

ATO on AWS

Eric Baran
DevOps Segment Leader – Regulated Industries

ATO Sales Kick Off 2019



Why did we decide to build this program?

Our customers asked us to.

What Regulatory Standards are we building for?

ACCELERATING TIME TO COMPLIANCE IN THE AWS CLOUD



International Traffic and Arms Regulation



FedRAMP Moderate and High



DOD Security Req's Guide IL 2, 4 and 5



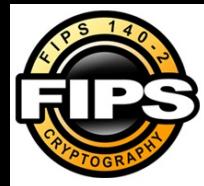
Criminal Justice Information Service Security Policy



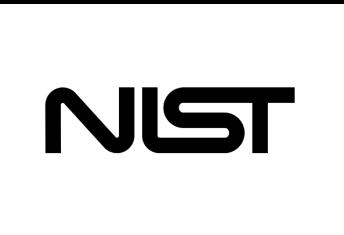
Health Insurance Portability & Accountability Act



IRS Publication 1075

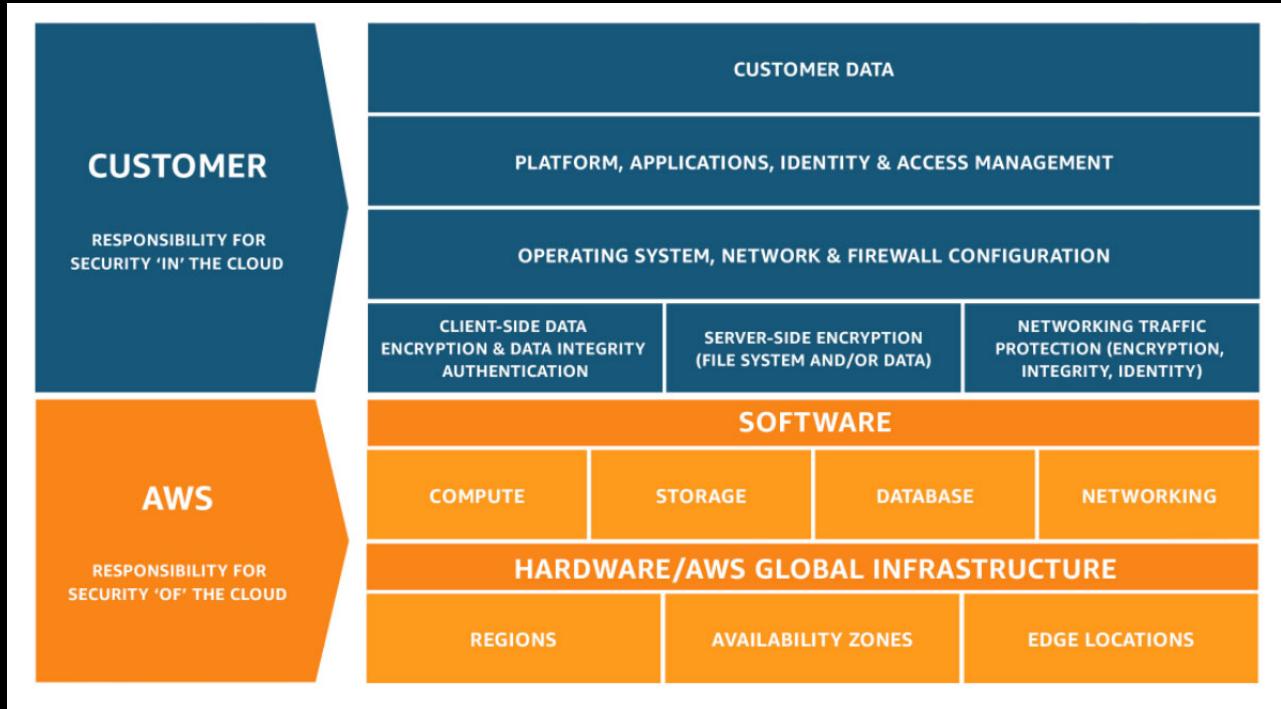


Federal Information Processing Standard Pub



SP 800-53 (rev 4)
SP 800-171

AWS Shared Responsibility Model



Problem Statement – Why can't we be Agile?

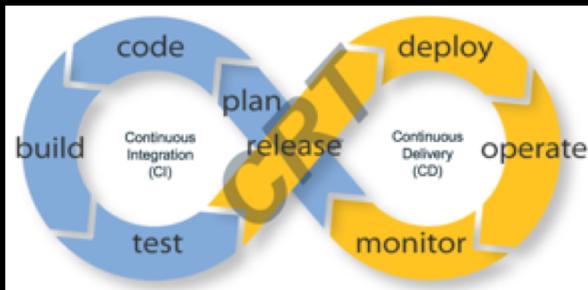
Security and risk management leaders continue to labor over “How” do they secure current, legacy and cloud resources consistently within their limited constraints.

