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PRT291

Dev-first security: From code to cloud and back to code

Ravi Maira

VP Product Marketing
Snyk

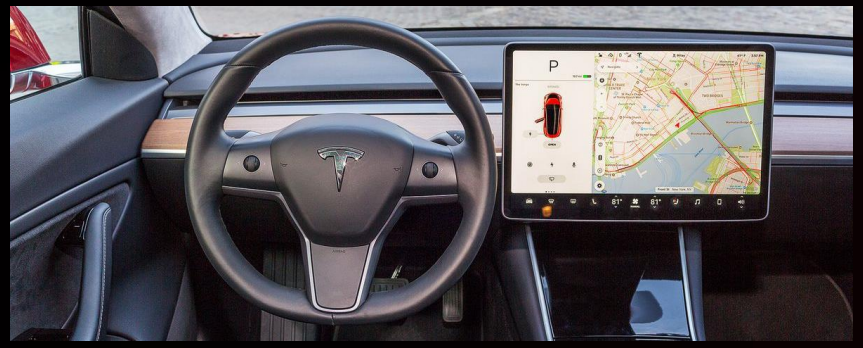
Omar Shabir Peerzada

Cloud Security Architect
Neiman Marcus

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Every company is a technology company









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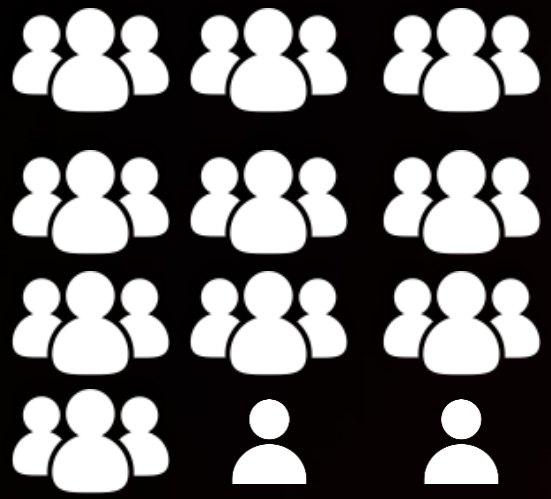
Application Security in a Digitally Transforming World

- Developers, developers everywhere!!!
- DevOps and Rapid Iteration
- Cloud Native Applications – Infrastructure IS code

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Scale: Developers & Security

Developers



32M

Source: Understanding the Significance of the Worldwide Developer Forecast, 2020–2025: Part-Time Application Developers Lead Growth

