The Network Diary in Detective Hands



Cisco Webex App

Questions?

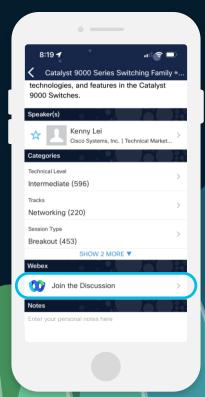
Use Cisco Webex App to chat with the speaker after the session

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 7, 2024.

https://ciscolive.ciscoevents.com/ciscolivebot/#BRKOPS-2547







- Detectives: The Origin
- Detective Diary
- Paradigm shift

Detectives: The Origin

- Detectives have a rich and intriguing history
- In Ancient Rome, the "frumentarii" acted as intelligence agents, investigating crimes and gathering information
- The first modern detective force was established in France in 1812 by Eugène François Vidocq, a former criminal turned private investigator
- Vidocq's innovative methods, such as undercover work and crime scene analysis, laid the foundation for modern detective work



Detective diary contents

- Case information (date, location, summary)
- Observations (desc. of surroundings, physical evidence, notable details)
- Notes
- Clues and evidence (physical evidence, photos, documents, other relevant items)
- Follow-ups (additional interviews, forensics, collab with other investigators)
- Analysis and insights (brainstorming, identifying patterns, making evidence-based connections)
- Progress tracking (milestones, breakthroughs, challenges, significant developments)
- Actions
- Case closure (identification of culprit, proceedings, documentation of resolution)





Paradigm shift

Cloud is the new datacenter

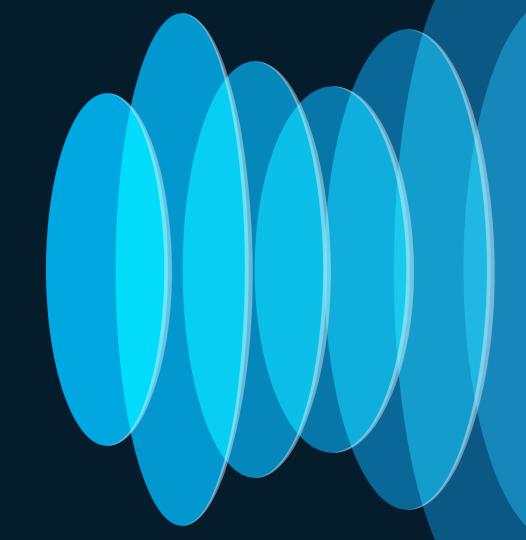
SaaS is the new application stack

Home is the new office!

Internet is the new network



Cloud is the new datacenter

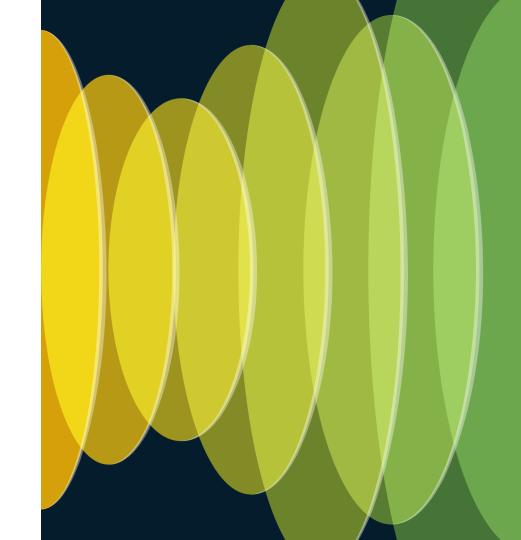


Key findings from the Cloud Report 2022 edition



- Cloud providers are not immune to performance issues
- Cloud providers prioritize and make network decisions based on their interests
- There is no steady state in the cloud

Demo



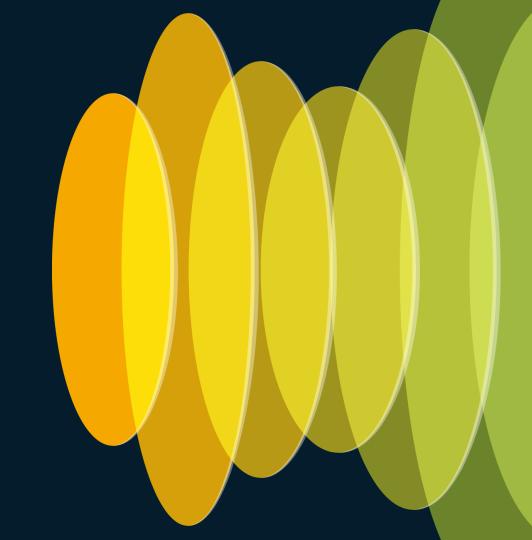
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Before you deploy to the cloud...

