cisco Live!







Give Your NOC a Second Pair of (Thousand)Eyes

Nazar El-Murad Consulting Engineer BRKAPP-1005



Cisco Webex App

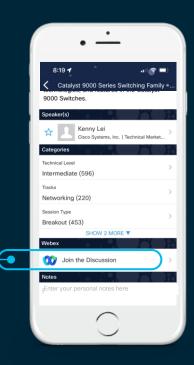
Questions?

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

How

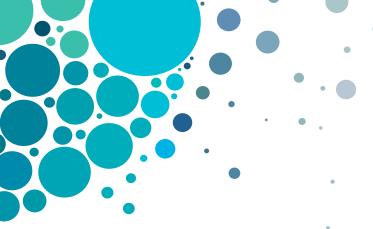
- 1 Find this session in the Cisco Live Mobile App
- 2 Click "Join the Discussion"
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 17, 2022.



https://ciscolive.ciscoevents.com/ciscolivebot/#BRKAPP-1005





Agenda

- What is ThousandEyes?
- Do I Need a Dashboard?
- Prior to the start
- Do's and Don'ts
- How Our Customers Do It
- Takeaways



What is ThousandEyes?



ThousandEyes - Delivering Network Intelligence

At ThousandEyes - We allow you to visualize any network as if it was your own, quickly surface actionable insights, and collaborate and solve problems with your partners.





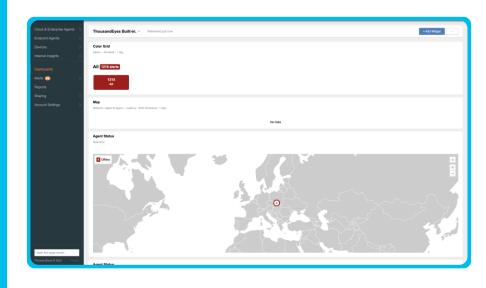


SHARED KNOWLEDGE

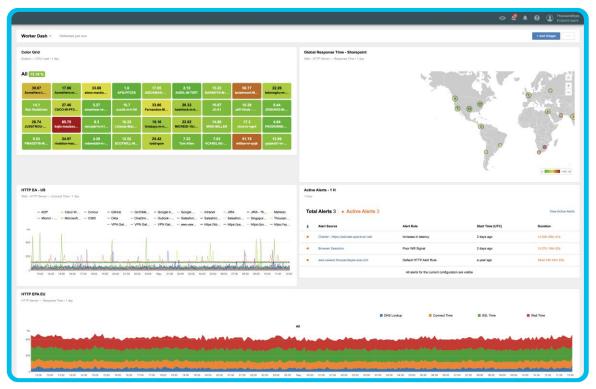
Do I Need a Dashboard?



YES!

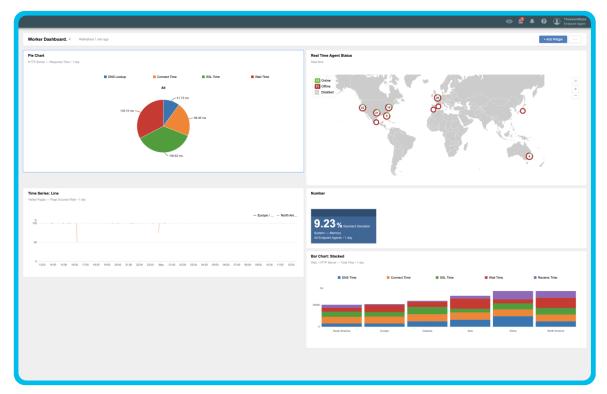






The Dream





The Reality



"Data is like garbage. You'd better know what you are going to do with it before you collect it."

