The bridge to possible

You Want to be the DevOps Champion But You Are Not Freddie Mercury

Eduardo Sebastian, Systems Engineer

@edu_sebast

Cisco Webex App

Questions?

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

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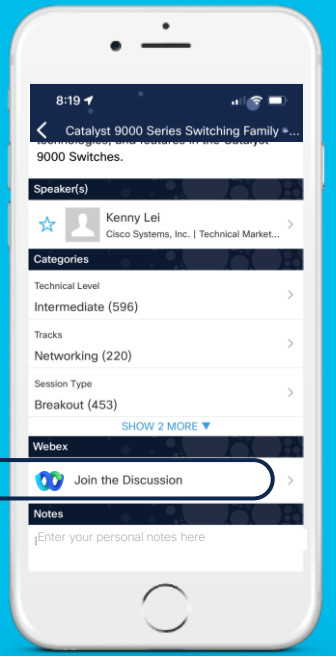
1. Find this session in the Cisco Live Mobile App
2. Click “Join the Discussion”
3. Install the Webex App or go directly to the Webex space
4. Enter messages/questions in the Webex space

Webex spaces will be moderated until February 24, 2023.



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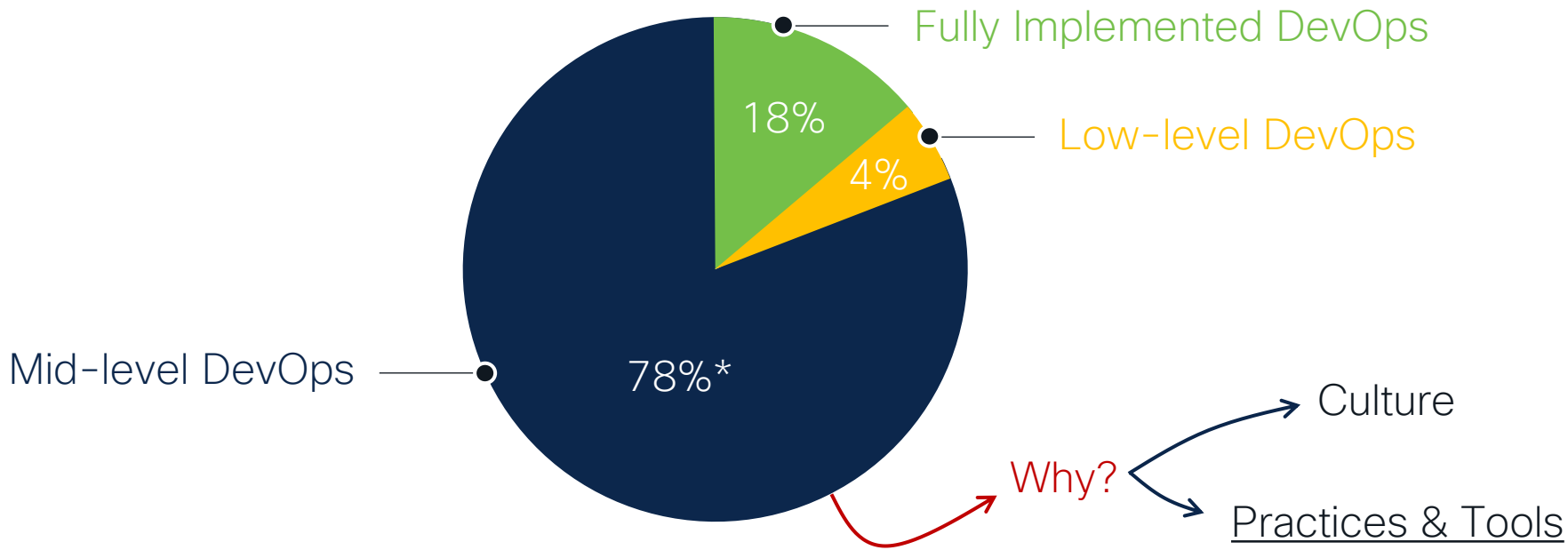
“Almost” everbody is in the journey towards DevOps



*According to Puppet’s 2021 State of DevOps Report

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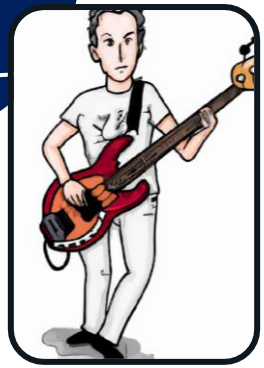
QUEEN

Roger Taylor
Drums

Brian May
Guitar

Freddie Mercury
Vocals & Piano



John Deacon
Bass

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Agenda

- All about DevOps
- DevOps Tools
- DevOps @ Cisco
  - NetDevOps
  - DevOps
  - DevSecOps

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(Not the) Agenda

- DevOps Culture
- Why DevOps
- Technical Deep Dive
- Advanced DevOps Practices
- How to implement DevOps
- NetDevOps Practices

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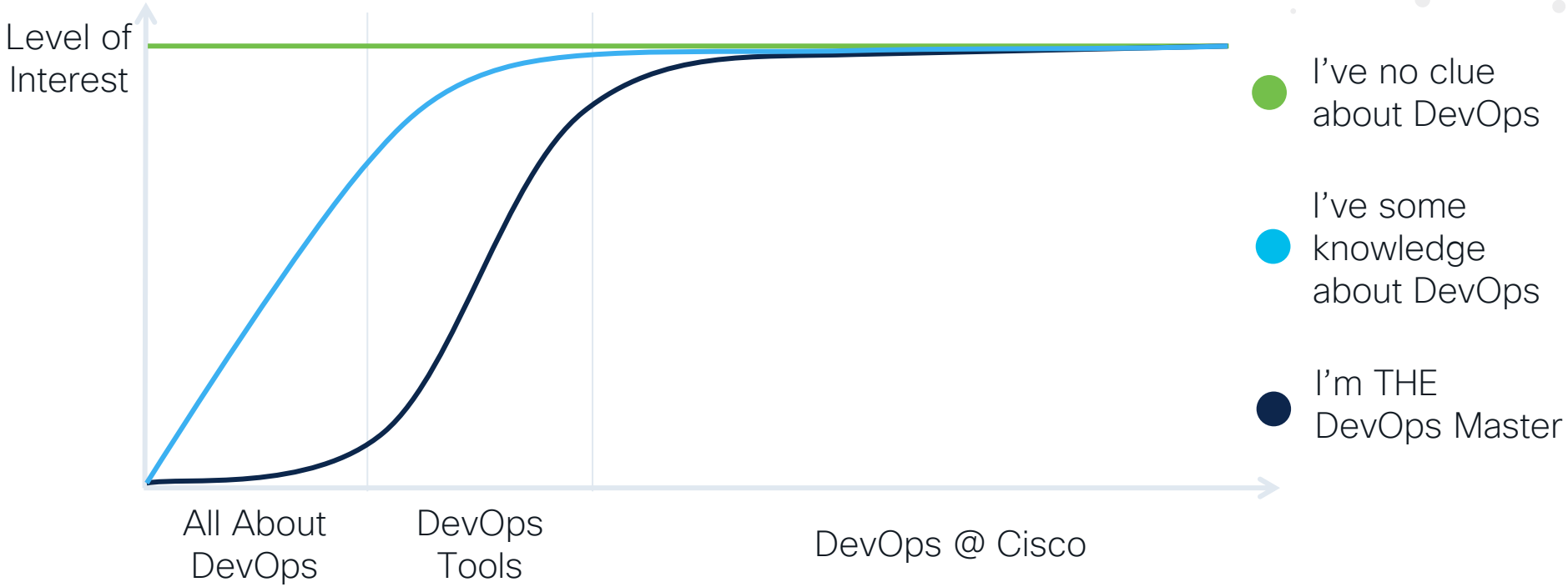
A graph to set the stage



