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DevSecOps
Is your Organization Making the Move to the Left?

Presented by ASMGi

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Today's Presenters – *DevSecOps – Is your Organization Making the Move to the Left?*

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Agenda

◆ What does it mean to "Move to the Left"?

◆ Introduction and Objectives

◆ Why DevOps was Adopted?

◆ DevOps vs. DevSecOps

◆ How do Organizations Prepare for this Change?

◆ Questions and Closing Comments

A Word about COVID-19

Thank you all for attending today! We know this is an unprecedented time and there are many distractions. Hopefully we can provide some "normalcy" in a very abnormal time.

As is relates to DevSecOps, there are lots of reasons to ensure your applications are secure, and COVID-19 creates an opportunity for attackers.

- *Applications are a target!*
- *Haste makes vulnerabilities!*
- *Tools and Platforms are evolving quickly = Known Vulnerabilities left Un-Remediated*

What does it mean to "Move to the Left"?

Security moves from an afterthought to the forefront (e.g. "To the Left") thus

DevSecOps

Introduction and Objectives

◆ Provide an Overview and Introduction to DevOps and DevSecOps

◆ Discuss the Reasons why an Organization would Consider adopting DevSecOps

◆ Compare the Differences between DevOps and DevSecOps

◆ Explore How to begin the "Move to the Left"

Developers and Operations were first to the Scene…

DevOps

Developer

Operations

Audience Poll

Has your Organization adopted DevOps or DevSecOps?

A. Neither   26.67%

B. Yes, DevOps but not DevSecOps   60%

C. Yes, DevSecOps   13.33%

Why was DevOps adopted?

Top Objectives for Organization's DevOps Efforts at the Beginning

Percentage of Respondents

	1st Choice	2nd	3rd	4th	5th	Sum	Customer Very Satisfied (6,7) n = 139	Customer Less Satisfied (1-5) n = 105	Very Successful at Scaling DevOps (6,7) n = 136	Less Successful at Scaling DevOps (1-5) n = 107
Improving Agility	15%	12%	14%	10%	8%	59%	63%	54%	62%	55%
Improving Release/ Fewer Defects	10%	10%	12%	11%	9%	53%	49%	60%	51%	57%
Improving System Reliability	12%	11%	10%	8%	11%	52%	51%	56%	50%	56%
Reduction in Overall Waste	11%	9%	10%	10%	10%	51%	54%	46%	**58%**	40%
Cost Reduction	10%	12%	12%	9%	7%	49%	42%	**56%**	40%	**57%**
Fast Delivery of Customer Value	9%	14%	11%	7%	7%	48%	47%	47%	43%	45%
Improving User Experience	8%	7%	10%	11%	12%	47%	50%	46%	51%	47%
Maintaining Market Competitiveness	5%	10%	7%	8%	10%	41%	45%	37%	42%	42%
More Predicable Delivery of Customer Value	9%	8%	7%	7%	7%	38%	40%	37%	38%	40%
Improving IT Employee Job Satisfaction	10%	6%	4%	7%	6%	33%	**40%**	27%	39%	32%
No Definitive Goals Were Set	0.37%						1%	-	1%	1%

■ Statistical significant difference: 95%

n = 273
Q: What were the top objectives for your organization's DevOps efforts at the beginning? Summary of Top 5 Ranks (1-5)
Source: Gartner 2019 DevOps Survey
ID: 377293

Audience Poll

What Was Your Primary Driver For Adopting DevOps?