Mark Twain





Prior to the start



Before You Start

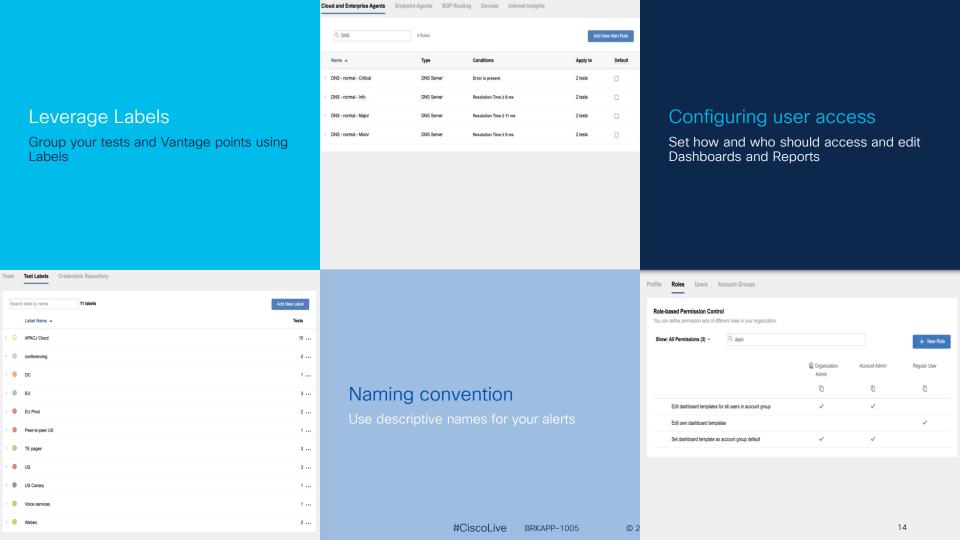
+ or – dashboards as needed

Start slow

Know your audience

Evaluate the Dashboard's purpose





Different Perspectives Lead To The Best Ideas

Operational Dashboards

Real time or close to real time, snapshot of the performance

Analytical Dashboards

Data from the past to identify trends. that can influence future decision-making

Strategic Dashboards

Track performance in relation to your key performance indicators

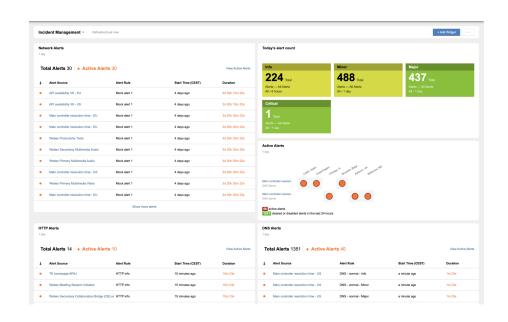


Operational Dashboards



Summarize your Alerts

- Decreases the MTTD
- More visibility into incidents per layer





Network Alerts 1 day

Total Alerts 30 • Active Alerts 30

View Active Alerts

↓ Alert Source	Ale	ert Rule	Start Time (CEST)	Duration
API availability V6	S - EU Mo	ck alert 1	4 days ago	3d 20h 15m 23s
API availability V6	S-US Mo	ck alert 1	4 days ago	3d 20h 15m 23s
Main controller re-	solution time - EU Mo	ck alert 1	4 days ago	3d 20h 25m 23s
Main controller re-	solution time - EU Mo	ck alert 1	4 days ago	3d 20h 25m 23s
Webex Productivi	ty Tools Mo	ck alert 1	4 days ago	3d 20h 25m 23s
Webex Secondary	y Multimedia Audio Mo	ck alert 1	4 days ago	3d 20h 25m 23s
Webex Primary M	lultimedia Audio Mo	ck alert 1	4 days ago	3d 20h 25m 23s
Main controller re-	solution time - US Mo	ck alert 1	4 days ago	3d 20h 25m 23s
Webex Primary M	lultimedia Video Mo	ck alert 1	4 days ago	3d 20h 25m 23s

Show more alerts

Mock alert 1

3d 20h 25m 23s 4 days ago

15 minutes ago

Today's alert count

224 Total Alerts - All Alerts All • 6 hours

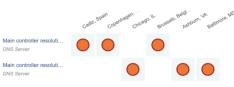
Minor 488 Total Alerts — All Alerts All • 1 day

437 Total

Critical

Active Alerts

1 day



56 active alerts

DNS Alerts 1 day

1311 cleared or disabled alerts in the last 24 hours.