Security



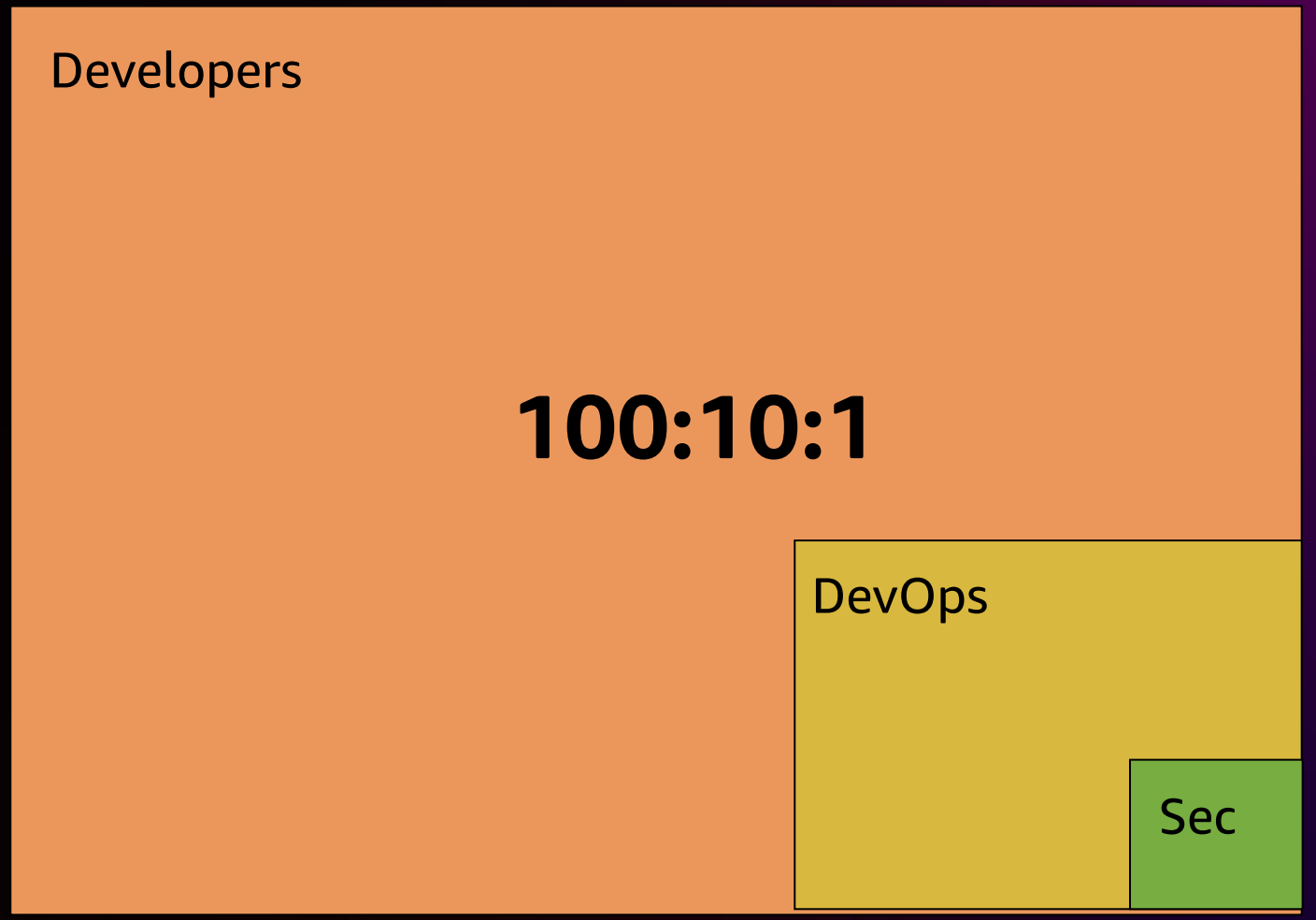
4 + 3M

Source: (ISC)^2 Cybersecurity Workforce Study, 2021

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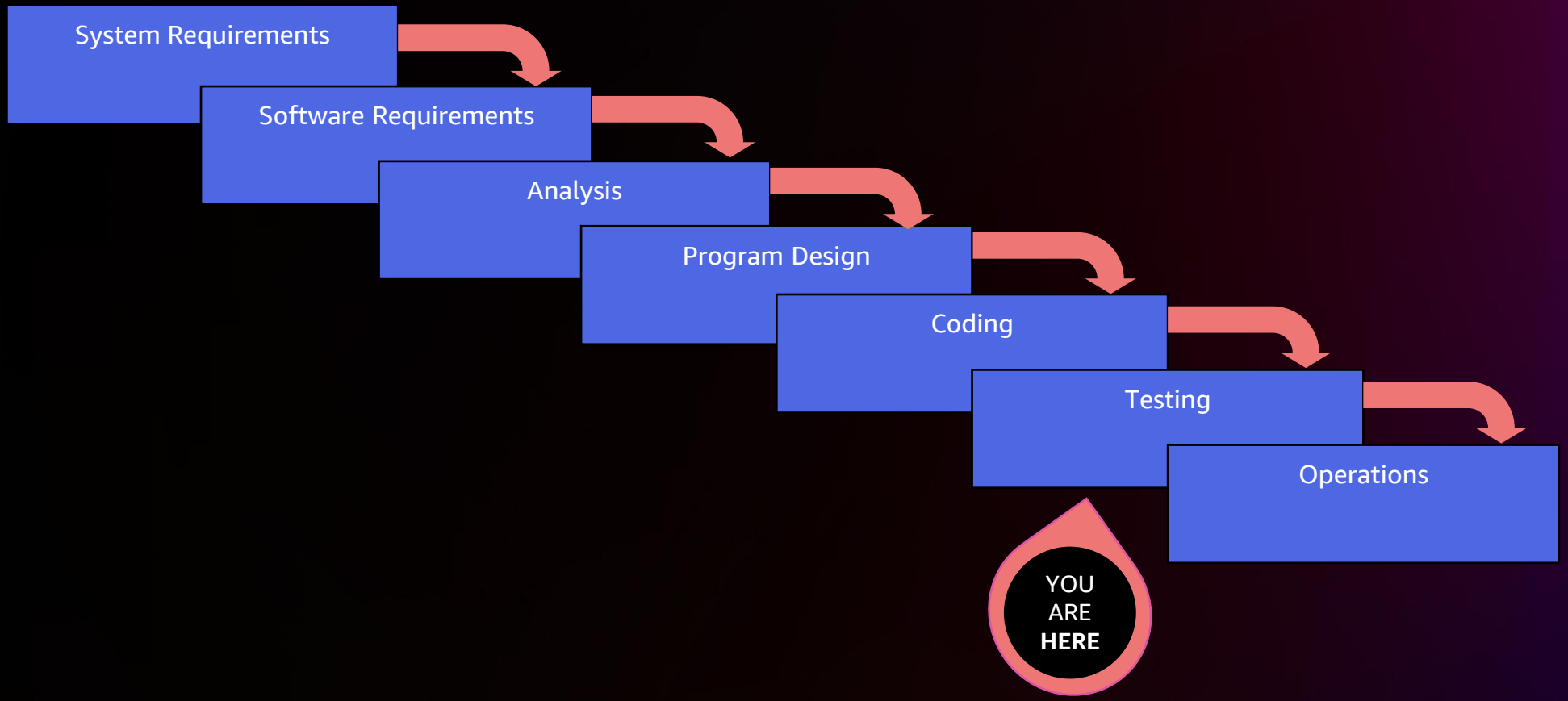
Scale: Developers & Security

Source: Gene Kim
10 Tips for Integrating Security Into DevOps, DZone



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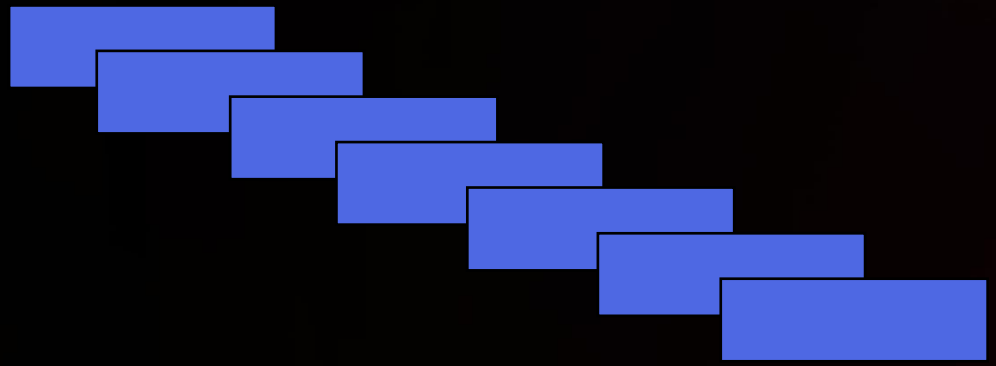
Speed: Rapid Iteration



