

The background features a vibrant blue gradient with subtle, wavy horizontal lines. In the bottom right corner, there is a colorful abstract shape with shades of purple, pink, orange, and red.

# aws SUMMIT

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ISV005

# Can we (really) trust developers to handle security?

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Snyk



# Digital transformation changed the way developers work

## Yesterday

Sporadic Deployment  
(Months)



Siloed Devs and Ops



Rigid Dev Model



Limited Supply Chain



## Today

Continuous Deployment



DevOps



Agile Dev Model



Vast & Opaque Supply Chain



# Cloud turns IT into app services

Dev  
IT/Op

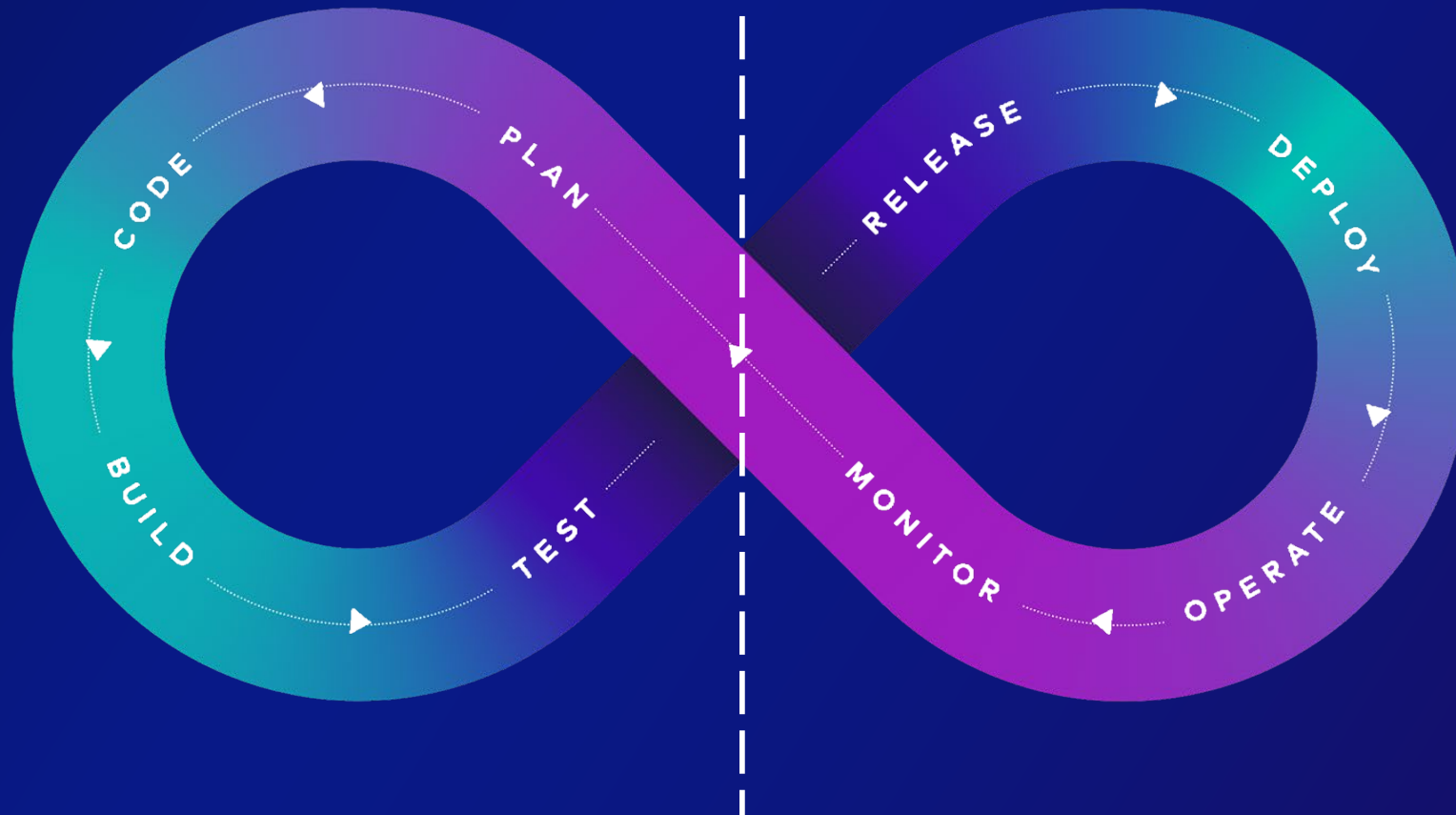


# The DevSecOps cycle is broken

## Development



- Alert fatigue
- Conflicting results
- Lowered adoption

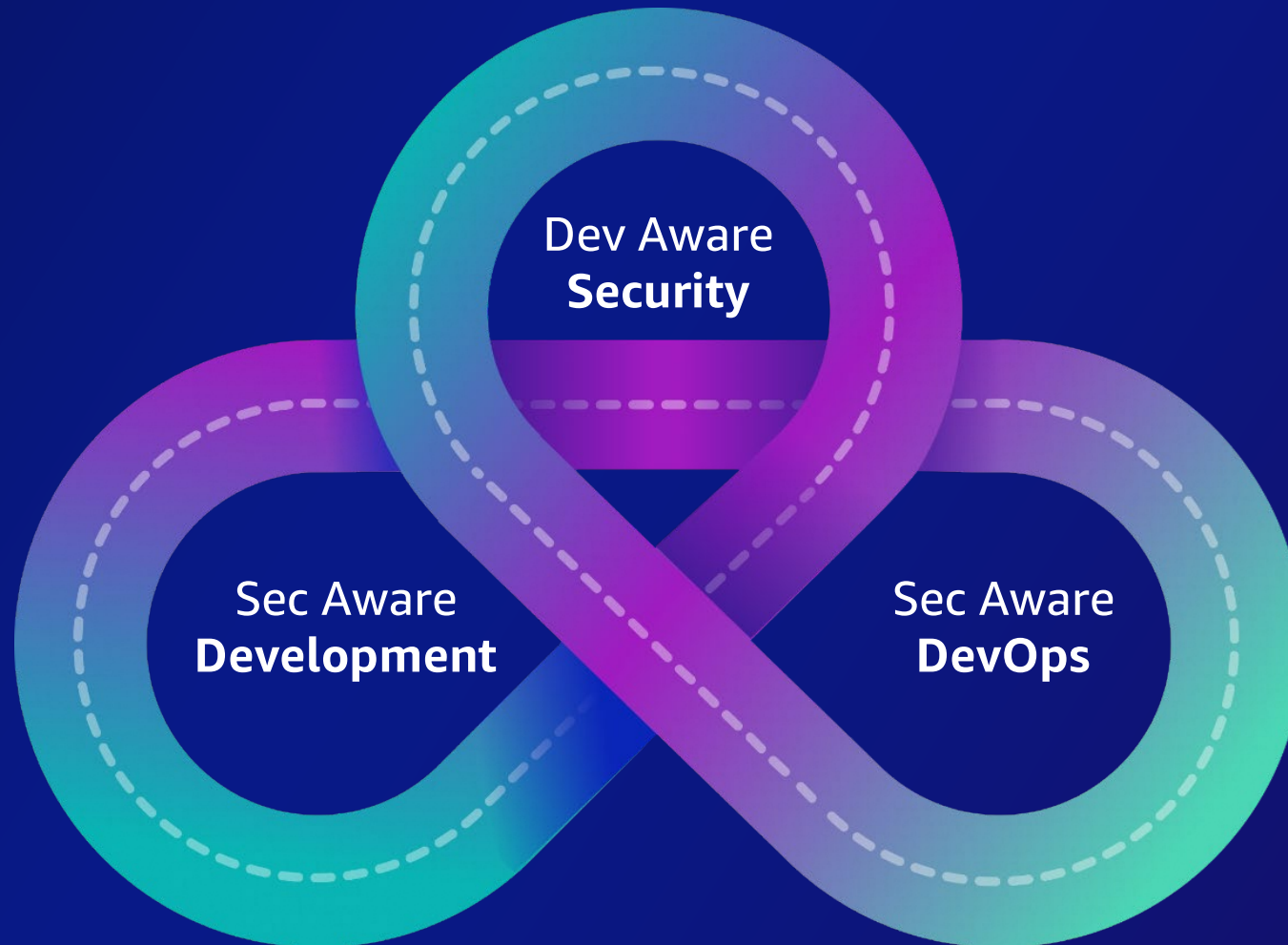


## Security Engineers



- 100 devs per sec expert\*
- Alert fatigue: too much "bad news," not enough fixes