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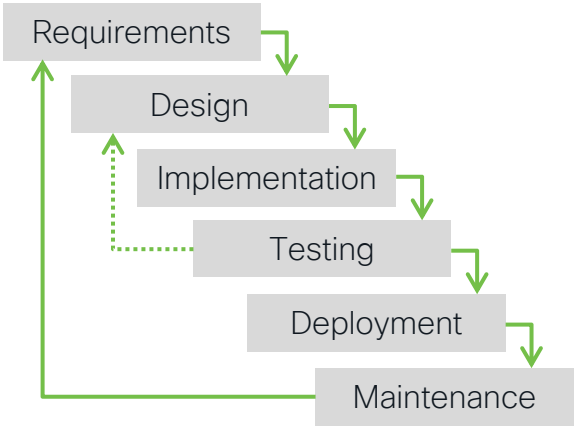
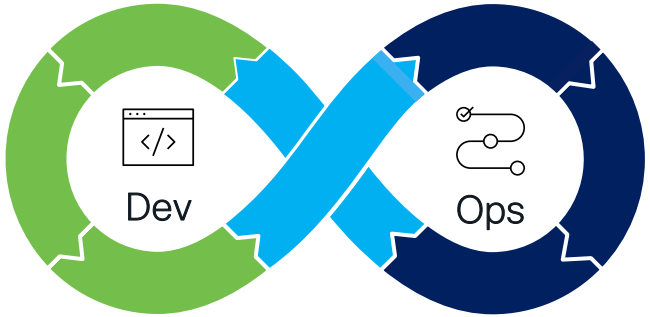
We're coming from a traditional mode of operation





- Higher Cost
- Less Customizable

- Better User Experience
- Lower Risk

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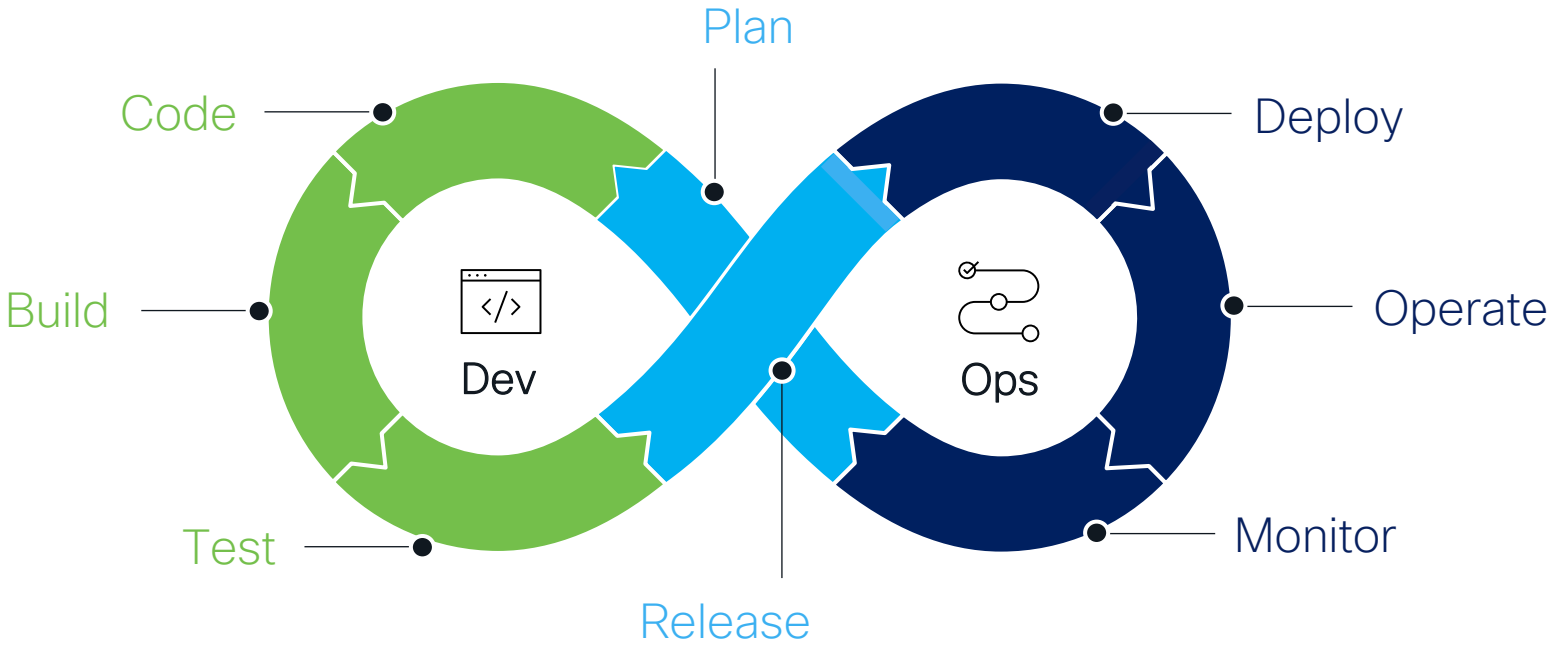
The DevOps Lifecycle



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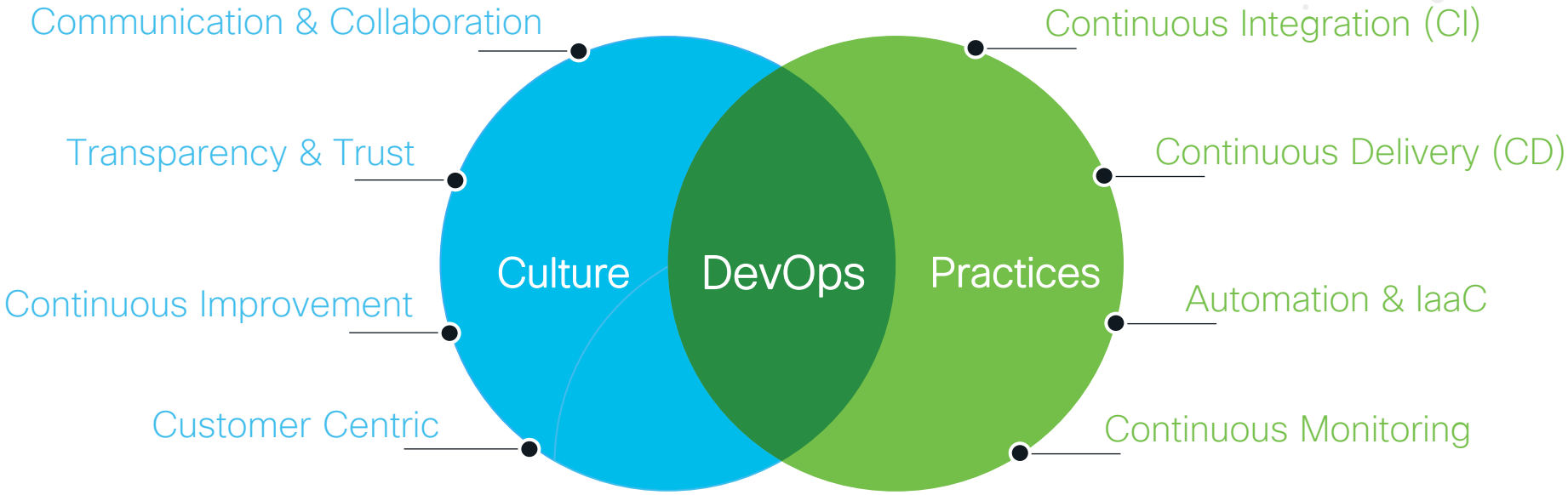
What is really DevOps?



