Panel of Experts

Moderator

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Agenda

- Introduction
- Discussion Topic #1 - Digital Transformation / Digital Enterprise
- Discussion Topic #2 – Challenges for Digital Transformation
- Discussion Topic #3 – Technology Landscape
- Discussion Topic #4 – DevSecOps
- Discussion Topic #5 – Achieving Digital Transformation
- Audience Q & A
- Closing Remarks / Key Takeaways
What is Digital Transformation & the Digital Enterprise?

- **Agile is Born**: 2001
  - 17 techies meet in Utah, develop Agile Manifesto

- **Steve Jobs Intros First iPhone @ MacWorld**: 2008
  - "Multi-touch... it works like magic... and boy have we patented it." - Steve Jobs

- **Mobile App Stores Launch**: 2008

- **Smartphone Usage Grows**: 2010
  - Majority of Americans have smartphones

- **DevOps is Born**: 2007
  - Patrick Debois and Andrew Schafer only attendees at "Birds of a Feather" session at Agile Conference in Toronto

- **"The Phoenix Project", by Kim, Behr & Spafford Published**: 2013
  - Fictional novel about IT, DevOps, and helping your business win

- **149 Billion Mobile Apps Downloaded Worldwide**: 2016
  - Mobile apps become preferred information source

- **DevOps Adopted by Majority of Enterprises**: 2021
  - Forrester refers to 2018 as "The Year of Enterprise DevOps"

- **352.9 Billion Mobile App Downloads Projected**: 2018
  - Organizations Tackle DevOps

Image Source: SecureNow
Challenges for Digital Transformation – DevOps, Security or DevSecOps?

Are you a DevOps or a Security Professional? or Both?

As widespread adoption of container technologies is becoming the norm, the goal is identifying the common ground between security professionals and DevOps – collaborating to find the best way for DevOps to maintain maximum agility and speed, without creating unnecessary security risks. Of course, each “side” comes with its own set of concerns:

**DevOps Professional**

- **Agility and Speed**
  - Security must be as agile as the dev and delivery process itself, avoiding security bottlenecks.

- **Resilience Culture**
  - Ensure sufficient access privileges to allow for flexible administration and collaboration for all users.

- **Monitor Everything**
  - Monitor and measure all aspects of dev, deployment and infrastructure performance.

- **CI/CD Automation**
  - Automate all builds and tests, avoid manual intervention, ensuring fast, repeatable processes.

- **“Shift Left” Security**
  - Catch vulnerabilities as early in the process as possible, ensuring addressing them decreases time consuming and difficult.

- **Collaboration**
  - Facilitate communication and collaboration around development, bug fixing, vulnerability remediation and application deployments.

**Security Professional**

- **Control Points**
  - Require vet code before it is shipped, ensure proper host configuration, and lock down storage management.

- **Least Privileges**
  - Enforce least privilege principles on users, containers and hosts, avoiding root access and admin privileges as much as possible.

- **Detect and Respond**
  - Have visibility into processes and runtime components to detect anomalies and prevent attacks.

- **Security Automation**
  - Aggregate all information into a single pane-of-glass view, automate policy change propagation and incident response.

- **Multi Layer Security**
  - Enhance vulnerability assessment across all stages of the application lifecycle, and promote runtime controls and monitoring.

- **Accountability**
  - Be able to trace specific end-user actions for forensic and compliance purposes.

Source: Acqua Security Solutions
Technology Landscape

Image Source: Cloud Native
Technology Landscape

CYBERscape: The Cybersecurity Landscape
The Security Sector Is Dynamic And Vast. We Are Ceaseless & Vigilant In Our Coverage.

Source: Momentum Partners.
DevSecOps

- ITSM Framework (ITIL) or DevOps?
- Does DevSecOps answer this question?
- “Fast or Secure” versus “Fast and Secure”
Overview

2020 DevSecOps Survey top findings

**CD is real**
Nearly 60% deploy multiple times a day, once a day, or once every few days. That’s up from 45% last year.

**Coming of age**
Over 25% of companies are in the DevOps “sweet spot” of three to five years of practice. And another 37% are well on their way, with between one and three years under their belts.