# DevSecOps requires a developer security platform





# Developer growth is outpacing security

The world is increasingly reliant on developers



Security talent shortages prevent scaling

## 600K

Unfilled Cybersecurity  
Positions in the US

## 3.5M

Cybersecurity Job  
Openings Globally by 2025

## 164%

Next 5-Year Growth in Demand for  
App Development Security

# And the only way to scale security is to empower developers

*“The ratio of engineers in Development, Operations, and Infosec in a typical technology organization is **100:10:1**.*

*When Infosec is that outnumbered, without automation and integrating information security into the daily work of Dev and Ops, Infosec can only do compliance checking, which is the opposite of security engineering—and besides, it also makes everyone hate us.”*

**—Gene Kim**

*10 Tips for Integrating Security Into DevOps, DZone*

Developers

100 : 10 : 1

DevOps

Sec



# Dev-first Security

# 4 Key principles of a dev first security program



Change in ownership

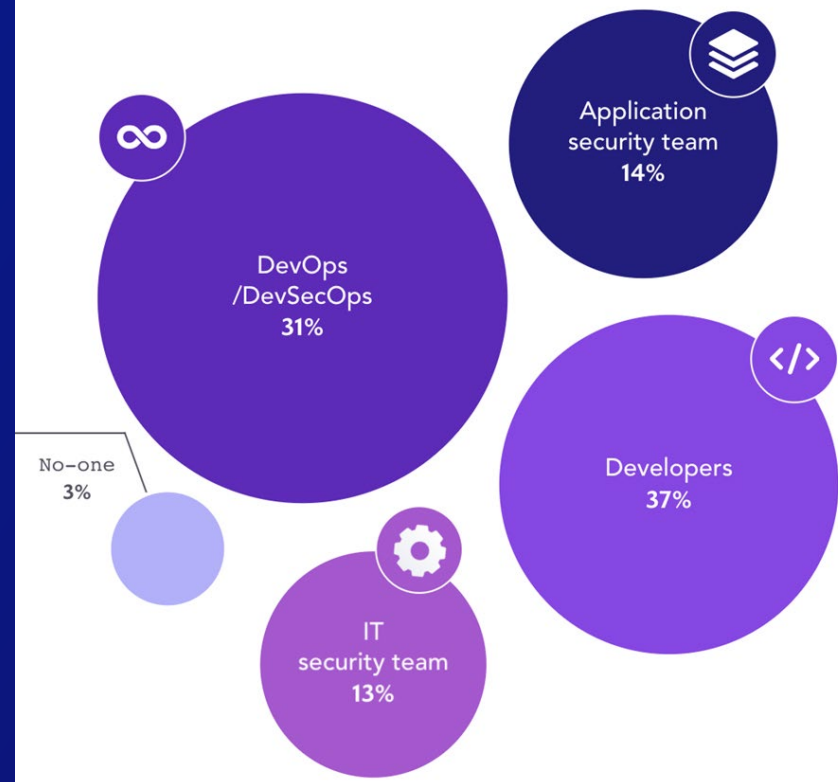
# Security isn't just for the security team

“Developers are **three times more likely** to view security as their responsibility versus their security peers”

Source: State of Cloud Native Application Security

<https://snyk.io/state-of-cloud-native-application-security/>

Who is primarily responsible for the security of your cloud native environment and applications?





## shared ownership model

***"When everybody owns something, nobody owns it, and nobody has a direct interest in maintaining or improving its condition."*** Milton Friedman



