AWS PUBLIC SECTOR SYMPOSIUM

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BTT202

Implement DevSecOps at scale using AWS Cloud Native Services

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Agenda

- What does the AWS Container landscape look like?
- What is DevSecOps and what are its practices?
- Building a DevSecOps pipeline with AWS Services
- Key Takeaways DevSecOps Pipeline Designing Strategy
- Additional resources

AWS Container Services Landscape

MANAGEMENT

Deployment, Scheduling, Scaling & Management of containerized applications







HOSTING

Where the containers run





IMAGE REGISTRY

Container Image Repository

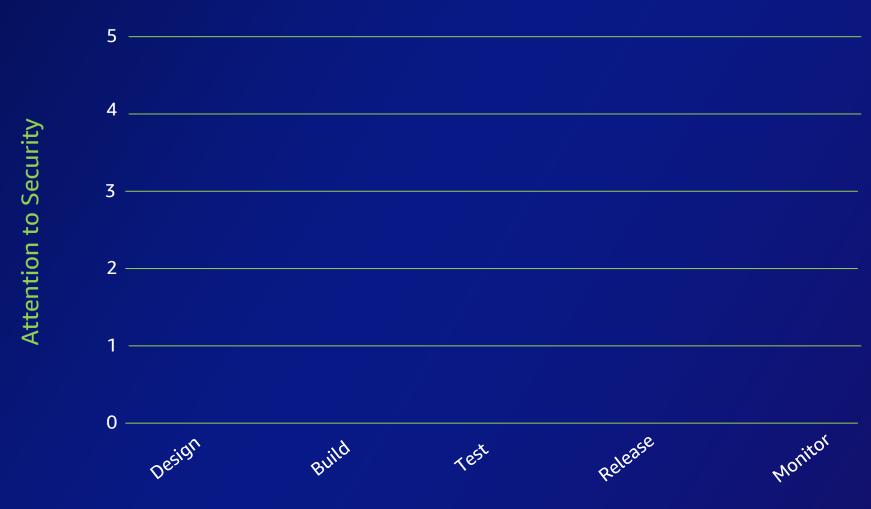




Understanding DevSecOps



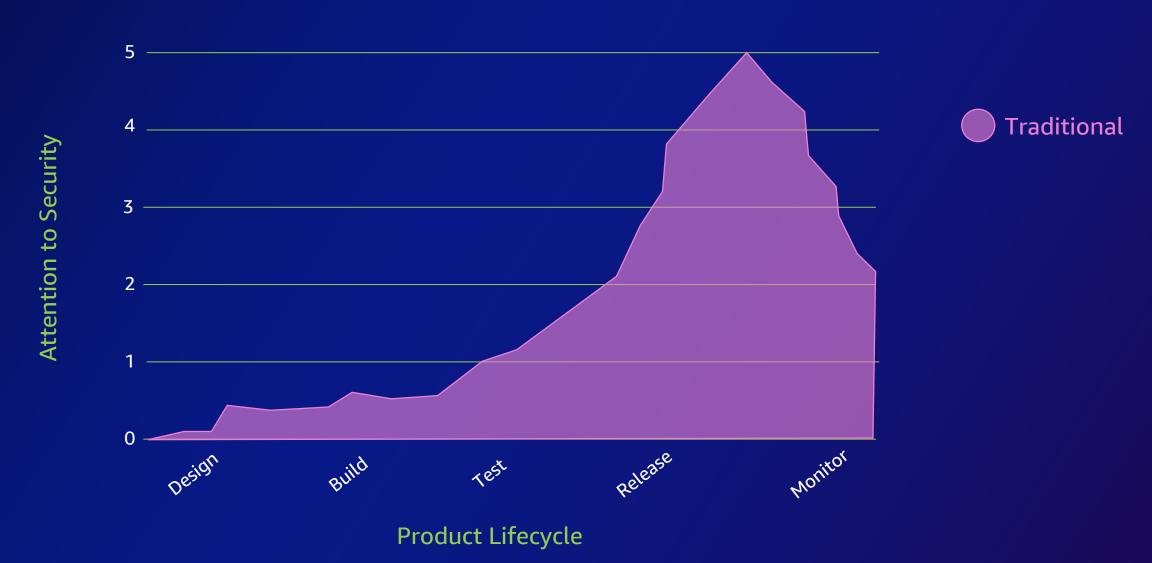
Why DevSecOps?



Product Lifecycle

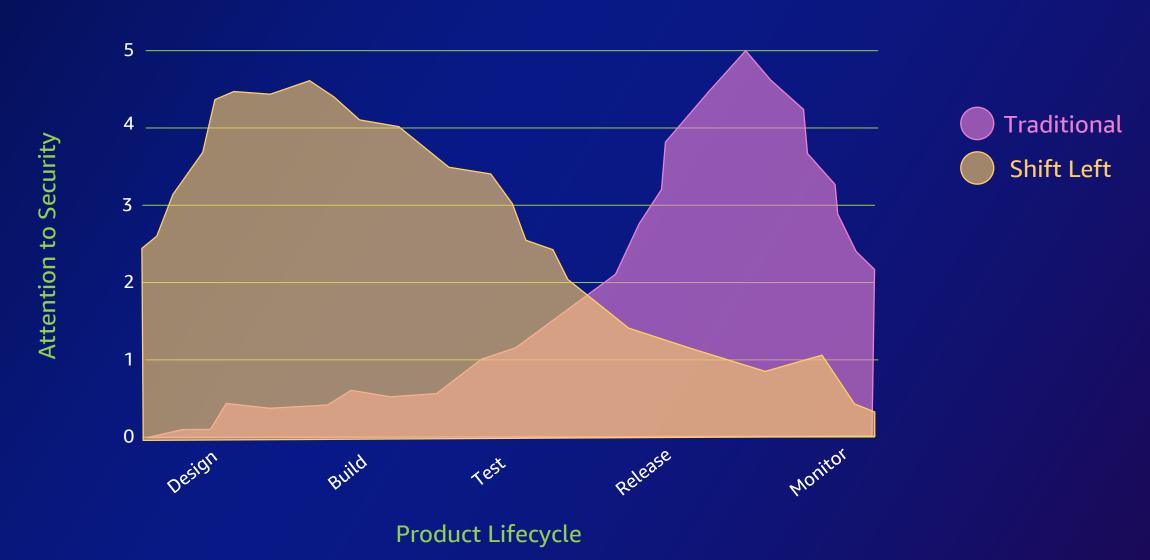


Why DevSecOps?