HTTP Alerts 1 day

Total Alerts 14 • Active Alerts 10

Webex Secondary Collaboration Bridge (CB) se HTTP info

Main controller resolution time - EU

View Active Alerts

Total Alerts 1351 • Active Alerts 40

View Active Alerts

+	Alert Source
•	TE homepage
•	Webex Meetin

Alert Rule

Start Time (CEST) Duration

15m 23s

15m 23s

Alert Source

Main controller resolution time - US

Alert Rule DNS - normal - Info

a minute ago

a minute ago

Start Time (CEST) Duration

mepage APAJ HTTP info 15 minutes ago x Meeting Session Initiation HTTP info 15 minutes ago

15m 23s

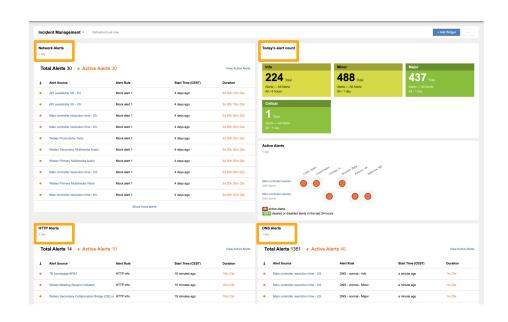
Main controller resolution time - US Main controller resolution time - US BRKAPP-1005 DNS - normal - Minor DNS - normal - Major a minute ago

1m 23s 1m 23s

1m 23s

Summarize your Alerts

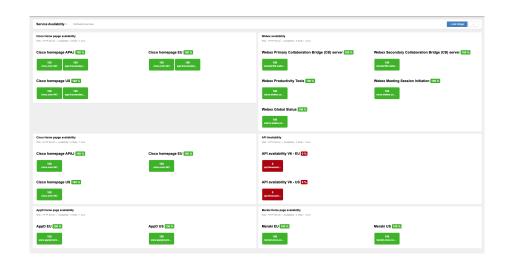
- Decreases the MTTD
- More visibility into incidents per layer



