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WALLIN

#CiscoLive

xvbsdfqsd



The bridge to possible

# OpenTelemetry and Epsagon

A Love Story in Three Acts

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DEVNET-2095

# 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.

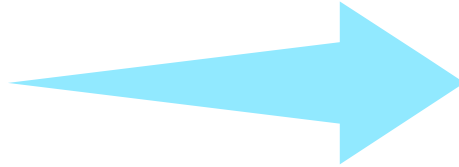


<https://cicolive.ciscoevents.com/cicolivebot/#BRKXXX-xxxx>

# Our Journey With OpenTelemetry

2018

- Proprietary Protocol and SDKs



2022

- Acquired by Cisco
- Supporting native OpenTelemetry
- Part of the OpenTelemetry Community

# Agenda

- Introduction – Observability
- Act I: Epsagon in the Pre-OTel Era
- Act II: Standardization
- Act III: Joining Cisco and the OTel Community
- The Future
- Questions

# About Me

- Yosef Arbiv
- Married to Adi and father of three
- SDK Team Leader at Cisco ET&I
- 12 years of experience as a Team Leader and Software Engineer



# Observability



# Observability

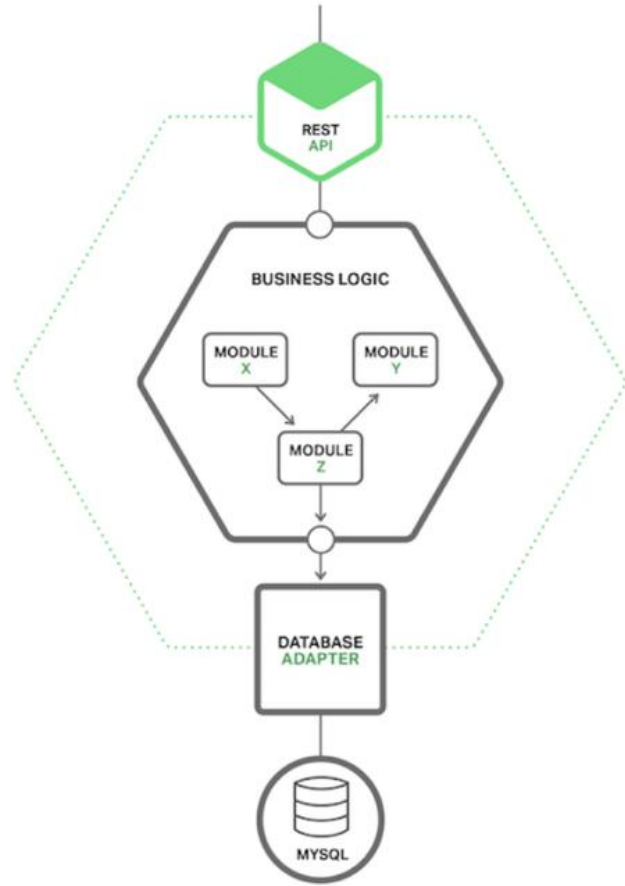
is a measure of how well  
internal states of a system  
can be inferred  
from knowledge of its  
external outputs