- Test performance to and between different regions
- Cloud requires you to take a "data-driven leap of faith"
 - You need additional confidence and visibility because you can't rollback on cloud
- Once you're deployed within a region, it's hard to uproot
 - Leverage an always-on monitoring/alerting strategy to maintain and audit performance
- Understand where the data is travelling within a provider and what paths it takes
 - Compliance and data sovereignty are important to consider



SaaS is the new app stack



The New Application Reality



 Hybrid Cloud: 80% are combining the use of public and private clouds



Architectures: 45% of applications in 2021 use microservices

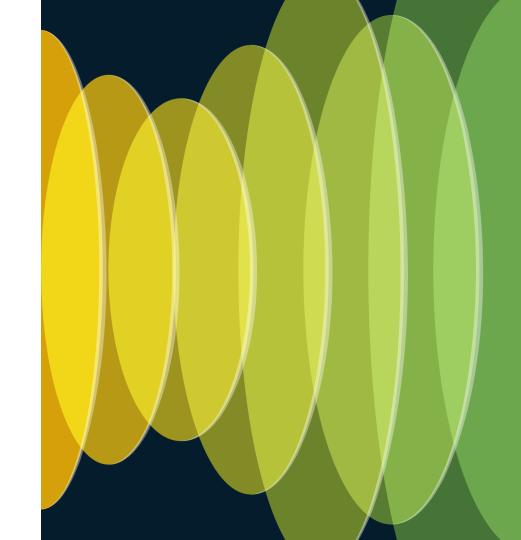


• Delivery: 43.6M live websites in 2022 use CDN



• Experience: 22% of retail sales will come from e-commerce by 2023

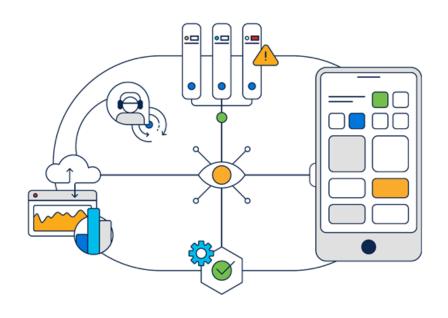
Demo



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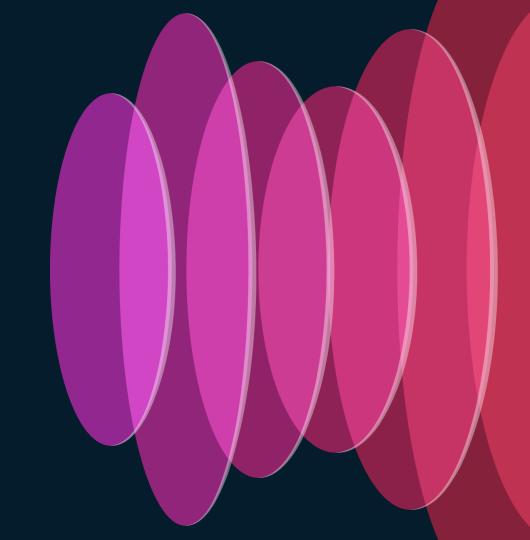
Full Stack Observability

Full stack observability is an approach to monitoring and troubleshooting that provides a holistic view of the entire application stack, from the infrastructure to the application layer. It combines metrics, logs, and tracing data from all stack layers, along with machine learning and analytics tools, to provide real-time visibility into the health and performance of the entire system.