Methodology: DevOps Lifecycle

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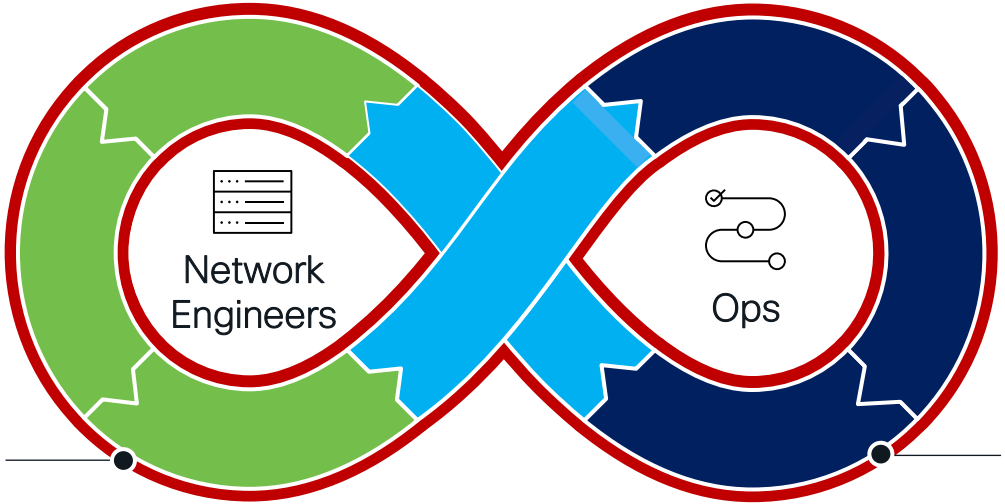
NetDevOps and DevSecOps Lifecycle



Security

Implementing security practices throughout the entire lifecycle

Shift Security Left

Moving security controls to the left of the development lifecycle

DevOps Culture + Networking

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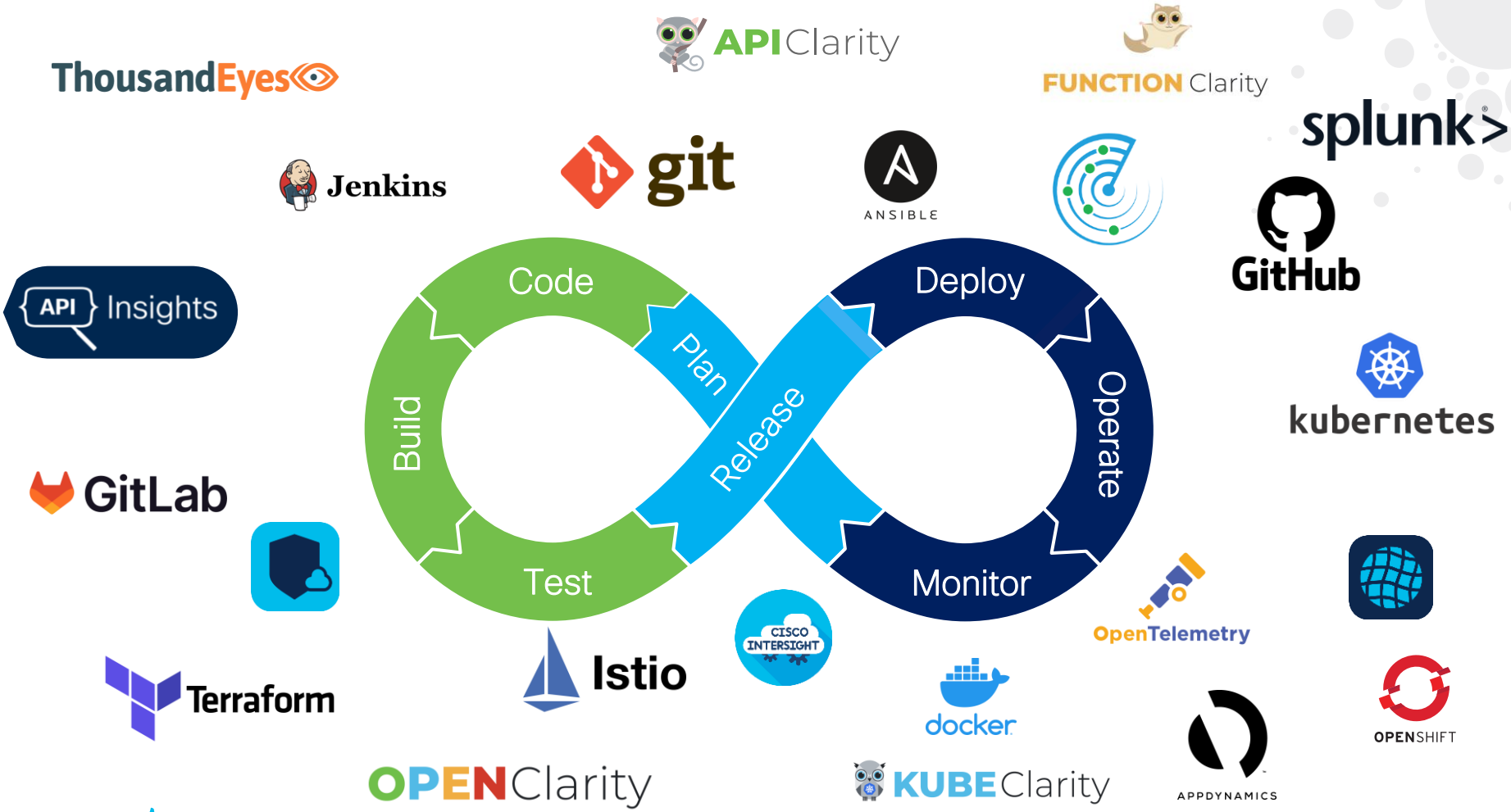

