



The bridge to possible

How to bring network relevance to cloud workloads

Stay ahead of cloud projects with network-derived intelligence

Bassam Khan

VP of Product and Technical Marketing, Gigamon

Bassam.khan@gigamon.com / @bassamkhan



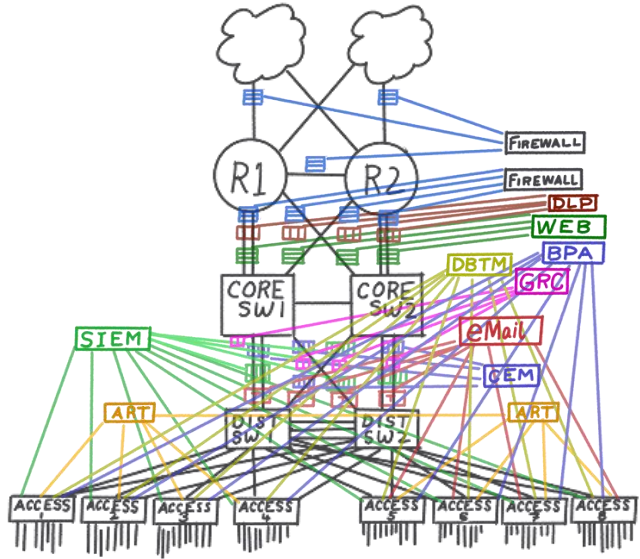
Infrastructure Visibility Story Through Pictures

- Yesterday's Picture
- Tomorrow's Picture
- New Invention Picture
- Demo Pictures