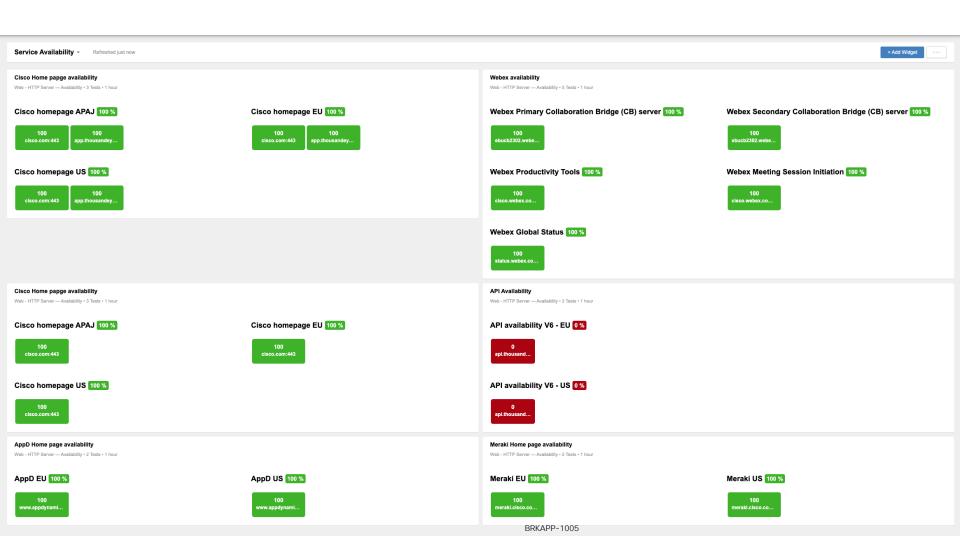


Availability Matters

- Essential SLA
- Most often the resources are Client facing

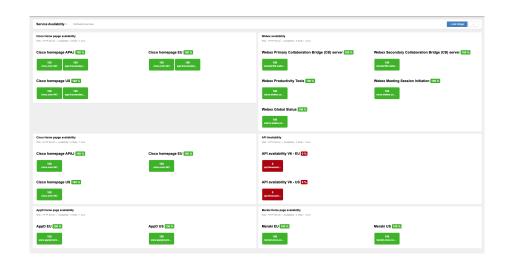






Availability Matters

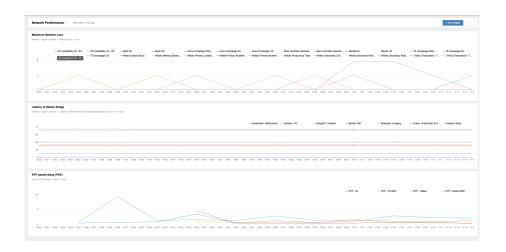
- Essential SLA
- Most often the resources are Client facing



