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DevNet Zone



The bridge to possible

ThousandEyes on Every Service!

DEVNET-1172

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DEVNET-1172



DevNet Zone

#CiscoLiveAPJC

07-Dec-22 13:00 Breakout DEVNET-1172 - ThousandEyes on every service!

When applications are the business, user experience is the defacto currency. What if the service you build does not have clients but is still part of the internal ecosystem of applications or automation tasks that makes your company competitive and a market leader.

As an application developer you are generating an overload of tickets with painfully long resolution times and endless finger-pointing is not a good way to start. How do you provide value to your organisation and minimise your impact?

In this session, you will go through a demo to understand how to teams can use ThousandEyes to create a better user experience by continuously monitoring business-critical services and hybrid applications. As a developer it's good to know how the world sees your creations and how they are monitored. Speed up the mean time to innocence, be part of the solution and not the problem.

Cisco Webex App

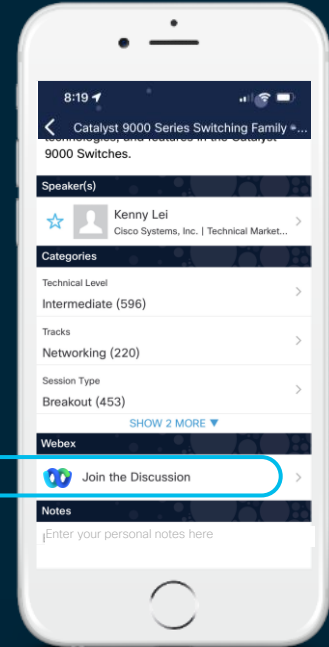
Questions?

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”
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Webex spaces will be moderated by the speaker until Thursday 22 December, 2022.



<https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-1172>



Agenda

- Introduction
- What Problem does ThousandEyes Solve
- How? Show me
- Getting your hands dirty

What Problem does ThousandEyes Solve?



Blindness cost Time, \$\$\$ and Reputation

Detection
(MTTD)

Extremely Long Problem Identification
(MTTI)

Resolution
(MTTR)



Reactive
detection of
service
disruption



Multiple
dependencies
outside of
Operations
control



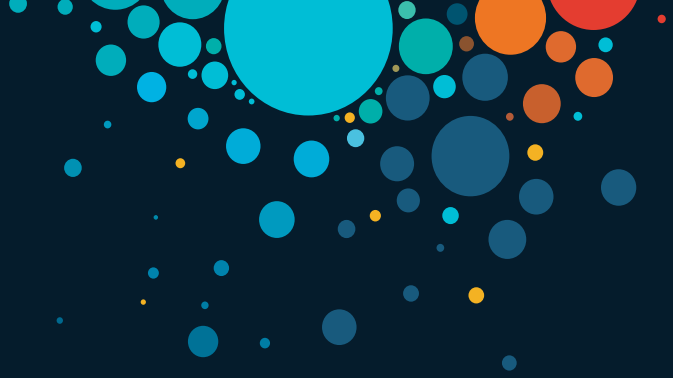
Costly war-
rooms wasteful
finger pointing



No common
understanding
across teams



Contention vs
collaboration
with everyone



*Our Mission is to improve the quality of
the Internet, to improve the quality of
life.*