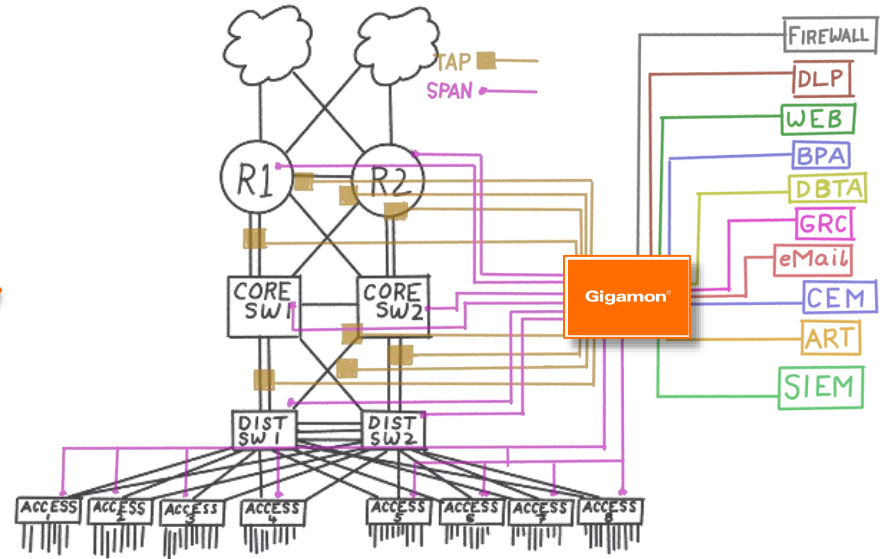
Datacenter Evolution

How We've Brought Our Mission to Life

Complexity → Blind Spots, Cost, Inflexibility



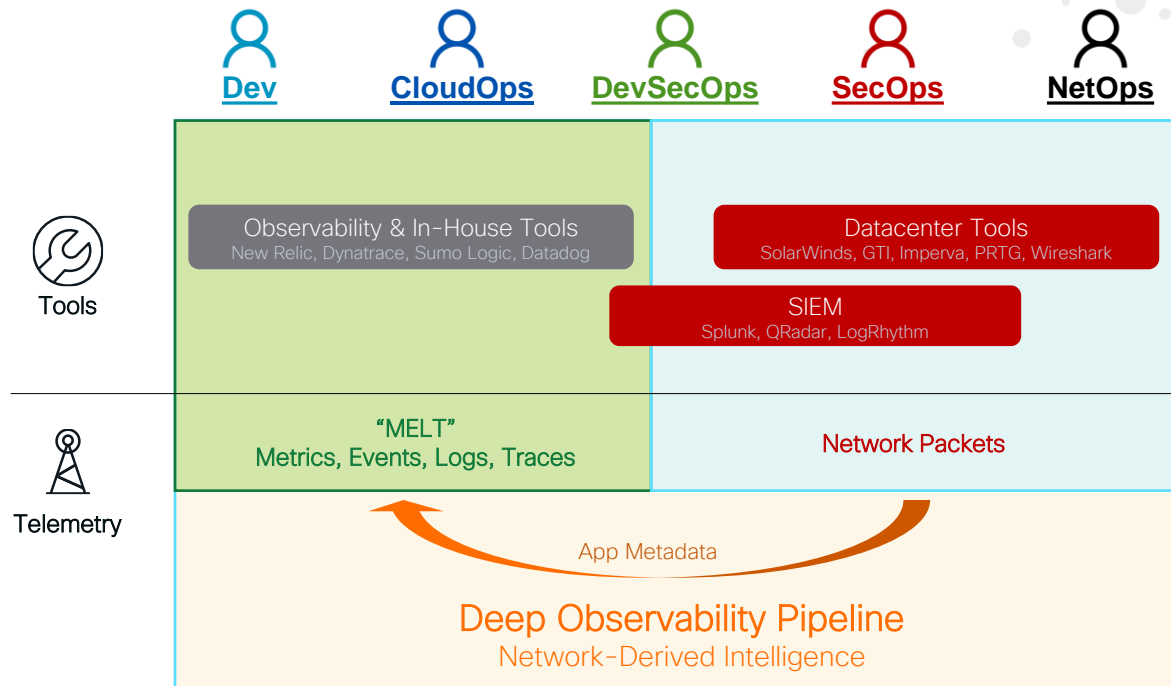
