



DevSecOps *Is It Really Possible to “DevSecOps”?*

Presented by ASMGi

December 15, 2020



Today's Presenters – *How Do I “DevSecOps”?*

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Agenda and Objectives



Provide an Overview and Introduction to DevSecOps Concepts



Discuss the Business Case and Correlation of DevSecOps to a Digital-First Strategy



Demonstrate How to Assess DevSecOps Maturity in an Organization



How to Align DevSecOps with Compliance and a Digital-First Strategy



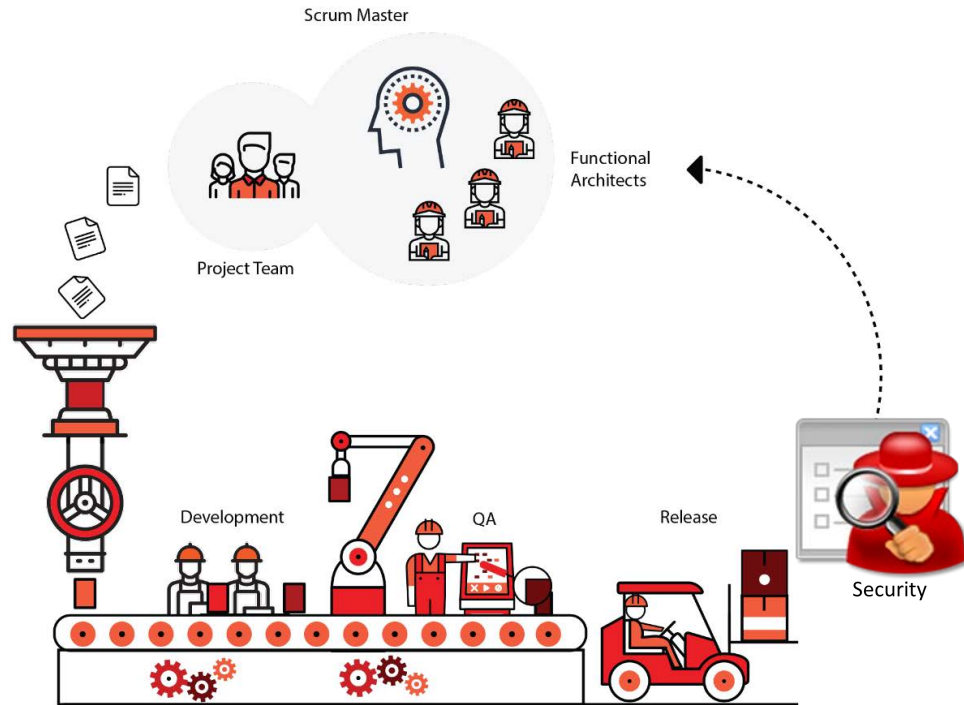
Questions and Closing Comments

What is the Meaning of DevSecOps?