While cloud services has provided streamlined ways to achieve innovation through the principles of DevSecOps and Developer Self-Service, regulated customers are still under mandate to follow strict security, governance, and accreditation standards, which are delivered during the production deployment phase.

Solution Overview: SAO

Develop an **AWS Security Automation and Orchestration (SAO)** repository for constraining, tracking, publishing continuous security configurations, integration, deployments and treatments which are certified against common security frameworks (e.g. FedRAMP, DoD CC SRG, IRS 1075,CIS, PCI, etc.)

SAO will facilitate the orientation and association of **DevOps** and **Security** practices, changes and coordination of **Continuous Integration (CI)**, **Continuous Delivery (CD)** and **Continuous Risk Treatment (CRT)*** of an AWS customer account and/or multiple accounts.



Thank You!



Selling ATO on AWS – The Pitch

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Agenda – Selling ATO on AWS – Days 1 and 2

1. Review: What is the Pitch? Let's review.
2. Better Together: Why does the AWS seller care about this program. What is the critical problem we address?
3. Better Together: Why should you as partners care about innovating under the ATO on AWS program?
4. What is the core mission of our team in 2019?
5. What are our goals, how will we measure success?



ATO on AWS – The 101 Pitch



Traditional verses Cloud (Modernized) – Governance

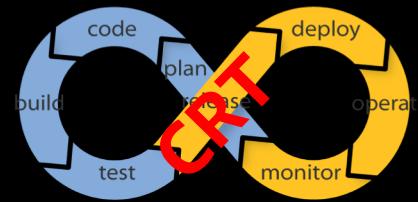
Traditional – Governance

- Information and technology (IT) governance is a subset discipline of corporate governance, focused on information and technology (IT) and its performance and risk management.
- The interest in IT governance is due to the on-going need within organizations to focus value creation efforts on an organization's strategic objectives and to better manage the performance of those responsible for creating this value in the best interest of all stakeholders.

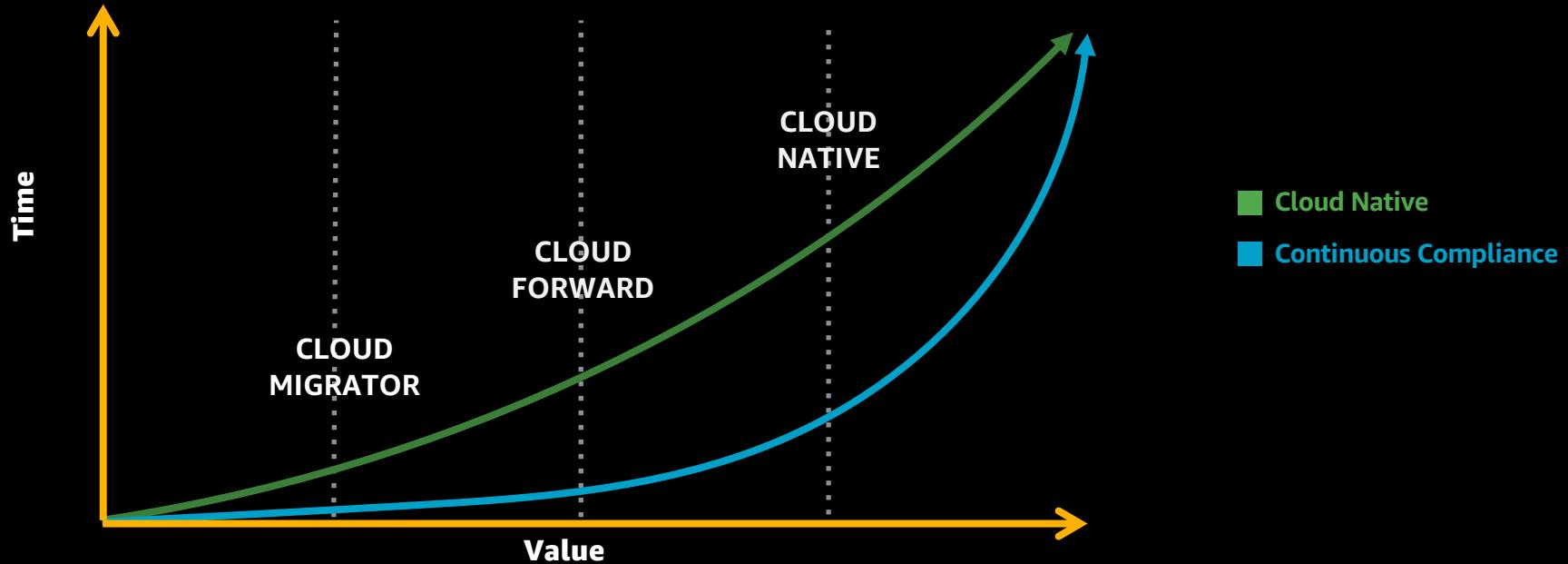


Cloud – Governance

- Technology drives your governance alignment
- Governance is a “Shared Responsibility”
- Automation is the **Key** to successful governance
- Pre-Cloud decision making process are paramount (e.g. service selection, policies, frameworks architecture, data protections, etc.).
- Focus is on Continuous Risk Treatments (CRT)



Stages of Security Automation and Orchestration



WHAT IS DEVSECOPS?