Wikipedia

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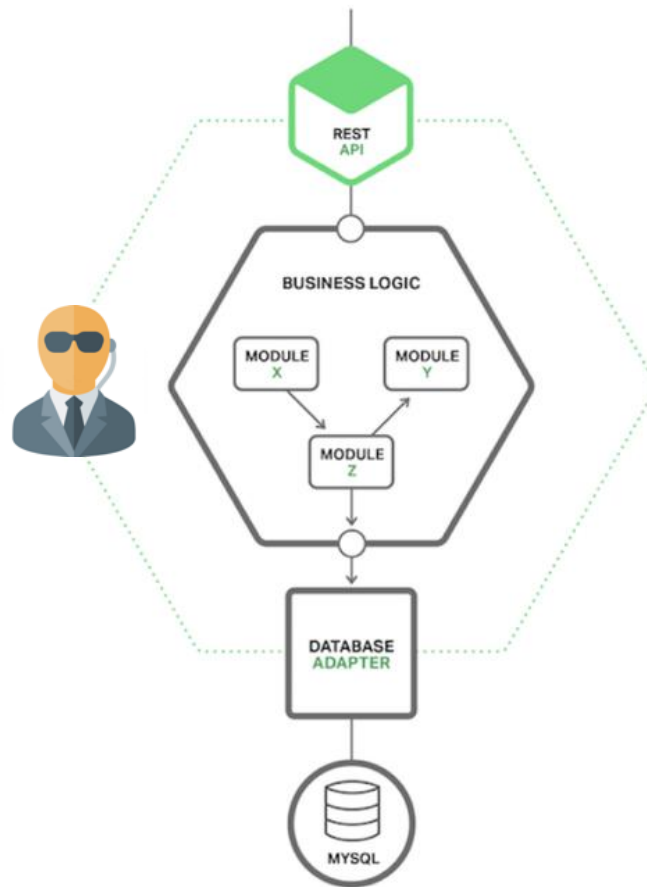