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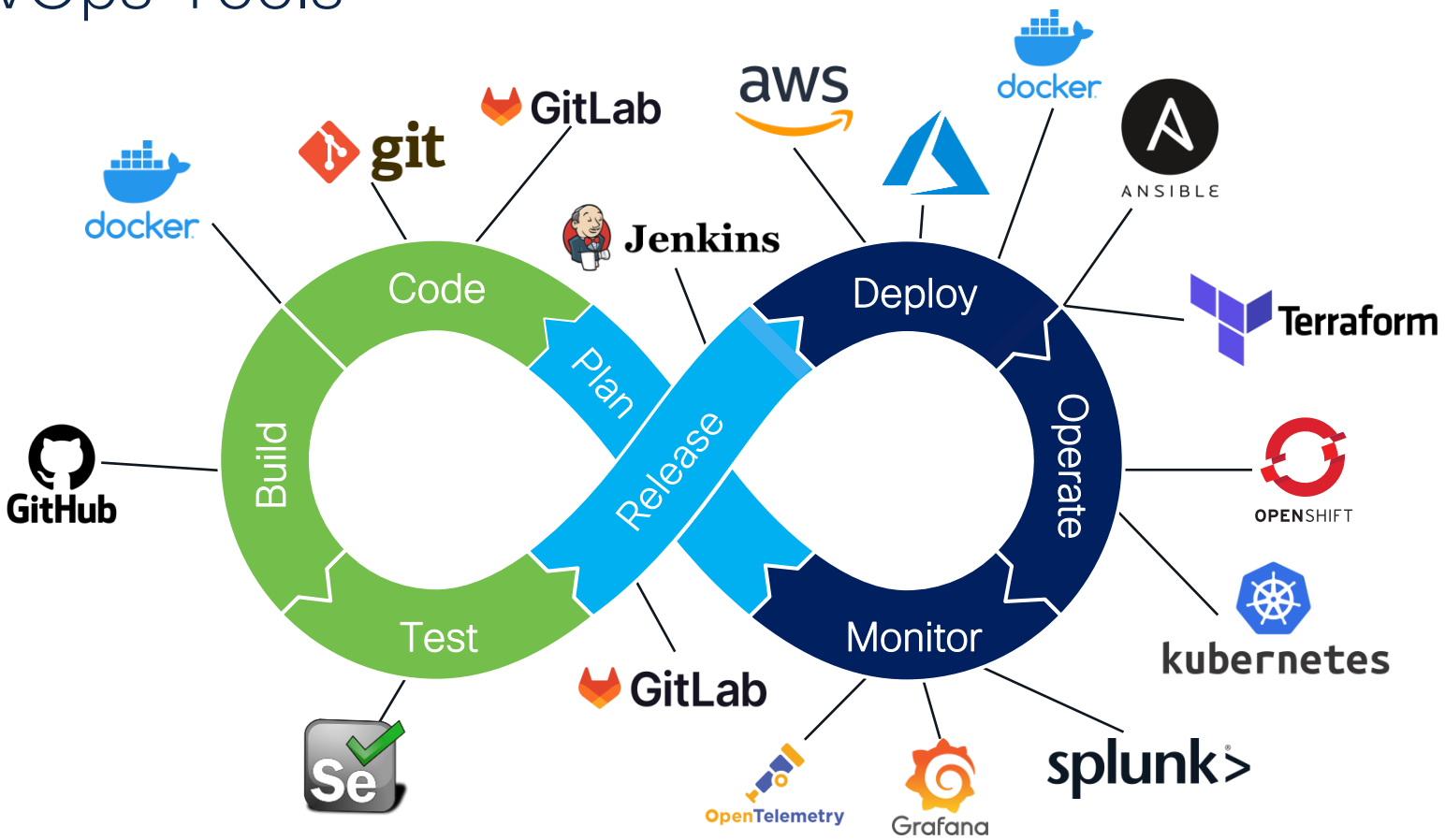
DevOps Tools



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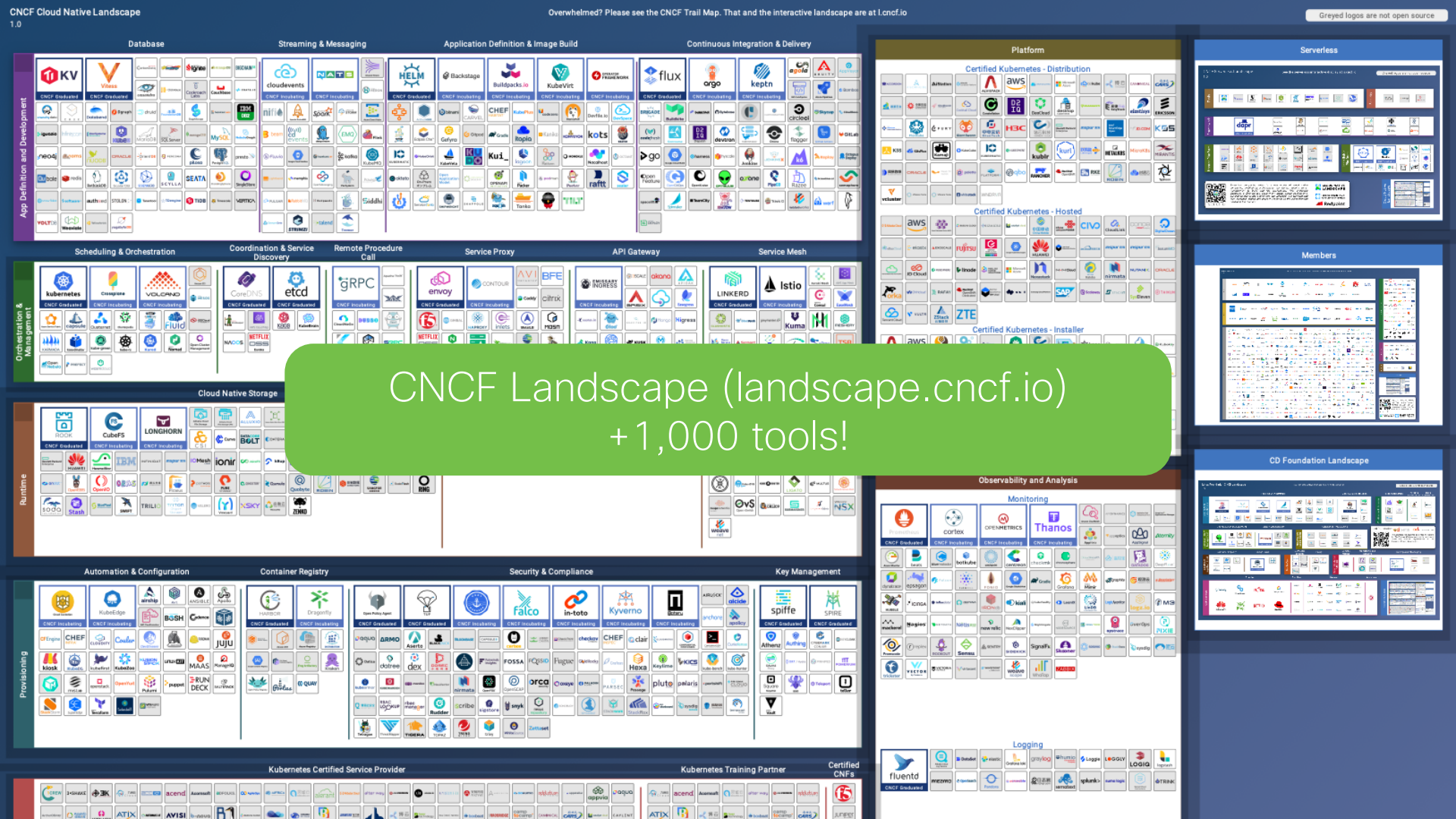
CNCF Cloud Native Landscape
1.0
Overwhelmed? Please see the CNCF Trail Map. That and the interactive landscape are at l.cncf.io
Greyed logos are not open source
Database
Streaming & Messaging
Application Definition & Image Build
Continuous Integration & Delivery
App Definition and Development
Scheduling & Orchestration
Coordination & Service Discovery
Remote Procedure Call
Service Proxy
API Gateway
Service Mesh
Orchestration & Management
Cloud Native Storage
Runtime
Automation & Configuration
Container Registry
Security & Compliance
Key Management
Provisioning
Kubernetes Certified Service Provider
Kubernetes Training Partner
Certified CNFs
Platform
Certified Kubernetes - Distribution
Certified Kubernetes - Hosted
Certified Kubernetes - Installer
Observability and Analysis
Monitoring
Logging
Serverless
Members
CD Foundation Landscape
CNCF Landscape (landscape.cncf.io)
+1,000 tools!