- Union of **software development, security, compliance** and **operations**
- Migration of Agile continuous development into **continuous integration, continuous delivery, and continuous compliance.**
- DevSecOps Model

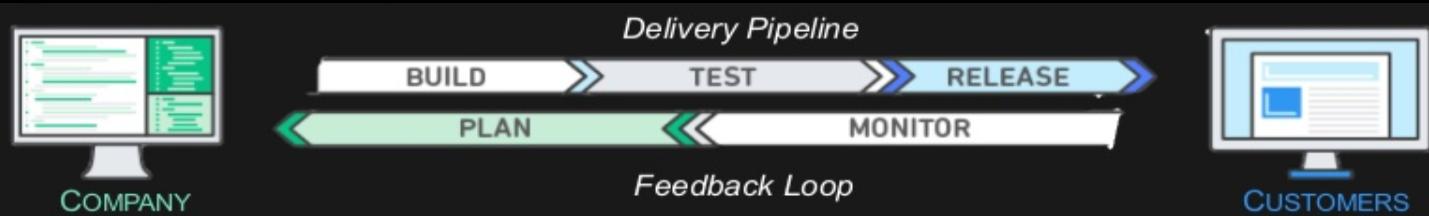
No Silos – Puts emphasis on communication, collaboration and cohesion between disciplines

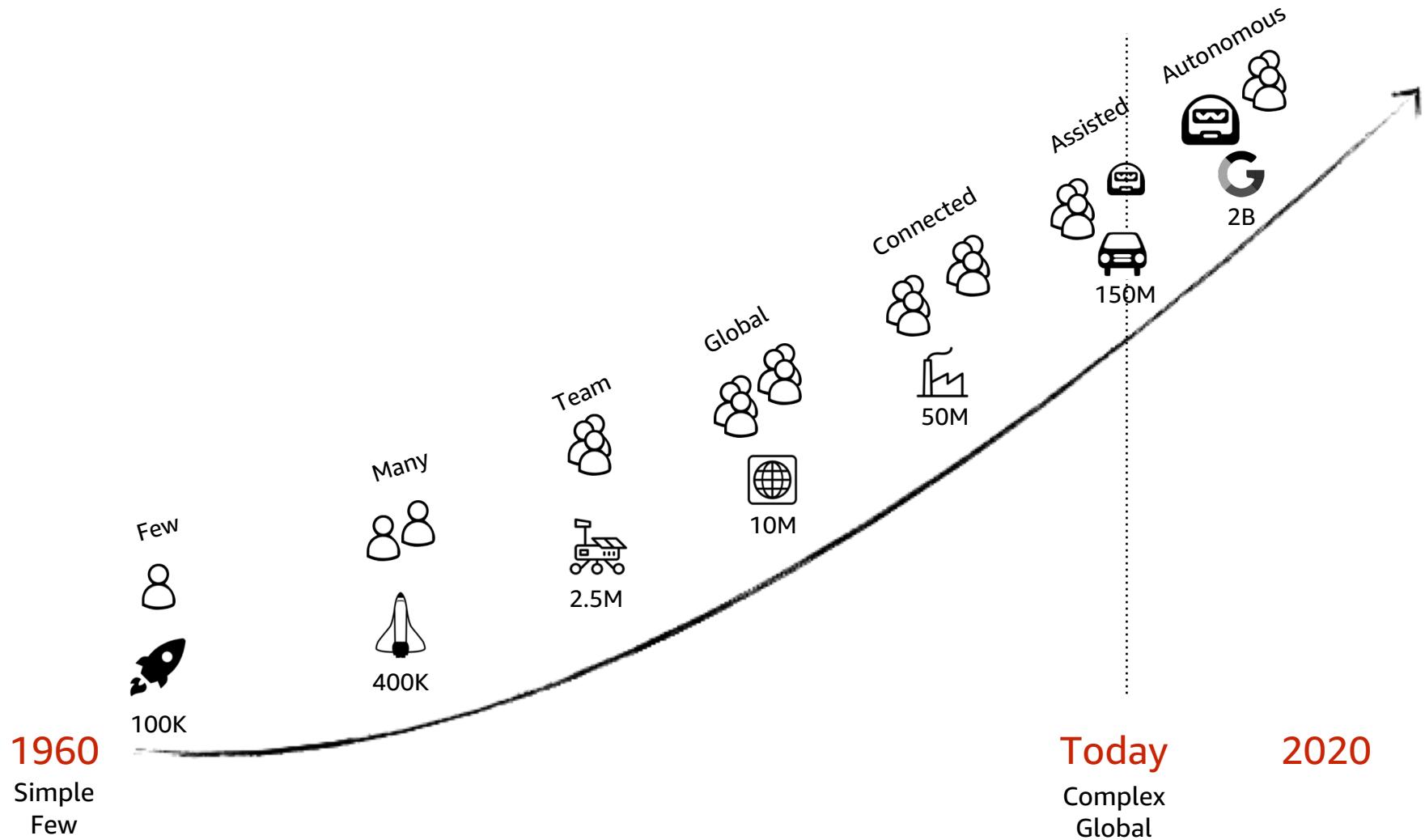
Best practices for change, configuration, and deployment automation