Visibility → Security, Efficiency, Agility



Future of Cloud Ops and Security

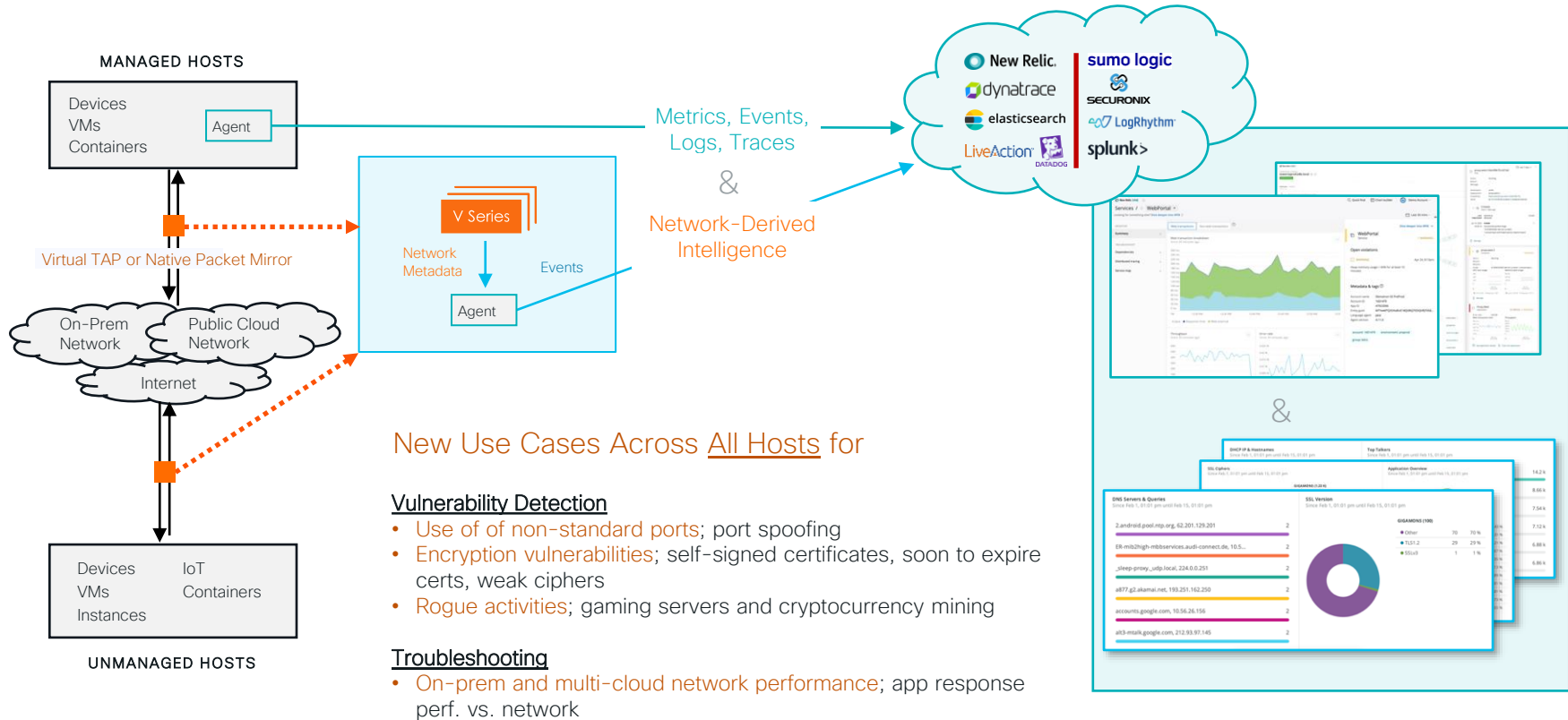
Trends in Cloud Security: Teams, Tools and Telemetry