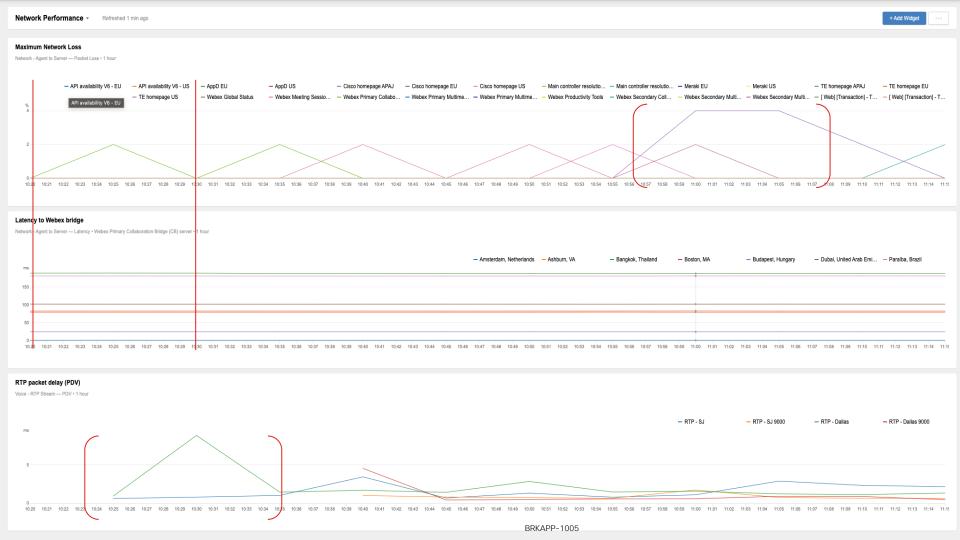


Keep networks simple

- Easily spot unacceptable degradations
- Spot correlations within a system

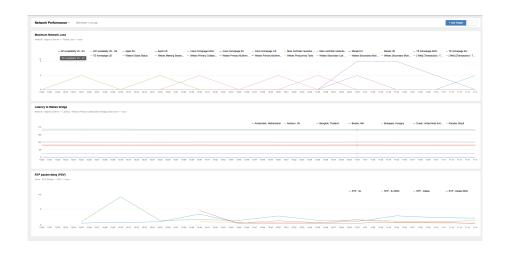






Keep networks simple

- Easily spot unacceptable degradations
- Spot correlations within a system





Set a Baseline





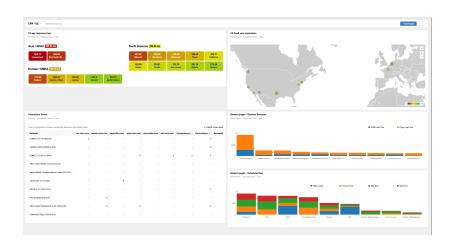


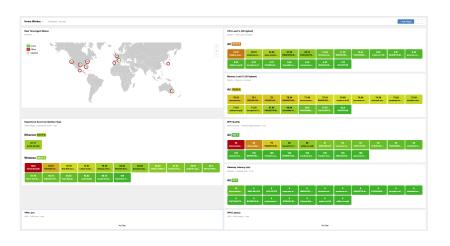
Set a Baseline





End User Monitoring





SaaS Monitoring

Agent Performance Monitoring



TE app response time

HTTP Server - Response Time • 1 day

Asia / APAC 559.34 ms

595.17

Europe / EMEA 422.78 ms

517.88 England

402.47 Canton of Bern 386.82 Leinster

247.4 Utrecht

240.73 North Holland

North America 350.52 ms

cec.cisco.com wwwin.cisco.com www.office.com www.cisco.com www.adobe.com wiki.cisco.com thousandeyes.s... thousandeyes.... thousandeyes....

521.07	433.53	418.45	398.44	355.11
Missouri	Minnesota	Wisconsin	Texas	California
353.08	318.81	314.76	281.14	272.46
Illinois	Florida	New Jersey	Ontario	Oregon

CE SaaS user experiance Visited Pages — Experience Score • 1 day

Connection Errors

Network — Connection Failures • 1 day

COMCAST-7922 (73.64.0.0/13)

Total of Connection Failures (errors) By Networks and Visited Sites

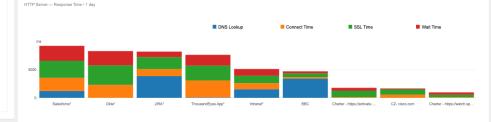
UUNET (173.73.236.0/24) Vodafone GmbH (88.64.0.0/13) UUNET (173,63,112,0/24) TWC-11427-TEXAS (173.172.0.0/14) Meteor Mobile Communications Limited (212.129... Launtel (87.121.72.0/22) KPN B.V. (77.160.0.0/12) Free SAS (82.64.0.0/14) DELTA Fiber Nederland B.V. (83.128.0.0/16)