# Monolith



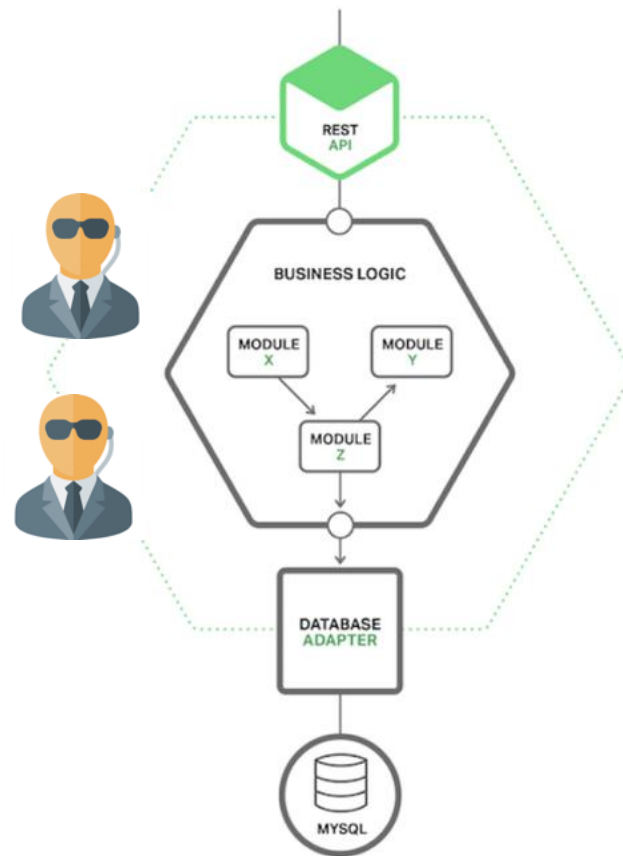
# Metrics Collection

- Agent based
- Collects only host data



# Logs Collection

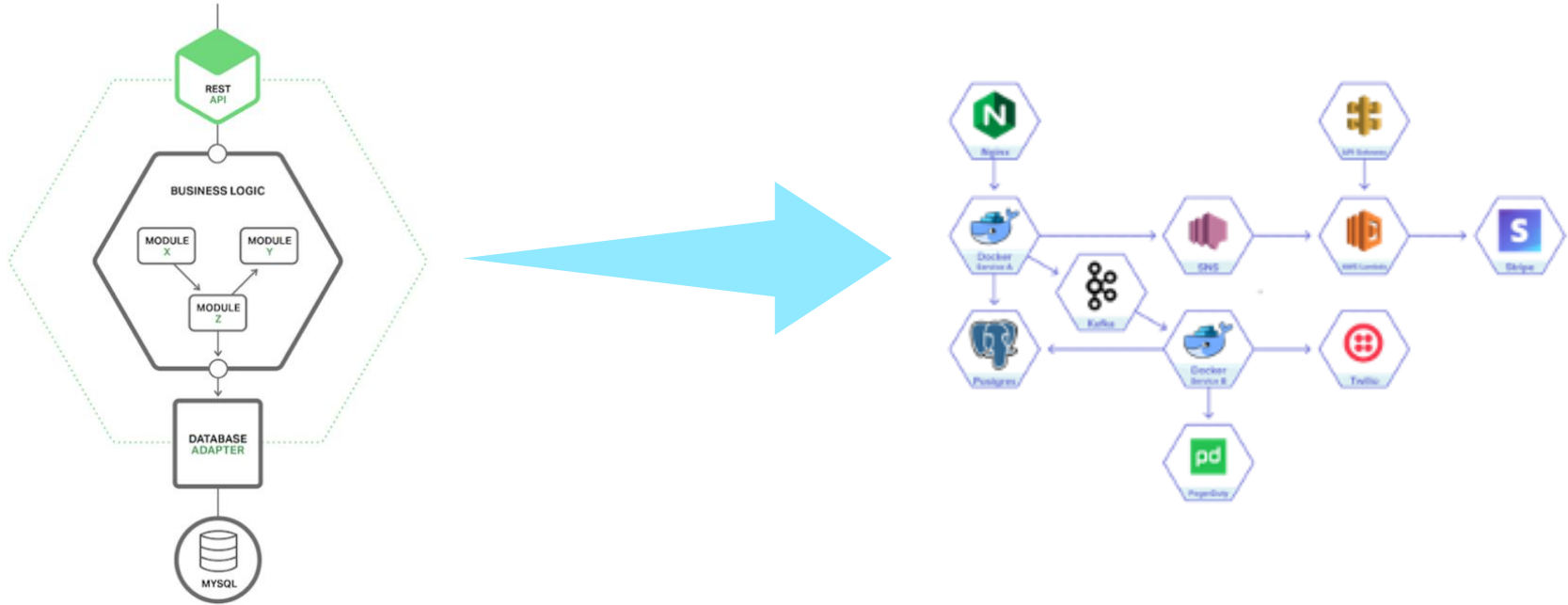
- Agent based
- Dumps locally or remotely

