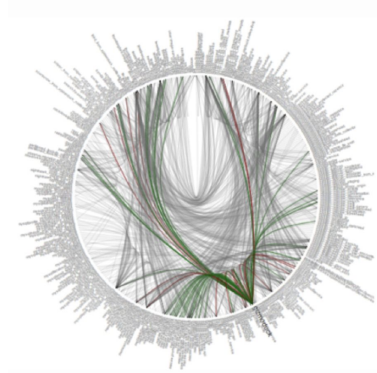
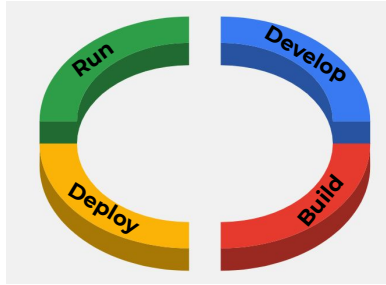


Modern Software Development Pipeline: A security reference architecture



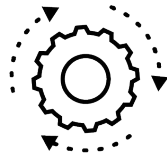
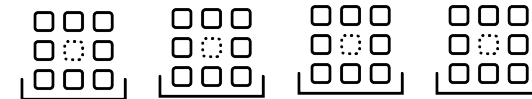
Vinay Venkataraghavan
Cloud CTO, Prisma Cloud

Cloud is modernizing the software development lifecycle

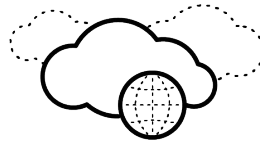


DevOps

Containers



Automation



Public cloud



Hybrid cloud

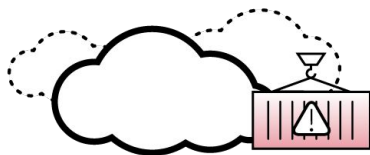
With cloud innovation come security challenges



Insecure Configurations

42%

of CloudFormation
templates are insecure



Vulnerable Defaults

51%

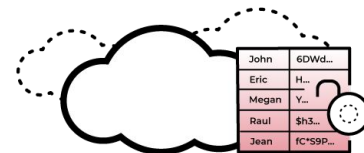
of exposed Docker
containers use insecure
defaults