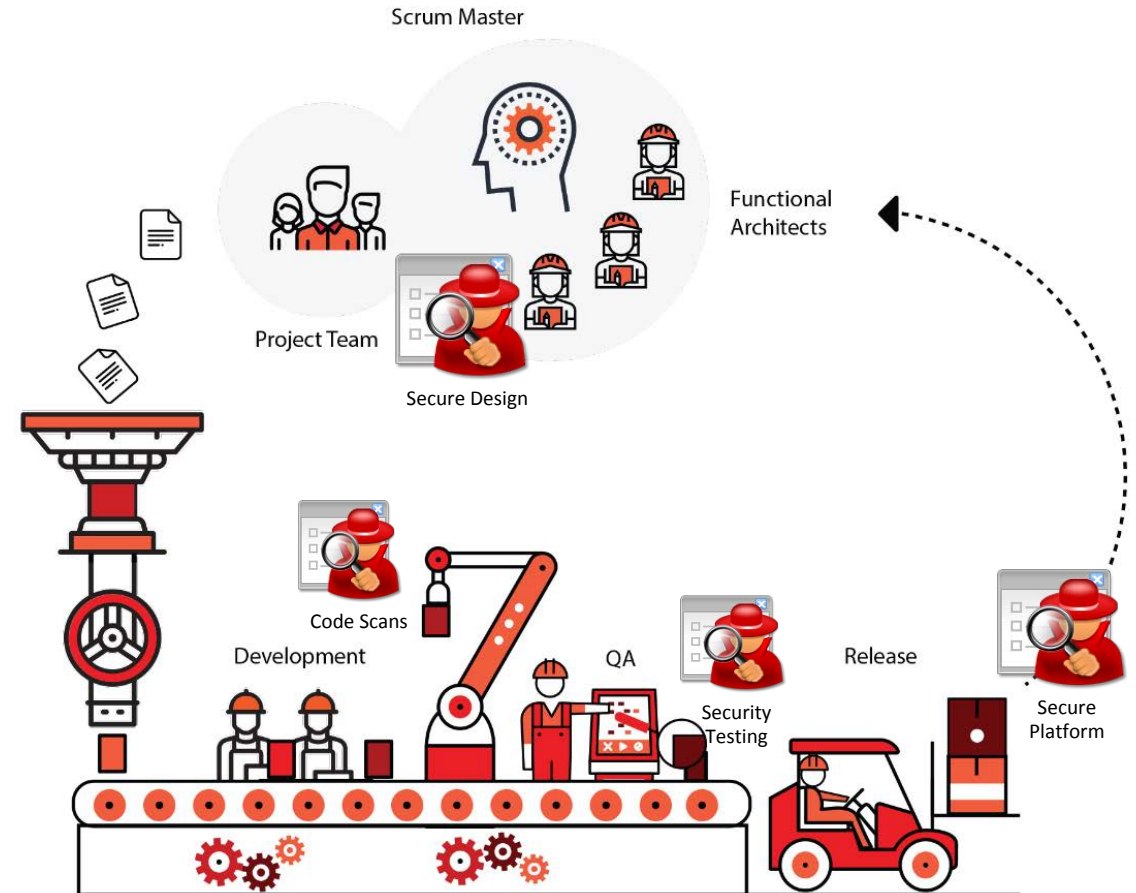
DevSecOps, is short for development, security and operations. Its mantra is to make everyone accountable for security with the objective of implementing security decisions and actions at the same scale and speed as development and operations decisions and actions.

DevSecOps Defined

Security – Episodic vs Continuous



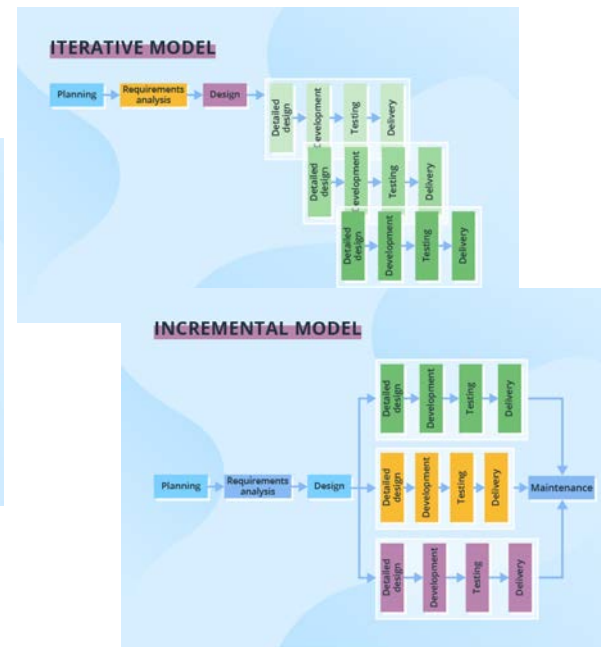
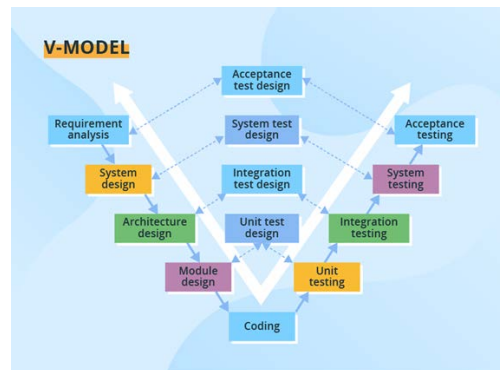
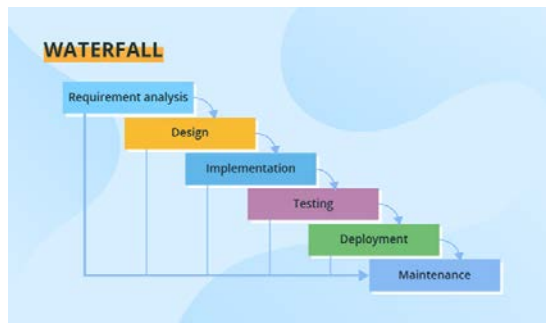
Back to the Drawing Board 😞



Keep it Moving!

