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Cisco Webex App

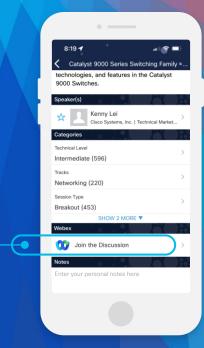
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click "Join the Discussion"
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 9, 2023.



https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-1456



Automate and Simplify Your Ransomware Defence with Cisco's XDR

Elia Maracani, System Engineer & Project Manager Cisco Cybersecurity Co-Innovation Center Milan DEVNET-1456











- The Ransomware Problem
- The Solution (?)
- A Better Solution
- Demo

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- Future Improvements
- Conclusion

The rise and evolution of the threat



Gaining Trust

Trust is the base for it all

The hacker encrypts data and devices.





The rise and evolution of the threat





Gaining Trust

Trust is the base for it all

The hacker encrypts data and devices.



Data Sale

Data is the most valuable thing

The hacker copies and exfiltrates the data.





The rise and evolution of the threat







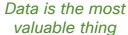
Gaining Trust

Data Sale

Lateral Movement

Trust is the base for it all

The hacker encrypts data and devices.



The hacker copies and exfiltrates the data.

Everything is fair game

The hacker uses the copied data to hack other services.









The rise and evolution of the threat







Gaining Trust

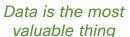
Data Sale

Lateral Movement

Blackmail

Trust is the base for it all

The hacker encrypts data and devices.



The hacker copies and exfiltrates the data.

Everything is fair game

The hacker uses the copied data to hack other services



Reputation is everything

The hacker threatens to publish all the sensitive data.









The rise and evolution of the threat









Gaining Trust

Data Sale

Lateral Movement

Blackmail

Next?

Trust is the base for it all

The hacker encrypts data and devices.



The hacker copies and exfiltrates the data

Everything is fair game

The hacker uses the copied data to hack other services

Reputation is everything

The hacker threatens to publish all the sensitive data.



Evolution never stops

Same as in biological life, computer viruses keep evolving.











Real-life impacts

Attack Frequency* 2 seconds (2031)11 seconds (2021)



Patients unable to receive real-time care at hospitals

Residents unable to reach first responders via 911

Clients unable to transact with offline financial banking systems



^{*} Source: Cybersecurity Ventures Cybercrime Magazine

The Solution (?)

Backup is all you need.. Ish





nixCraft @nixcraft · 21h

This is how most organisations' backup and disaster recovery (DR) plan looks in case a ransomware attack, hacking or Alien invasion occurs right now ...



24

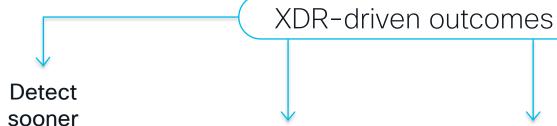
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Shift the focus to outcomes



Where are we

most exposed to risk?

How good are we at detecting attacks early

Prioritize by impact

Are we prioritizing the attacks that represent the largest material impacts to our business?

Speed up investigations

How quickly are we able to understand the full scope and entry vectors of attacks?

Accelerate response

How fast can we confidently respond?

How much can SecOps automate?

Are we quantifiably getting better



Simplify security operations



Open and flexible approach, optimized for multi-vendor, multi-vector experience Simplify the user experience and gain visibility and identify threats across network, cloud, endpoint, email, and applications for effective security regardless of vendor or vector.



Threat correlation and clear prioritization to help users see what's most important Correlate and prioritize alerts across multiple telemetry sources using Al and ML to improve incident response.



Rapid and guided responses to quickly remediate threats and improve analyst efficiency Rapidly remediate threats and take appropriate action quickly with automation capabilities, orchestration workflows, and guided remediation, freeing up time and resources to focus on strategic tasks.