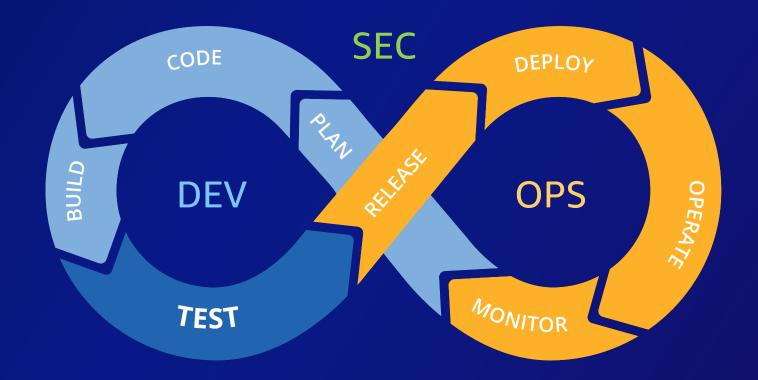
Why DevSecOps?





What is DevSecOps?

DevSecOps is achieved by integrating and automating the enforcement of preventive, detective, and responsive security controls into the pipeline.





Tenets of DevSecOps









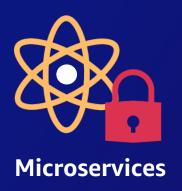
Automate, automate, automate