DevSecOps is a Better Fit

- ◆ DevOps tends to have a narrow focus
 - Paired with Agile/Scrum
- ◆ DevSecOps can be more open
 - Can integrate into multiple SDLC models (SDLC agnostic)



What Does It Mean to Be Digital First

- ◆ Maximize Digital Interactions
- ◆ Access to Applications
- ◆ Cloud Accessible Data
- ◆ Automate Processes

A modern, digital-first organization has fully optimized their customer experience, operating model and employee experience for digital execution.

*Employees have the **tools, training, supporting leadership, culture and teamwork** to work from anywhere, anytime.*

- *Larry English*

((CENTRIC))

DevSecOps & Digital-First Better Together



Enabling better
collaboration



Cloud focused



Bringing applications
closer to users



Making security
every user's
responsibility



Making remote
work easier

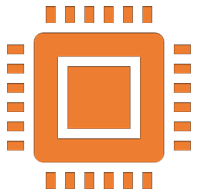


Accelerating
delivery of digital
services



Cultural shift

Deploying Continuous Security: Building the Business Case for DevSecOps



Save time in a competitive market

When security is only done prior to deployment Engineers must debug and rework parts of a project from scratch all over again.



Consider security early and often in every phase of the SDLC

Security should be part of the design and planning discussions.



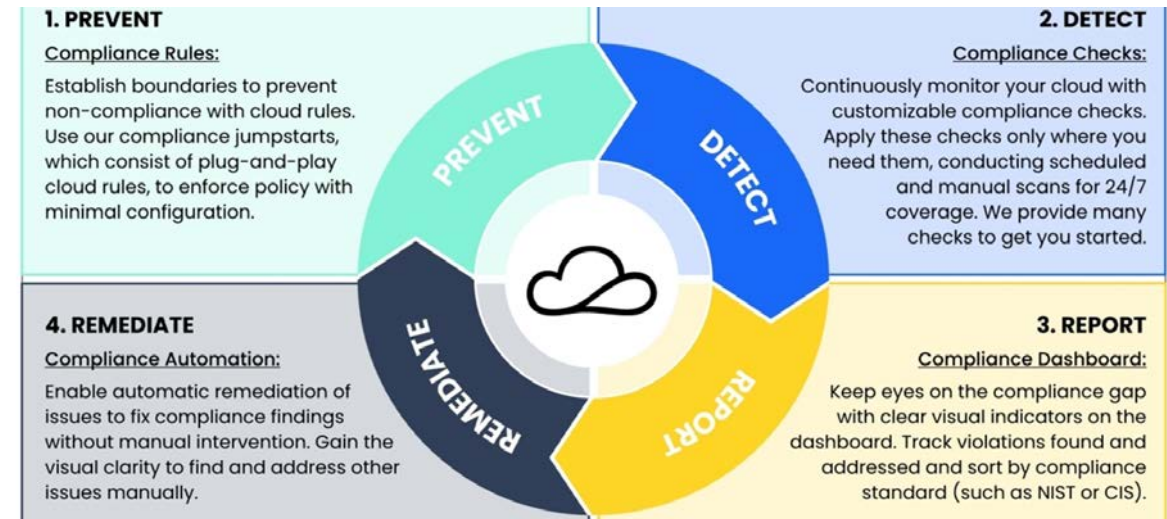
Distribute security throughout the SDLC

This is done through manual human intervention and automated processes through scripting and tooling.