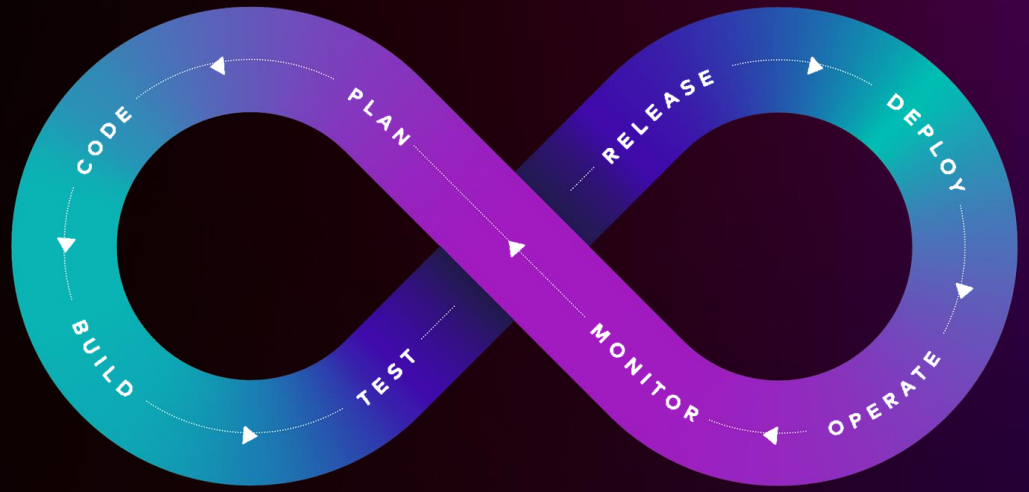
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Speed: Rapid Iteration

Waterfall

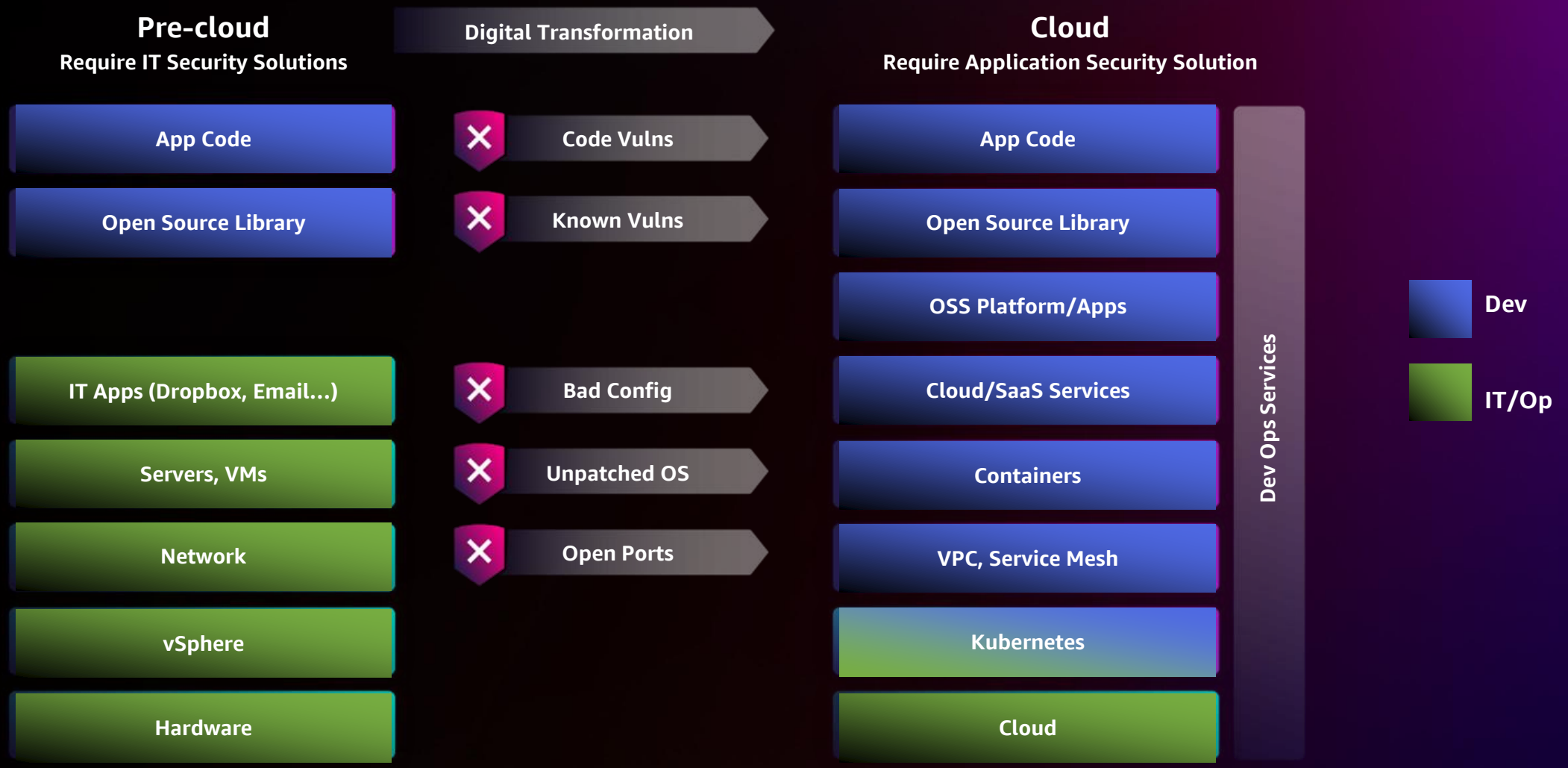


DevOps/Agile



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Scope: Cloud turns IT into App Services



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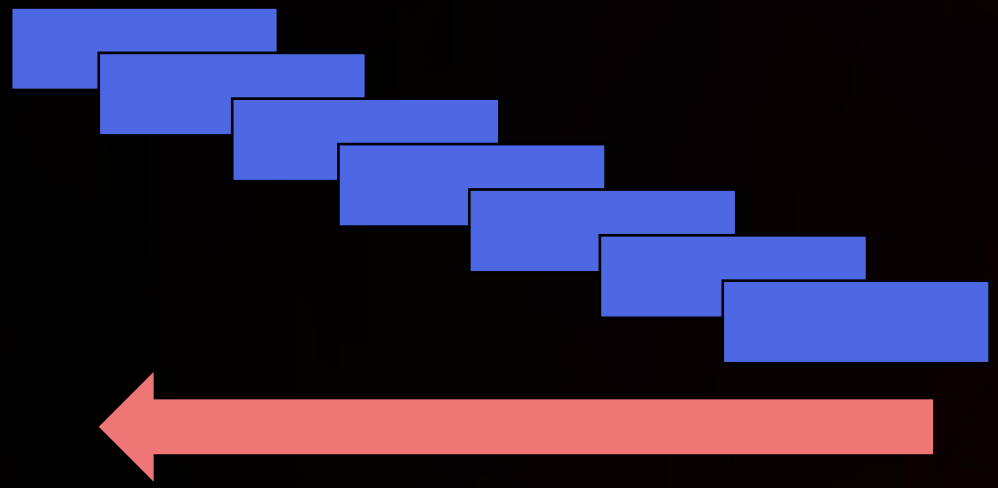
Shifting Left is Not Enough