DevSecOps Practices













Collaboration and Communication

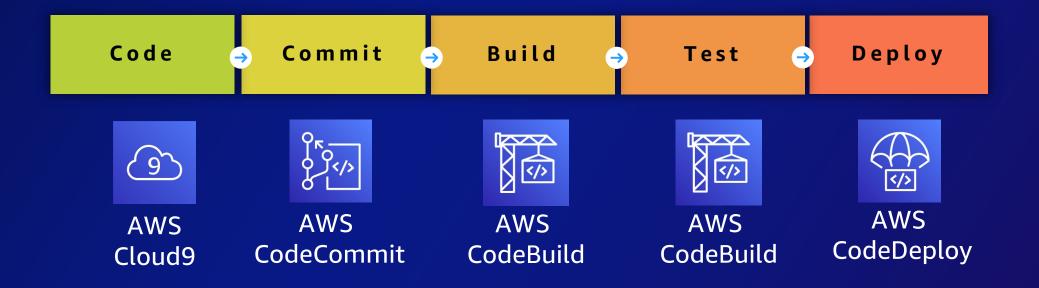
Designing DevSecOps



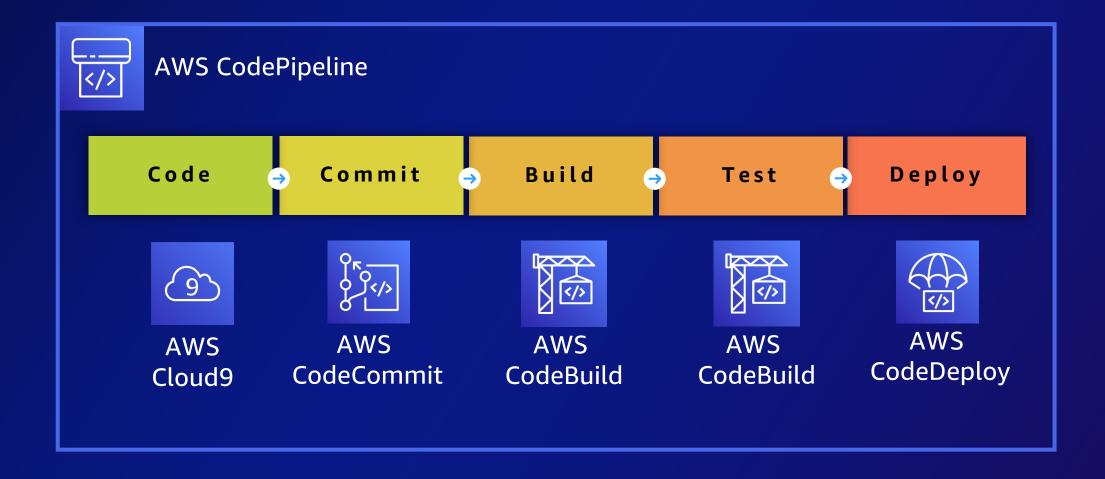
Foundational DevSecOps pipeline



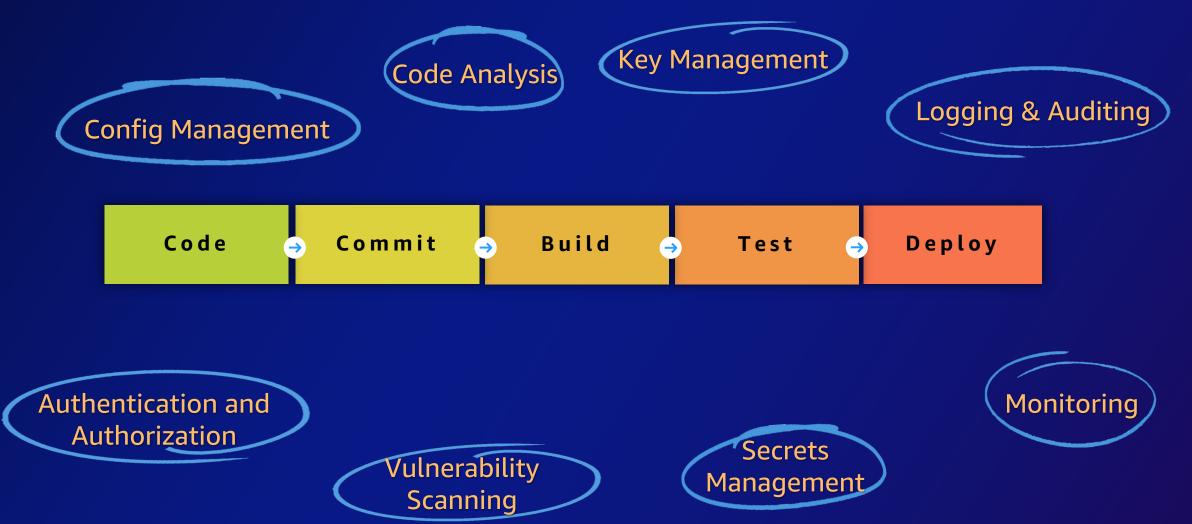




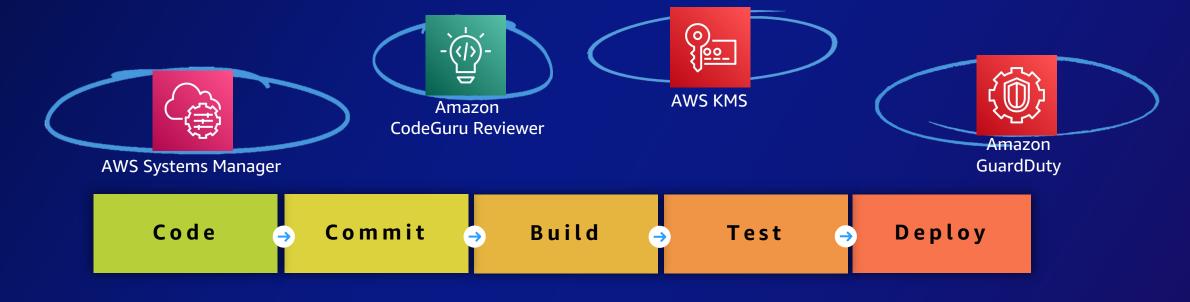
