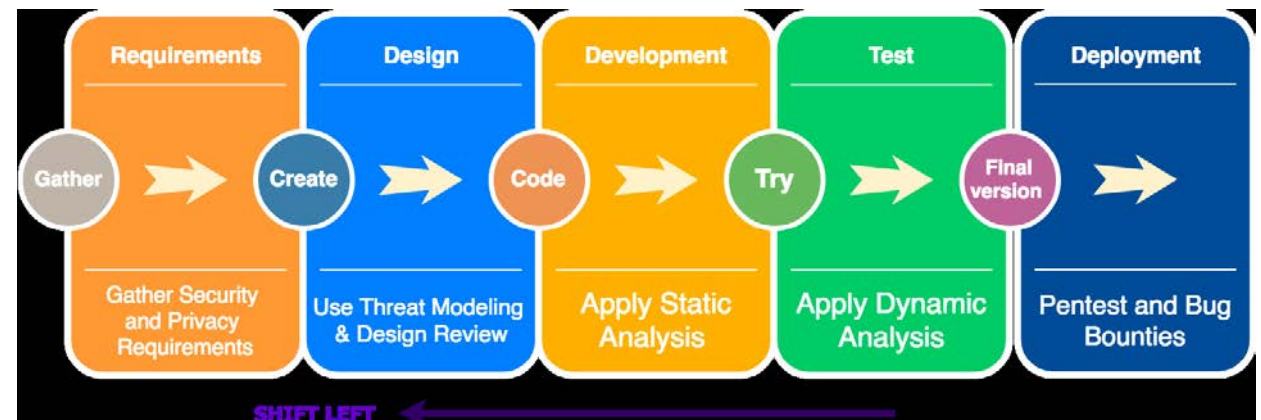
Continuous Security Visualized



➤ Effective Monitoring

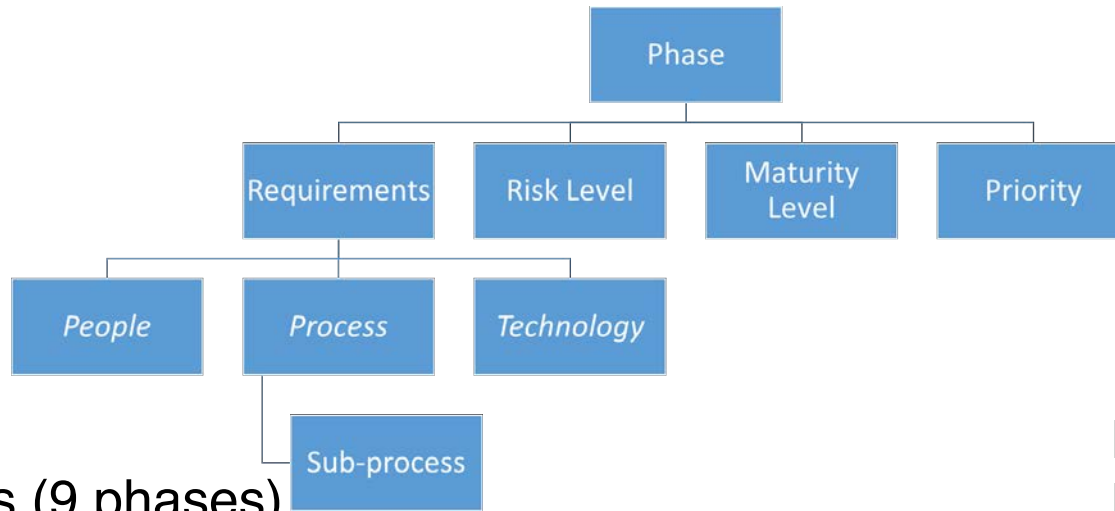


➤ Compliance & Reporting

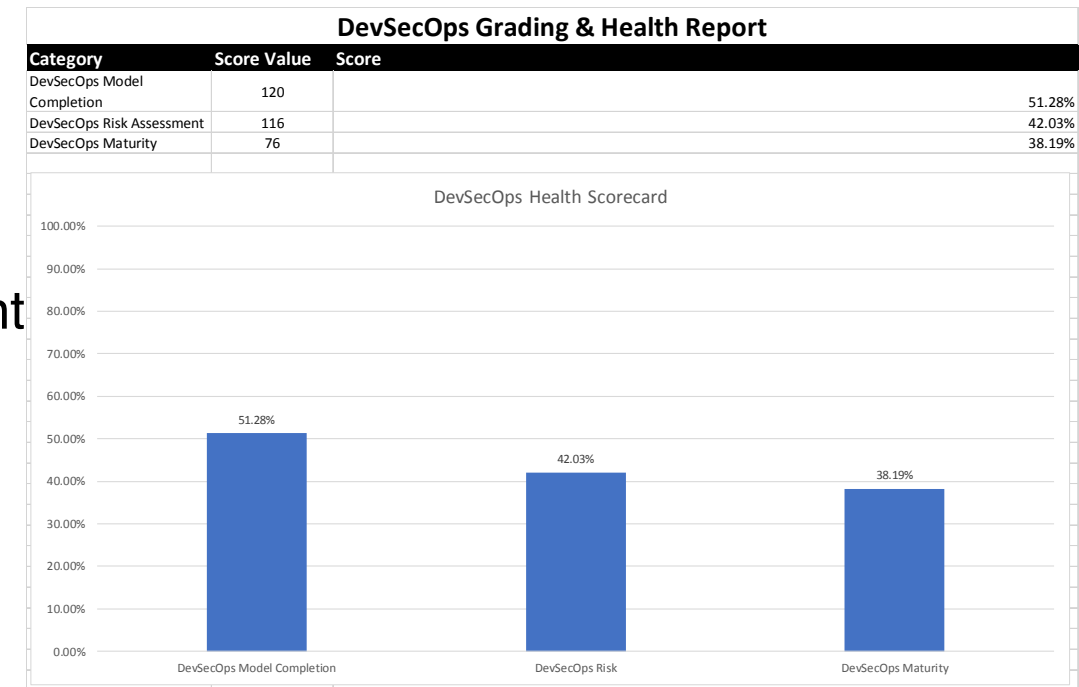


➤ Code Security

Assessing Your Organization



- ◆ List phases (9 phases)
- ◆ List requirements for each phase
- ◆ List processes & sub-processes to satisfy the requirement
- ◆ List organization roles needed to satisfy the requirement
- ◆ List the technology needs to carry out the processes