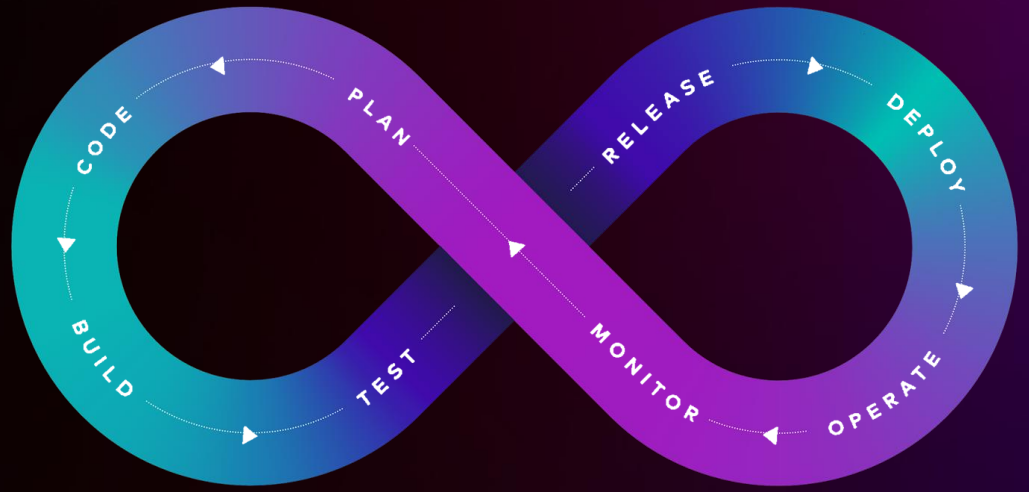
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There is no Left in a Loop

Waterfall



DevOps/Agile



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Dev-First Security

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THE SECURE DEVELOPER



Hosted by
Guy Podjarny
President and Founder,
Snyk

devseccon.com

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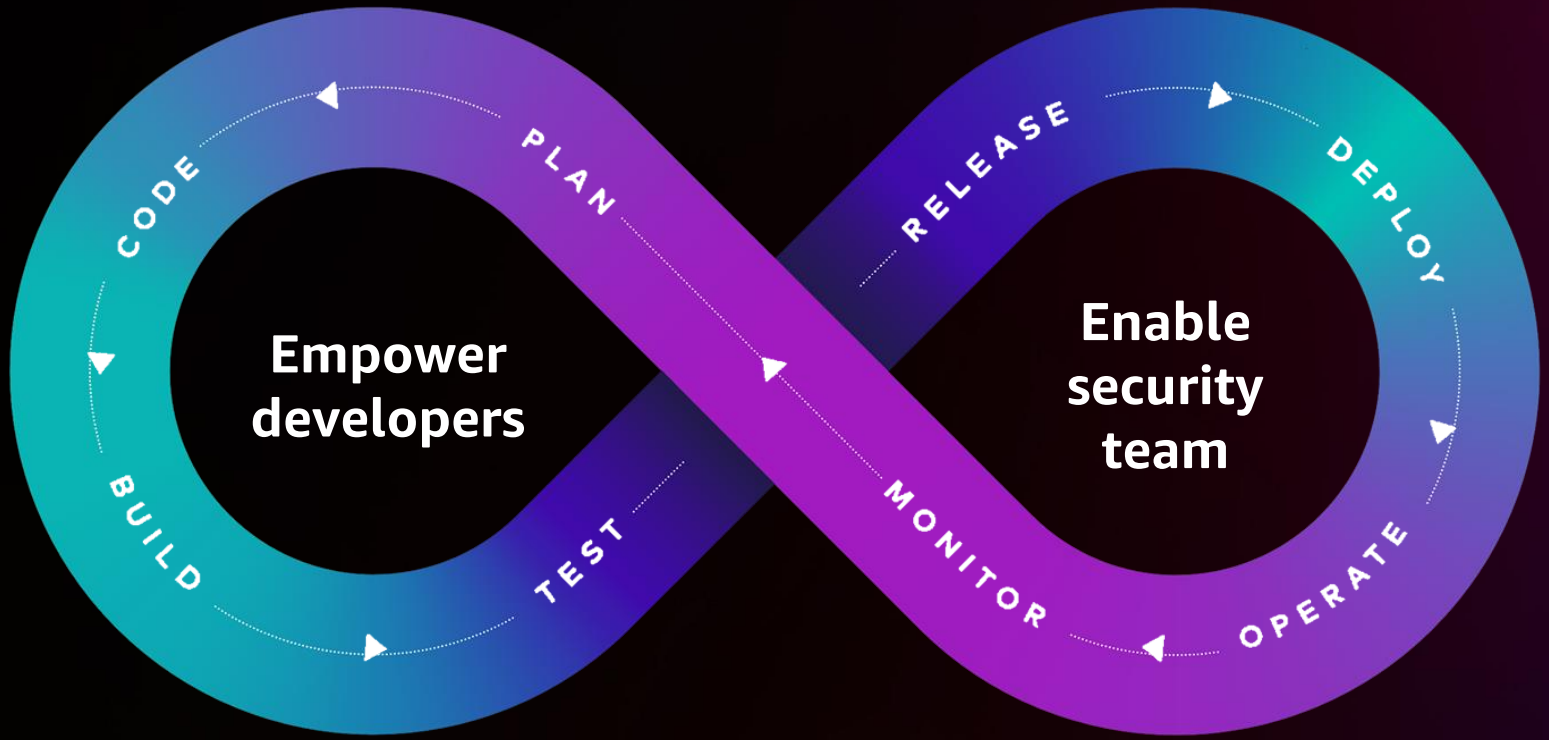
1. Change the ownership