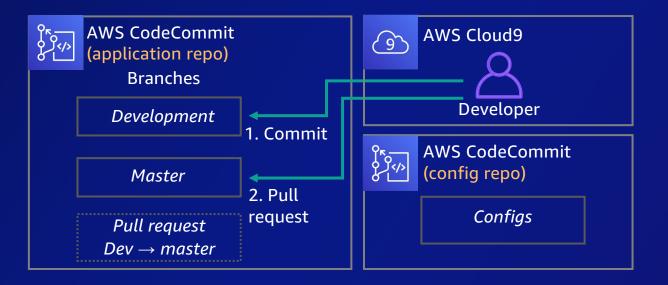




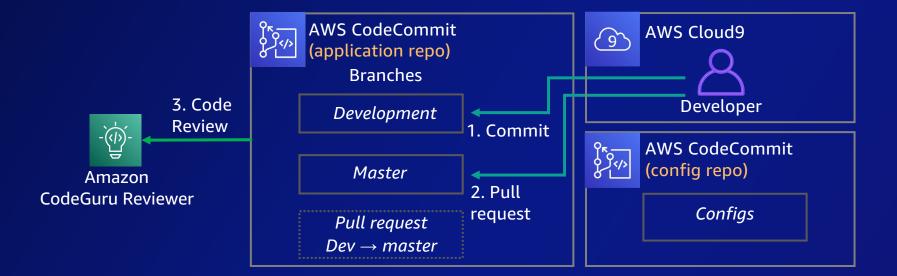


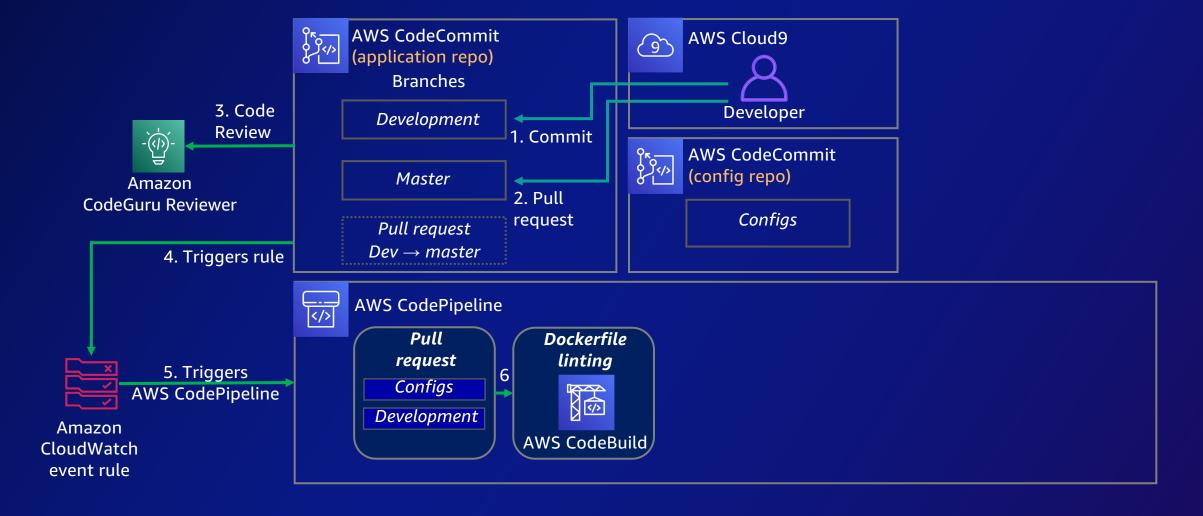
Implementing DevSecOps

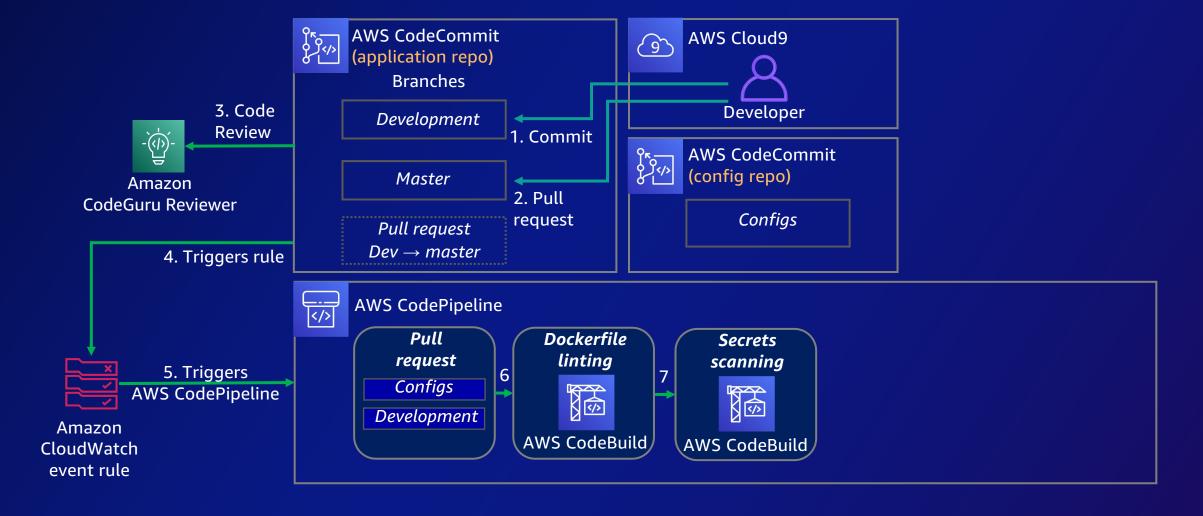


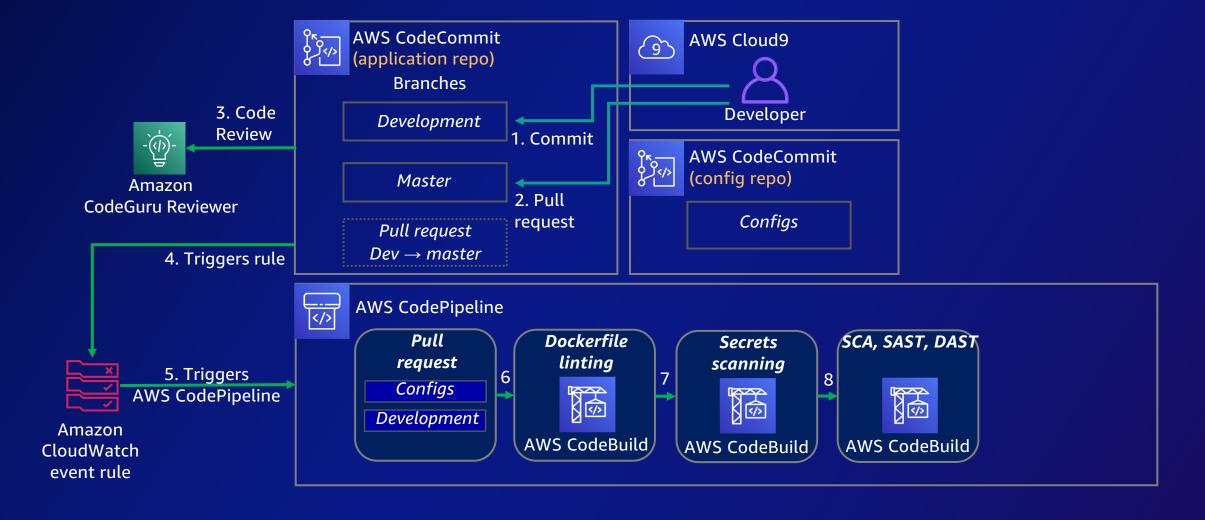


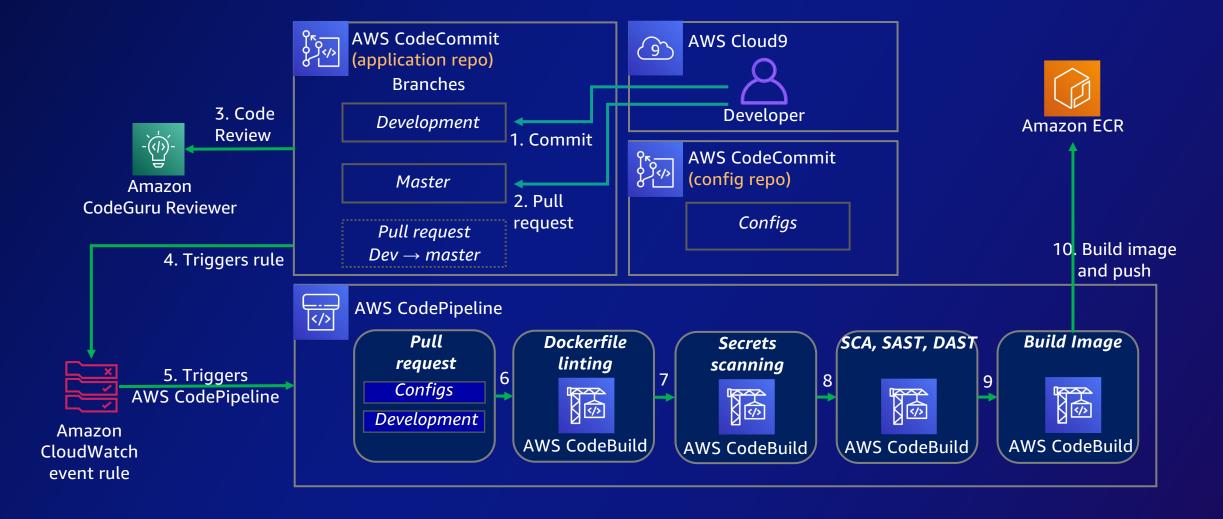
[From a Developer's perspective]