- Teams
 - Typically non-collaborative
 - Security is a common goal
- Security functions
 - **Detection:** SecOps
 - **Response:** DevOps & NetOps
 - Vulnerability **mitigation** & **Zero Trust:** SecOps & DevOps & NetOps
- Tools are siloed
 - Reason: Siloed telemetry
- Deep observability
 - Network intelligence as MELT
 - Brings security use cases to observability tools
 - Brings NetOps into cloud platforms



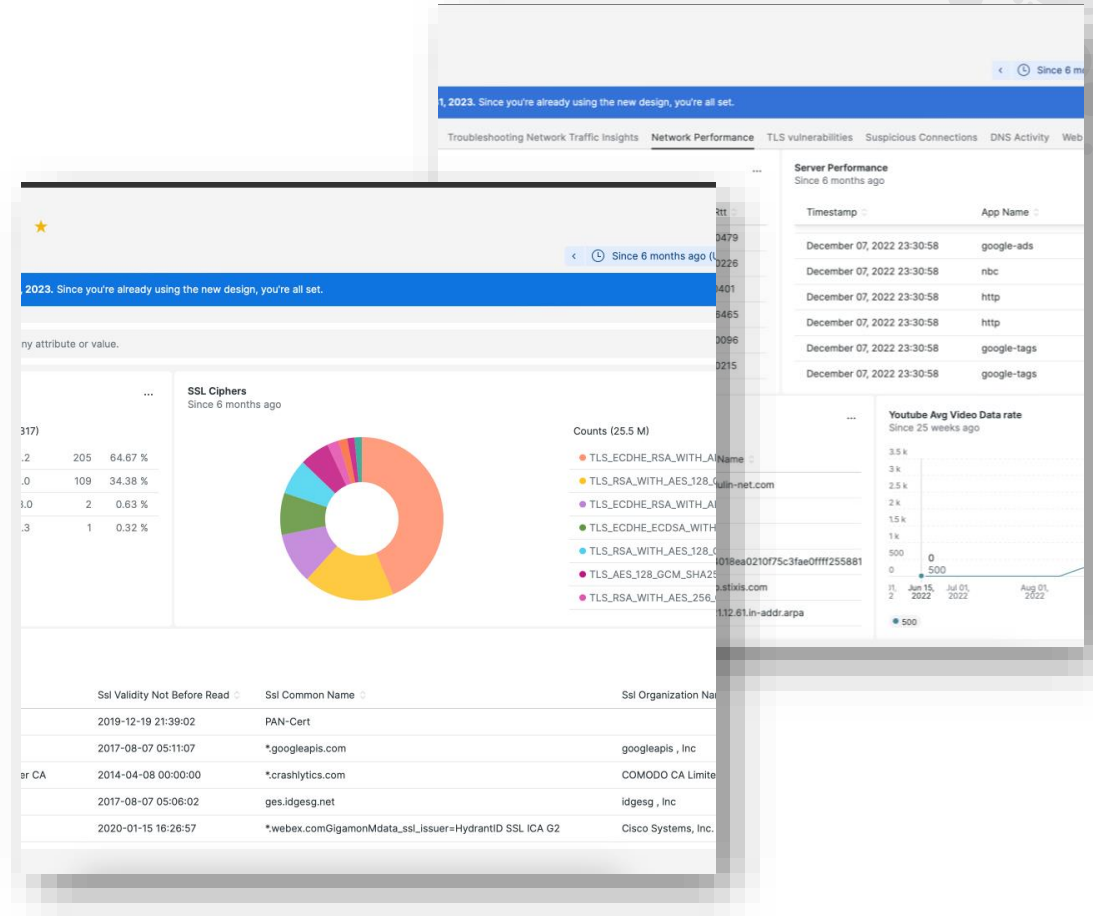
How to Bring Network Visibility to Cloud