Deliver apps/services at a faster pace

High speed product updates

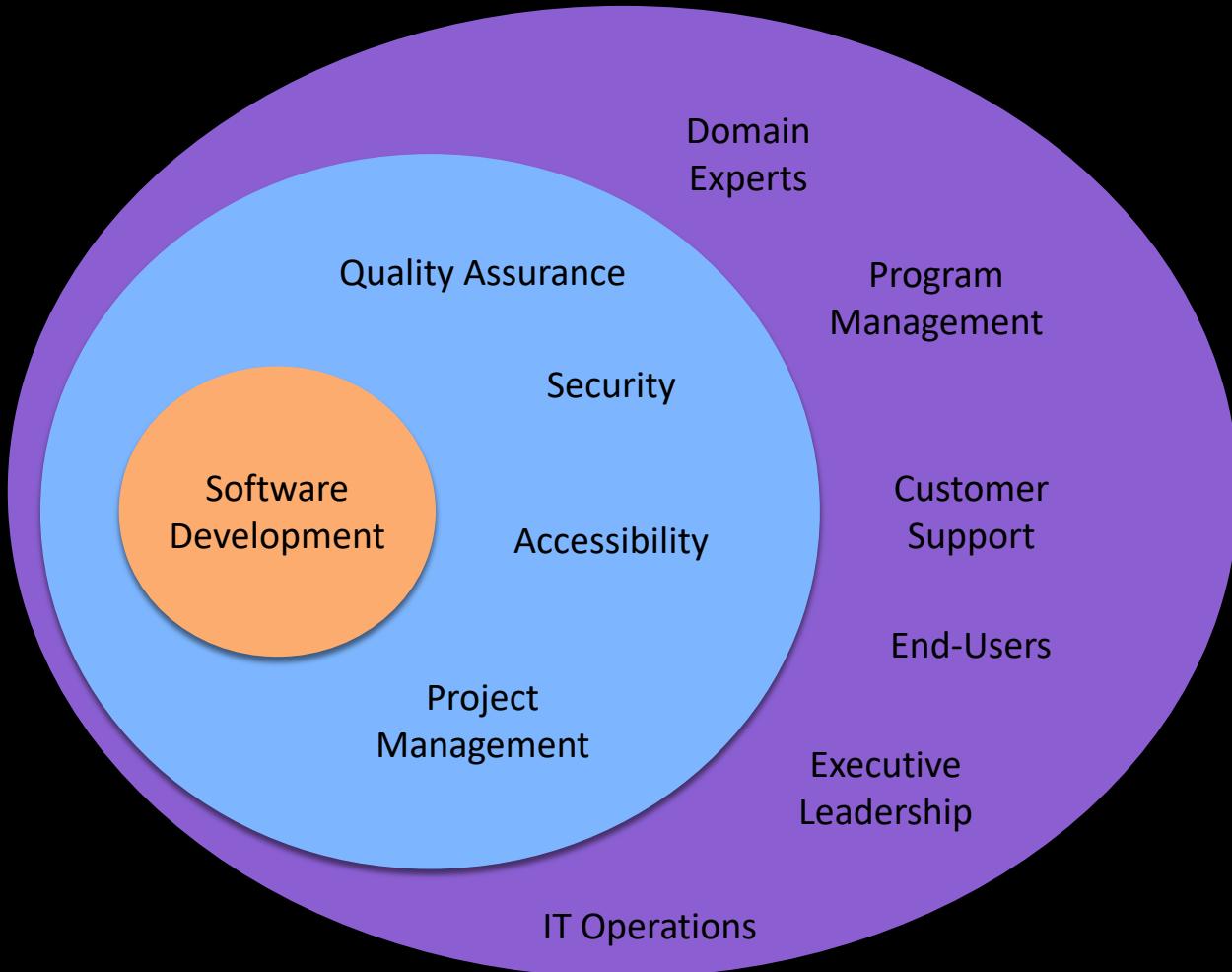
Everything is code

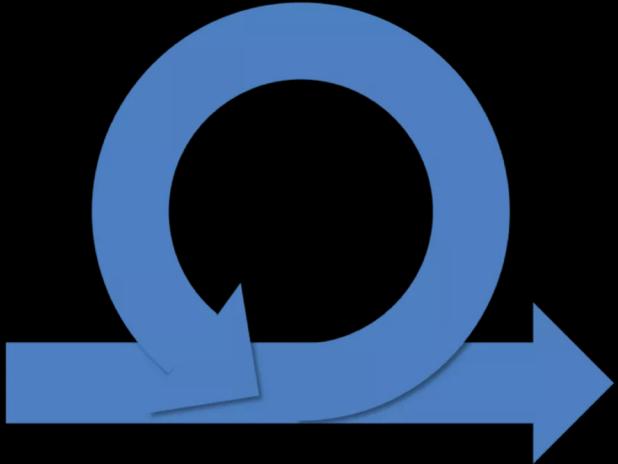
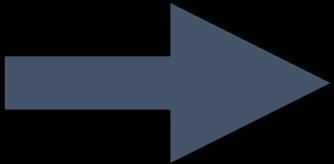