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Tools at Cisco

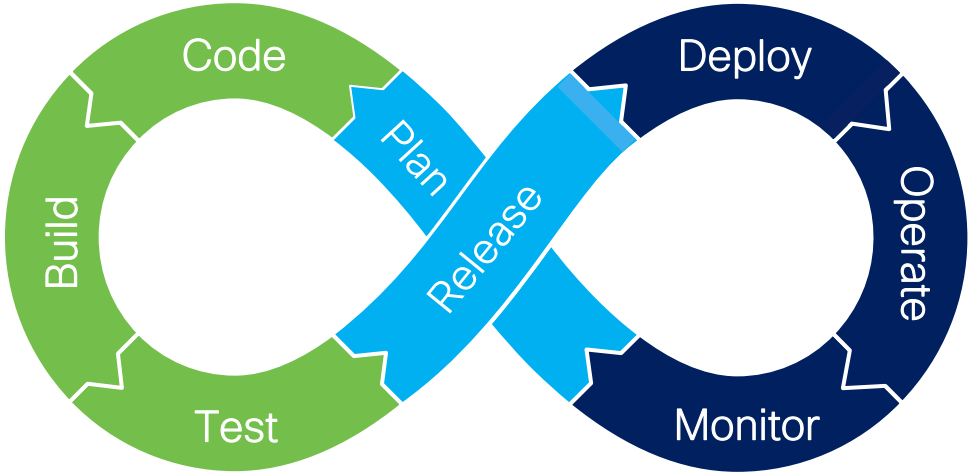
Nexus Cloud

API Insights

OPENClarity

ThousandEyes

Nexus Dashboard



KUBEClarity

API Insights

ACI

CISCO INTERSIGHT

FUNCTION Clarity

APIClarity

APPDYNAMICS

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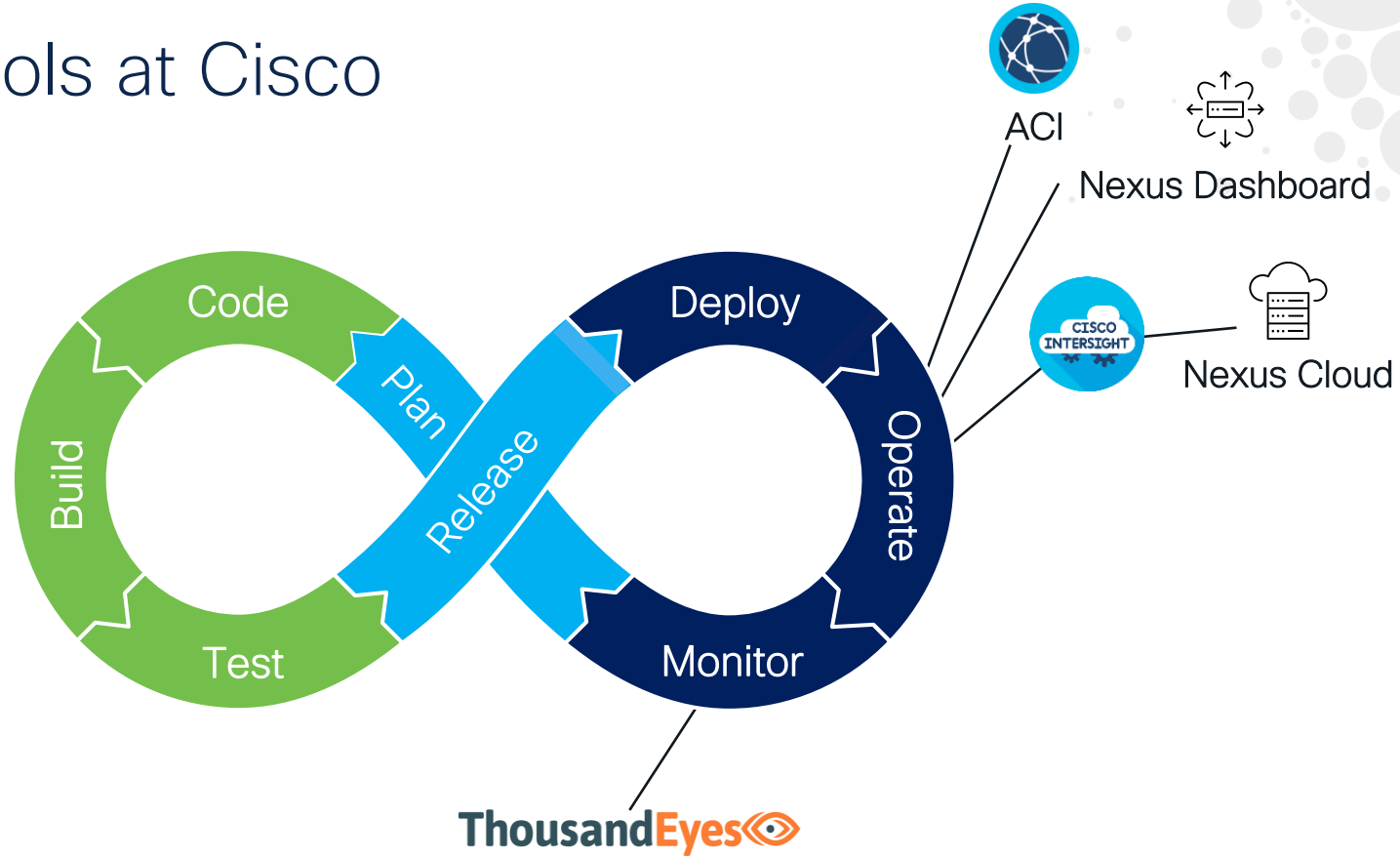
NetOps Tools at Cisco