4 Steps to a Dev-First Security Program

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DevOps requires dev-first security

Empower developers to build applications securely within the entire development process



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Scaling Security with Developers

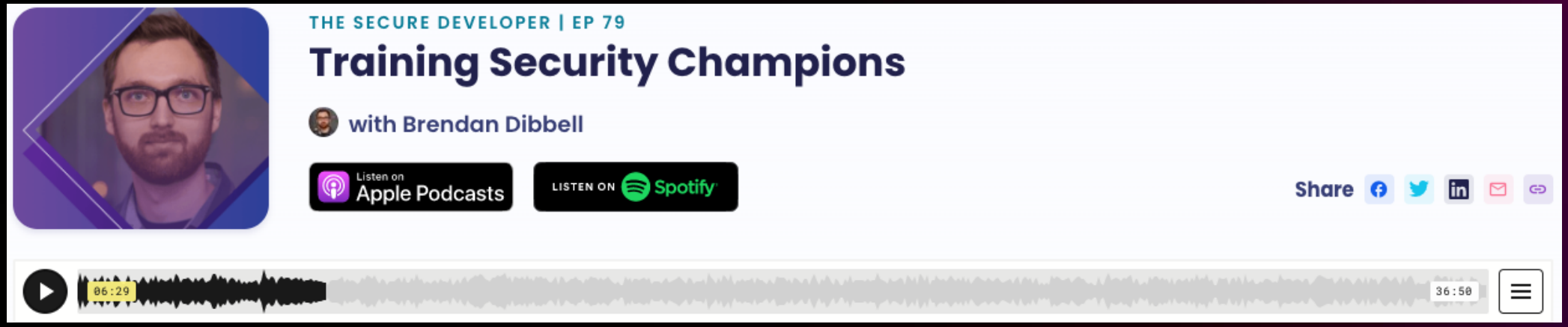


"When you're pushing production dozens of times a day, there's no way you're going to review all of those things."

Douglas DePerry
Director, Product Security
Datadog

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Security Ownership



"Instead of focusing on doing all of the things, we really want to focus on how do we give our engineers the tools that they need to take ownership of security."

Brendan Dibbell
Application Security Engineer Team Lead
Toast

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4 Steps to a Dev-First Security Program

1. Change the ownership
2. Design for Developers

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What's the goal?

Security Audits

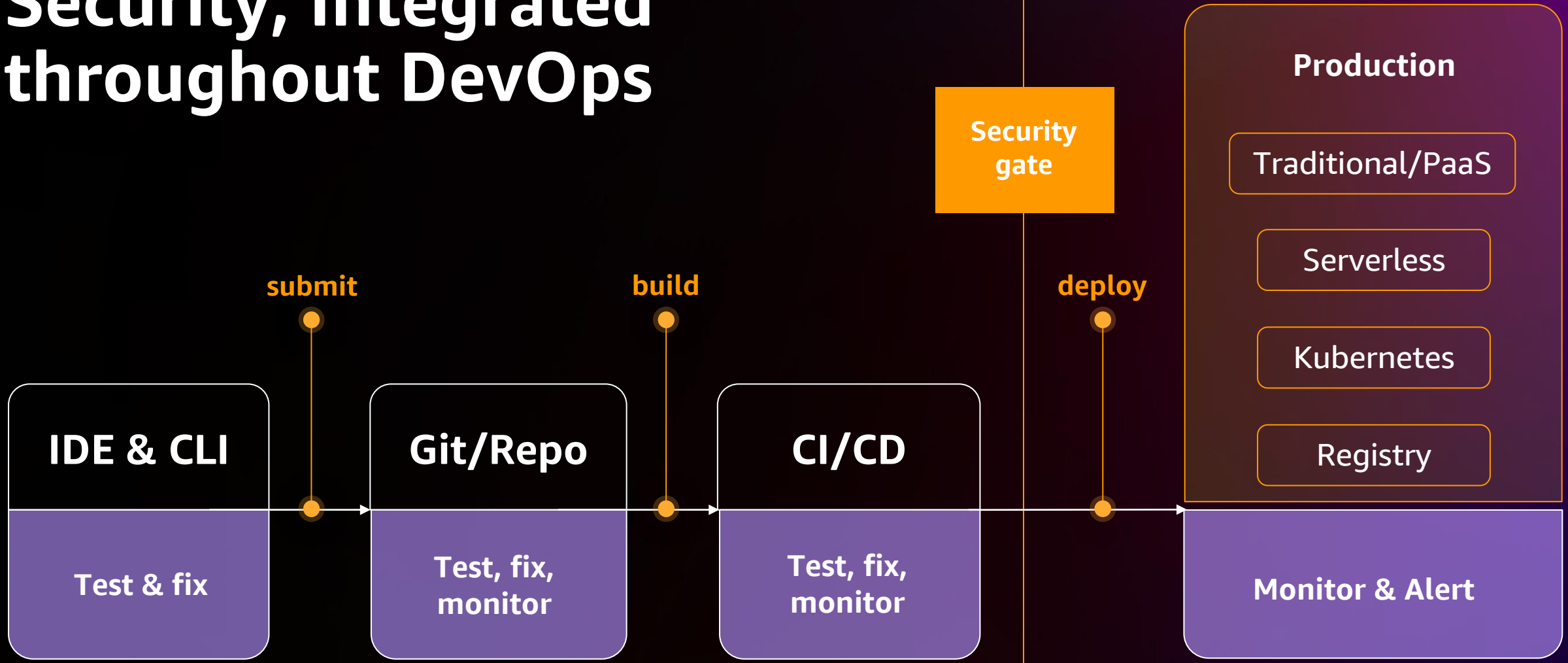


Developers Fix



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DevSecOps: Continuous Security, Integrated throughout DevOps



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Meet the Developers Where They Are



"It's meeting people where they are and trying to integrate with existing workflows of how people do their job, making things easy and safe by default."