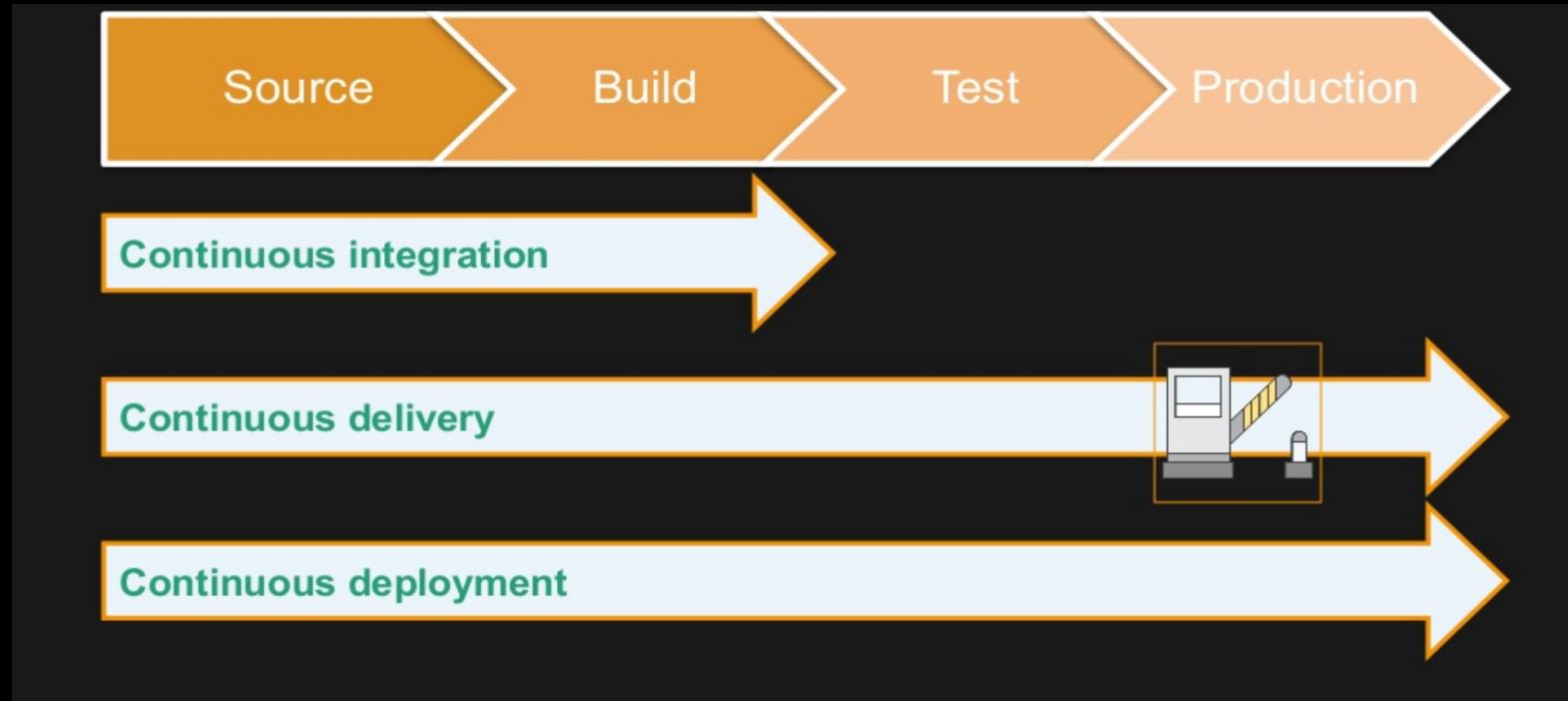
XebiaLabs
Deliver Faster

 Follow @xebialabs

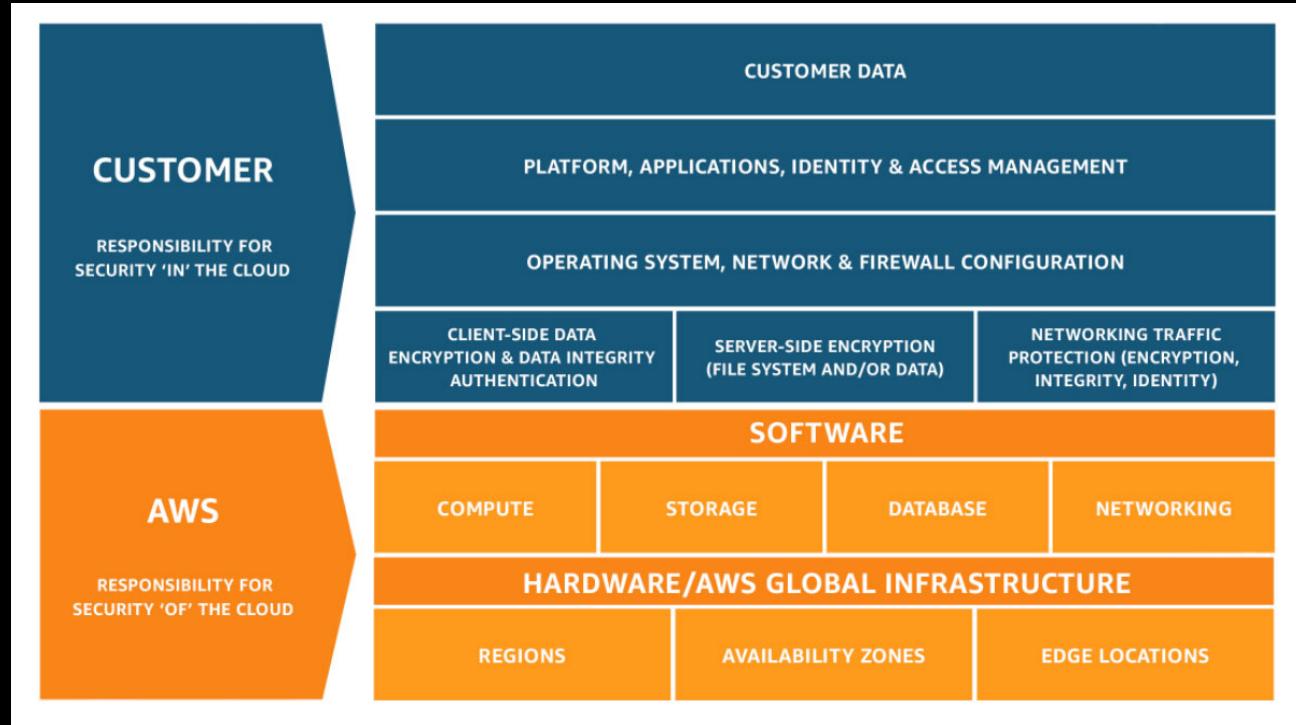




DEVSECOPS RELEASE PROCESSES: LEVELS



AWS Shared Responsibility Model



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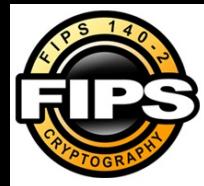