The Challenge

Visibility and control is **shrinking**

External dependencies are exponentially **growing**

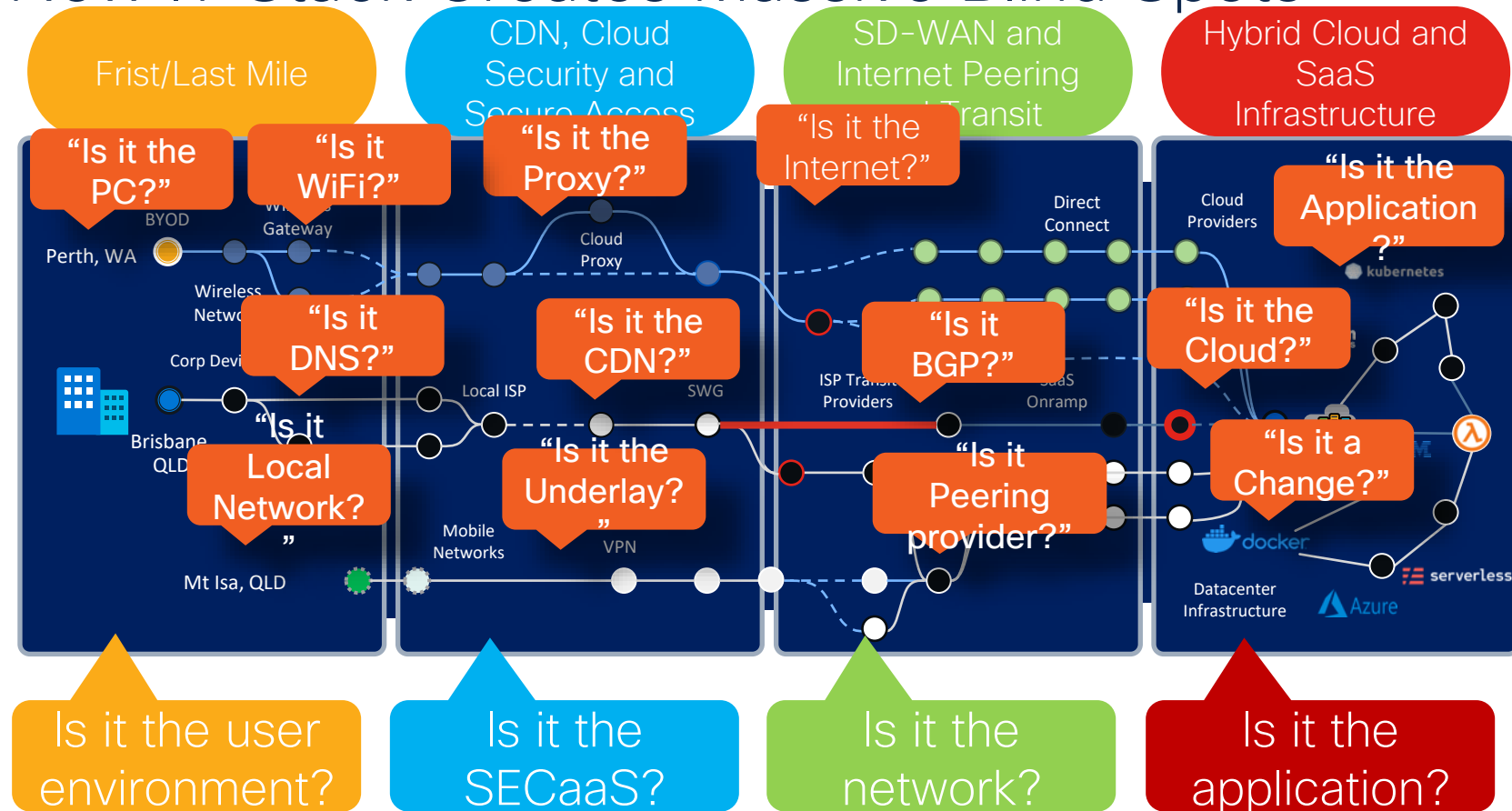
 Data Center →  Cloud

 App Stack →  SaaS + API

 Office →  Home

 Network →  Internet

New IT Stack Creates Massive Blind Spots



How do we do this

We run **TESTs** to collect **Metrics**

- Tests run from Cloud agents and/or Enterprise Agents
- Test **Metrics** include DNS, BGP, QoS, MPLS, Loss, Latency, Jitter and others
- Tests are displayed with Path Visualisation
- Oh and there is also Endpoint Agents as well

