



Building a Ground System in 45 Minutes or Less

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Infrastructure as Code (IaC)

Techniques, practices, and tools from software development applied to creating **reusable, maintainable, extensible, and testable** infrastructure.

Key Takeaways



You **can** code
everything



You can start this at
your **Enterprise**



Why IaC is Important to you



Structure

Create design patterns and easily replicate them



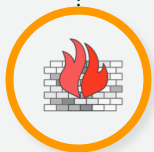
Speed

Templatize and Define every aspect of your infrastructure



Monitoring

Track current and historical IaC configuration, get notified when changes occur, maintain audit compliance and governance controls

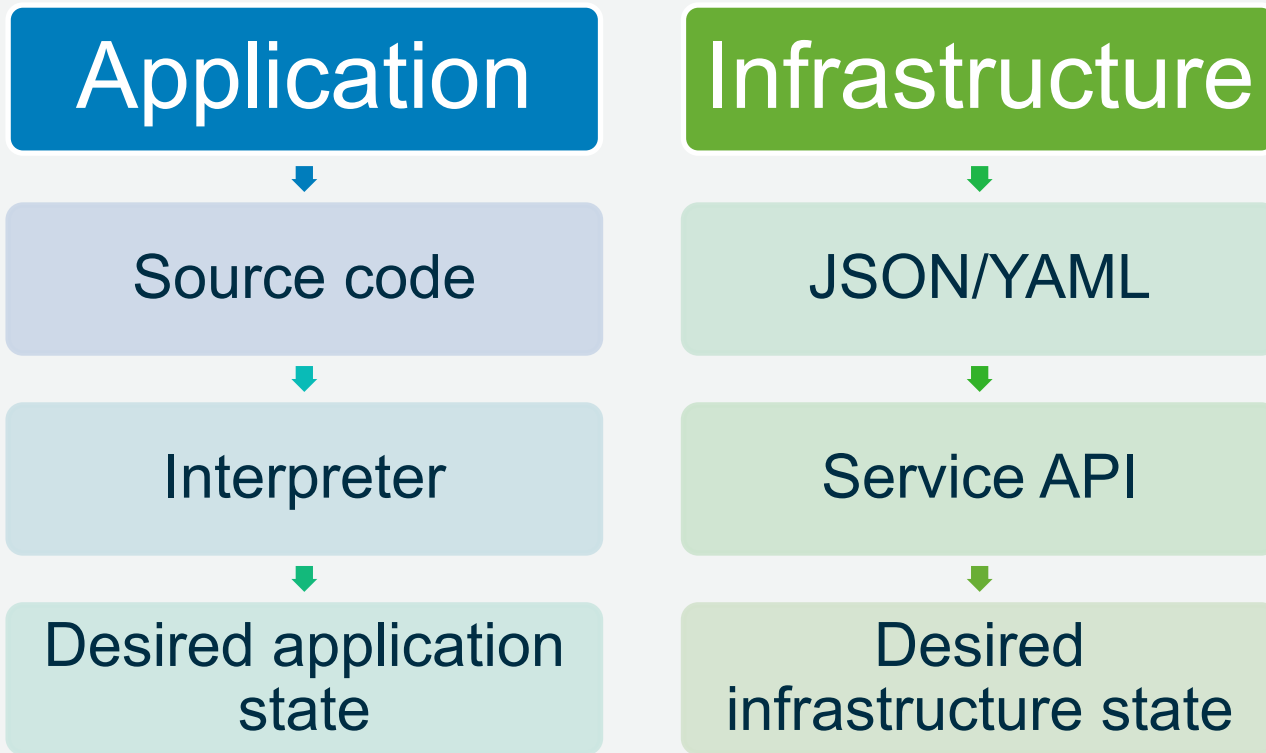


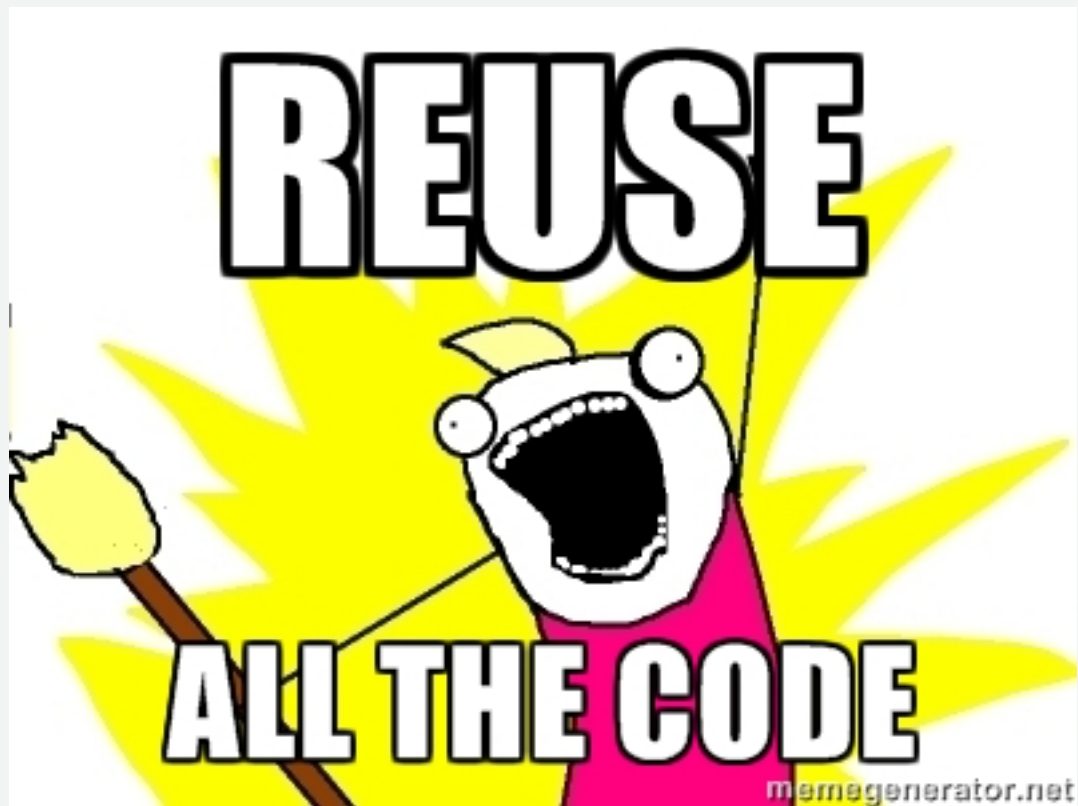
Security Compliance

Ensure the resources you deploy adhere to Security Control requirements