## balanced ownership

# 4 Key principles of a dev first security program



Change in ownership



Design for the developers

# What's the goal?

## Security Audits

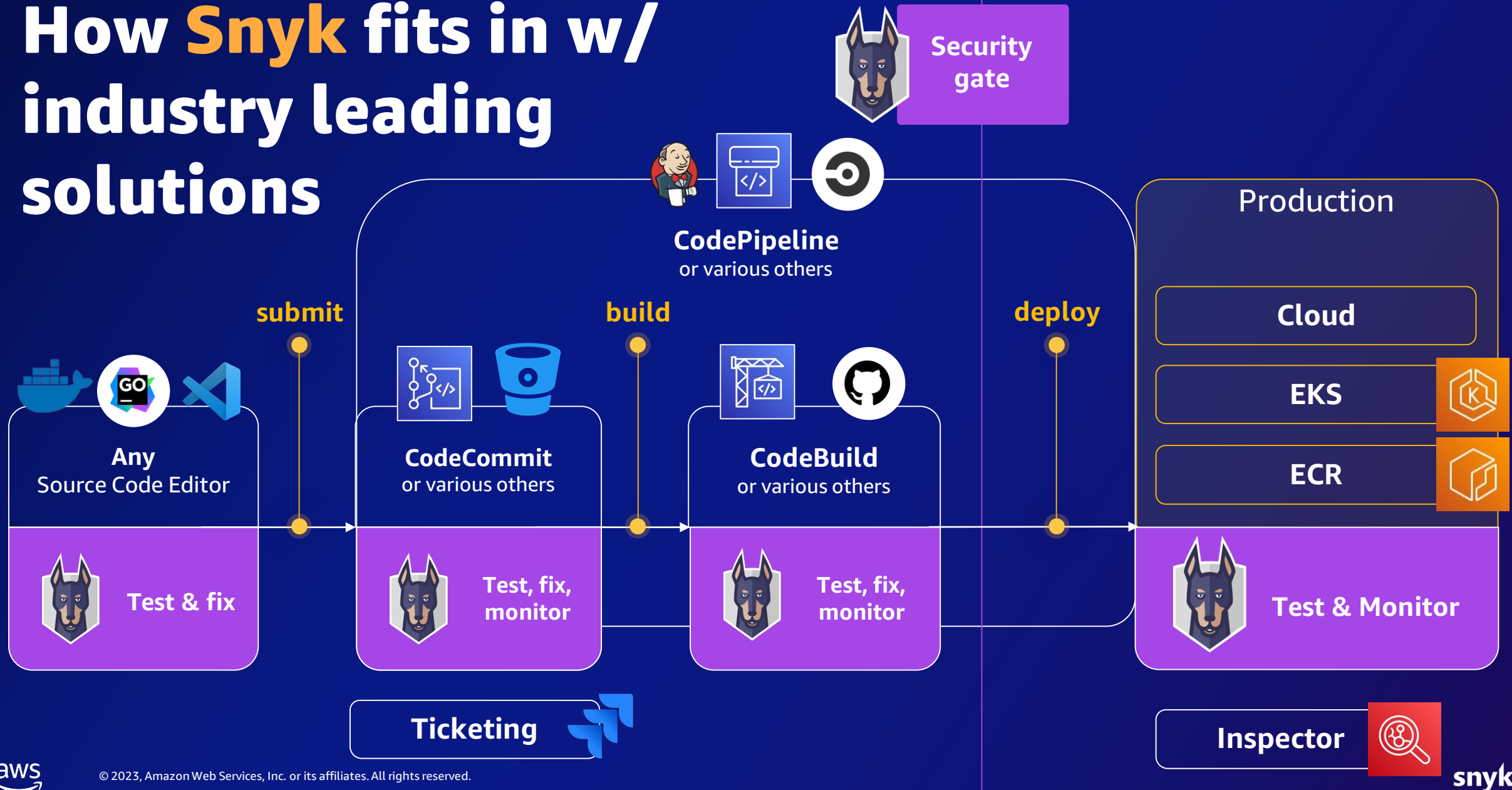


## Developers Fix





# How **Snyk** fits in w/ industry leading solutions



# 4 Key principles of a dev first security program

1

Change in ownership

2

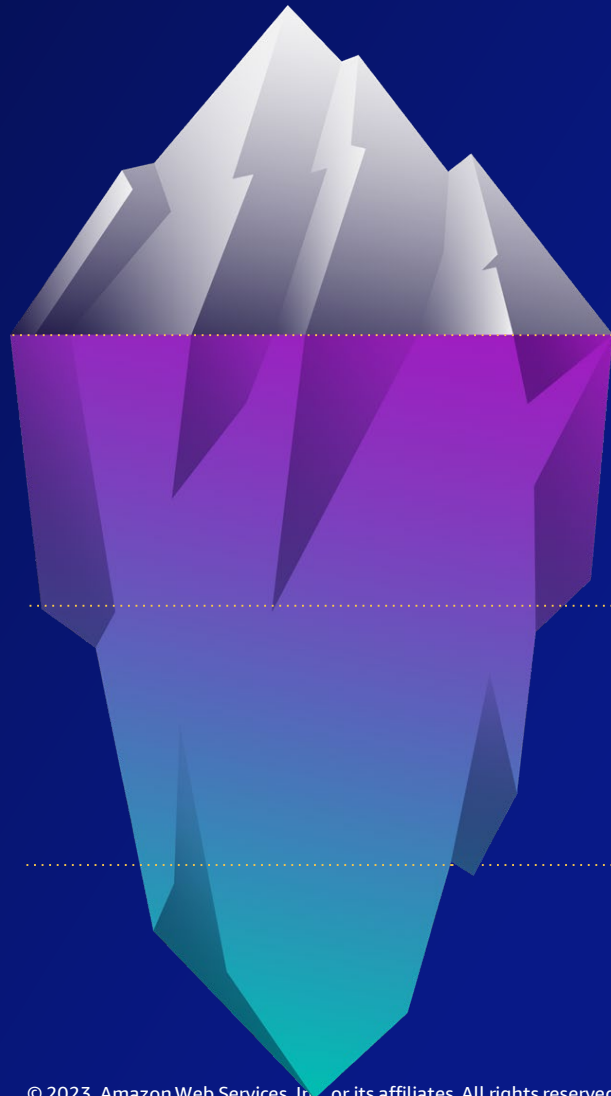
Design for the developers

3

Bring the cloud into appsec

# The modern application

A new risk profile for developers



## Code



- **Software deployed daily** - 'waterfall' approach doesn't scale. Scans can't take hours.
- **10-20% of code is custom** - and digital transformation increases pressure to deliver more and faster.

## Open Source



- **80-90%** of codebase is Open Source
- **80%** of vulnerabilities found in indirect dependencies

## Containers



- **100s** of Linux packages inherited from public sources
- Built, deployed & scaled **in seconds**