Andy Steingruebl
Chief Security Officer
Pinterest

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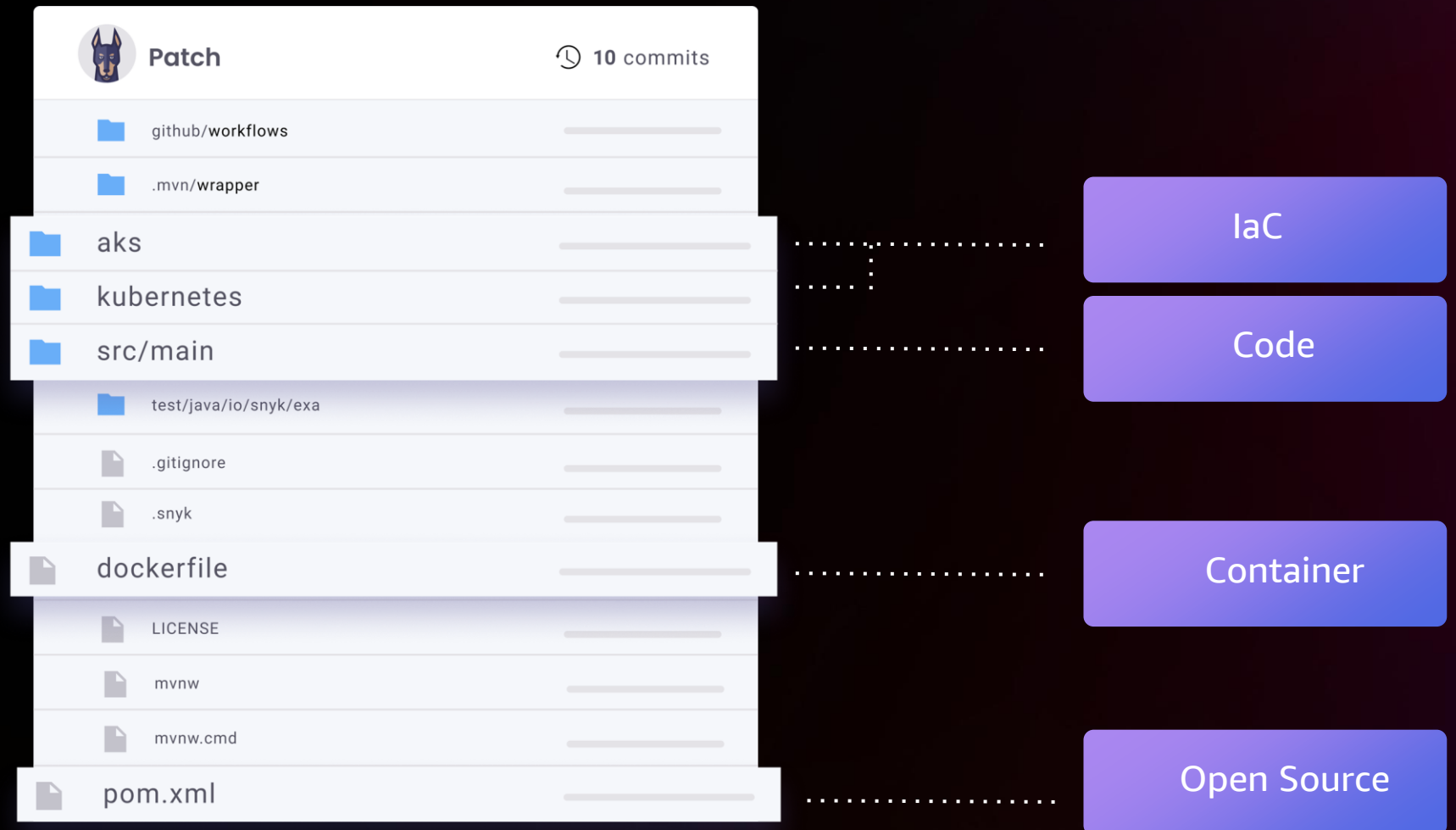
4 Steps to a Dev-First Security Program

1. Change the ownership
2. Design for Developers
3. Bring the cloud into appsec

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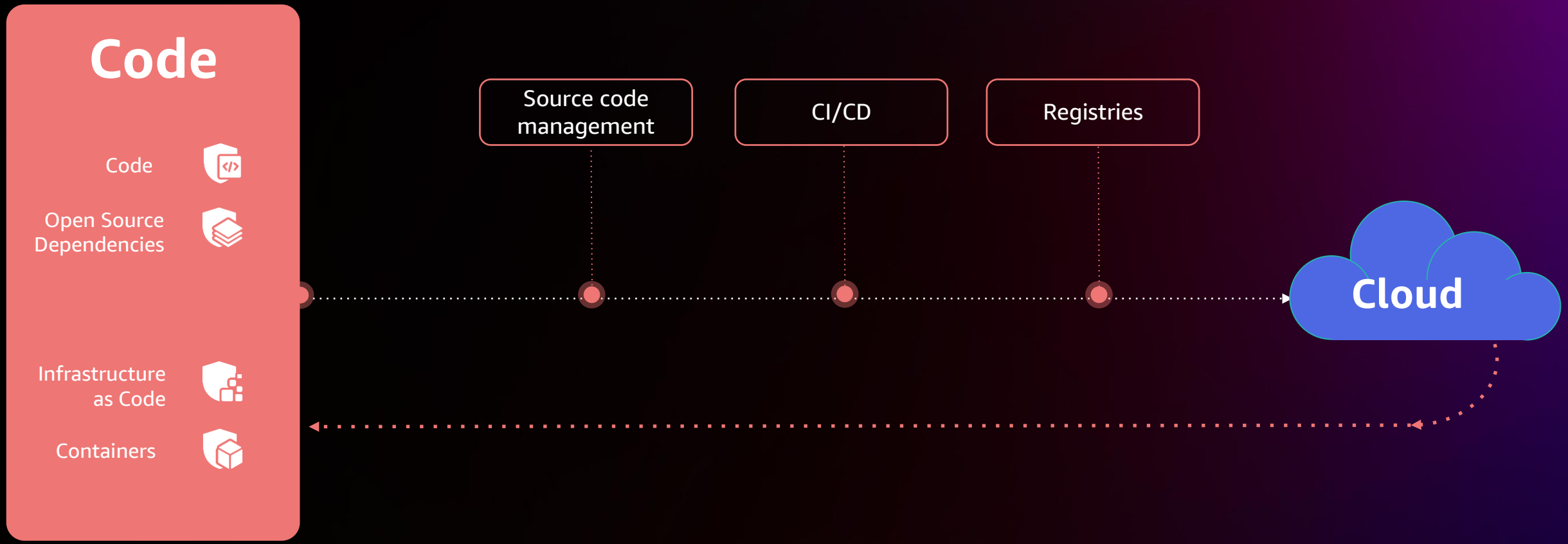
The modern application