Host Vulnerabilities

24%

of exposed cloud hosts
have known
vulnerabilities



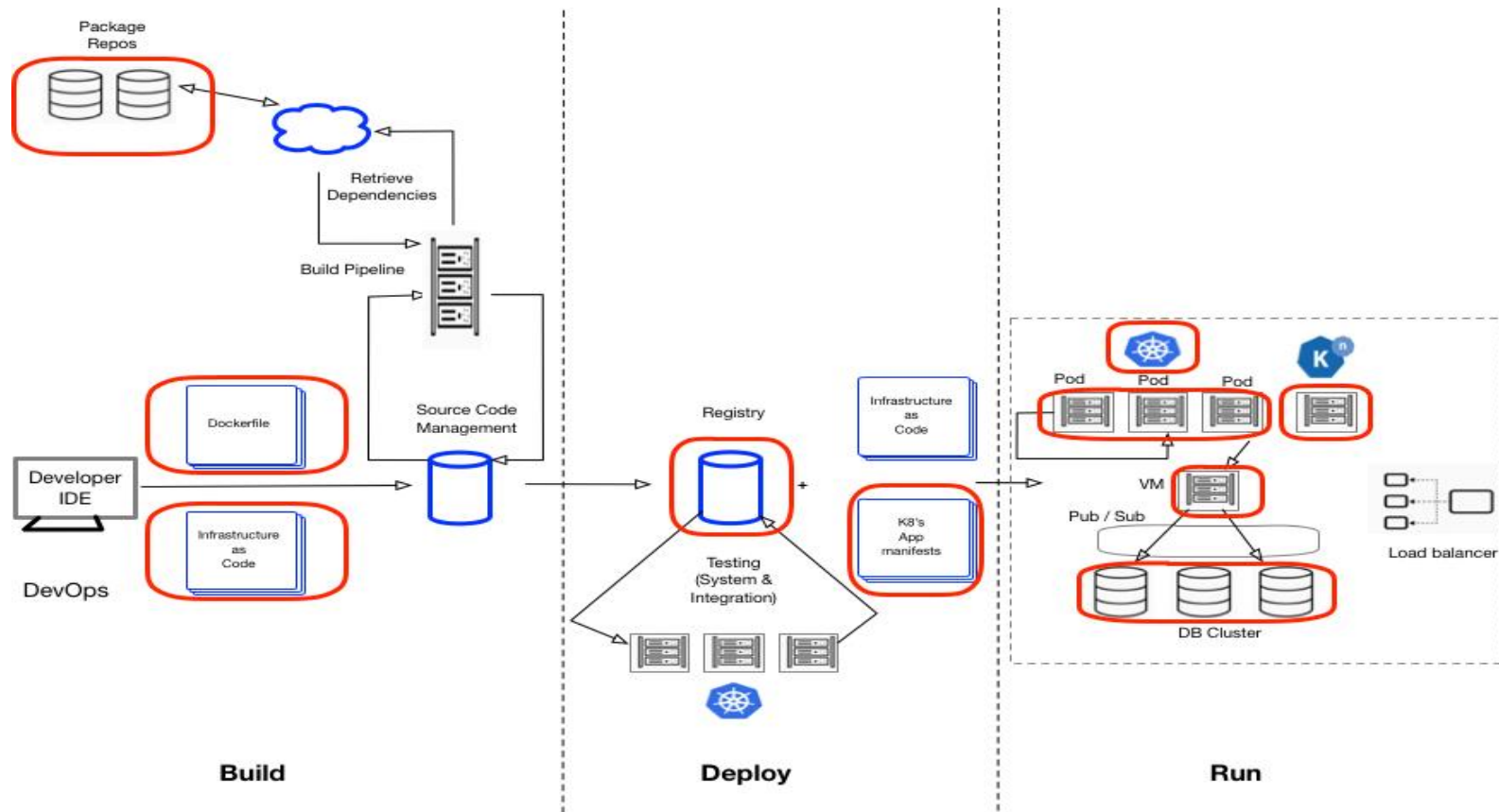
Compliance Risks

43%

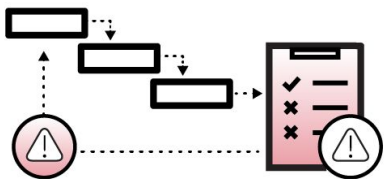
of cloud databases
are not encrypted

SOURCE: Palo Alto Networks Unit 42 research

Security threat vectors for cloud native applications

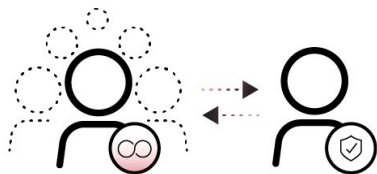