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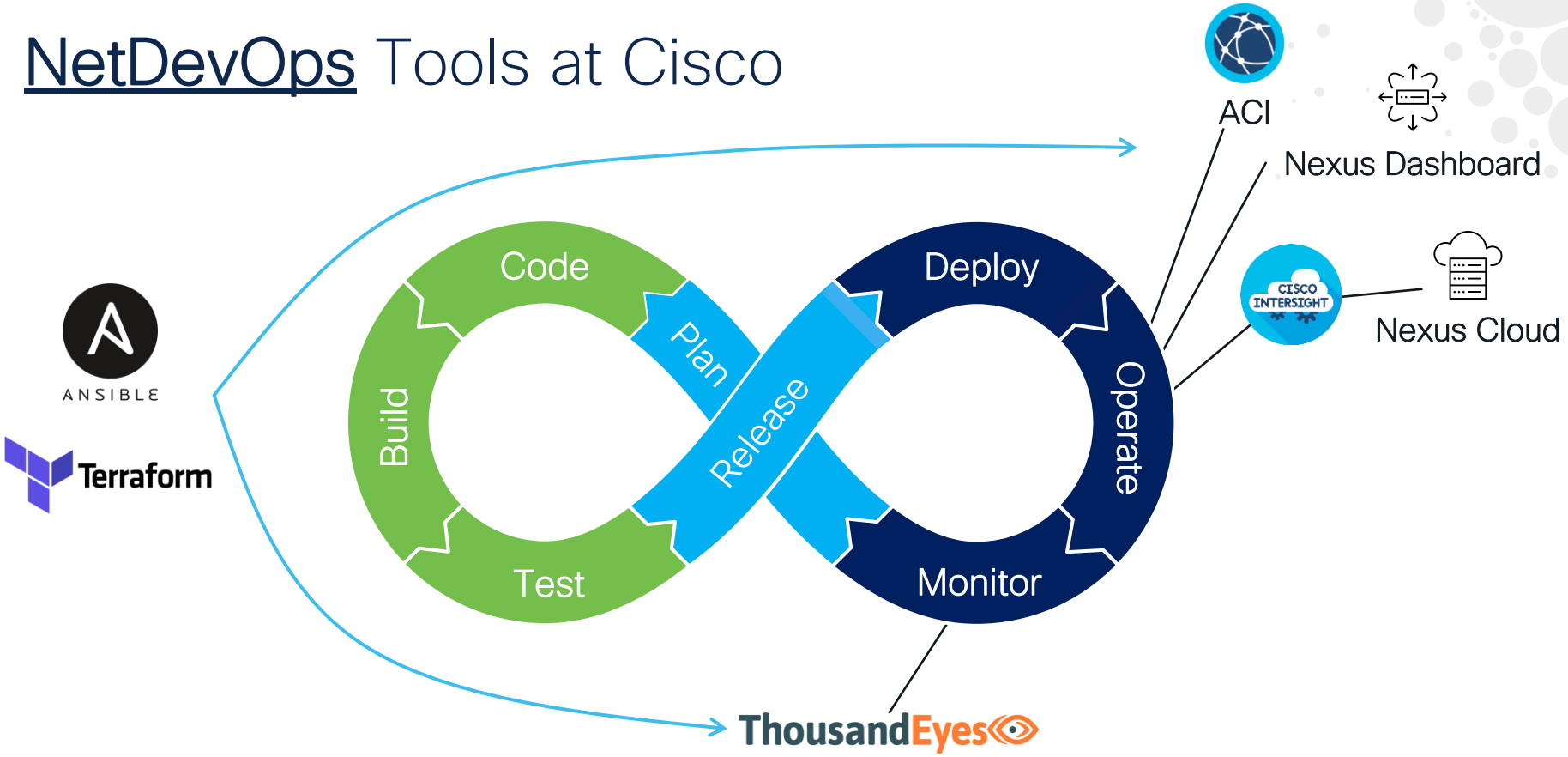
NetDevOps Tools at Cisco



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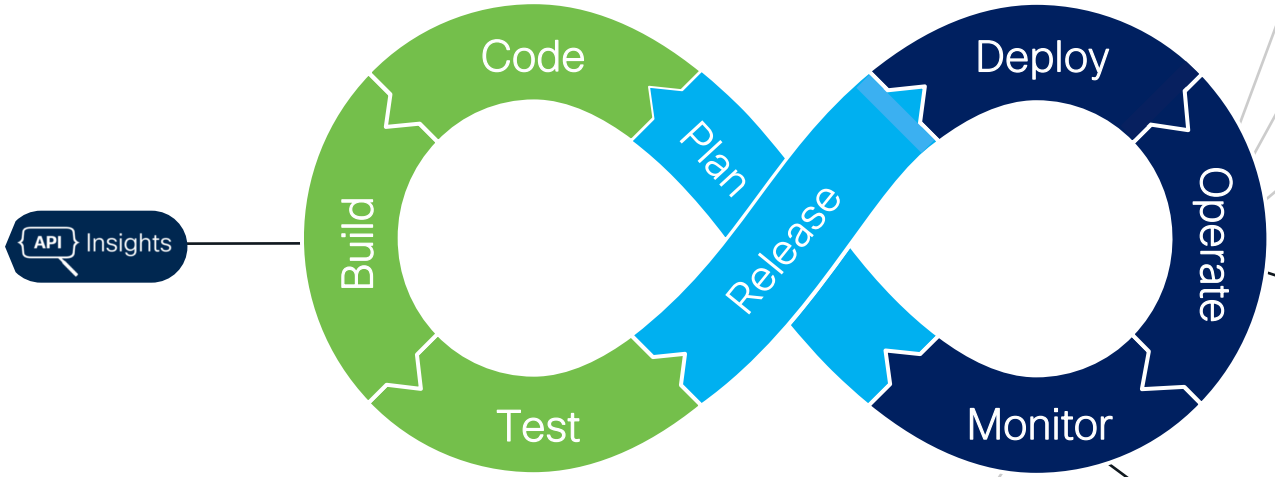
DevOps Tools at Cisco