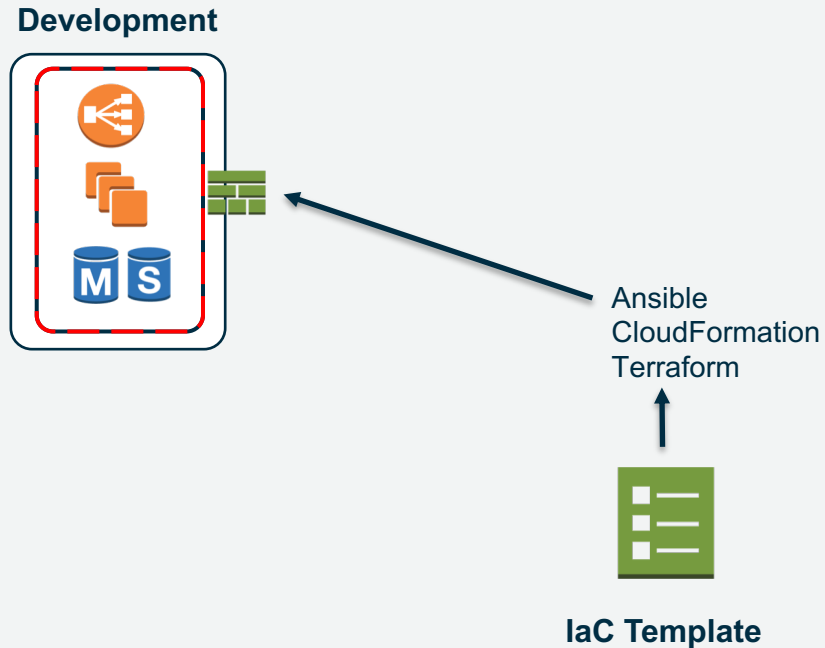


Build and Operate Infrastructure as Software

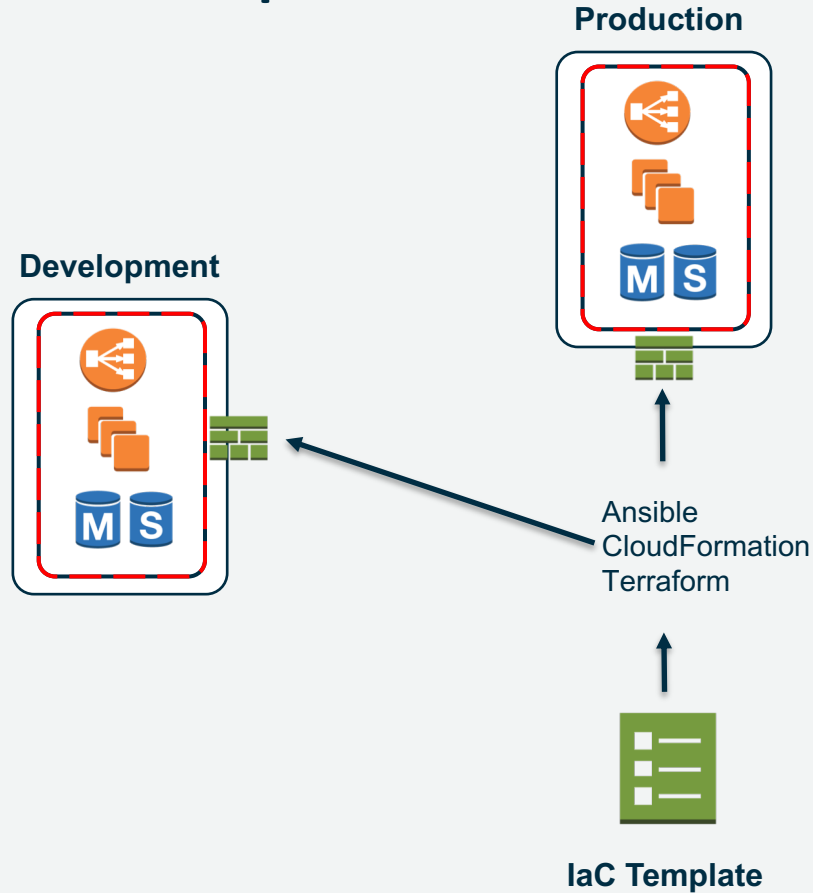




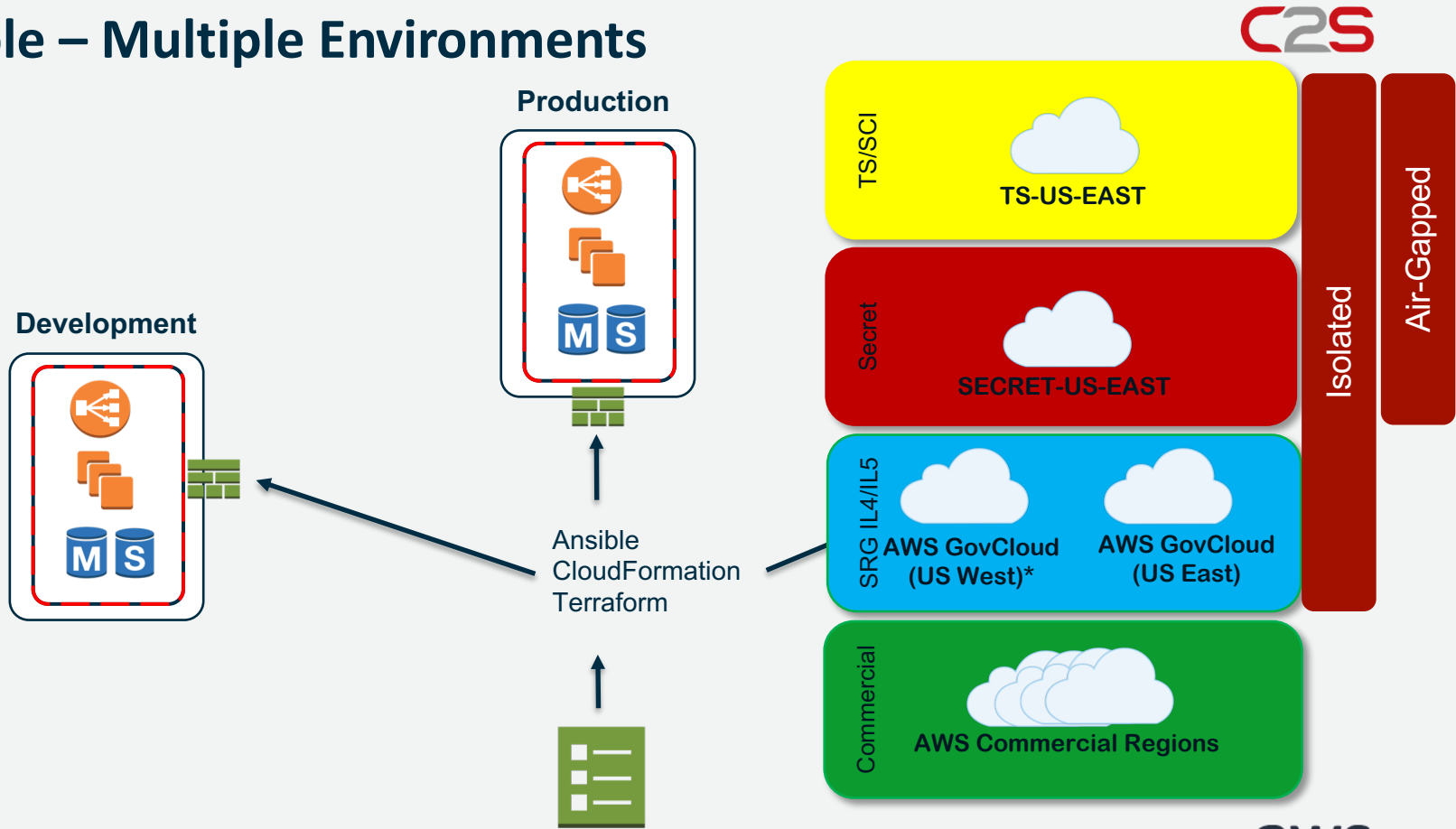
Reusable – Multiple Environments



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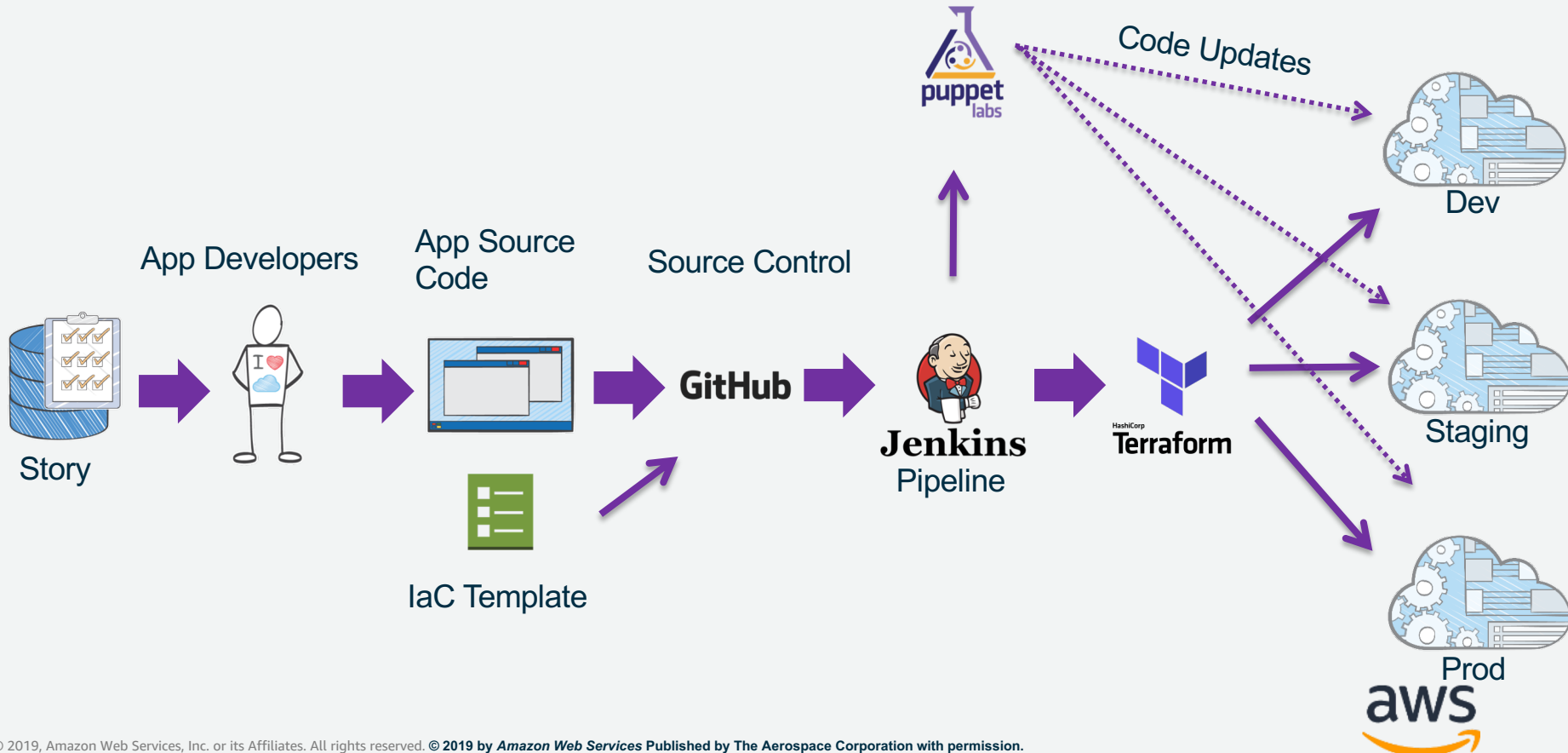