An integrated and comprehensive approach is required



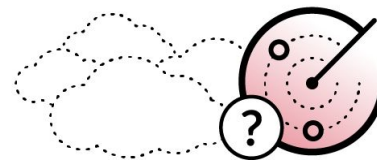
Protection across the dev lifecycle

It has to be integrated, automated and not an afterthought



Trust between DevOps & Security teams

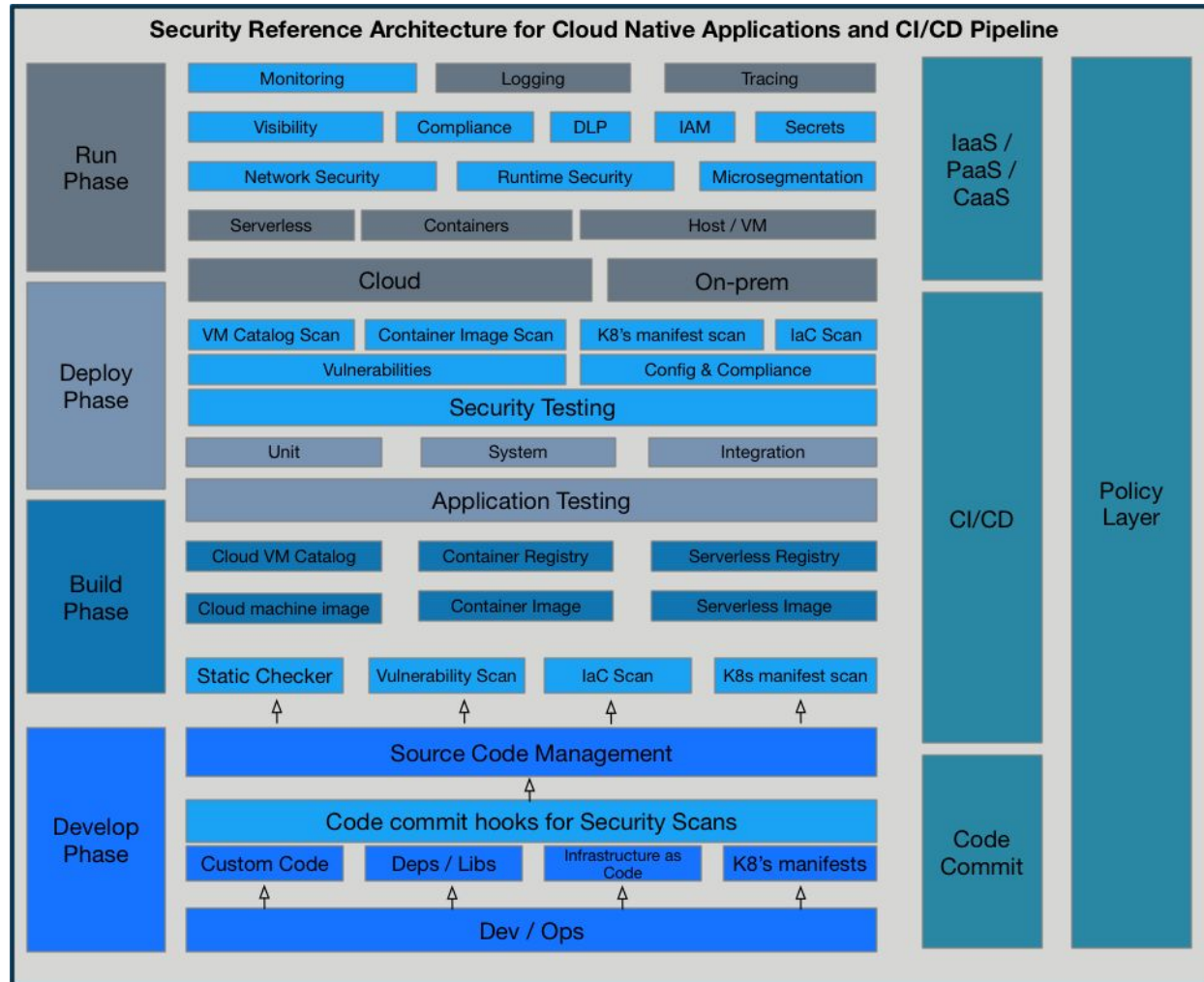
Releasing software faster can not mean short cuts on security