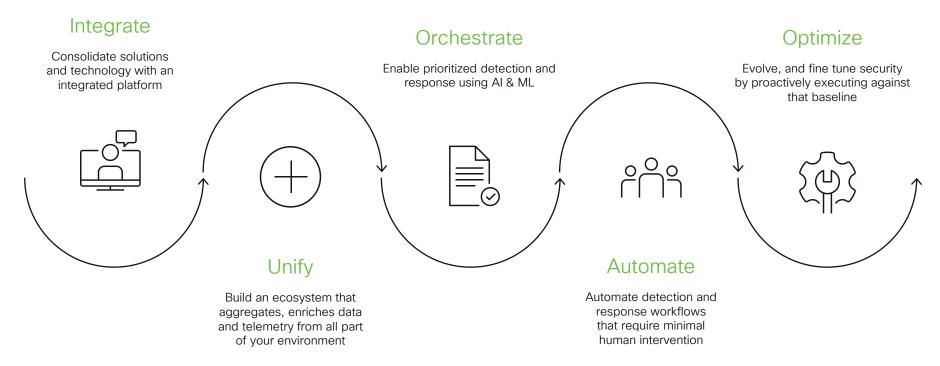
Essential network insights, providing better understanding of your environment Leverage network insights to protect against complex threats and bring clarity to security operations. By making the network foundational and going beyond EDR, organizations can identify and prevent advanced threats from evading detection and improve XDR outcomes.



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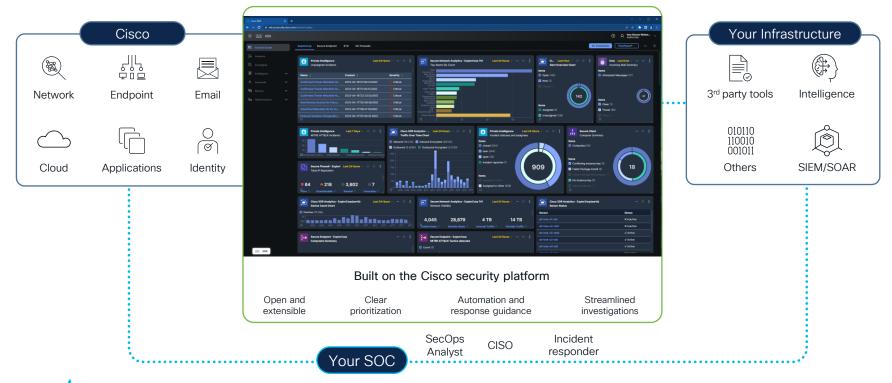
Cisco's XDR