Bringing the “Network Perspective”

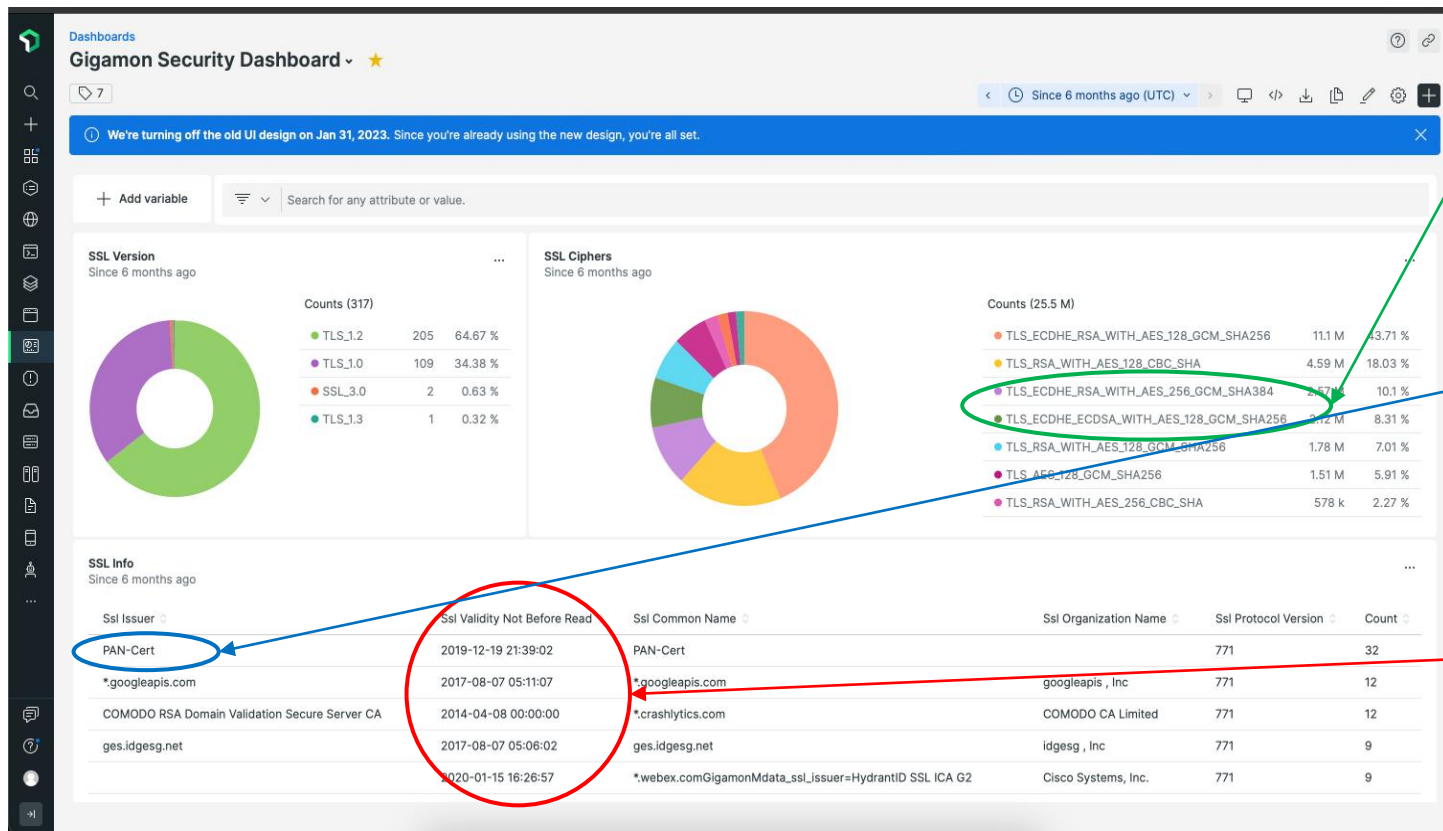


Some Use Cases

1. Security Vulnerabilities
2. Performance Troubleshooting
3. Rogue Apps
4. Data Exfiltration
5. Suspicious Connections



Use Case: TLS/SSL Security Vulnerabilities



• Weak/deprecated ciphers

• Self-signed certs

• Expired or soon to expire SSL certificates

Use Case: Suspicious Connections/Port Spoofing

Detecting SSH traffic on Non Standard Port 443

Edit

Export ▾

...

Select Time

Last 7 days ▾

Hide Filters

Session information as reported by AWS VPC logs on port 443

srcaddr ▾	dstaddr ▾	srcport ▾	dstport ▾	Application ▾
10.0.5.8	10.0.7.215	47936	443	
10.0.5.8	10.0.7.215	47936	443	
10.0.5.8	10.0.7.215	34774	443	
10.0.5.8	10.0.7.215	34774	443	
10.0.5.8	10.0.7.215	54814	443	
10.0.5.8	10.0.7.215	54814	443	
10.0.5.8	10.0.7.215	37344	443	
10.0.5.8	10.0.7.215	46042	443	
10.0.5.8	10.0.7.215	46042	443	
10.0.5.8	10.0.7.215	47936	443	
10.0.5.8	10.0.7.215	47936	443	
10.0.5.8	10.0.7.215	47936	443	

Session information as reported by Gigamon Application Metadata on port 443

src ▾	dst ▾	spt ▾	dpt ▾	Application ▾
10.0.5.8	10.0.7.215	47936	443	ssh
10.0.5.8	10.0.7.215	47936	443	ssh
10.0.5.8	10.0.7.215	47936	443	ssh
10.0.5.8	10.0.7.215	47936	443	ssh
10.0.5.8	10.0.7.215	47936	443	ssh
10.0.5.8	10.0.7.215	34774	443	ssh
10.0.5.8	10.0.7.215	34774	443	ssh
10.0.5.8	10.0.7.215	37344	443	ssh
10.0.5.8	10.0.7.215	37344	443	ssh
10.0.5.8	10.0.7.215	46042	443	ssh
10.0.5.8	10.0.7.215	46042	443	ssh
10.0.5.8	10.0.7.215	41498	443	ssh
10.0.5.8	10.0.7.215	41498	443	ssh

With cloud provider & observability tools

BRKPAR-2906

With Deep Observability

11

Take Away

1. Cloud architects and app owners are not aware of the value of network-derived intelligence
2. New “deep observability pipeline” technology brings Layer 4-7 intelligence
3. You can offer new security and troubleshooting capabilities for cloud teams

☒ Next steps

- Come by Gigamon booth for a demo
- Schedule a demo

Cisco Webex App

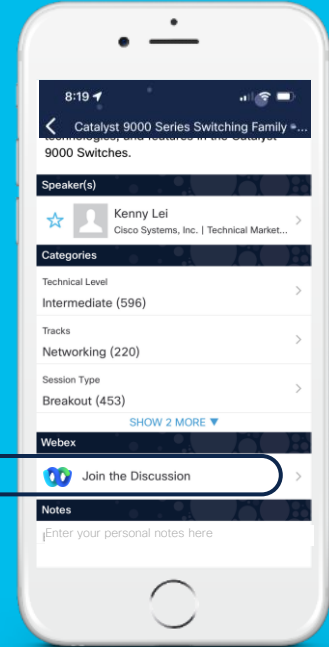
Questions?

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 until February 24, 2023.



Complete your Session Survey

- Please complete your session survey after each session. Your feedback is important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (open from Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Session Catalog and clicking the "Attendee Dashboard" at <https://www.ciscolive.com/emea/learn/sessions/session-catalog.html>



Continue Your Education



Visit the Cisco Showcase for related demos.



Book your one-on-one Meet the Engineer meeting.



Attend any of the related sessions at the DevNet, Capture the Flag, and Walk-in Labs zones.



Visit the On-Demand Library for more sessions at ciscolive.com/on-demand.



The bridge to possible

Thank you

CISCO *Live!*

CISCO *Live!*

ALL IN