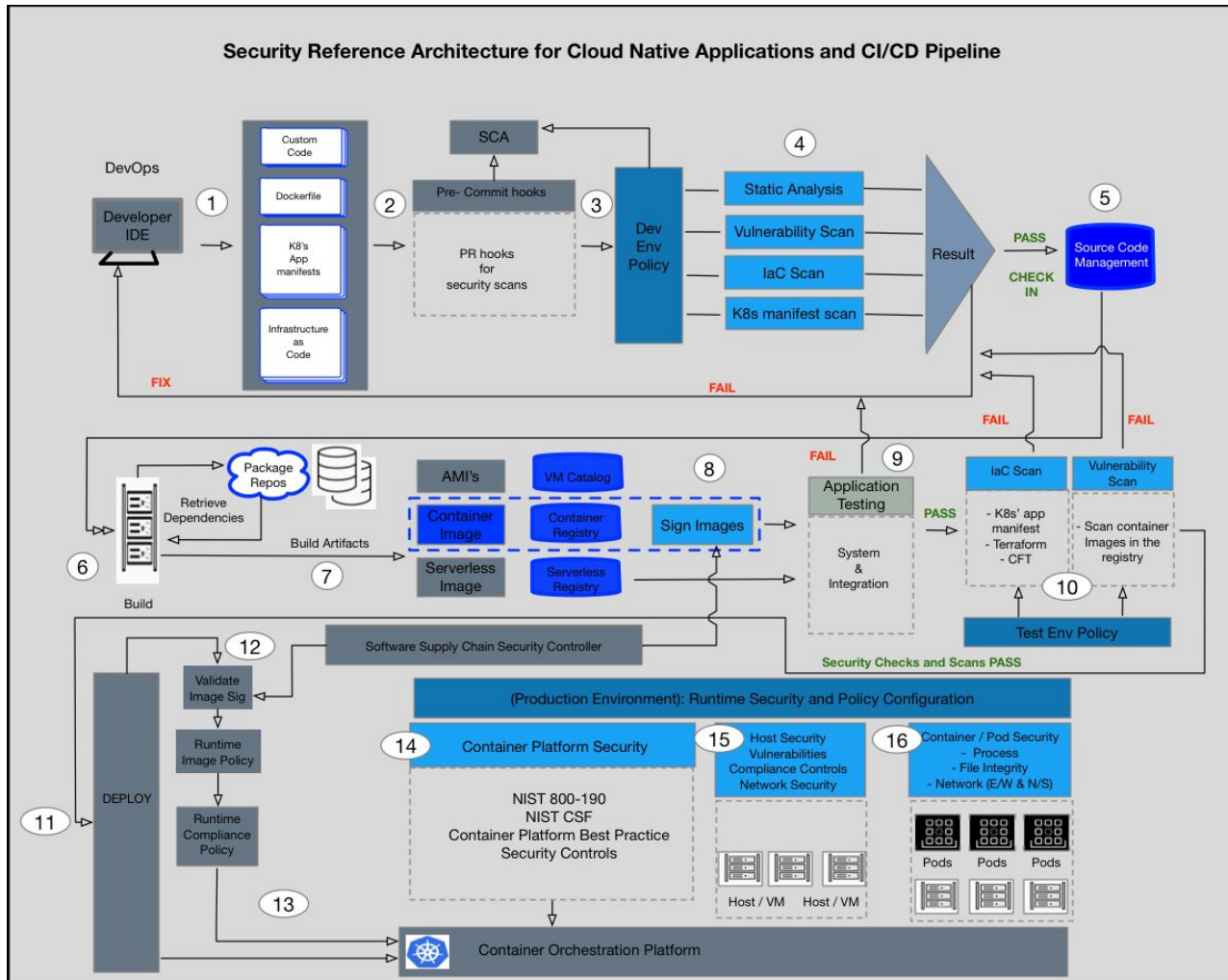
Change is the only constant

Cloud environments constantly evolve - new workloads, ephemeral instances, new architectures, etc.

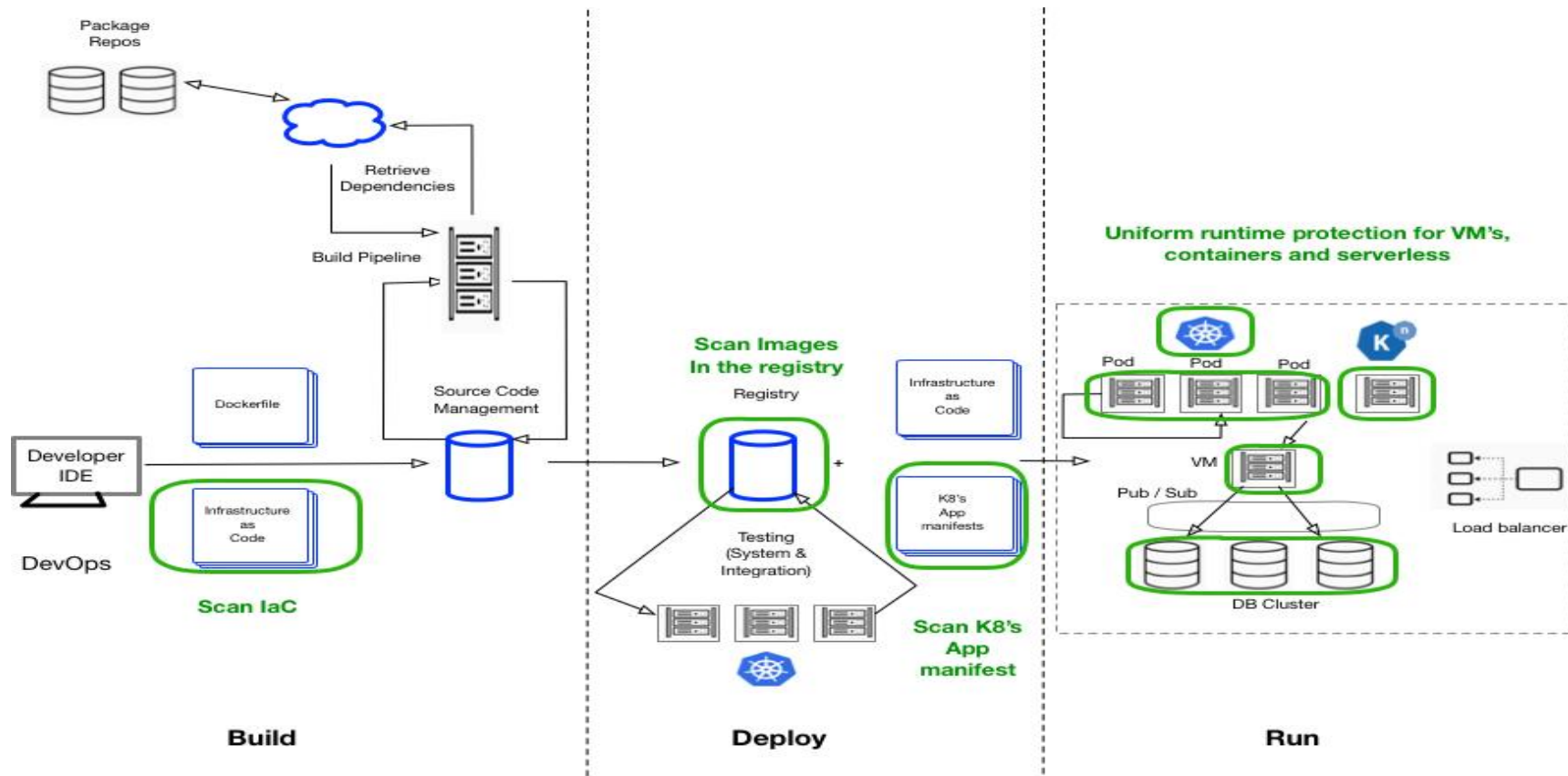
Security Reference Architecture: Technology View