Reusable – Multiple Environments



IaC Template

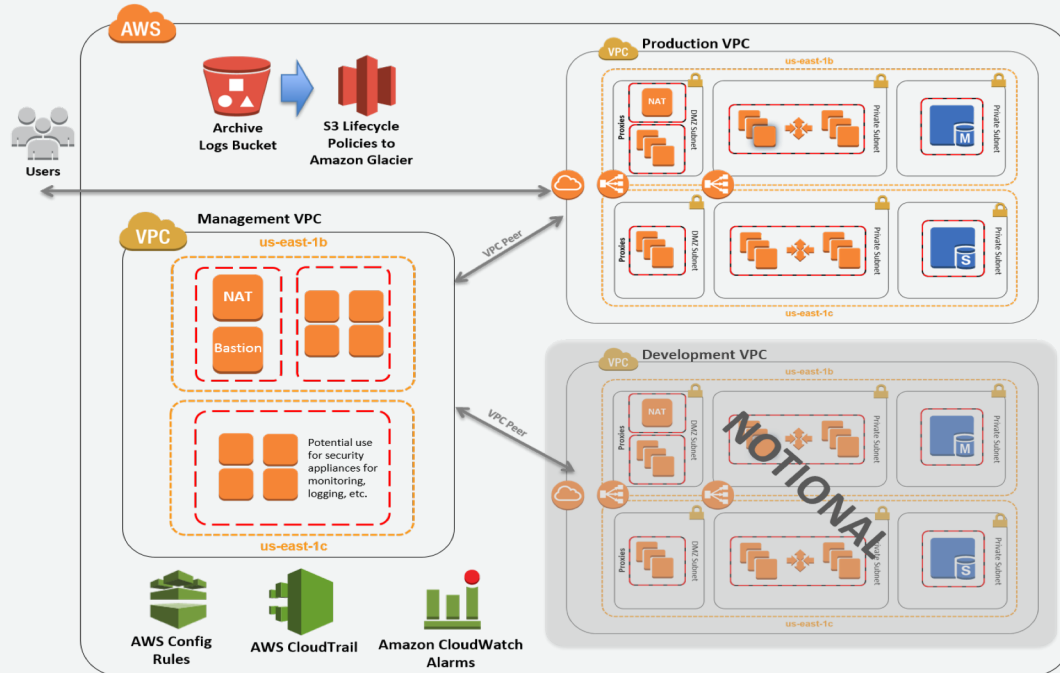
Maintainable– Integrate in CI/CD Pipelines



Getting Started

<https://aws.amazon.com/quickstart/architecture/compliance-nist/>

- ✓ Highly Available
- ✓ Firewalls
- ✓ Hardened OS
- ✓ Load Balancers
- ✓ Auto Scaling
- ✓ Logging
- ✓ Auditing
- ✓ NIST 800-53



Questions