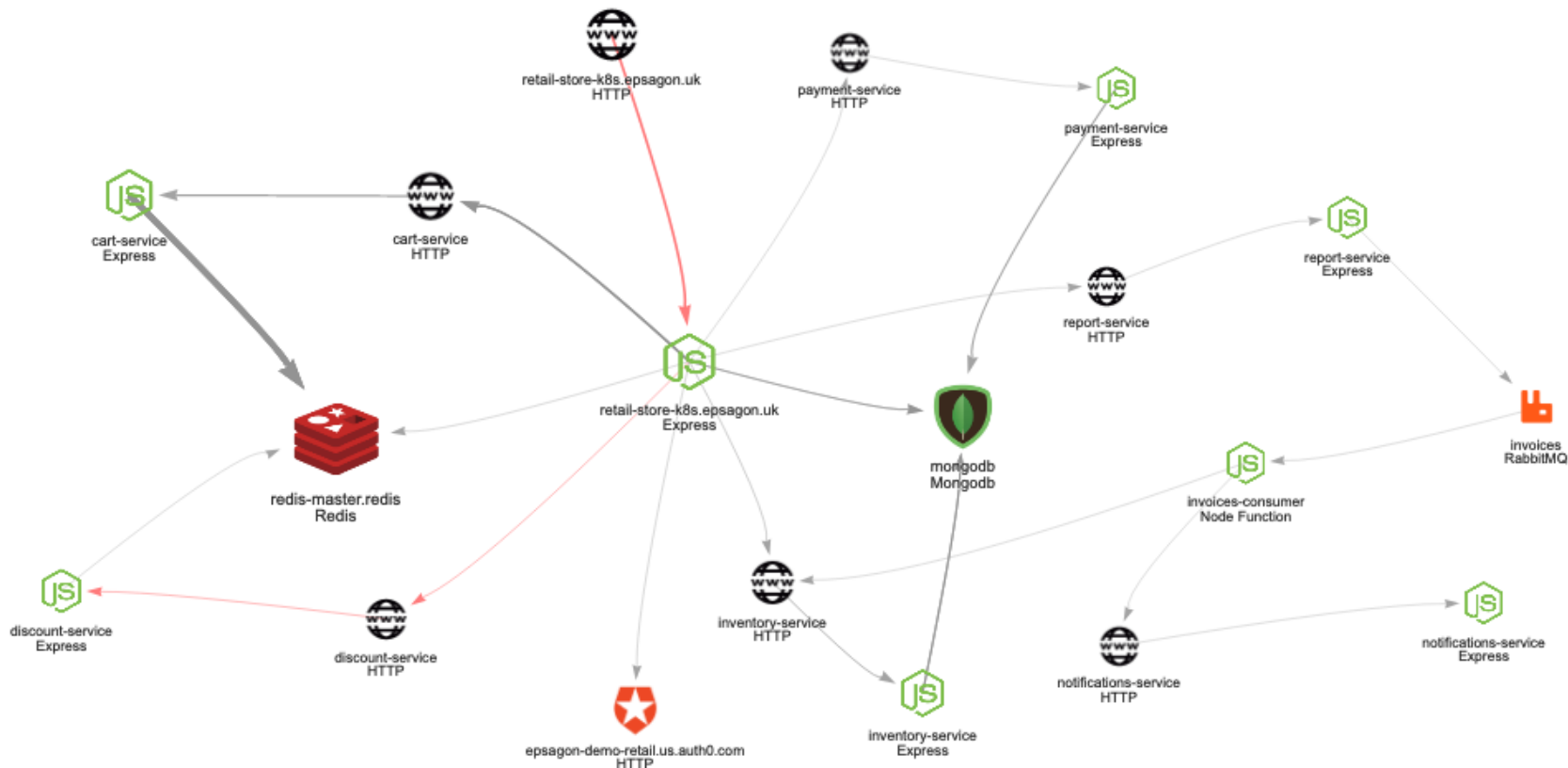


# Fast Forward Into the Future



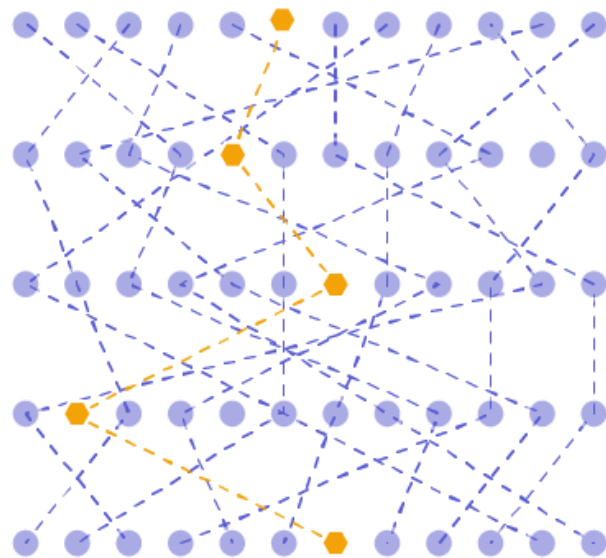
# The Rise of Microservices on the Cloud