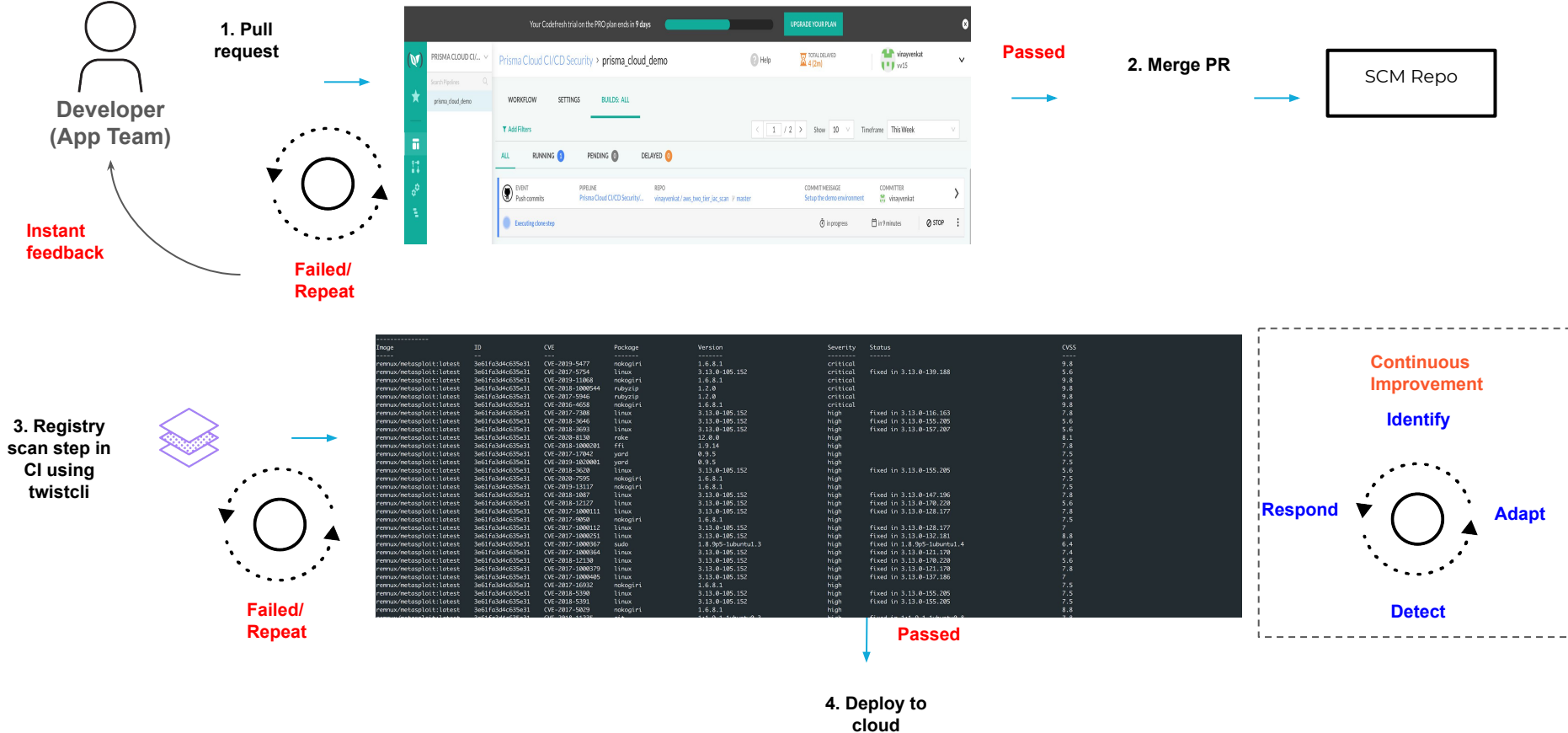
Security Reference Architecture: Operational View