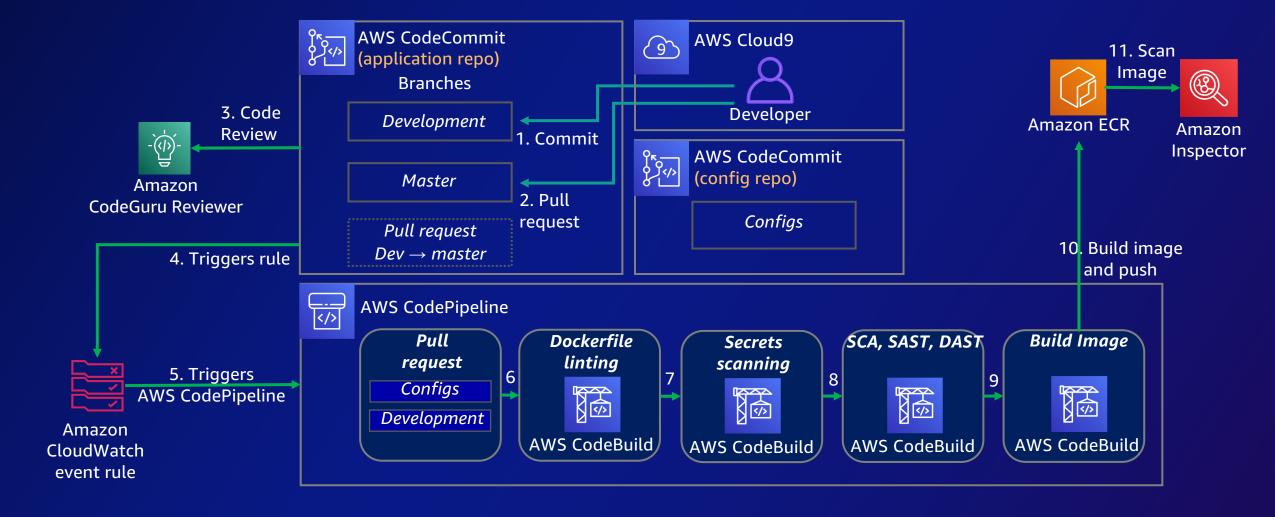


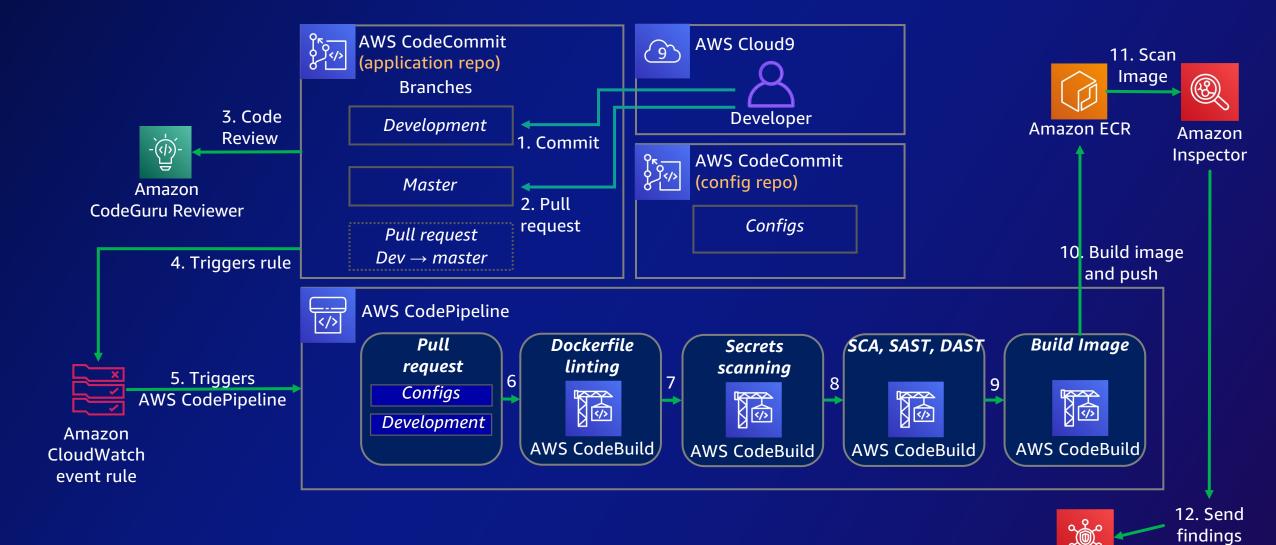




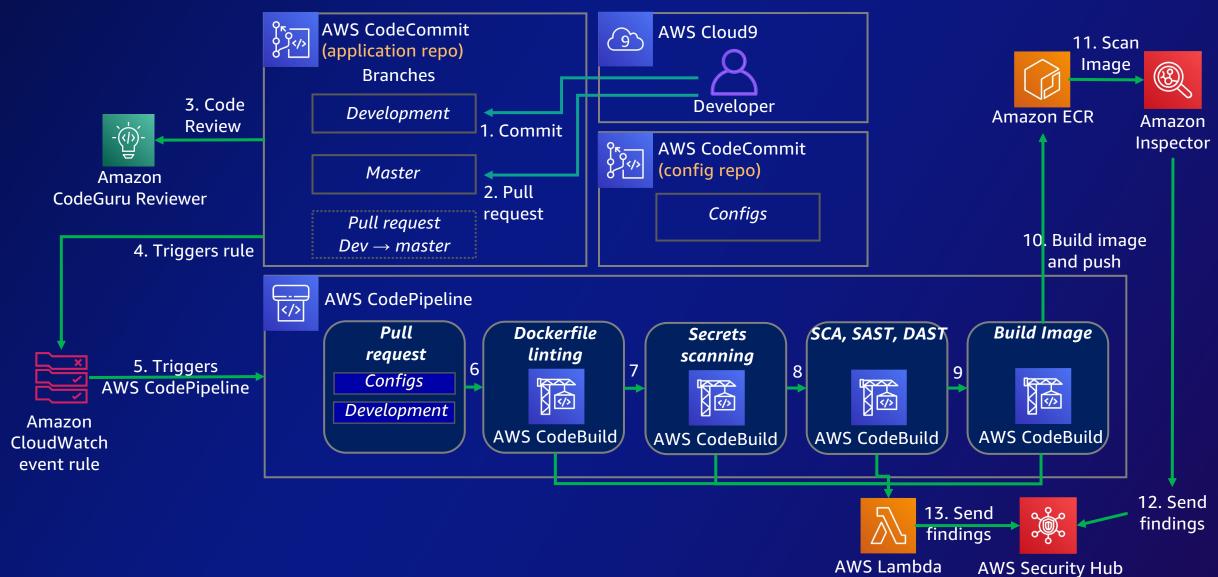