Visited Pages - Page Load Time • 1 day DOM Load Time Page Load Time 20000

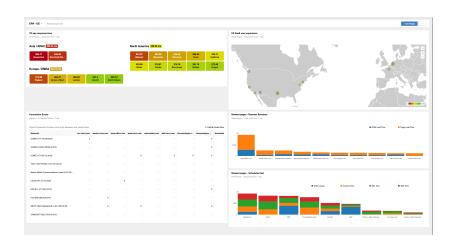
Slowest pages - Browser Sessions

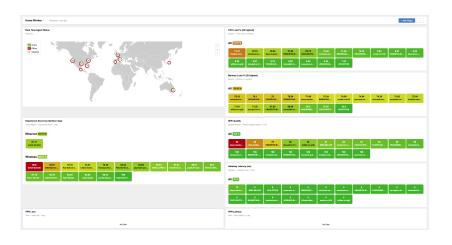
Slowest pages - Scheduled test

1 - 9 of 38 Visited Sites



End User Monitoring

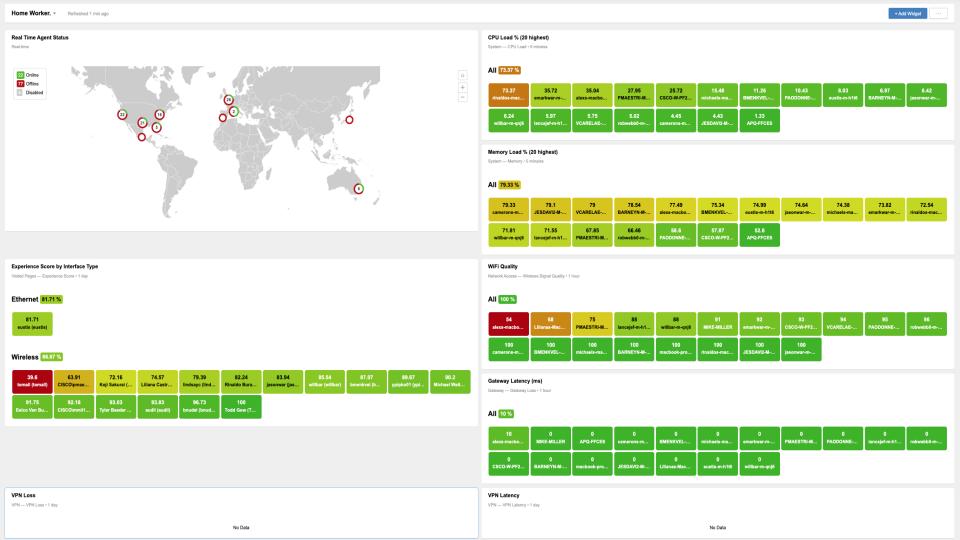


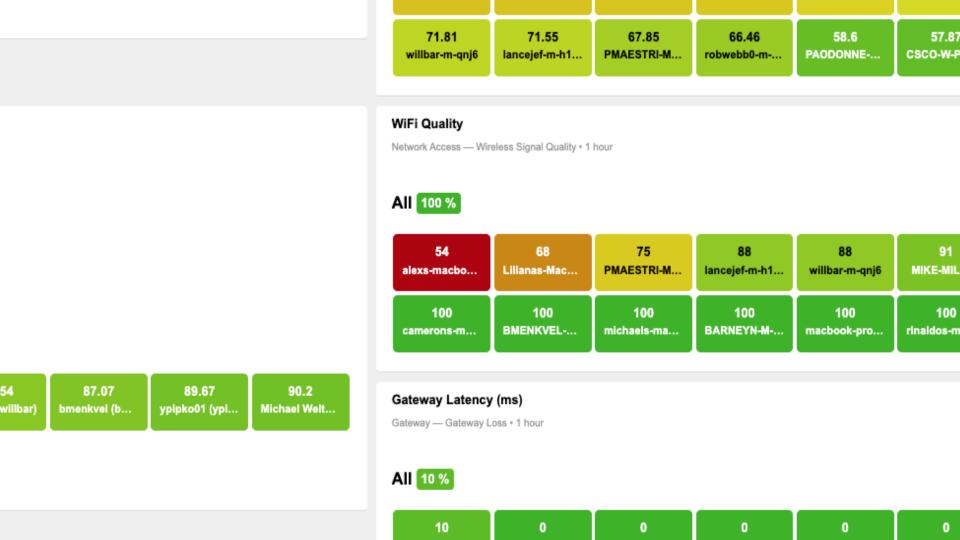


SaaS Monitoring

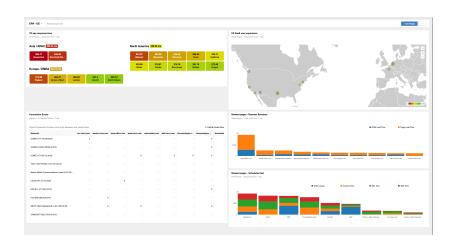
Agent Performance Monitoring

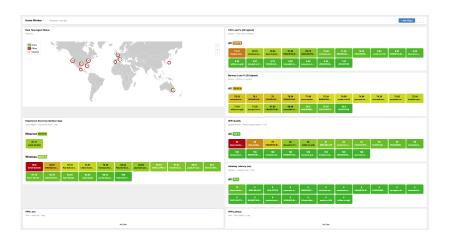






End User Monitoring





SaaS Monitoring

Agent Performance Monitoring

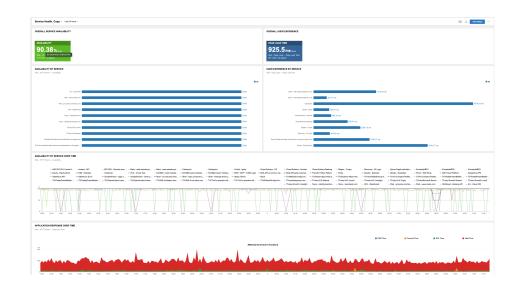


Analytical Dashboards

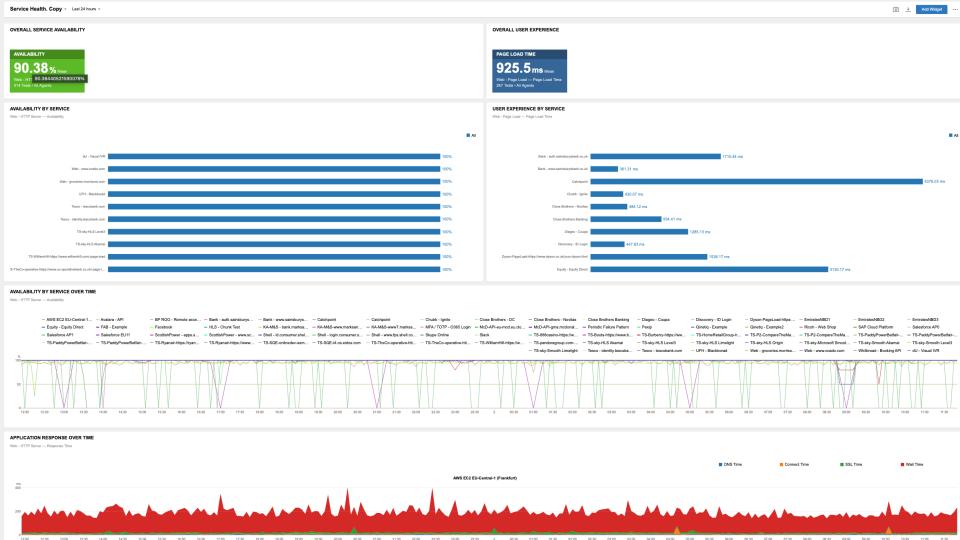


Reports