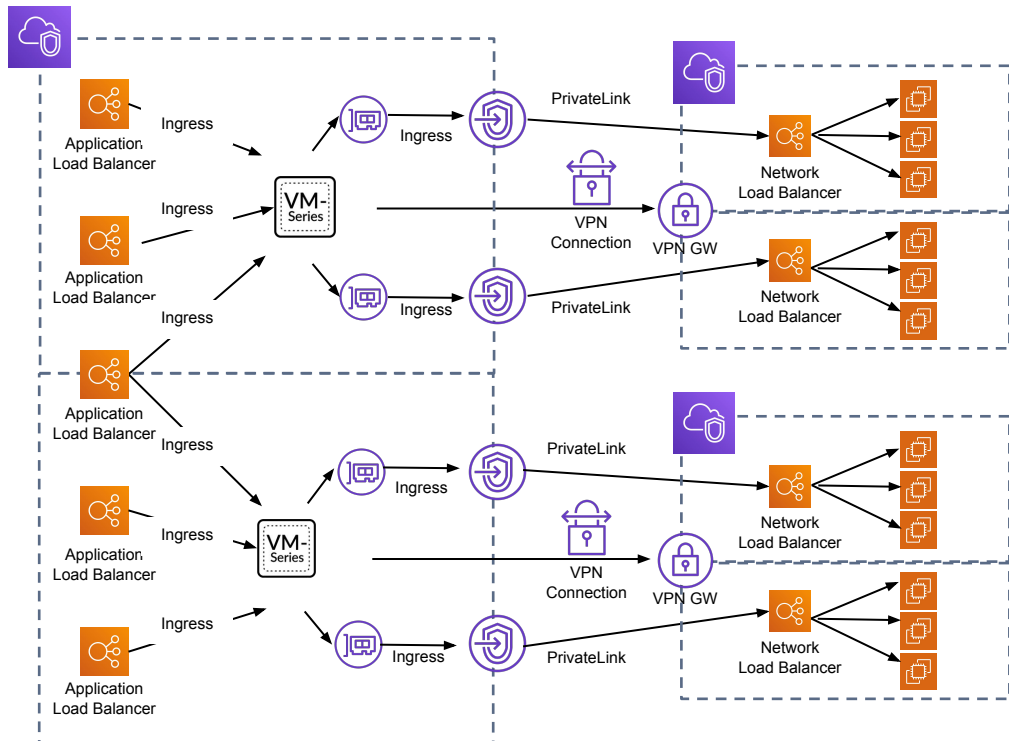
Security injected throughout the app life cycle and stack