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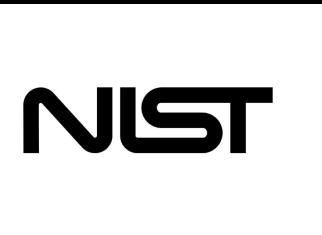
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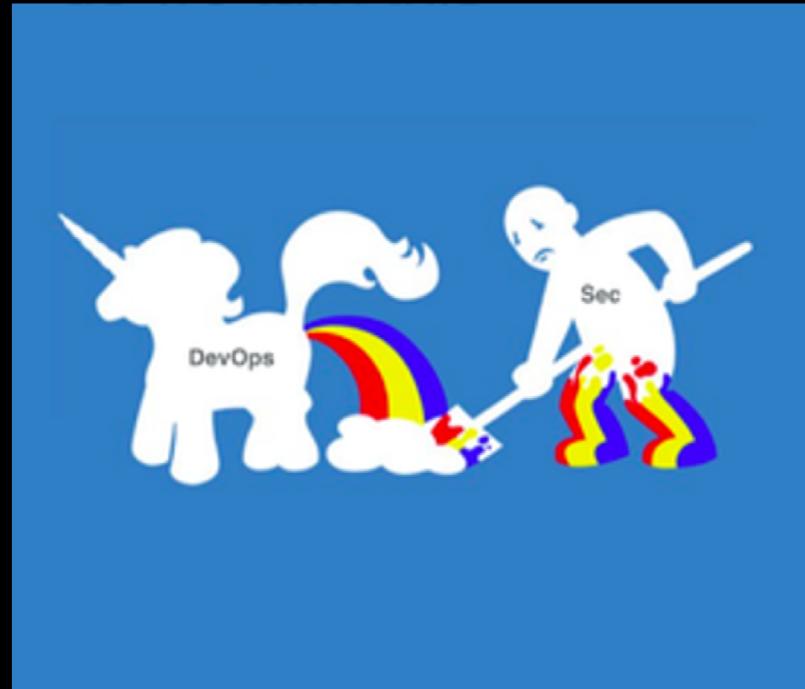
Developer Self-Service – In a Compliance Oriented World

