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\$how me the Dev\$ecOp\$

**“You build it,  
you run it.”**

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Werner Vogels

**“You build it,  
you secure it.”**

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John Willis







# Agenda

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## What is Dev\$ecOp\$?

- Moving from the imaginary to the real
- Quantifying the value of your DevSecOps Program

## Disclaimer

This presentation is coming at you from a security vulnerability point of view but, don't worry,  
This formula can be applied to all defects! 😊

## Dev\$ecOp\$ can help you...

- Transform from cost center into a revenue center
- Determine your cost per defect (CPD)
- Build consensus across the enterprise
- Provide key decision makers options

# What is Dev\$ecOp\$ ?

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## Imagine a world where you hear:

“Hey, can anyone tell me the value of implementing a DevSecOps program?” or...

“Are we really saving any money by moving to a DevSecOps program?”

- For many of us, these questions are a reality – and you’ve probably heard them more than once!
- So...what if you were able to say:  
“Yes, I can tell you the value of implementing a DevSecOps program....let me show you how....”



# Transforming from a cost center to a revenue center

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# Cost center → revenue center

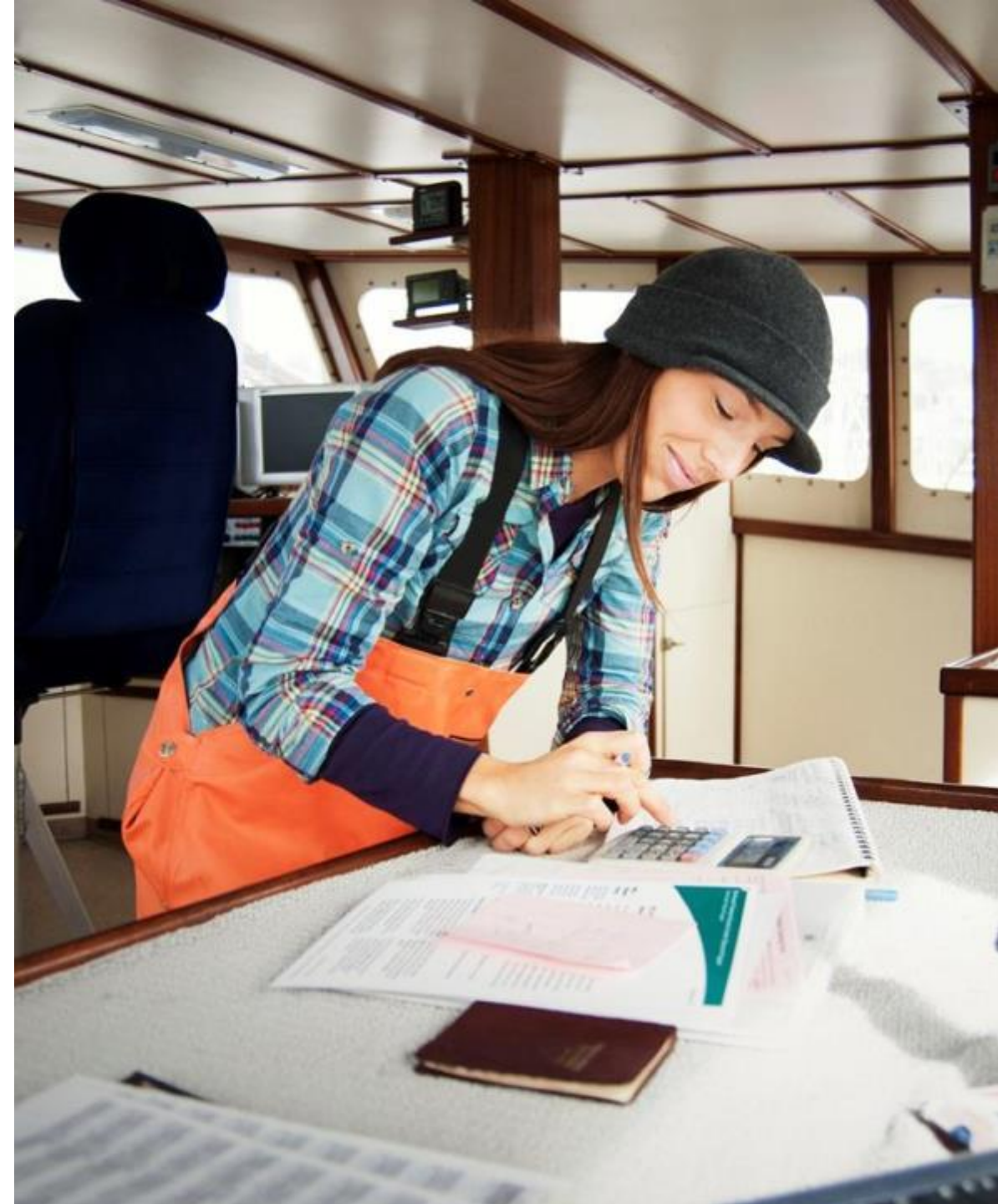
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## Measuring progress