A. Improving Agility   33.37%

B. Improving Release / Fewer Defects   8.33%

C. Improving System Reliability   8.33%

D. Reduction in Overall Waste   0%

E. All of the Above   50%

…with all of the Benefits of DevOps, something was missing

DevOps

Developer

Operations

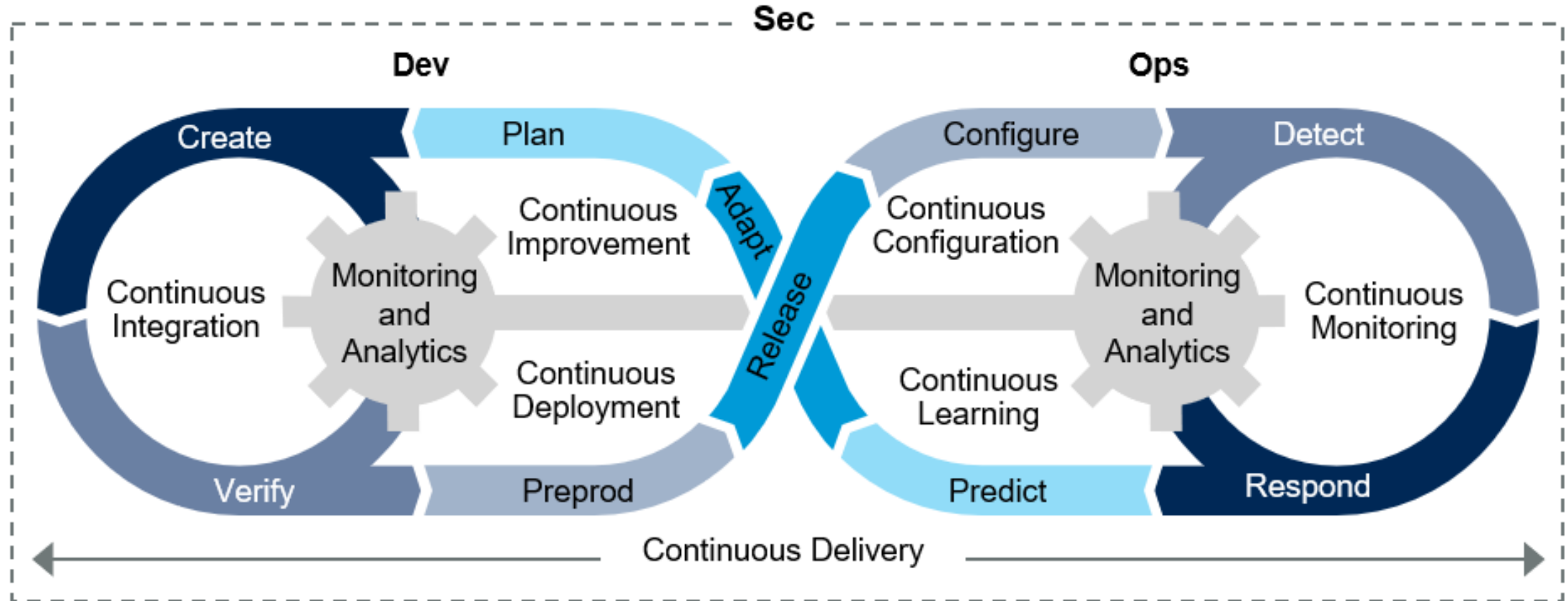# ...and then Security appeared on the Scene