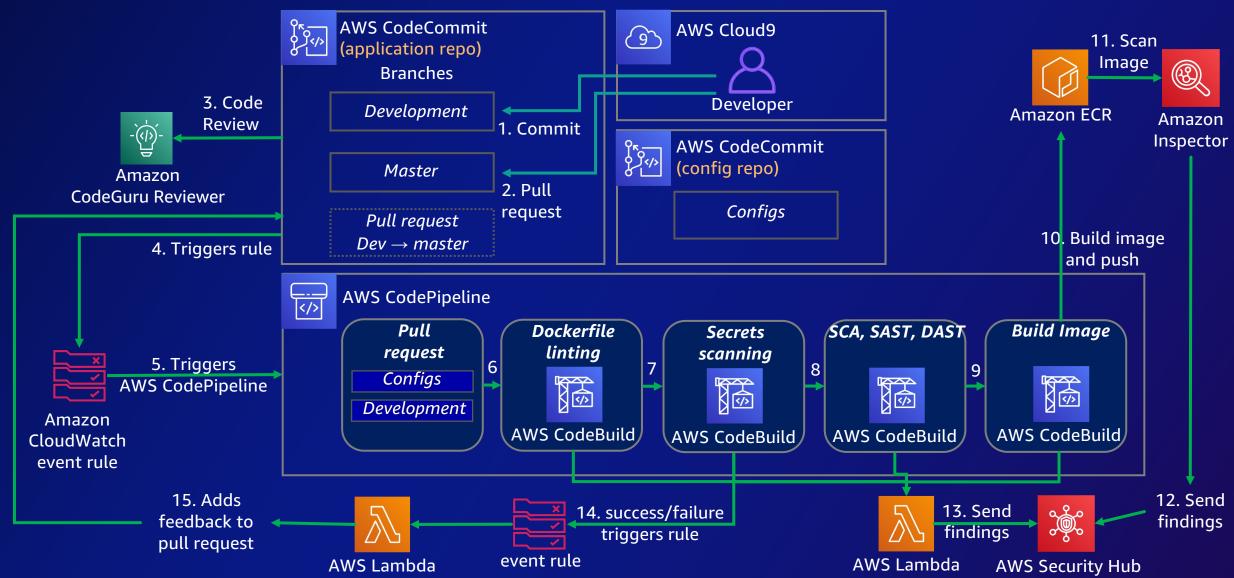


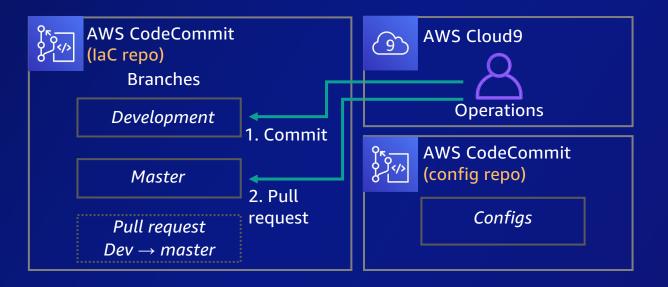




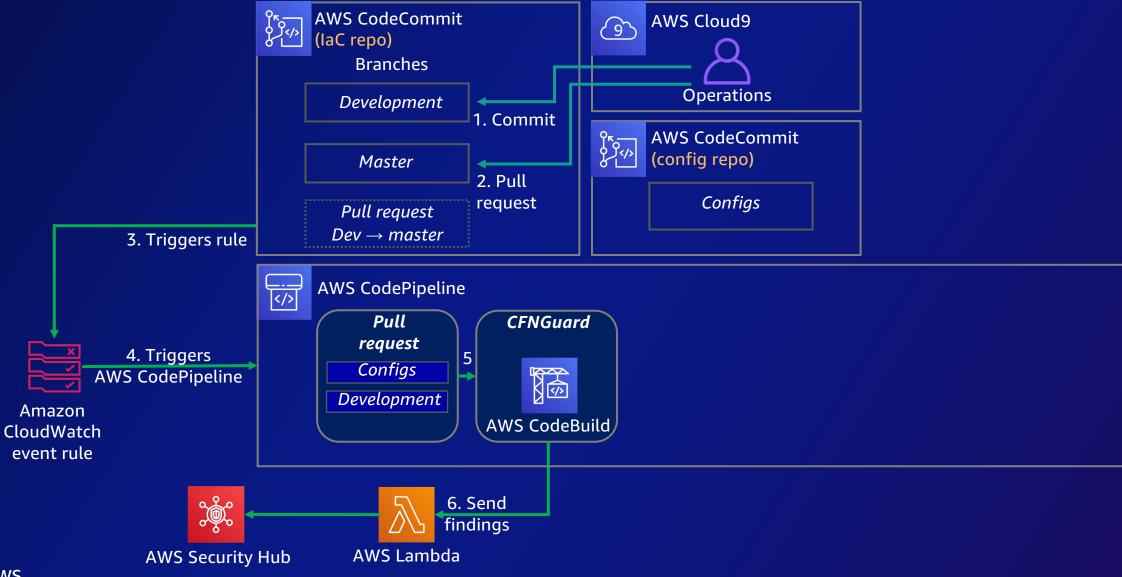
AWS Security Hub