- ◆ Assess strengths, weaknesses, and risks, then prioritize!



DevSecOps Maturity Assessment Tool - Sample

Process Yes(1)/No(0)	Type of Requirement (or Dependencies)			Tech Yes(1)/No(0)
	People	People Yes(1)/No(0)	Technology	
1	Security and Compliance Engineer	1	Team collaboration tools	1
1	Project Manager	1	Team collaboration tools	1
0	Change Control Manager	0	Team collaboration tools; Issue tracking system	0

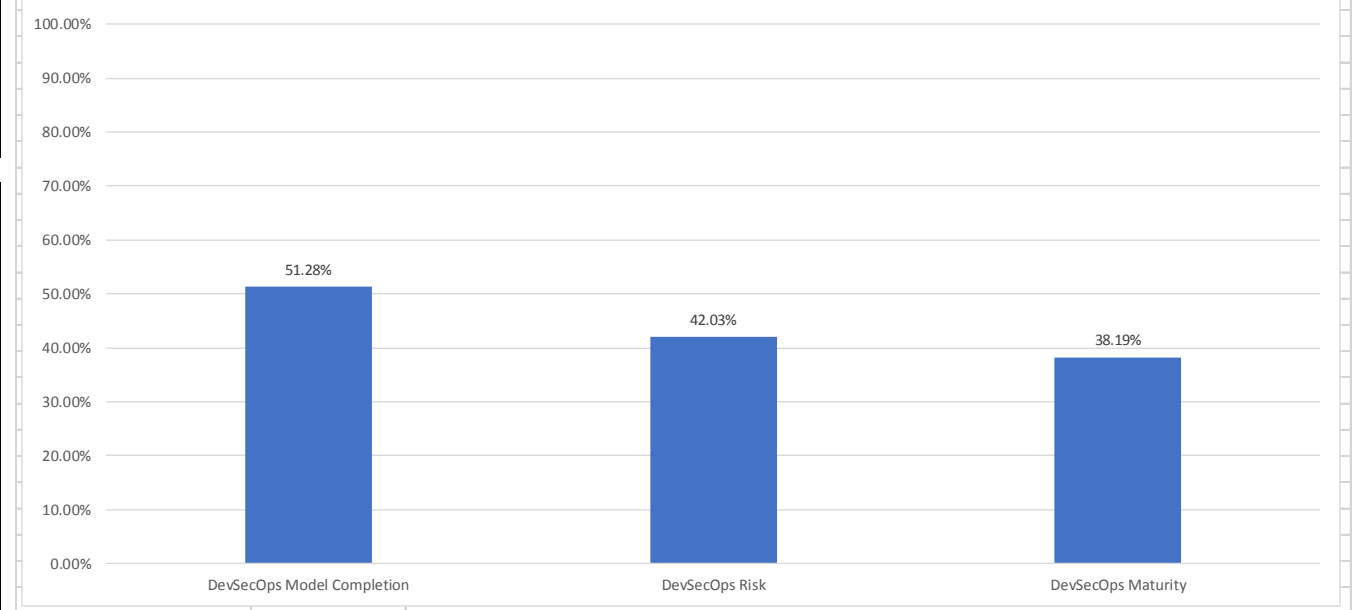
Risk	Current Risk Factor	Maturity Level	Current Maturity	Priority
5	5	1	0	High
1	1	1	0	Low