DevOps enables the CI/CD pipeline which is the basis of automation within AWS.

The biggest challenge is breaking out of the traditional security structures and eliminating the divide between developers, operations, and security.

The CI/CD pipeline is the foundation for creating a repeatable, reliable and constantly improving process for taking software from concept to a secure, compliant production solution.

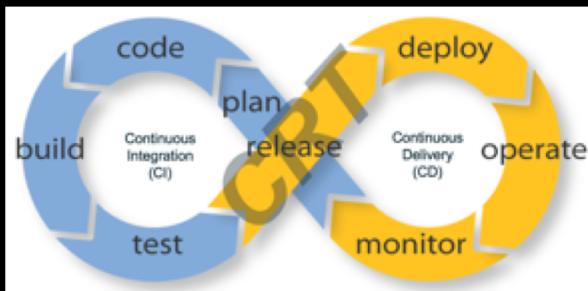
AWSome! But what actually happens in Regulated environments today?



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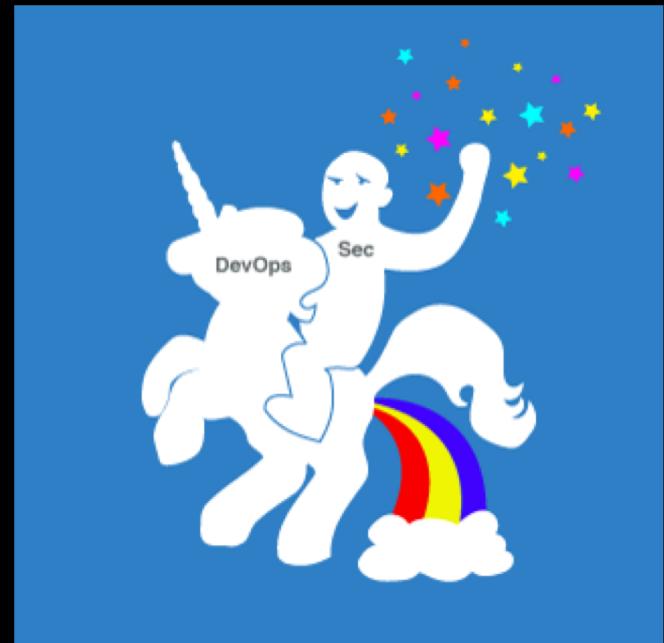
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The Result: “AWS Trust Boundary In a Box”

1. Templates, Scripts, Functions and Recipes for securely deploying regulated workloads
“Type Accreditation” (Pre-Audited), for all stages of Cloud Service adoption, (Migrator, Forward, Native)
2. Defined operational security and compliance tolerances scripts, functions and treatments (e.g. Guard Rails) for constrained secure operations across the DevOPS CI/CD and CRT through the use of **Governance as Code** (GoC) practices
3. Deployable Continuous Risk Treatments (CRT) resources (e.g. AWS & Partners solutions)