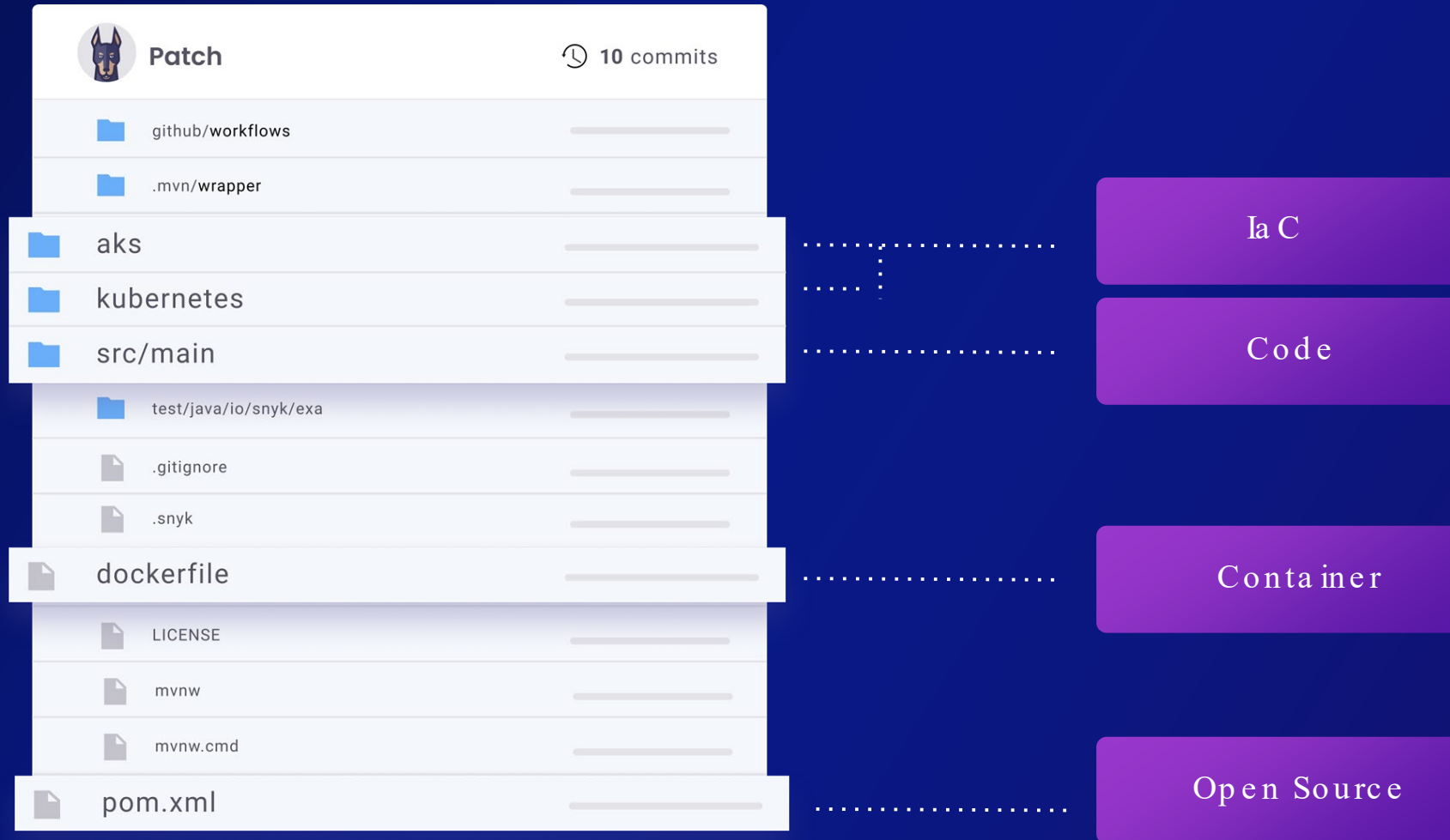
## Infrastructure as Code



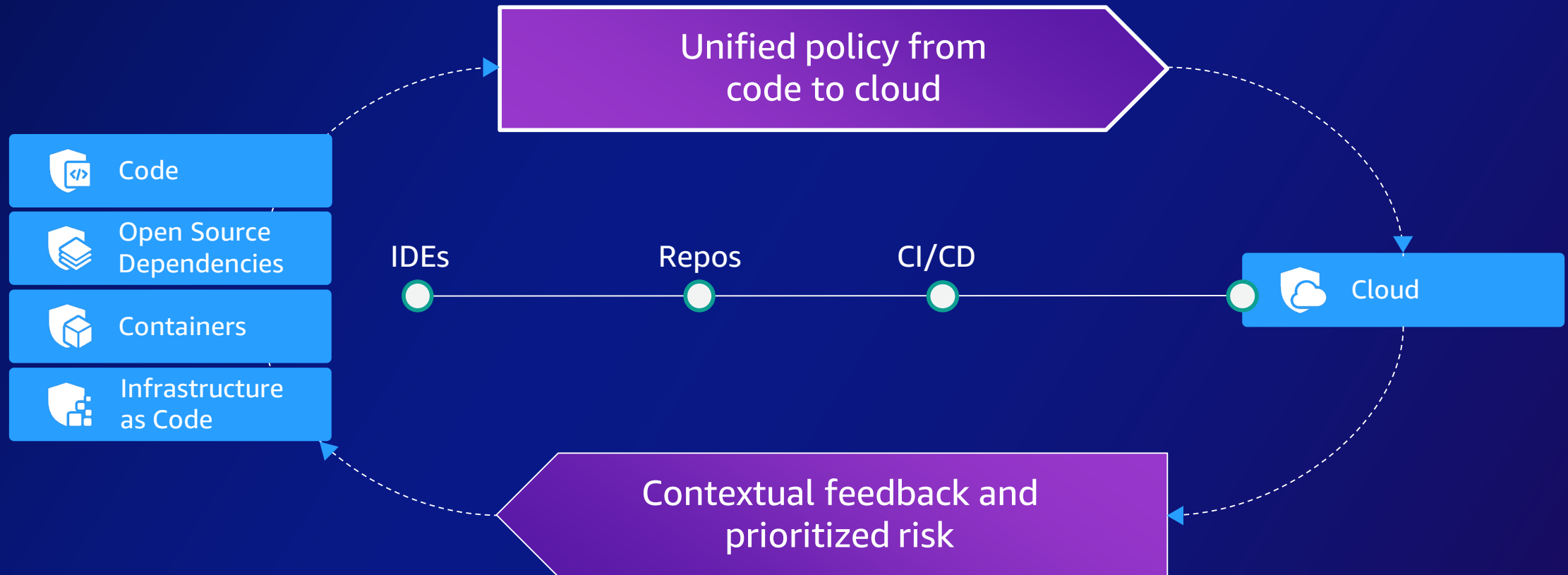
- **#1 cloud vulnerability** is misconfiguration [NSA]
- Network access, storage, servers - **deployed as fast as code**

# The modern application

## The Developer's View



# Secure apps from code to cloud, and back to code



# 4 Key principles of a dev first security program

1

Change in ownership

2

Design for the developers

3

Bring the cloud into appsec

4

Develop your champions



# Security champions



- ✓ Embedded
- ✓ Experienced
- ✓ Empathetic

# 4 Key principles of a dev first security program

1

Change in ownership

2

Design for the developers

3

Bring the cloud into appsec

4

Develop your champions



# snyk

Develop fast.  
Stay secure.

# Thank you!

Lawrence Crowther  
Head of Solutions Engineering, APJ  
Snyk



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