- As powerful as dashboards
- Additional tools for analysis:
 - Snapshots
 - Scheduled snapshots
 - Offline reports (PDF and CSV formats)
- Time range selector
- Automated report delivery

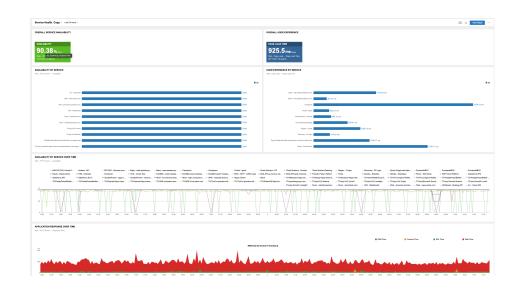






Reports

- As powerful as dashboards
- Additional tools for analysis:
 - Snapshots
 - Scheduled snapshots
 - Offline reports (PDF and CSV formats)
- Time range selector
- Automated report delivery



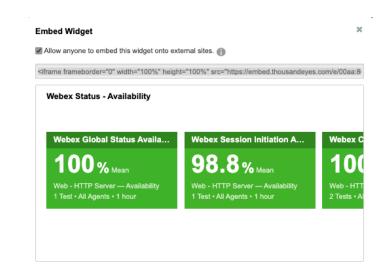


Strategic Dashboards



Metrics that are important to the whole organization

- Can be shared with upper management or staff that have no access to ThousandEyes
- Individuals know how to kick-off performance of key metrics