Quickly position teams to achieve incremental XDR milestones

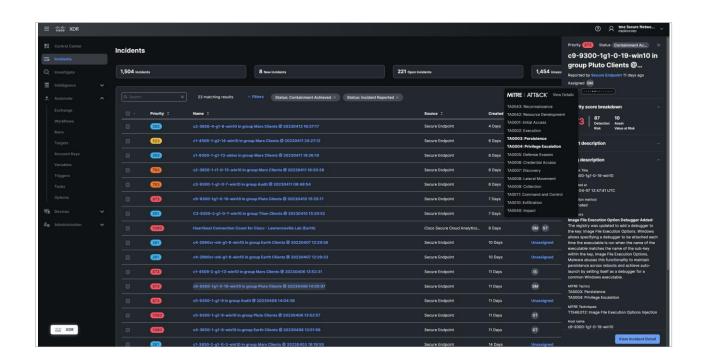




Cisco's XDR comes to the rescue

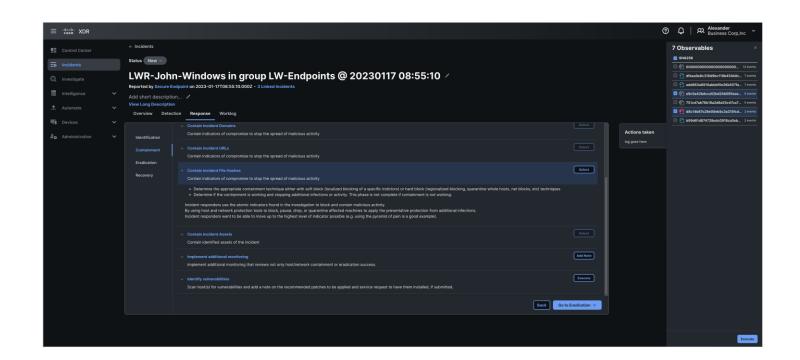






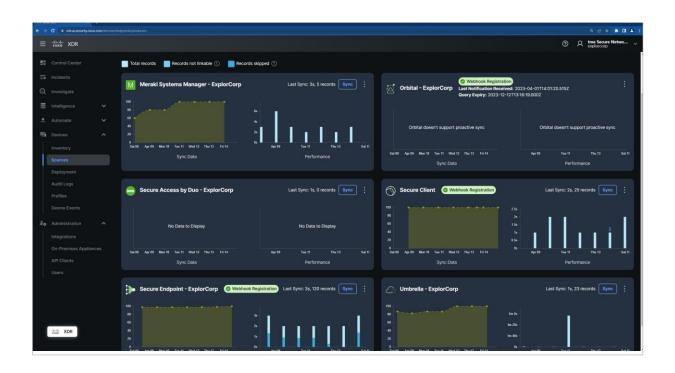
Incidents





Incident response





Inventory





Control center



Detect more, act faster, elevate productivity, build resilience

Detect /!\
the most
sophisticated
threats



Act on what *truly* matters, faster



Elevate productivity



Build resilience

Multi-vector detection: network, cloud, endpoint, email, and more Enriched incidents with asset insights, threat intel Optimized for multi-vendor environments Prioritize threats by greatest material risk Unified context to streamline investigations Evidence-backed recommendations Focus on what matters and filter out the noise
Boost limited resources for maximum value
Automate tasks and focus on, strategic tasks

Close security gaps
Anticipate what's next
through actionable intel
Get stronger, everyday
with continuous,
quantifiable improvement



Improve your cyber resiliency with Cohesity



- First data protection solution integrated with Cisco XDR and Cisco UCS X-Series
- Complementary Cohesity & Cisco platforms eliminate data management and security silos
- Unites security, network, and IT Ops teams for improved data-security posture & productivity
- Accelerates threat discovery, investigation and response to ransomware
- Exceptional Cisco experience end to end



Improve your cyber resiliency with Cohesity



Protect Immutability

Untouchable backup with granular access controls



Detect Intelligence

Data-centric threat detection and SecOps integrations



Rapid Recovery @ Scale

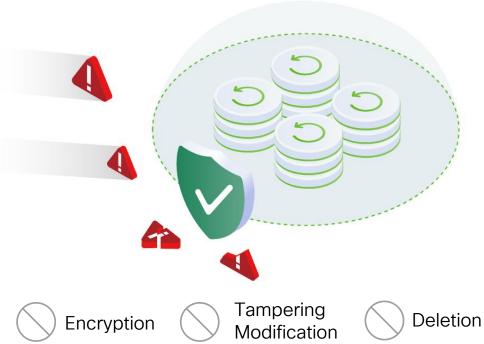
Accelerated recoveries



Improve your cyber resiliency with Cohesity

Protect Data

Enforce data integrity, confidentiality, and reliability thanks to immutable backups, strict access controls, encryption and high built-in fault tolerance





Improve your cyber resiliency with Cohesity



Detect anomalies

Watch data for attack indicators and integrate with Security Operations

Machine-driven Anomaly detection based on:

- Time Series of Data written
- Entropy (randomness of data)
- Nature of File System changes (bulk files added, deleted, modified)





Improve your cyber resiliency with Cohesity

Recover

Accelerate recovery to support 24x7 operations and SLAs

Rapid Recovery @Scale

- Immediately restore VMs
 - Instant Mass Restore
- Immediate availability of files and objects
 - Instant File Access
- Determine best recovery point
 - Any-time recovery
 - Recommend last known-good recovery point
- Assist with investigation of cyber event