Home is the new office



Work has changed forever

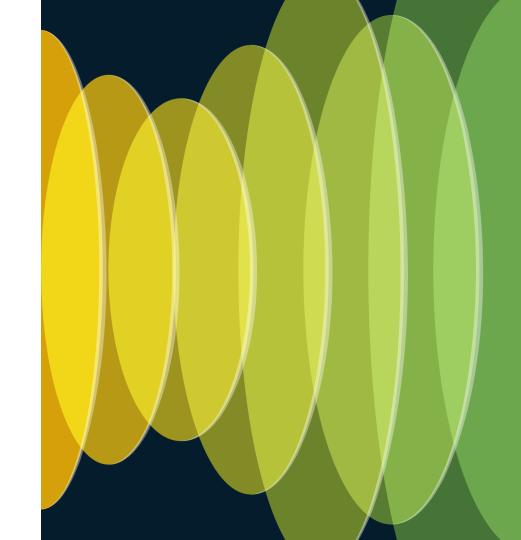
"In the hybrid work world, app experience is critical to work experience"

-Hybrid Work Index (Cisco)

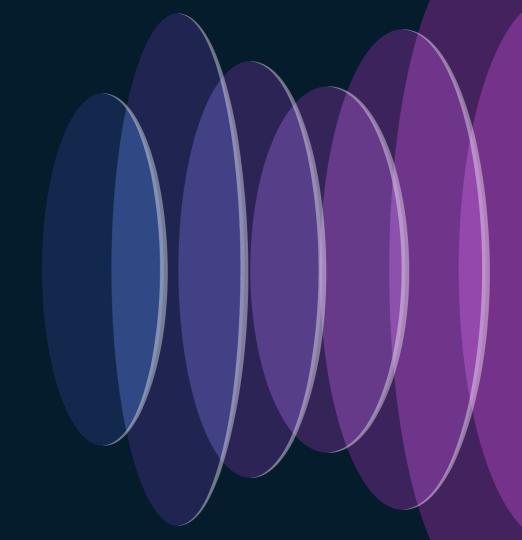




Demo



Internet is the new network



The New Reality



 40% of all enterprise locations are going to internet access as their only WAN transport



 60% of IT spending on application spending will be directed toward cloud technologies by 2024

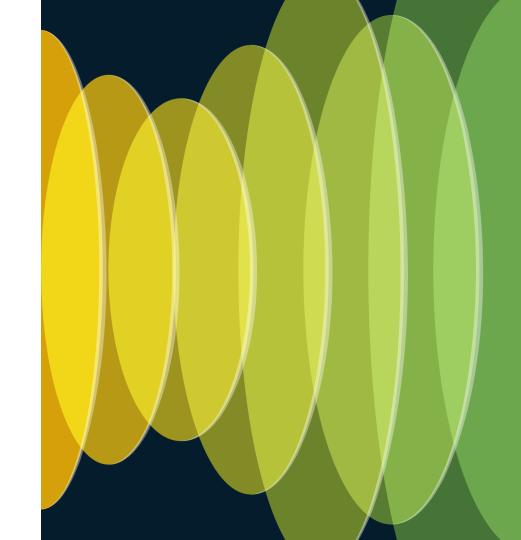


 65% of enterprises will have implemented SD-WAN by 2025



 SSE Adoption: driven by increased flexibility to secure the hybrid workforce and branch locations

Demo



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To remind ourselves...

Cloud is the new datacenter

SaaS is the new application stack

Home is the new office!

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ThousandEyes as your network diary



Case information: Timeline provides all the details you might need, such as data stamps.



Observations: Timeline provides information on the metric affected (availability, packet loss, latency, etc.)



Notes: Overview pages can and do serve as additional notes, including information about affected agents, affected values and so on



Clues and evidence: Path Visualization and multi-layer metrics provide all the evidence you might need to figure out what happened and who is responsible.



Follow ups: Share links and snapshots can be used to expedite communication and fixes with your providers



ThousandEyes as your network diary



Analysis and insights: Control plane (BGP Route Visualization) correlation with Data plane insights (Route Visualization) along with application health provide deep insights and potentially makes difference between having significant outage going for hours vs mins.



Progress tracking: Timeline provide details about metrics before/during/after the issue. Timeline, along with path visualization can and does makes huge difference in your investigations



Actions: Break down the silos between networking/security/application/SRE teams by having clear indication where the issue is and who should focus on resolution. Speak to providers who might not even be aware that they are affected



Case closure: Use ThousandEyes as aid for your RCA



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Thank you



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