The Developer's View



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Cloud native apps require a unified view of apps and cloud together



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Securing the Whole Application



"I suppose the boundary between application and infrastructure cloud is obviously looser than it was before, because you've got infrastructure defined as code and application teams often managing and deploying that themselves."

Nick Vinson
DevSecOps Lead
Pearson

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Securing the Whole Application



"Containers are essentially just processes. But sometimes, people come with this idea that because they kind of look and feel a bit like a virtual machine, maybe they are a virtual machine. They're not. They're much, much closer to just being regular processes."

Liz Rice
Chief Open-Source Officer
Isovalent

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4 Steps to a Dev First Security Program

1. Change the ownership
2. Design for Developers
3. Bring the cloud into appsec
4. Develop your champions

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Security Champions



- Embedded
- Enthusiastic
- Empathetic

Security Champions

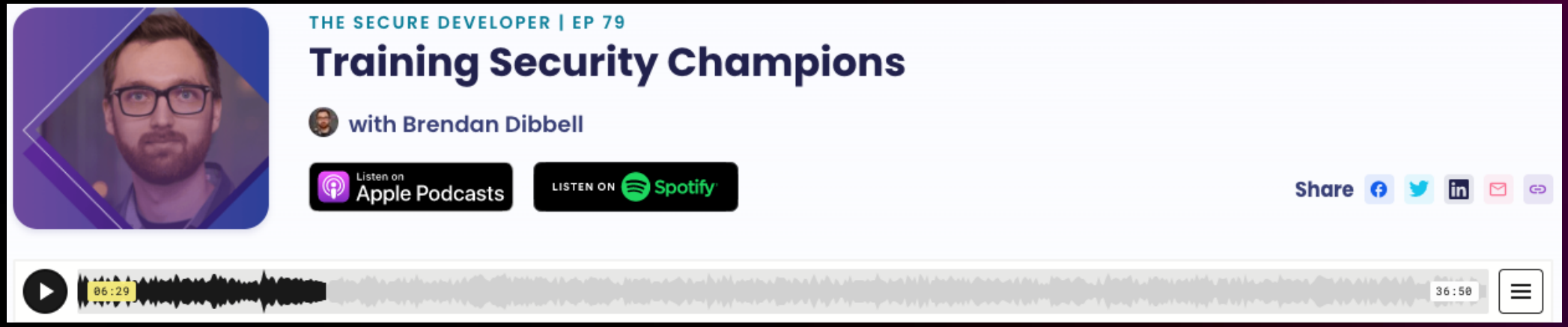


"When I think about security champions and successful models, it's either where out of engineering or development teams, you actually identify several folks that are responsible for security."

Rinki Sethi
Vice President and Chief Information Security Officer
Twitter

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Security Ownership



“When we say a security champion for us, it’s a person who is actually responsible for taking over some of the day-to-day security work.”

Brendan Dibbell
Application Security Engineer Team Lead
Toast

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4 Steps to a Dev-First Security Program

1. Change the ownership
2. Design for Developers
3. Bring the cloud into appsec
4. Develop your champions

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Story Time!