ACI

Nexus Dashboard

CISCO INTERSIGHT

Nexus Cloud

Calisti

ThousandEyes

APPDYNAMICS

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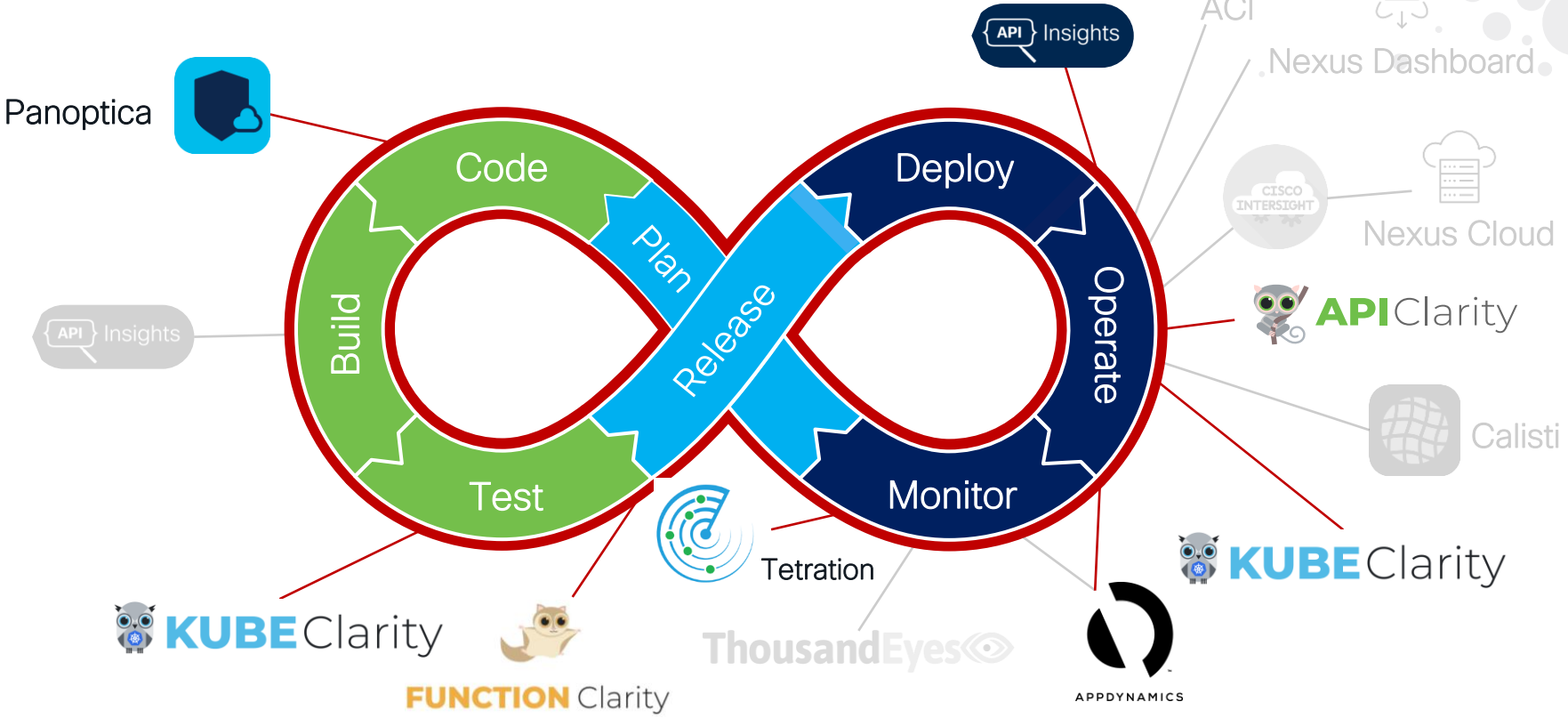
DevSecOps Tools at Cisco



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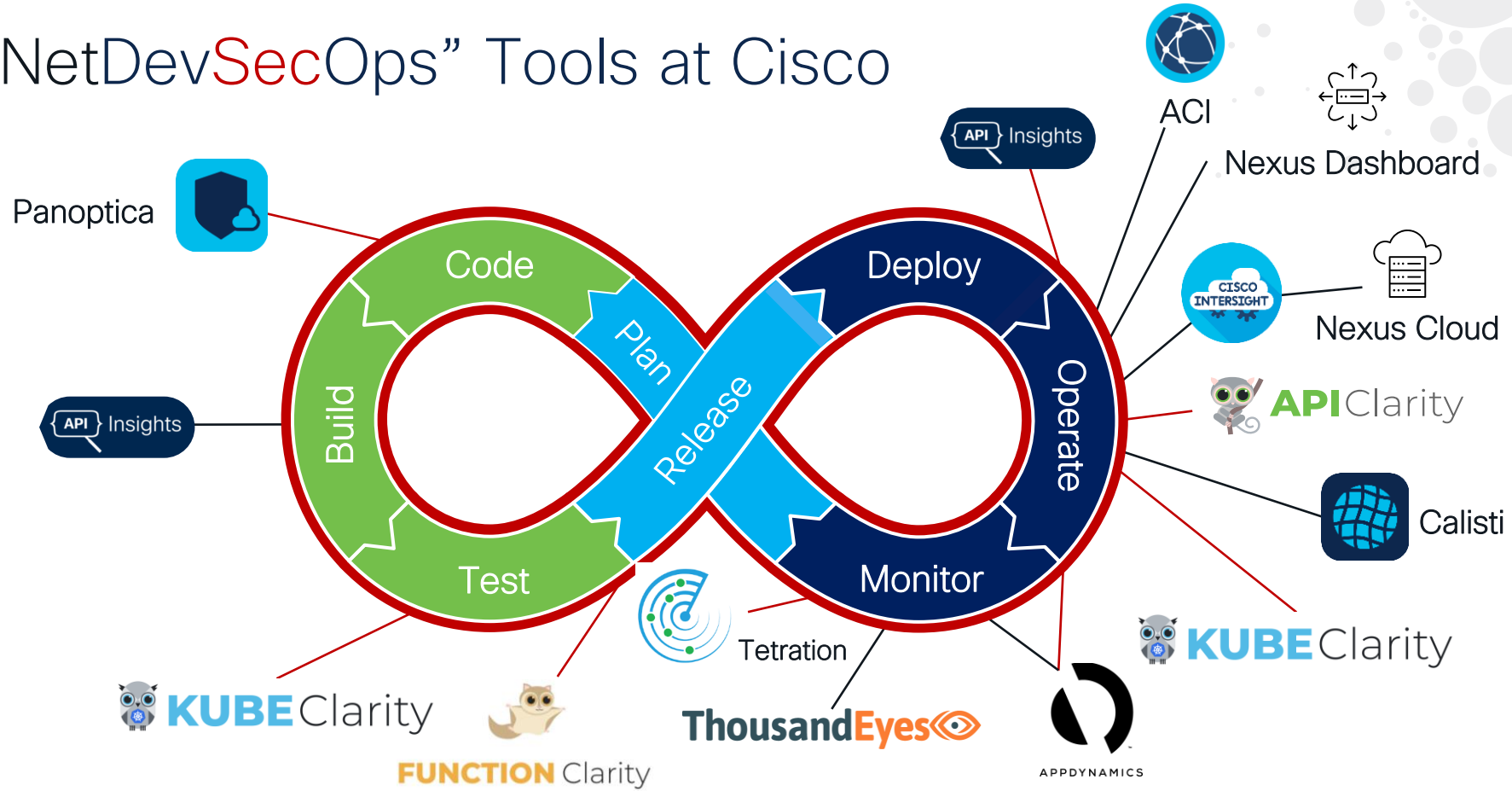
“NetDevSecOps” Tools at Cisco



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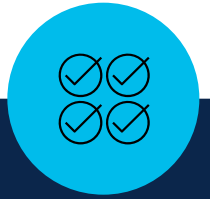
The three key takeaways