Phase	Security Phase Requirements		Process	Sub Process
Security	Perform constant secure code scans against code repositories		Secure code scan	Continuous code scanning on repositories
Plan	Data modeling; database selection; database deployment topology		Development	Database design document

DevSecOps Grading & Health Report

Category	Score Value	Score
DevSecOps Model Completion	120	51.28%
DevSecOps Risk Assessment	116	42.03%
DevSecOps Maturity	76	38.19%

DevSecOps Health Scorecard



Defining a Path Forward to Achieve DevSecOps Success



Understand “Why”. Make the Business justification!



Assessment = Current State vs. Desired Future State



Identify Gaps and Propose Solutions



Build a Roadmap = Can’t Do “IT” all at Once!



Incremental Change over Time



Start Now

It will take 2 years whether you “Start Now” or start 2 years from now, so Start Now!

Goals and Alignment of DevSecOps & Digital-First Strategy

- Boost Productivity
- Improve efficiency
- **Reduce cost**
- Solve complex business challenges
- Encourage innovation

Digital transformation requires fundamental changes to how an organization approaches the use of technology. Establishing an integrated DevSecOps program becomes essential in protecting company IP and data while strengthening the existing cybersecurity strategy.

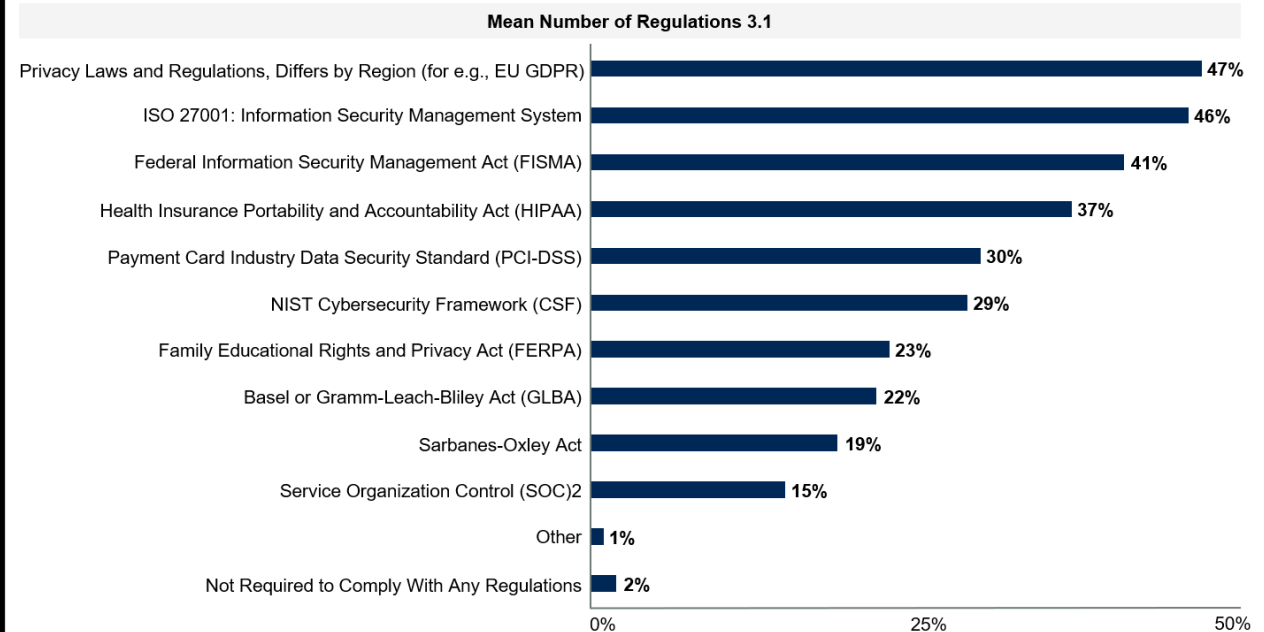
Incorporating the Requirements of Risk & Compliance

How does technology impact organizations and what is its role in a Digital-First strategy.