The four steps to success

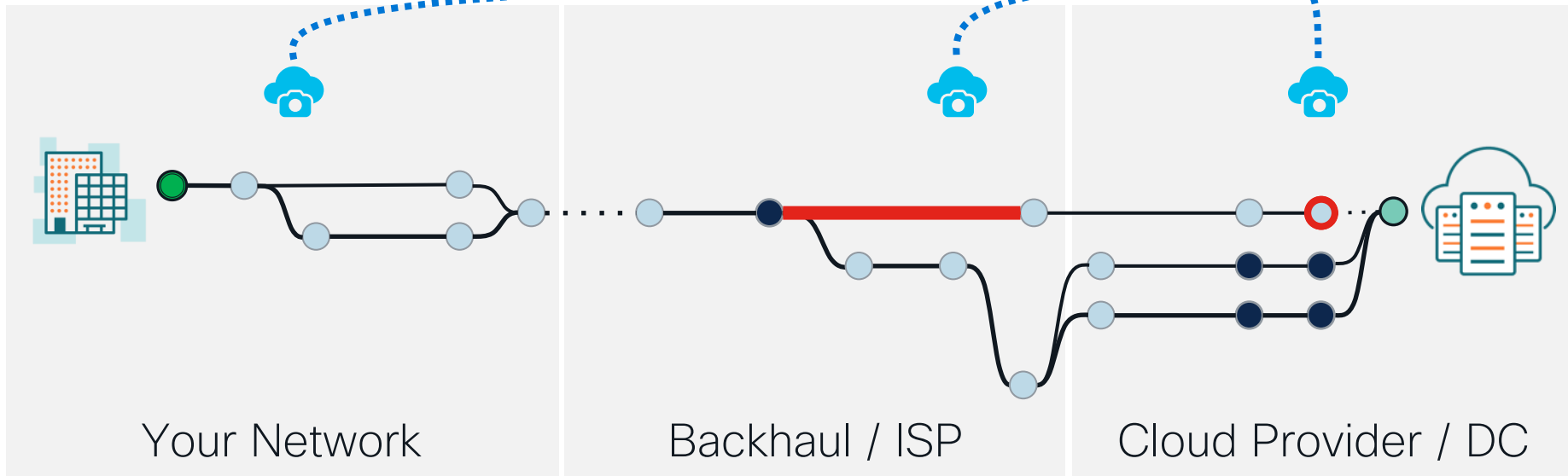
Alerts



Dashboards / Reports



ShareLinks



Summary

- Create great Tests
- Create brilliant Dashboards
- Set Alerts and send them
- Sharelinks / Saved Event

Use Case:

Internal Application developed by us



Use Case - Scenario

- Internal Application developed inhouse
- Customer is moving to Azure
- Application makes calls to public and private APIs
- Recently private APIs were moved to Azure backend API service


Use Case - Questions

- We already have a APM (Application Performance Monitoring) platform, do we need ThousandEyes as well?
- Isn't ThousandEyes only for the Internet?

Modern Operations Visibility Architecture

Monitoring Category

IT Management Domain

Presentation Layer	All
IT Service Management	All
Application Performance Management (APM)	Internally Developed Apps & Services
ThousandEyes 	Digital Experience ISP, DNS, CDN, DDoS. CASB providers SaaS providers SD-WAN Internet transport Internet Routing
Cloud-Specific Management	Cloud Infrastructure
IT Infrastructure Management (SNMP)	
Network Perf Management & Diagnostics (Flow/PCAP)	Internal Data Center & WAN infrastructure
Network Capacity Management (Flow)	
Log Management	All

Complete Application Service Visibility



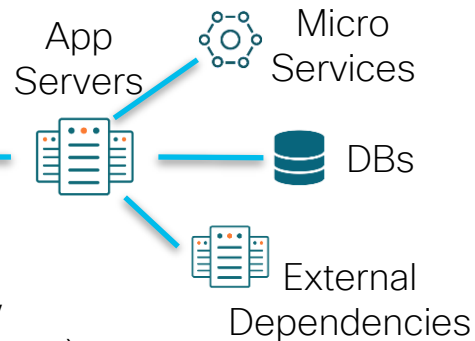
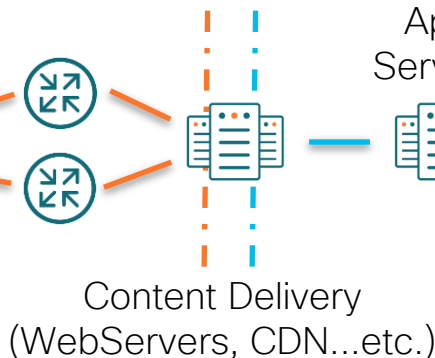
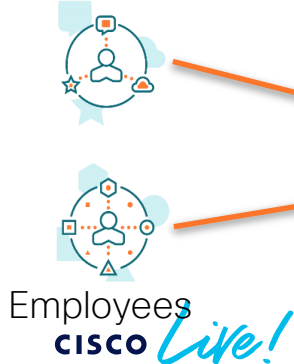
ThousandEyes