Use case: Empower DevOps with DevSecOps



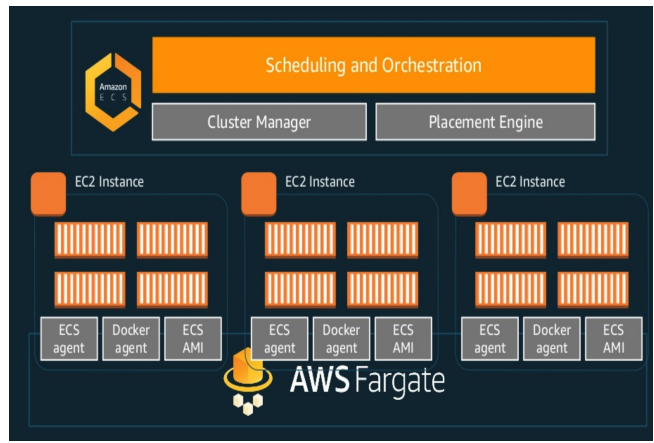
Use Case: Infrastructure as Code / Applications as Code with scanning



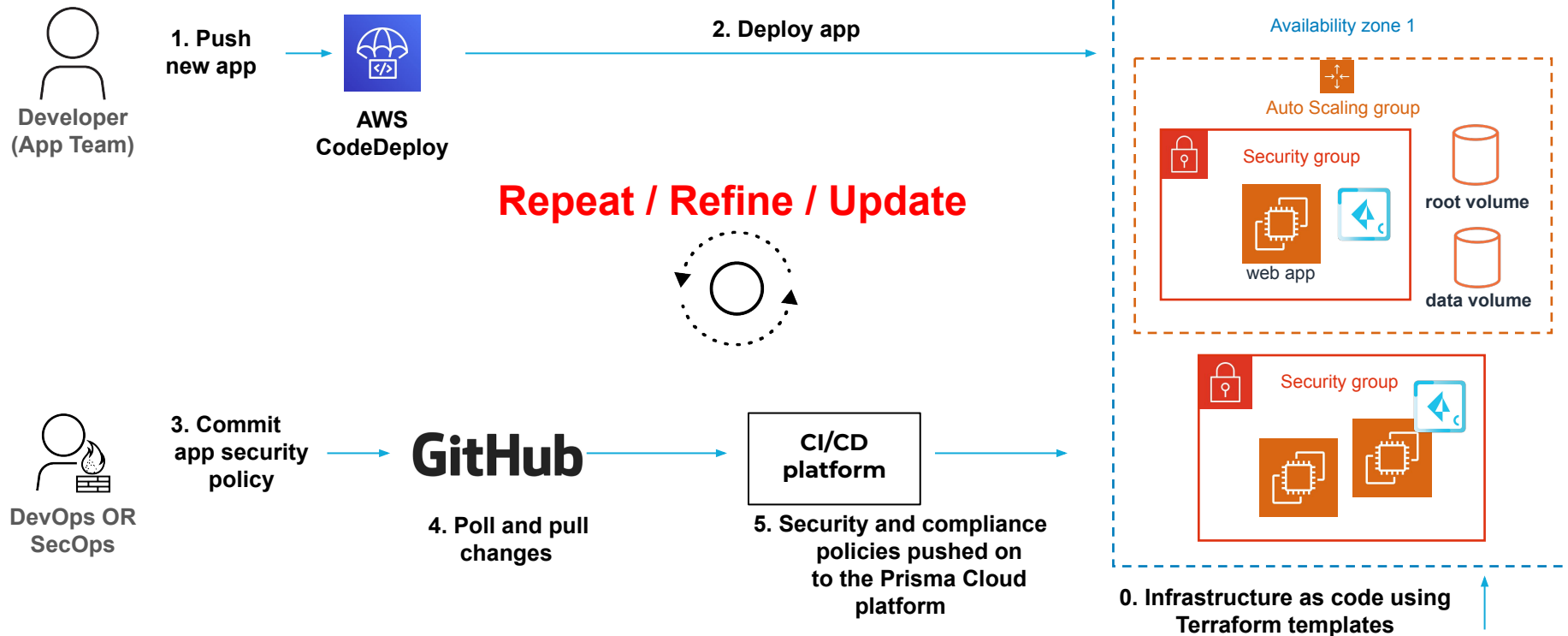
Iac + K8s manifests

Codefresh Pipeline
Security Scan

Identify and fix
security issues



Use Case: CLOUD SECURITY AT THE SPEED OF DEVOPS



DEMO

Thank you

