	 Remain X: • Remain X		
	K	<pre>onl thready run, the set of the set of</pre>	e/Colaid ATTLATION: The file must be attached Step 3 —> Searching the ThreatGrid Submissions for sha2000 Successfully work installation in the submis scale	addimaahdaadhaadhaadhaadhaadhaadhaadhaadhaad	



Bringing it together: Connecting Cisco Security to Malware Defense Cloud

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Questions you'll be able to answer after this section:

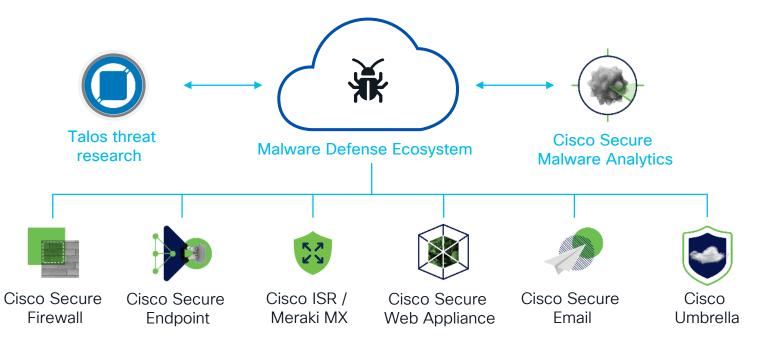
- I have a few of these products, how do they integrate?
- Wait, I can click once and block everywhere?



Security Architecture:

See once, block everywhere

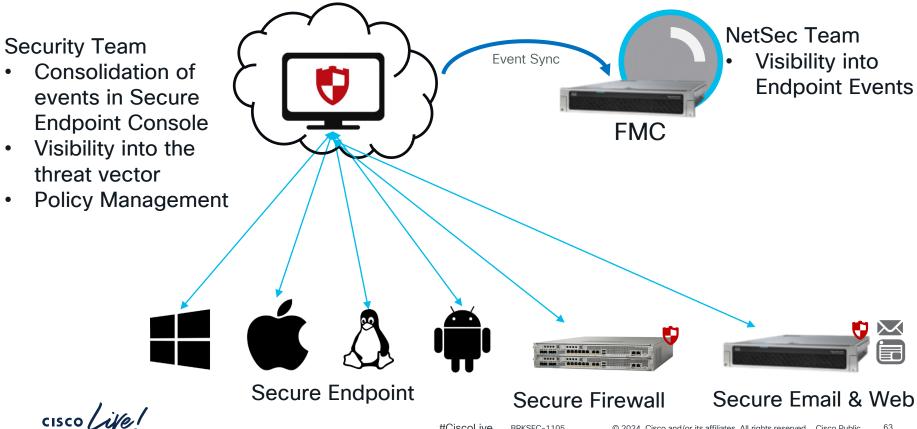




cisco / illa

Unity

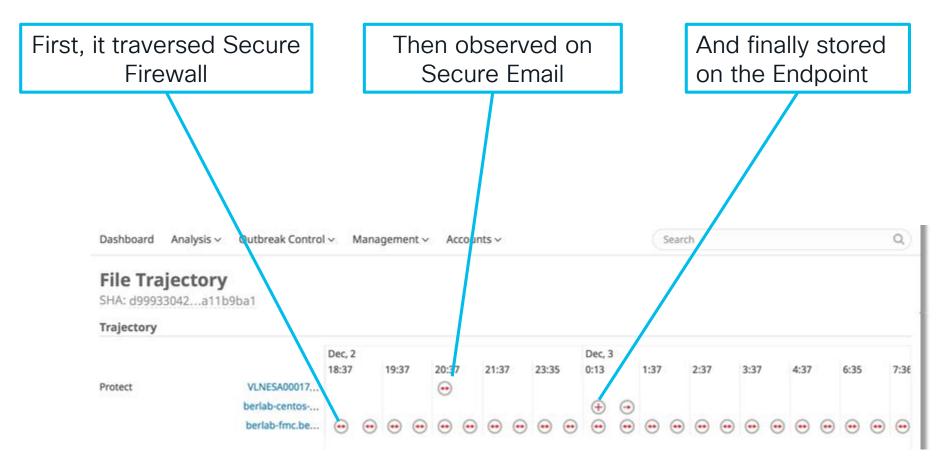
Enhanced Operational Visibility and Control – Secure Endpoint