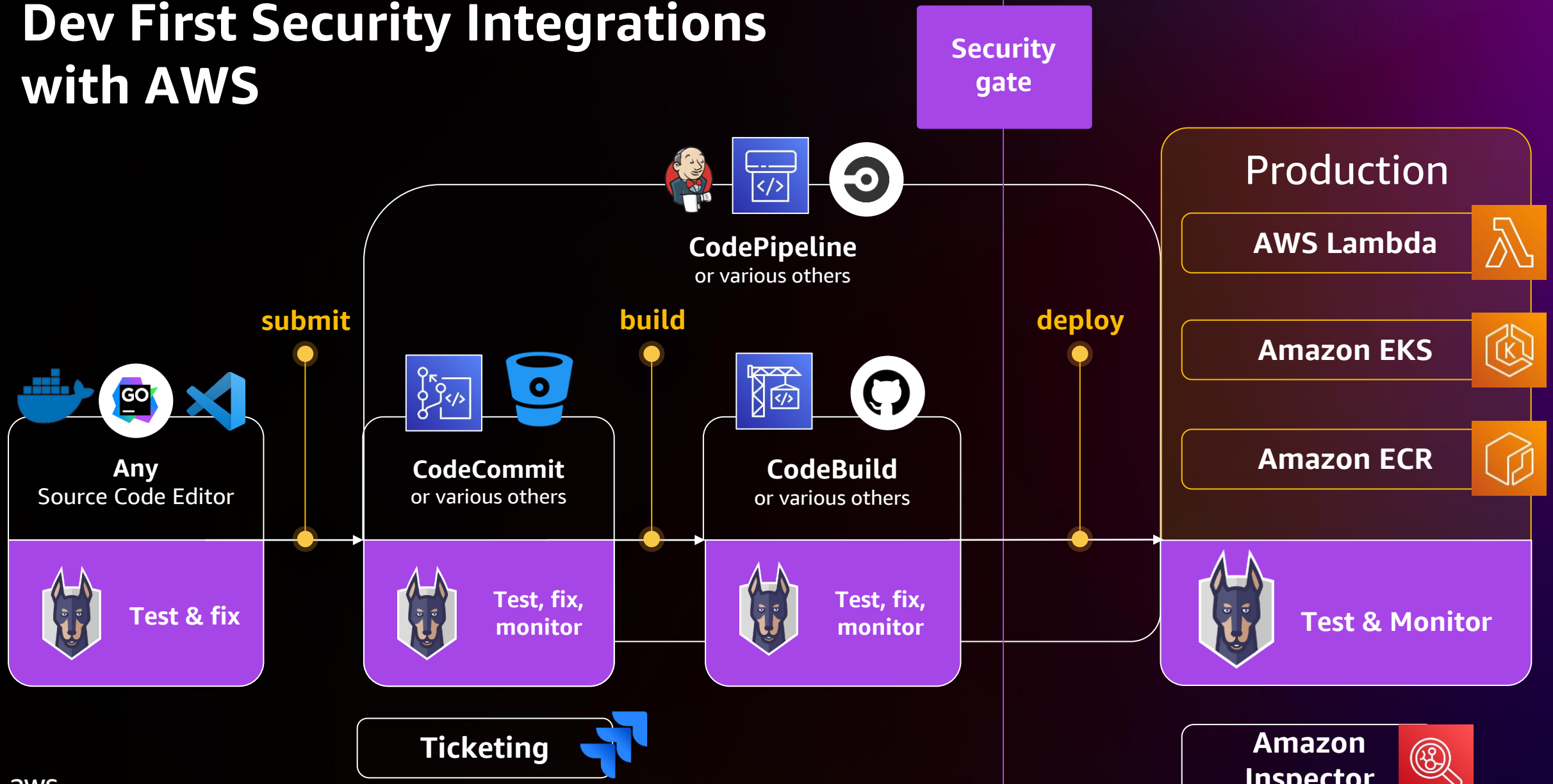
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Cloud Security Architect

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Dev First Security Integrations with AWS

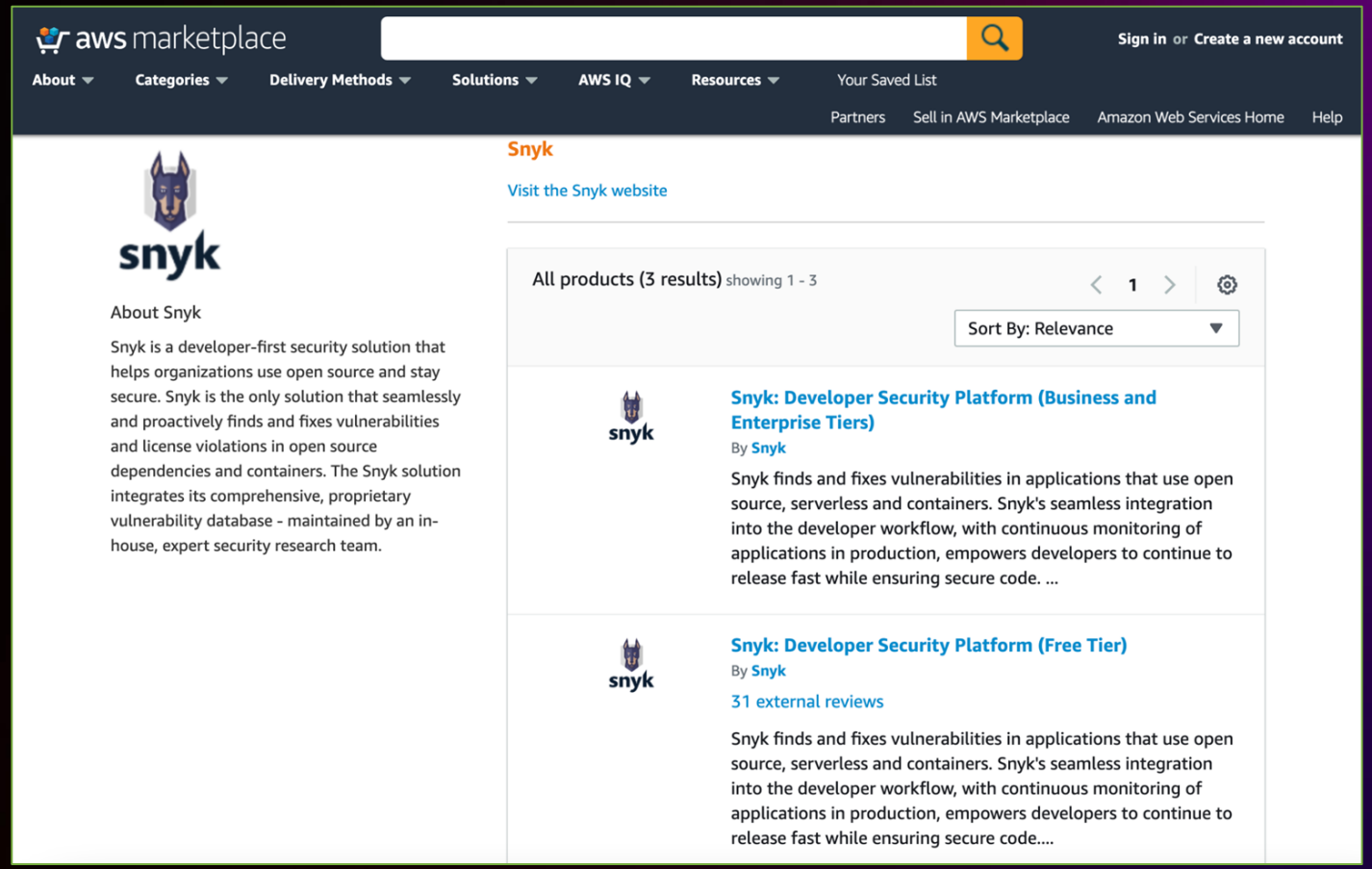


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