DevOps is a journey achieved through a shift in culture & practices



There are many tools out there, and it is key to know what role they play

Cisco is ready to help in your DevOps, NetDevOps & DevSecOps journeys

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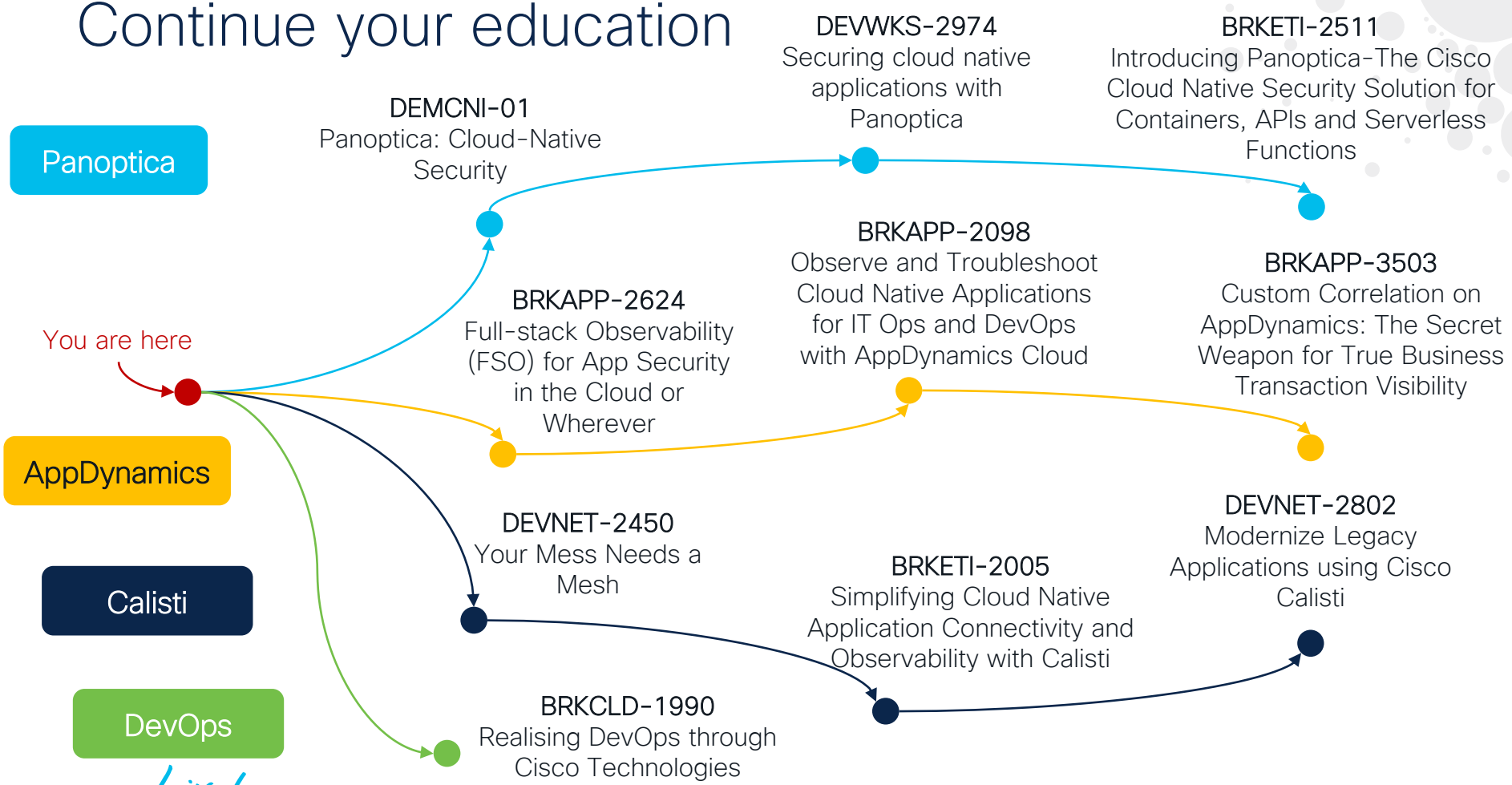

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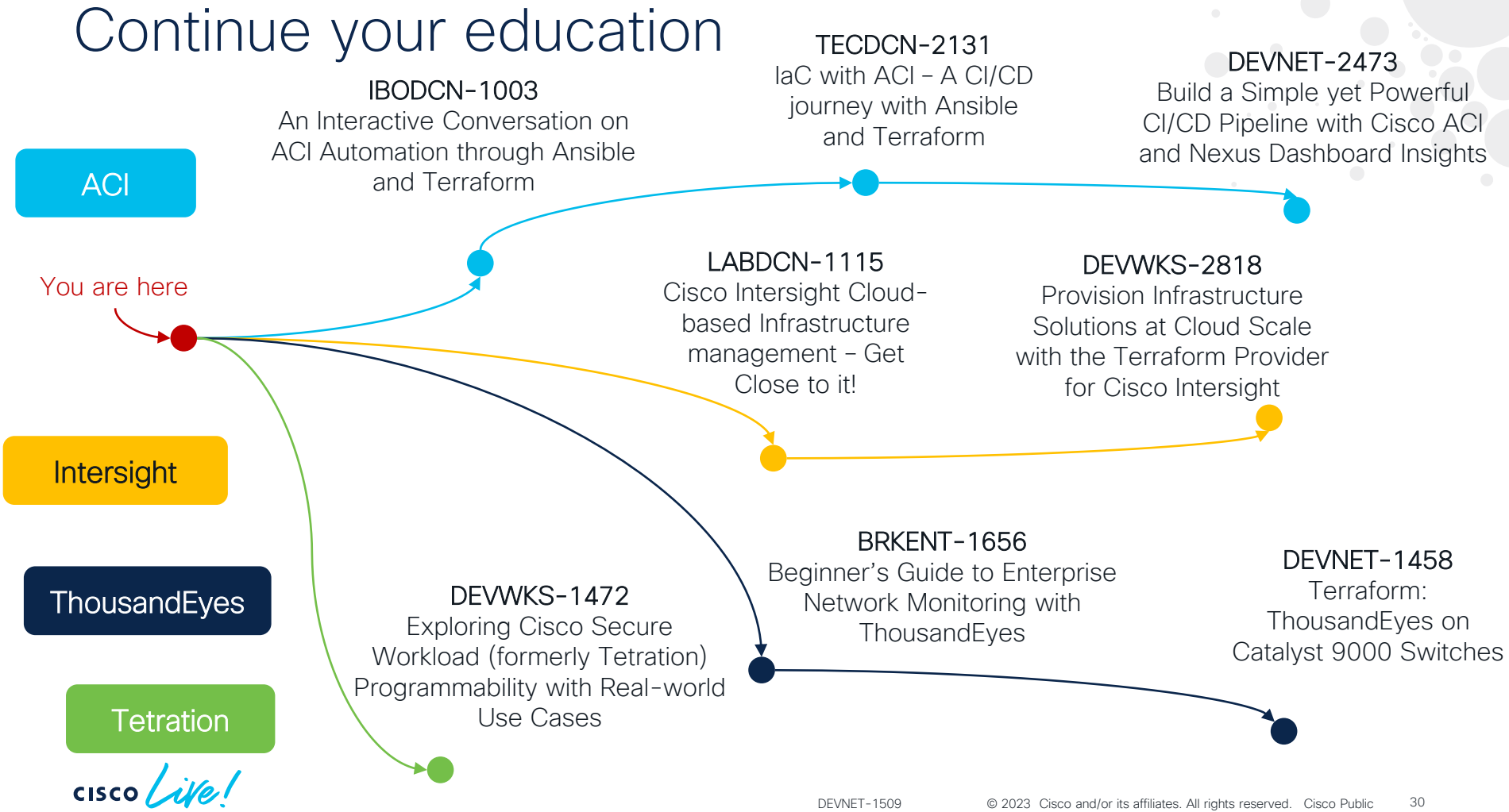

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Thank you

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ALL IN