Unity

Manages for Endpoints: Manages for Network: Manages for Content: **Endpoint Policies** Network Policies **Content Policies** • Secure Endpoint Block & Allow List Block & Allow Lists Block & Allow Lists • **Exclusions Provides for Endpoints** Provides for Network **Provides for Content Device Trajectories** File Trajectories File Trajectories • File Trajectories Retrospection Retrospection Retrospection Secure Endpoint User Secure Firewall Secure Email & Web

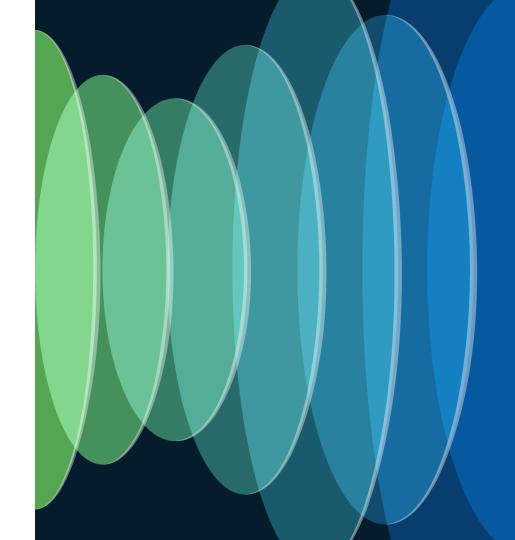
cisco / ile



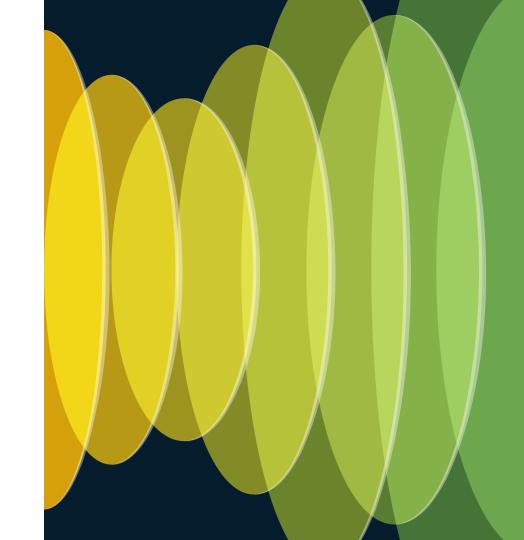
cisco / ile

Secure Malware Analytics Demo





Closing



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Other good stuff to check out

- Cisco Security APIs and Scripts
 - <u>https://github.com/CiscoSecurity</u>
- AMP and Secure Malware Analytics IP and Firewall requirements
 - <u>https://www.cisco.com/c/en/us/support/docs/security/sourcefire-amp-appliances/118121-technote-sourcefire-00.html</u>
- Status and outage notifications
 - <u>https://urgentnotices.statuspage.io/</u>
- Cisco Live Barcelona 2020 BRKSEC-2890 [Bill Yazji]
 - Full configuration details for all integrations

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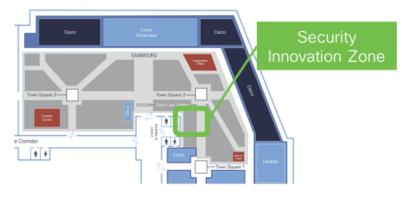
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Contact me at: byazji@cisco.com



Thank you



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