**Want better code quality?**
Want better code quality? It’s DevOps FTW. The majority of respondents said code quality was the biggest benefit of choosing DevOps.

**Still works in progress**
The majority of respondents aren’t using K8s and microservices yet, but they are investigating them.

**Test is still hard**
Today 47% of companies say testing is the number one reason for delays. That’s down slightly from last year’s survey but still frustrating to hear.

**Job satisfaction**
Job satisfaction: 66% or more of respondents say their organization’s processes and tools allow them to succeed and innovate.

*Source: GitLab Mapping the DevSecOps Landscape, 2020 Survey Results*
Developers

Development top findings

**DevOps = faster releases**
If you're a developer, DevSecOps just works. Nearly 83% of them report they're releasing code more quickly.

**Investing in the future**
The top three areas for investment this year: CI, SCM, and test automation.

**More testing STAT**
Devs are nearly unanimous in the need for their organizations to do more testing. Apparently, you can't have too much testing.

**A new job description**
Devs report responsibilities (creating/monitoring/maintaining infrastructures) that look a lot like what Ops used to do.

**Who owns security?**
It depends on who you ask. But, more than a quarter of devs feel *solely responsible* for security, indicating that shifting security left has begun in earnest.

Source: GitLab Mapping the DevSecOps Landscape, 2020 Survey Results
Security

Security top findings

DevSecOps = changing roles
Security can be found on cross-functional teams and working closely in collaboration with developers, both of which represent significant change from the past.

You call that a shift left?
Sec pros report their orgs are shifting security left but they really aren’t doing the scans to support that claim.

Why can’t we be friends?
Just like in last year’s survey, security pros think devs don’t find enough of the bugs at the earliest stages and are slow to prioritize fixing them.

Cutting edge is left out
Most sec teams don’t have security processes in place for microservices/containers/APIs/cloud native or serverless.

Who owns it?
Almost 33% of security respondents said they were responsible for security. But nearly as many, 29%, said everyone was responsible for security. Clarity is needed.

Source: GitLab Mapping the DevSecOps Landscape, 2020 Survey Results
Operations

Operations top findings

DevSecOps = changing roles
Over 60% report new and different responsibilities because of DevOps.

In the cloud
Over half of Ops pros say their primary focus today is managing the organization's cloud services.

Automation is on the move
Almost 40% of operations team members said their development lifecycle is "mostly" automated.

Blending in with dev
Almost 70% of ops pros report that devs can provision their own environments, a sure sign of shifting responsibilities brought on by new processes and changing technologies.

Staying secure
Over 21% of Ops pros say they feel solely responsible for security in their organizations.

Source: GitLab Mapping the DevSecOps Landscape, 2020 Survey Results
Discussion Topic # 1

What is Digital Transformation & the “Digital Enterprise”?
Discussion Topic # 2

What are the biggest challenges in achieving Digital Transformation?
Discussion Topic # 3

Does more technology speed up or slow down Digital Transformation?
Discussion Topic # 4

What is DevSecOps and how is it related to Digital Transformation?
Discussion Topic # 5

How do I Achieve Digital Transformation?
Audience Poll

Has your Organization adopted DevOps or DevSecOps?

A. Yes, DevOps but not DevSecOps
B. Yes, DevSecOps
C. No, Neither DevOps or DevSecOps
D. Considering DevOps in next 12 months
E. Considering DevSecOps in next 12 months
Audience

Q & A
Key Takeaways

- DevSecOps is Cultural – it’s a Way of Thinking and Doing
- Automation and Orchestration are Required to Make this Work!
- Tool Sprawl (and Fatigue) is Real and will get Worse before it gets Better
- Value Stream Mapping shifts thinking from “I’m done - I did my job” to “I’m done - value has been realized”
- In today’s business climate, you must have “fast AND secure … AND inexpensive”
- One Size Does Not Fit All!
ONEteam = TOTAL SOLUTION

Program + Technology + Operations
Special offer for attendees…

One-hour consultation to help with your DevSecOps journey or to determine if it’s right for you.

Contact ASMGi to setup your call!

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