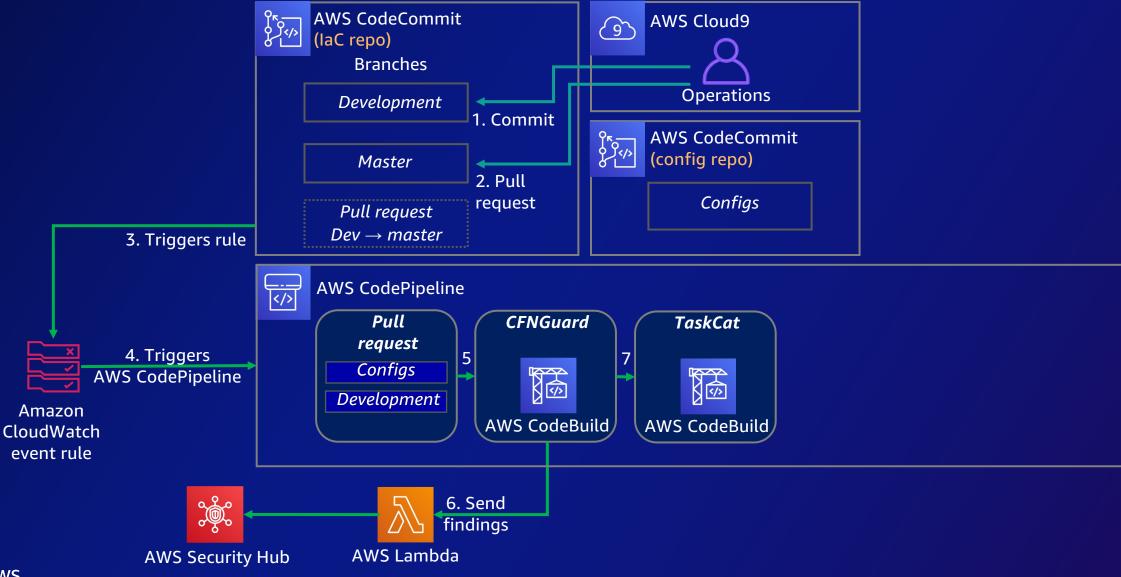


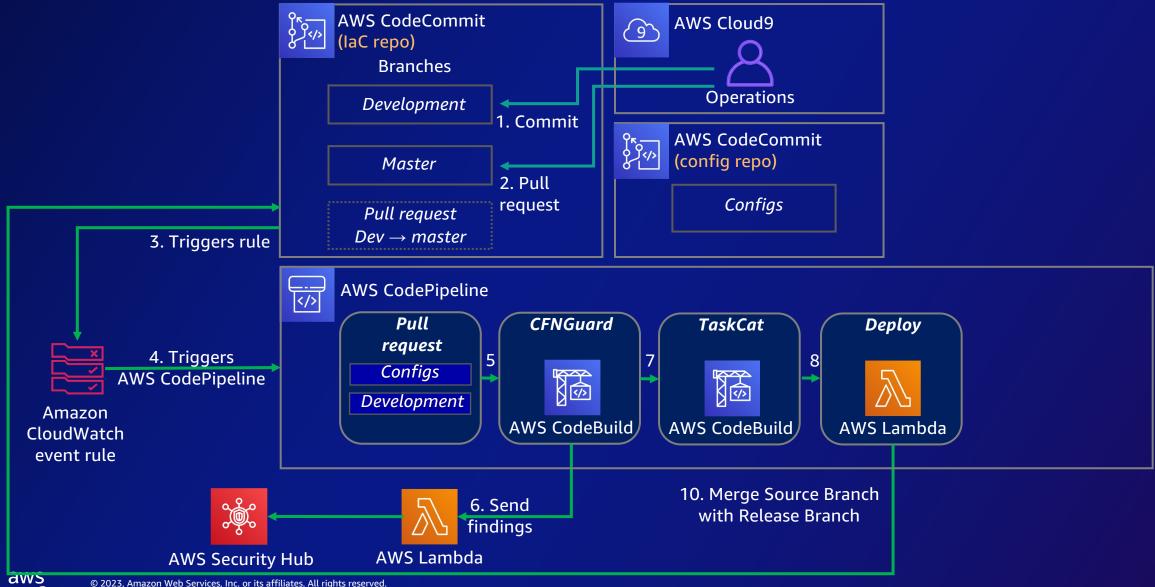


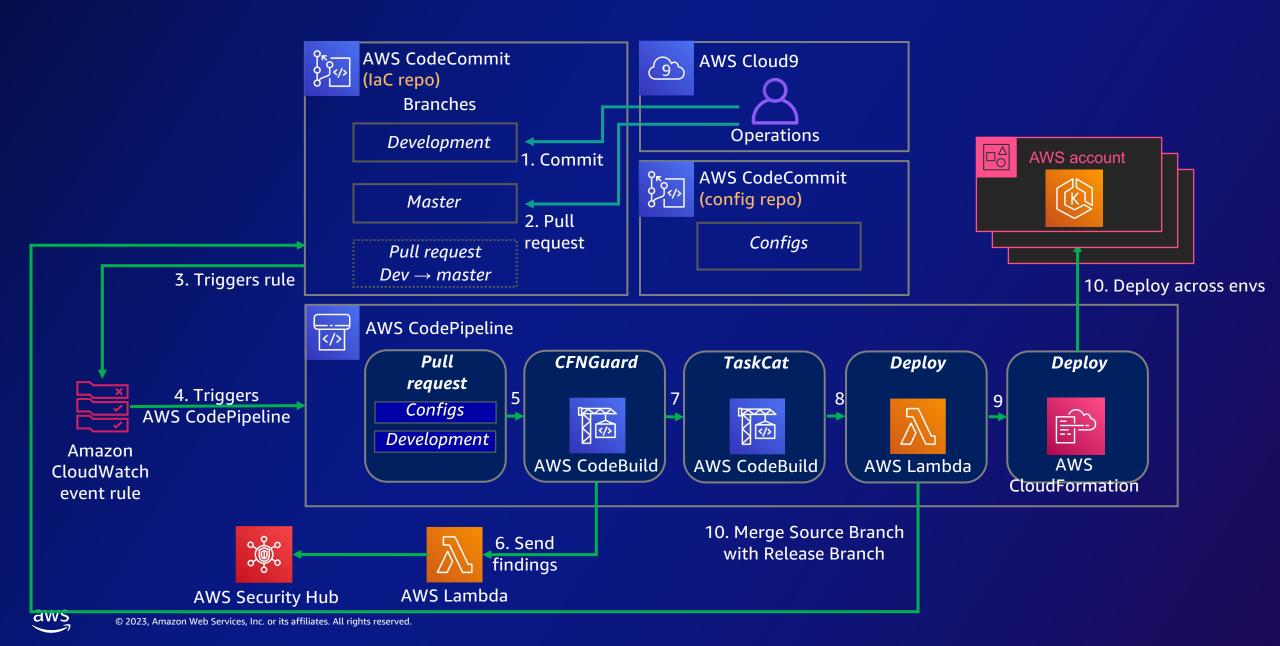


[From an Ops perspective]