Digital Experience and
Internet Visibility

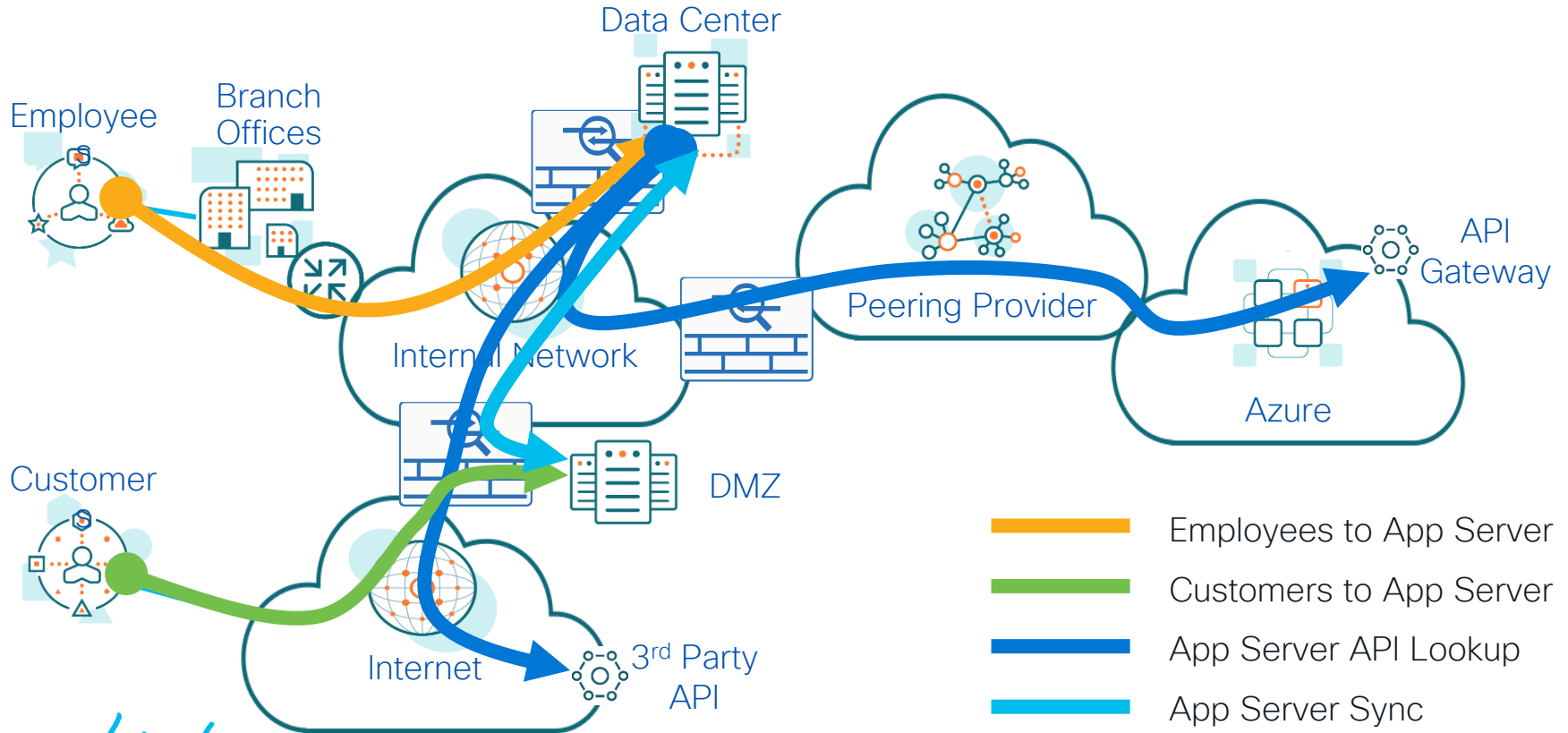
APM

Application Performance
Monitoring

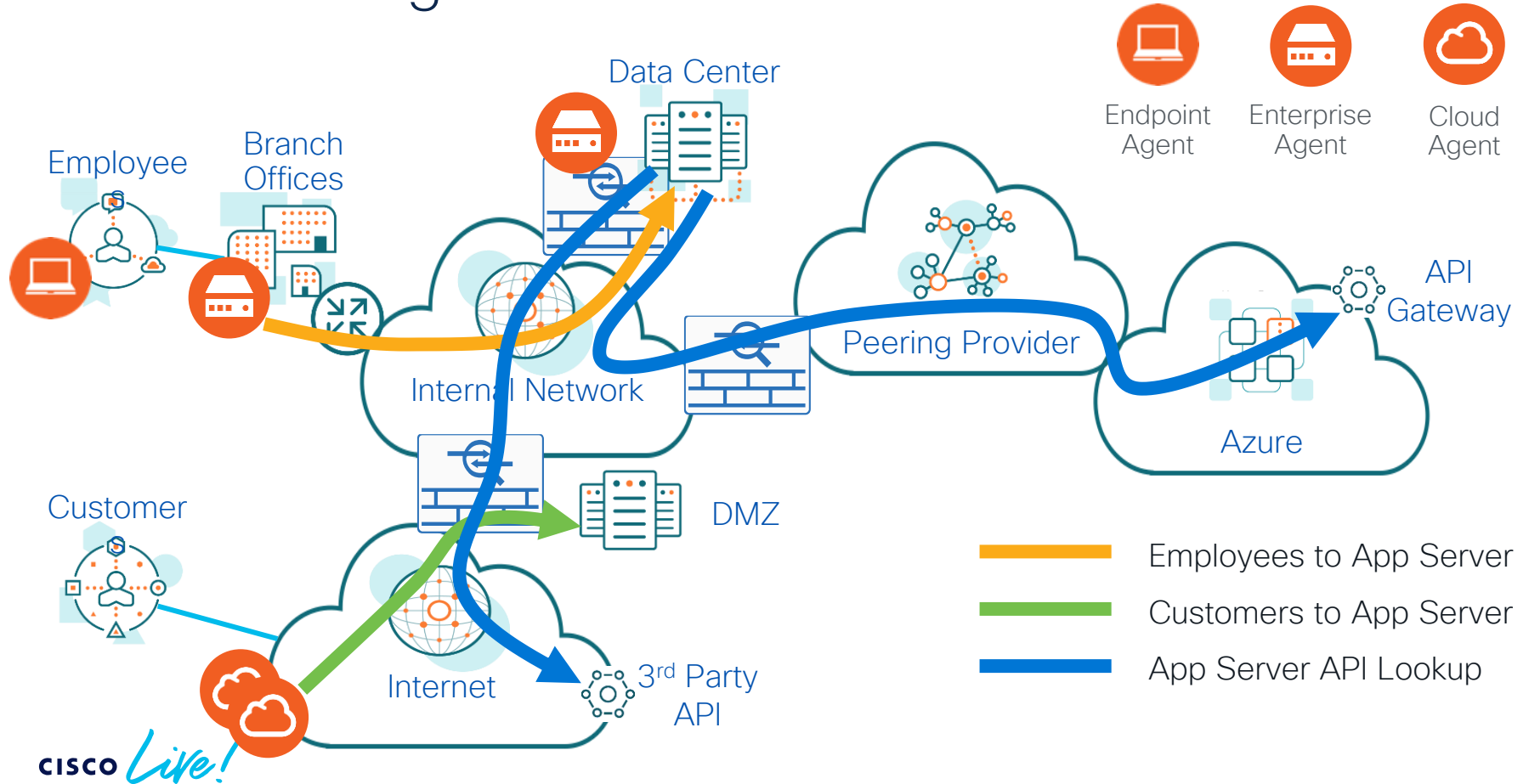
Customers



Scenario Diagram



Scenario Diagram



The background features a collection of circles of various sizes and colors. On the right side, there is a dense cluster of circles in shades of blue, green, orange, and red. On the left side, there are fewer, more sparsely distributed circles in light blue and grey tones.

Lets See this in Action

Key Takeaways

- ThousandEyes performs Synthetic tests to emulate the **User Experience**
- ThousandEyes has extensive Transaction capabilities for **Application** and **API verification**
- Create **Dashboards** to represent **Data** for everyone
- Create **Alerts** that make sense and optimise
- Understand workloads and where they are

Where Next?

- ThousandEyes Documentation – <https://docs.thousandeyes.com>
- Cisco Devnet – <https://developer.cisco.com/thousandeyes/>
- GitHub Repository – <https://github.com/thousandeyes>

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Thank you

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