The power of integration and cooperation

Main parachute











The power of integration and cooperation







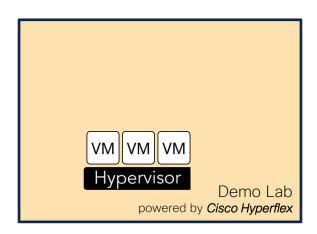






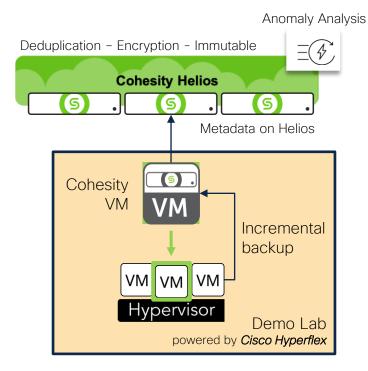


Demo's Architecture - How it works now

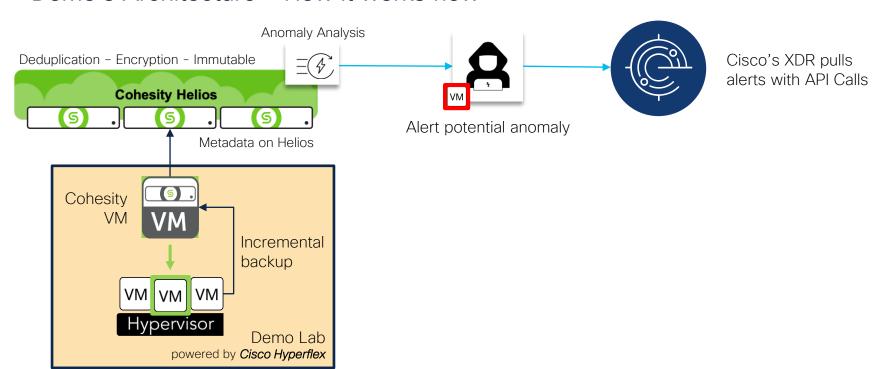




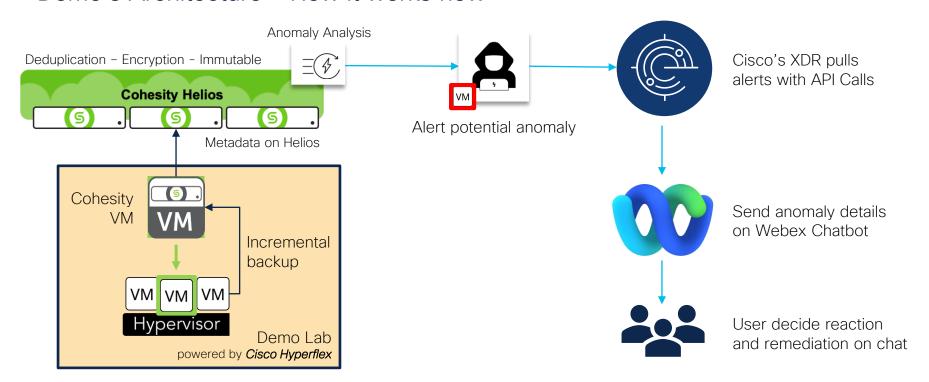
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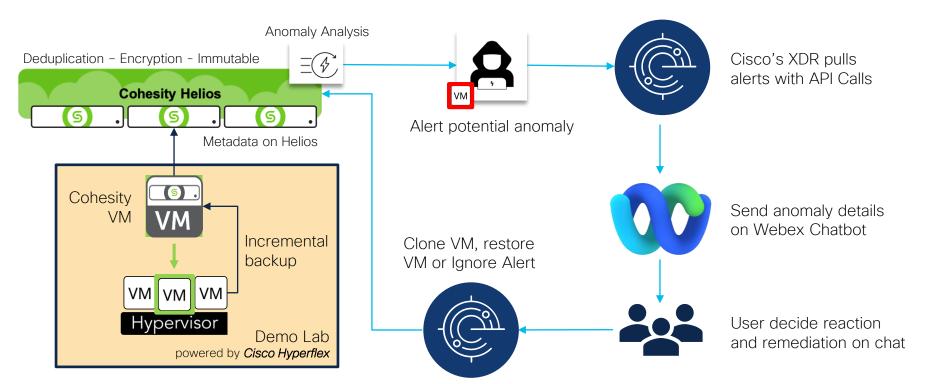














Demo



Behind the scenes Secure X Orchestrator



To infinity.. And beyond!



Secure Endpoint

gathers the timestamp of the device before the malware



To infinity.. And beyond!





Secure Endpoint

gathers the timestamp of the device before the malware

Most recent backup, less secure **OR**Most secure backup, less recent

To infinity.. And beyond!





Secure Endpoint

gathers the timestamp of the device before the malware

Most recent backup, less secure **OR**Most secure backup, less recent



Umbrella

checks for suspicious DNS requests and web traffic



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To infinity.. And beyond!





Secure Endpoint

gathers the timestamp of the device before the malware

Most recent backup, less secure **OR**Most secure backup, less recent



Umbrella

checks for suspicious DNS requests and web traffic

Reduce false positives





"Diversity is a mix and inclusion is making the mix work."

Andrés Tapia

Power in diversity, thanks to Cisco XDR





Thank you and remember your parachute

Fill out your session surveys!



Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.



These points help you get on the leaderboard and increase your chances of winning daily and grand prizes



Continue your education

- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand

Cisco Live Challenge

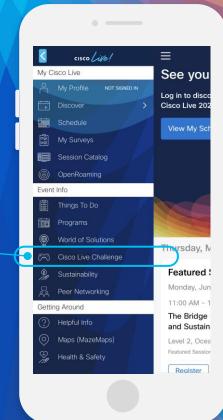
Gamify your Cisco Live experience! Get points for attending this session!

How:

- Open the Cisco Events App.
- 2 Click on 'Cisco Live Challenge' in the side menu.
- 3 Click on View Your Badges at the top.
- A Click the + at the bottom of the screen and scan the QR code:







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