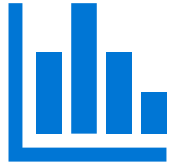


# Challenges

- Observe
- Troubleshoot
- Optimize



# Three Pillars of Observability



Metrics



Logs

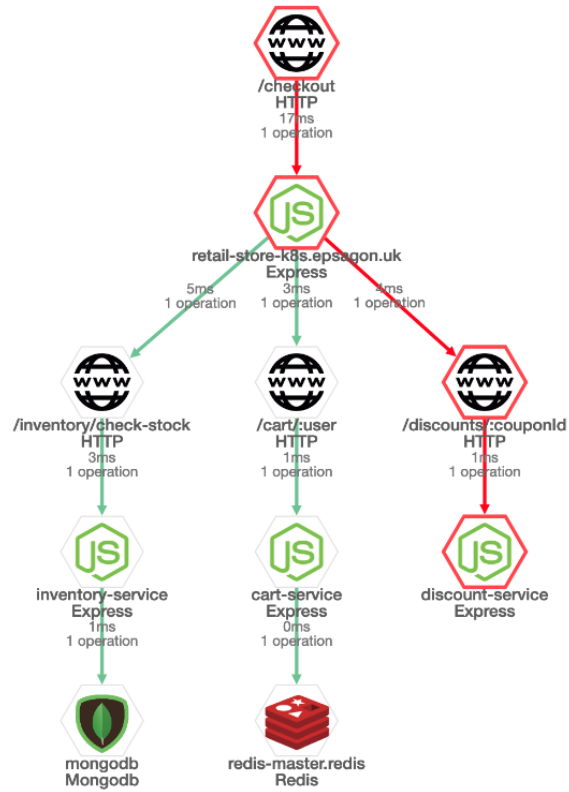


Traces



# Distributed Traces





The background of the slide is decorated with a cluster of circles of various sizes and colors, including shades of blue, green, orange, and red, concentrated on the right side. Scattered circles of different sizes and colors (light blue, grey, dark blue, teal) are also present across the upper half of the slide.

# Act I

## Epsagon in the Pre-OTel Era

# Lessons Learned

- Product defensibility
- Creating an open-source community is hard

A decorative graphic in the top right corner consisting of a dense cluster of circles in various sizes and colors, including shades of blue, green, orange, and red. Some circles are solid, while others are semi-transparent, creating a layered effect. The circles vary in size, with some being quite large and others being small dots.

# Act II

# Standardization

# Lessons Learned

- Forks are fast but hard to maintain
- The tech-debt dilemma

A decorative graphic in the top right corner consisting of a dense cluster of circles in various sizes and colors, including shades of blue, green, orange, and red, with some smaller grey circles scattered around them.