DevSecOps
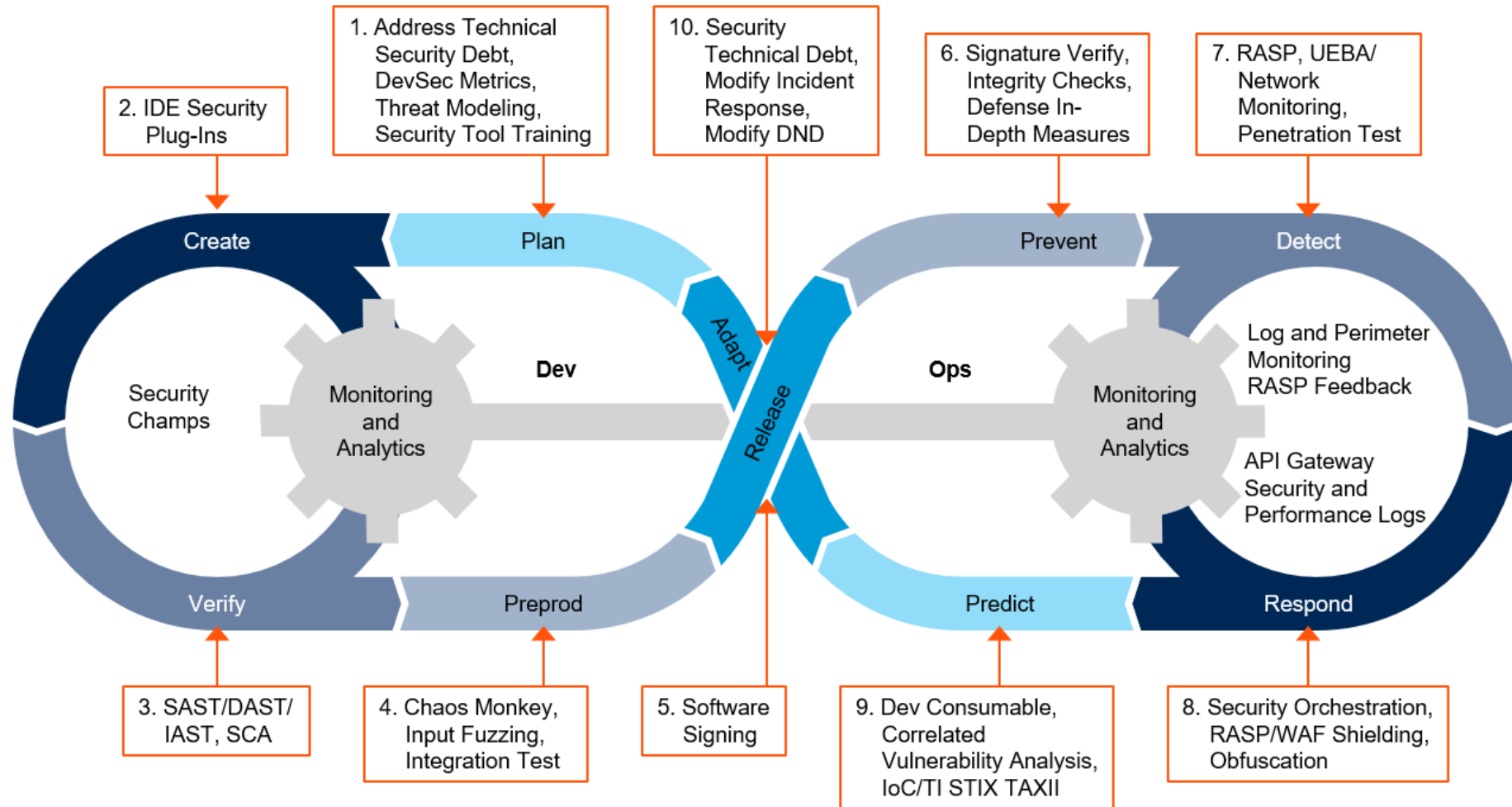

Developer

Security

Operations

DevSecOps Cycle

DevOps Is a Continuous Cycle

Source: Gartner
ID: 377293

DevSecOps Cycle with Tools

The DevSecOps Toolchain

2. IDE Security Plug-Ins

1. Address Technical Security Debt, DevSec Metrics, Threat Modeling, Security Tool Training

10. Security Technical Debt, Modify Incident Response, Modify DND

6. Signature Verify, Integrity Checks, Defense In-Depth Measures

7. RASP, UEBA/ Network Monitoring, Penetration Test

Create | Plan | Prevent | Detect

Adapt

Dev

Ops

Release

Security Champs

Monitoring and Analytics

Monitoring and Analytics

Log and Perimeter Monitoring RASP Feedback

API Gateway Security and Performance Logs

Verify | Preprod | Predict | Respond

3. SAST/DAST/ IAST, SCA

4. Chaos Monkey, Input Fuzzing, Integration Test

5. Software Signing

9. Dev Consumable, Correlated Vulnerability Analysis, IoC/TI STIX TAXII

8. Security Orchestration, RASP/WAF Shielding, Obfuscation

Source: Gartner
ID: 377293

How Do Organizations Prepare for this Change?

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3 Pillars of a Total Solution

Program

Technology

Operating Model

How to Begin the Journey

◆ Understand "Why"

◆ 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 2 Years

◆ Start Now

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

Challenges to Avoid and to Plan

◆ Don't skip the "Why"

◆ Don't start with the Answer!

◆ People don't like Change!

Use Case – DevSecOps Success Stories

◆ One Size does NOT fit All

◆ Let your "Why" drive your Program

Special Offer for Attendees

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◆ One Hour DevSecOps Consultative Session for each Attendee to discuss your readiness to adopt DevSecOps + Choice of Books shipped directly to you!

◆ If interested contact Steve Roesing (sroesing@asmgi.com) or Frank Yako (fyako@asmgi.com) to schedule your session

DevOps and DevSecOps Resources

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◆ IT Revolution

- Home of "all things" Gene Kim including his books, blog, and forum papers
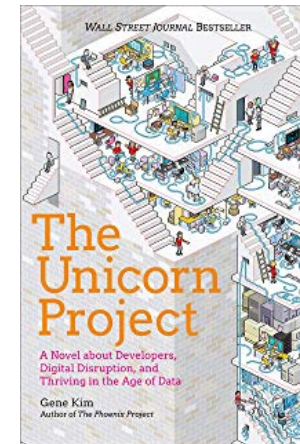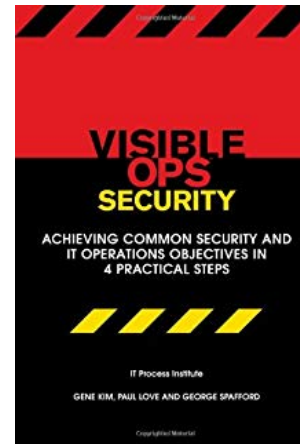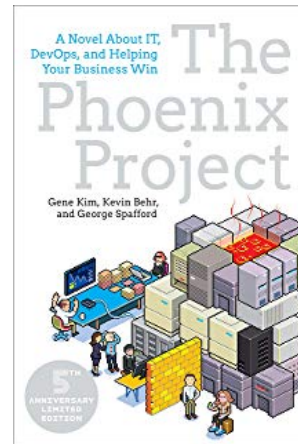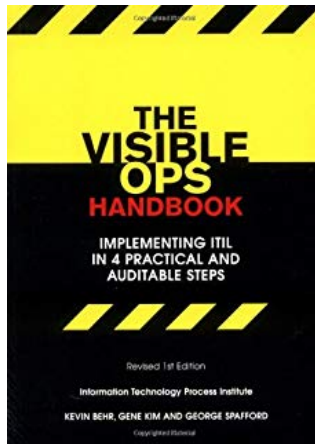
QUESTIONS

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Thank You!

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