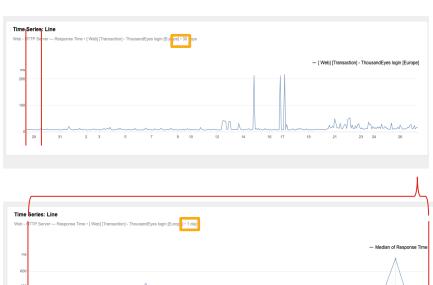
BRKAPP-1005

Do's and Don'ts



Time Spans

 Longer ranges smooth the data which might hide some issues

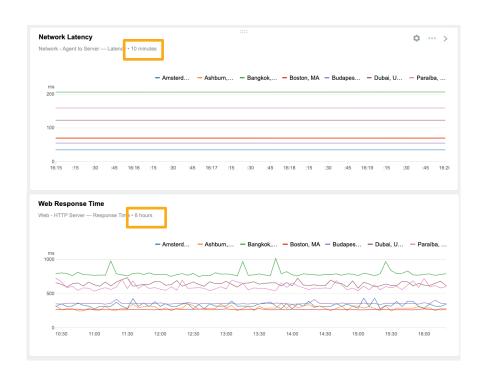






Time Spans

 Use a consistent timespan across all the widgets in a dashboard



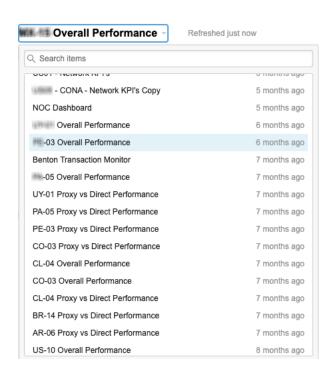


How Our Customers Do It



Dashboard's Purpose

- 2 main purposes
 - Proxy performance comparison
 - Performance overview
- Multiple dashboards with easy-to-read information





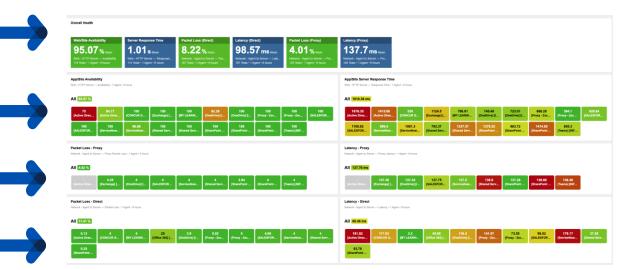
Structural Approach

General overview

Easy to understand color scaling

8h interval on all widgets

Baseline comparison





For Smaller Accounts

Aggregation by Region

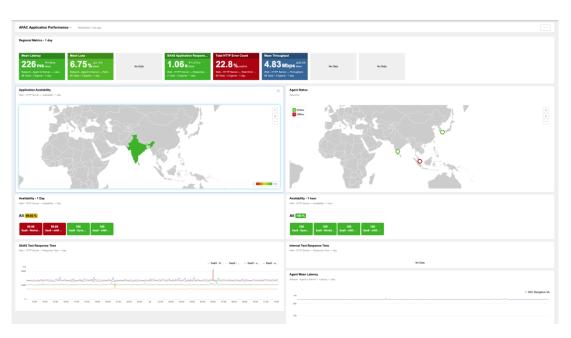


Mixed approach



Hard to read information







Takeaways



- 1. Time savings. Access your data easily
- 2. Faster response and troubleshooting time
- 3. Improved performance analysis





Thank you



Technical Session Surveys

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.





Cisco Learning and Certifications

From technology training and team development to Cisco certifications and learning plans, let us help you empower your business and career. www.cisco.com/go/certs



(CLCs) are prepaid training vouchers redeemed directly with Cisco.



Learn



Train



Certify



Cisco U.

IT learning hub that guides teams and learners toward their goals

Cisco Digital Learning

Subscription-based product, technology, and certification training

Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

Cisco Learning Network

Resource community portal for certifications and learning



Cisco Training Bootcamps

Intensive team & individual automation and technology training programs

Cisco Learning Partner Program

Authorized training partners supporting Cisco technology and career certifications

Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses



Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

Cisco Guided Study Groups

180-day certification prep program with learning and support

Cisco Continuing Education Program

Recertification training options for Cisco certified individuals

Here at the event? Visit us at The Learning and Certifications lounge at the World of Solutions





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!