- Automate
- Collaborate
- Streamline workflows
- = Cost savings and reduced risk

Regulations and Contractual Obligations Under Which DevOps Practitioners Are Working

Percentage of Respondents



n = 268 All Respondents, Excluding Unsure

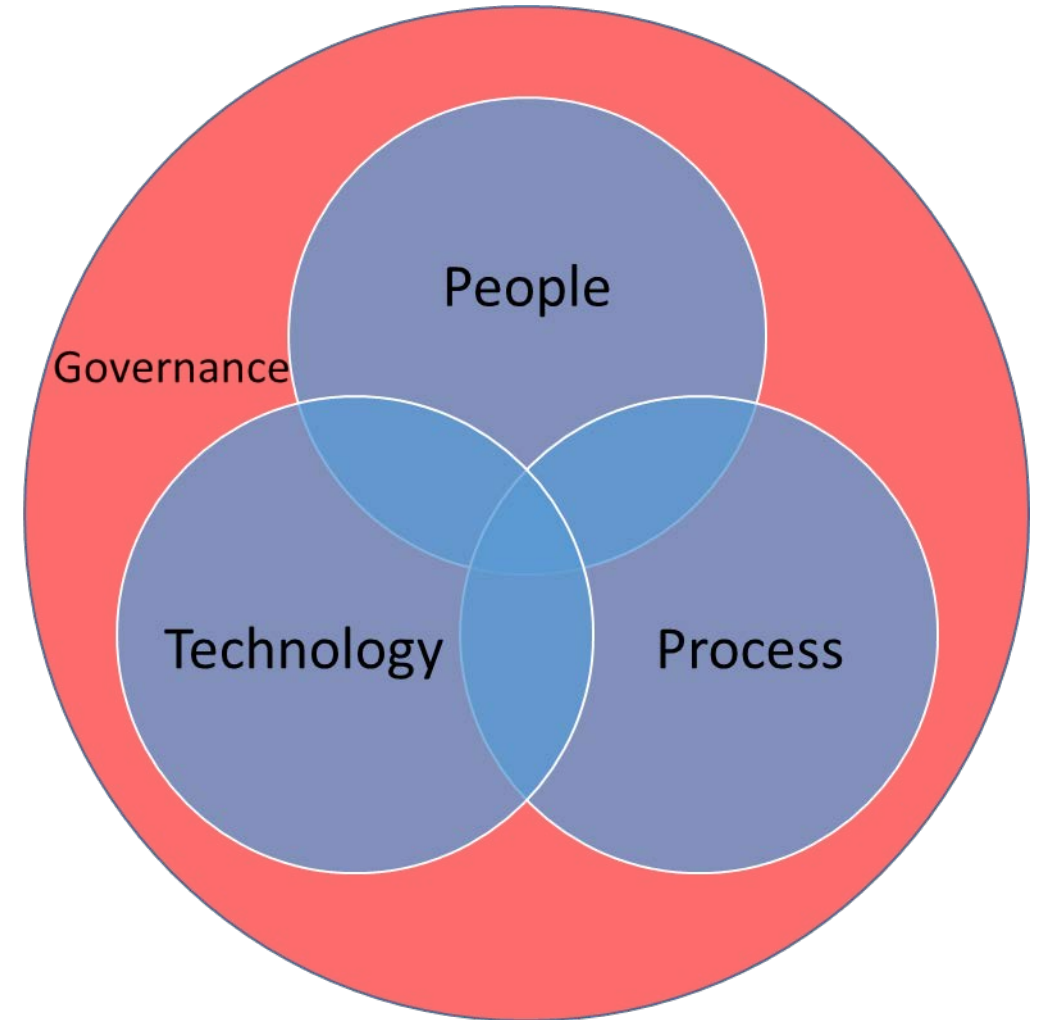
Source: Gartner

Note: Multiple responses allowed/Mean number calculates excluding "We are not required to comply with any regulations."

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Aligning Around a Successful DevSecOps Practice

- ◆ Find the right balance and distribution of roles
- ◆ Successful integration of security controls and tools throughout the SDLC
- ◆ Use DevSecOps practices and automation to substitute traditional controls
- ◆ Validate and measure success of DevSecOps compliance efforts by continually monitoring status of compliance
- ◆ Scale compliance practices across the organization by leveraging compliance-specific software



QUESTIONS

Call to Action!

- ❑ DevSecOps Primer Session
 - As a standalone activity ASMgi is offering a 2-hour DevSecOps Primer Session to begin the process of educating an Organization about DevSecOps including qualifying the organization for a DevSecOps Maturity Assessment.

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Thank You!

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