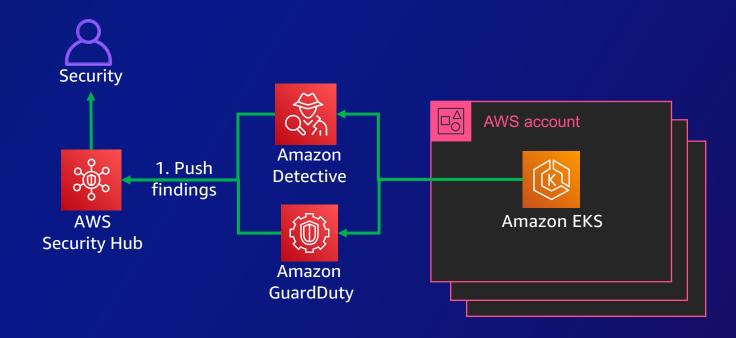


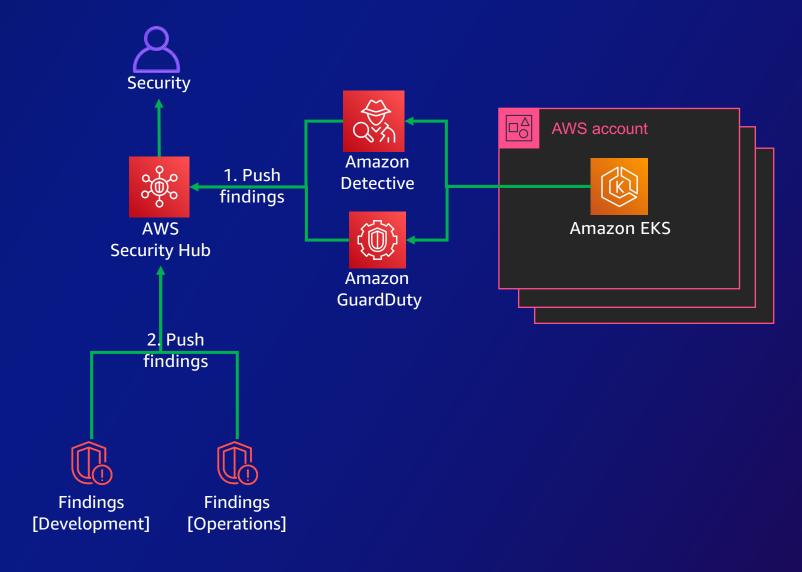


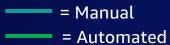


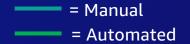
[From a Security perspective]

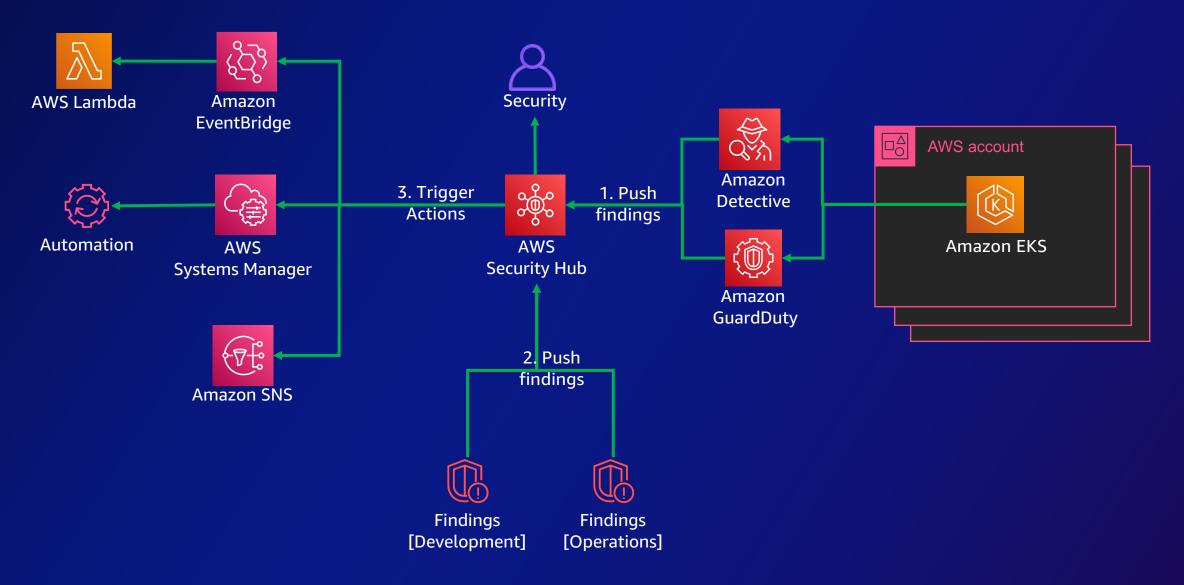












Key Takeaways and Additional resources



Key Takeaways













Additional Resources

[Workshop]

Security for Developers - https://workshops.devax.academy/security-for-developers/



[References]

AWS DevSecOps Blog - https://aws.amazon.com/blogs/security/tag/devsecops/ Security Best Practices:

- Amazon EKS https://aws.github.io/aws-eks-best-practices/security/docs/
- Amazon ECS https://docs.aws.amazon.com/AmazonECS/latest/bestpracticesguide/security.html

[New Launches]

- Amazon GuardDuty for EKS Clusters https://aws.amazon.com/about-aws/whats-new/2022/01/amazon-guardduty-elastic-kubernetes-service-clusters/
- Amazon Detective for EKS Clusters https://aws.amazon.com/blogs/aws/amazon-detective-supports-kubernetes-workloads-on-amazon-eks-for-security-investigations/
- Amazon Inspector for ECR scans https://aws.amazon.com/about-aws/whats-new/2021/11/amazon-inspector-continual-vulnerability-management/

Thank you!

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