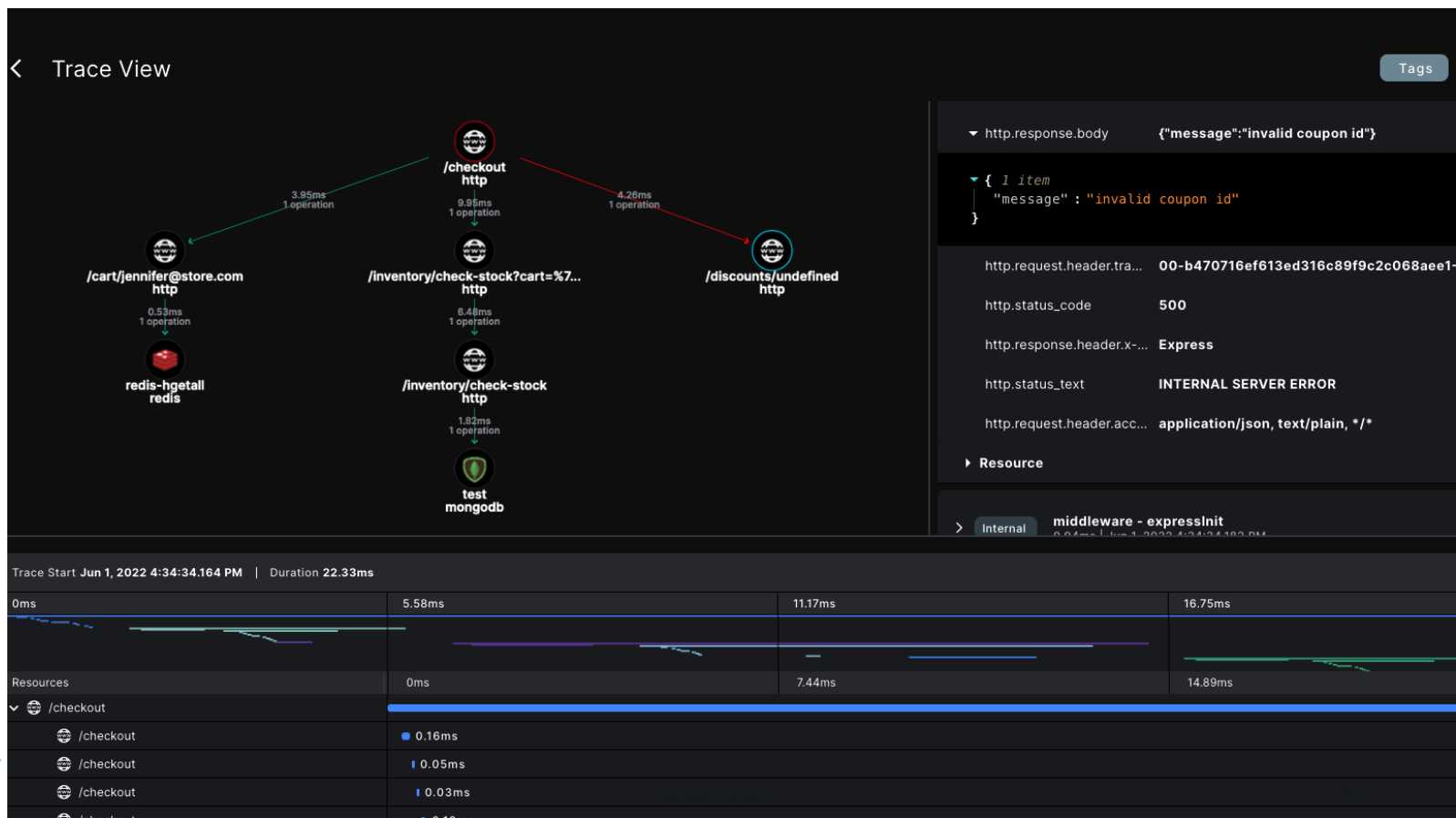
# Act III

## Joining Cisco and the OTel Community





# https://Telescope.app



# The Future

# 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.



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## Learn

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IT learning hub that guides teams and learners toward their goals

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## Certify

### Cisco Certifications and Specialist Certifications

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

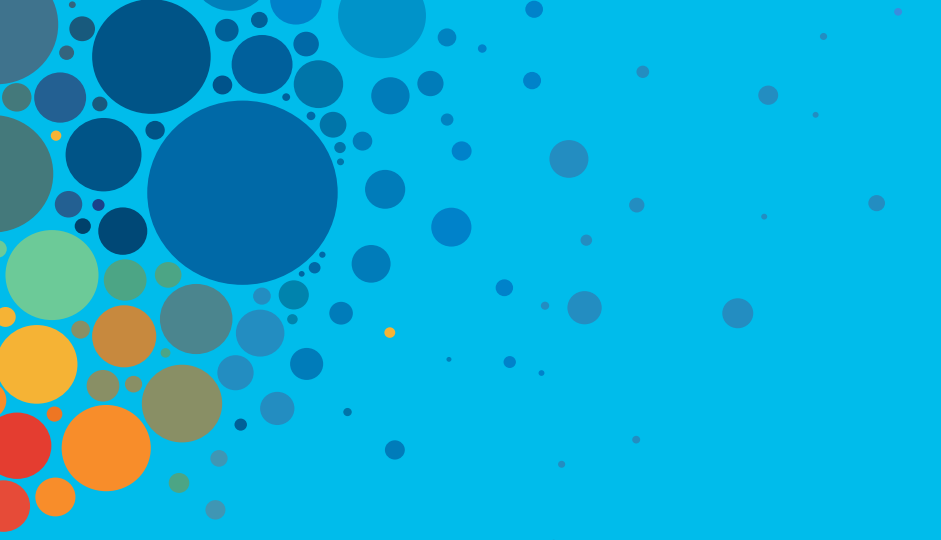
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# Thank you

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