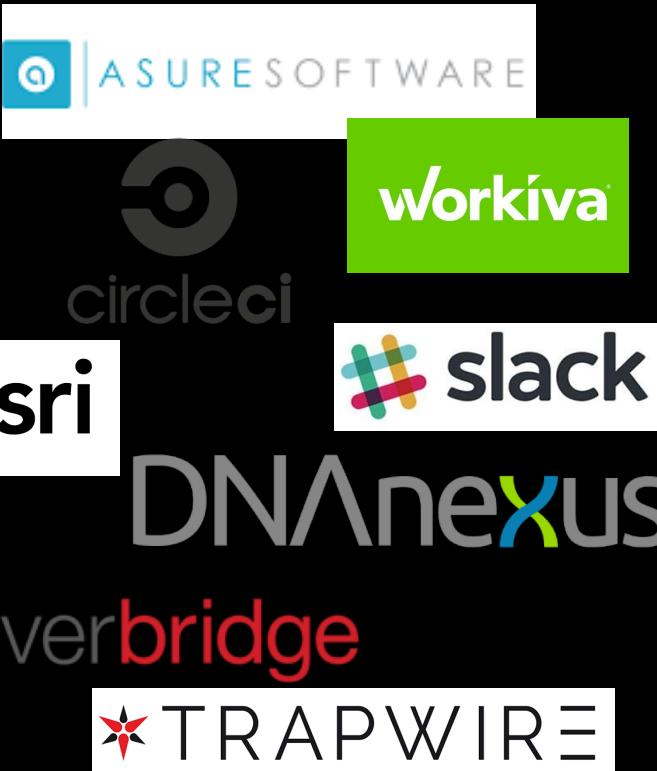
Customer Case Study - SmartSheet

- Targeted FedRAMP Moderate
- No presence in AWS GovCloud
- Embraced the frame-work, principles, and methodology to accelerate the ATO process.
- 60 Days to their full SaaS in a FedRAMP “Ready” state.
- 30 Days for documentation.
- 90 Days to go up for review.



AWS FedRAMP ATO's issued in 2018

AWS East/West ATO's



US GovCloud ATO's

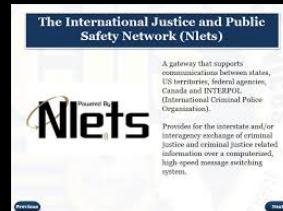


SAO – Pilot Deployment's in 2018

ATO's & Certifications



ATO's and Certifications in Process



Why do we pitch ATO on AWS this way?

- IT Stakeholders still view cloud as a threat to their current position.
- CISO offices, will tell you “We can do this On-Premise”. Embrace the Challenger Model.
- A standard ISV FedRAMP Moderate authorization averages:
 - 18-24 Months
 - \$1,000,000
- “Everything as Code”, keeps the need for critical skill-sets around operations, security, and compliance, while offering an avenue for career re-invention.
- With Cloud becoming the “New-Normal”, not learning these paradigms, is what could lead to role reduction.
- Customers need to understand that it isn’t that hard to learn this.
- The Business Owner needs to be our top priority.



Selling ATO on AWS – Why should we get involved?

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The Anatomy of the AWS Account Executive

Great – Everything is code...

So what? Why does this matter to me?

AWS is Peculiar – Let's explain...

- We are growing. Fast.
- Sales Representatives are coming from all different backgrounds and experience levels.
- Many from large SI's, or ISV's.
- Many understand how to sell to the Data-Center.
- Leadership Principles are real – most important of which is customer obsession.
- Reps are paid on customer success, which for an AWS seller, that means consumption.

Why do our reps care about ATO on AWS?

- AWS Sales Reps are getting asked about Security and Compliance, around the published regimes, in 99% of their customer interactions.
- Automation is key to accelerating consumption, (which is why DevSecOps is so important).
- Building in a framework for Security and Compliance automation, allows teams to realize the benefits of innovation.

30 Users. 5 Apps. - \$500,000 in Dev/Test Alone.

DEV	
Cost of M4 Large	\$417
Avg. # of Devs	30
Total for DEV in Cloud	\$12,500
TEST	
Avg. # Servers/App	5 (2 web/2 app/1 db)
Avg. # Apps in Test	5
Total for TEST in Cloud	\$5,200 (1/2 compute)
\$17,700 for Basic Dev/Test in Cloud	
Dev/Ops SERVICES	
30 Users	\$2700
10 Agents (build/test/deploy)	\$4,300
Cloud-Based Test	\$1,400
\$6,000 for Dev/Ops Services	

ATO on AWS, a “Product” or a “Program”?

- It's both.
- Anitian launched the first “Productized” version of the package.
- Ultimate vision is to provide our customers the choice and freedom to utilize any tool, or process, to automate Security and Compliance as part of their modernization strategy.
- We are ready to work with you, to help build that choice for our customers.

Why should you be part of ATO on AWS?

- Since the RE:Invent announcement/launch of the program, we have uncovered:
 - 56 Net-New Opportunities with 5-10 coming in every week.
 - Crosses ISV, Public Sector, SI, and Regulated Verticals
- You are now part of a “Solution”, solving a critical problem for the AWS Account Teams.
 - Translation = "They will care about your solution set."
- Monetize your open source install base.
 - We only package and deploy the paid/enterprise listings of our partners solutions.
- The ATO on AWS Framework can be utilized directly, to advance your own Accreditation charters.

What does our team look like for 2019?

- ATO on AWS, is a program within a new SaaS enablement/acceleration team.
 - DevOps
 - Intelligence Community
 - Big Data/Analytics
 - Security and Compliance
- Laser focus on ISV Success with AWS, and your solutions.
- Transform organizations into an “Everything as Code” model, to iterate, and innovate on top of the AWS back-bone.



Any Questions?