- Cost per defect consensus
  - Vital to ensure success
  - Must occur between app dev and security
- Number of defects in scope (critical and high)
- Cost per defect
- Annual (current) cost of remediation

## Provides a range of estimated revenue savings

- Liberal
- Conservative
- Very conservative



# Benefits of adopting a DevSecOps program

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- 46x Improvement in deployment frequency
- 440x Faster lead time for changes
- 96x Faster mean time to recover (MTTR)
- 5x Lower change failure rate (1/5 as likely)



# Determining the value of Dev\$ecOp\$



# Determining the value of Dev\$ecOp\$

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Introducing: The Dev\$ecOp\$ Triad

- Application Development, Finance, & Security

Goal: Build consensus across the enterprise

## **Application Development**

- Empathy is key, for they are the ones fixing the defects
- Lock in commitment to remediate defects

## **Finance**

- They should be able to provide remediation costs from last year
- If not, find out how much it cost to fix all defects in 2017

## **Security**

- Provide the best practices and tools
- Forget about the cost of tools and software
- Don't let these costs be red herrings!

# Number of defects in scope



# Number of defects in scope

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The Dev\$ecOp\$ Triad in action:

Goal: Agreed upon number of defects in scope

## **Application Development**

- Realistic look at what lies ahead
- Past: How many defects did we fix?
- Present: How many defects *can* we fix?

## **Finance**

- What was last year's budget to fix our defects?
- What *is* the budget to fix our defects?
- Is there a budget?
- If so, can it be increased?

## **Security**

- Commitment to tools, testing, and training
- Commitment to a super low defect density
- Defect density = # of vulns x 10k / lines of code



# Annual cost of remediation

# Annual cost of remediation (ACR)

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## Working with the Finance team

- The key to understanding your annual cost of remediation (ACR) is identifying last year's budget to fix our defects

## Working with the Application and Security teams

- How many defects were fixed last year?
- \*\*Make a note of this #, you'll need it soon...

And we'll call it the Number of Defects (NOD)



# Cost per defect (CPD)



## Cost per defect (CPD)

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Now, you can calculate your cost per defect!

- ACR from last year divided by NOD from last year
- $ACR/NOV = \text{cost per defect (CPD)}$

Now that you have the CPD, you can:

- Figure out what current year budget would be with the current CPD x NOD for this year
- Figure out how much Dev\$ecOp\$ will save (discount) your organization by presenting three levels of estimates:
  - Liberal (75% CPD discount)
  - Conservative (50% CPD discount)
  - Very Conservative (25% CPD discount)



# Moving from a cost center to a revenue center

# Cost center → revenue center

*Practical application of the formula in action – hypothetical situation, mileage may vary...*

Status	# of apps	# of defects (NOD)	Annual cost of remediation (ACR)	Actual cost	Annual savings	Cost per defect (CPD)	Annual savings
Current model	10	100	\$200,000	\$200,000 (defects x current CPD)		\$2,000.00	Current CPD
DevSecOps	10	100	\$200,000 (findings x current CPD)	\$50,000 (defects x liberal CPD)	\$150,000	\$500.00	Liberal
DevSecOps	10	100	\$200,000 (findings x current CPD)	\$100,000 (defects x conservative CPD)	\$100,000	\$1,000.00	Conservative
DevSecOps	10	100	\$200,000 (findings x current CPD)	\$150,000 (defects x very conservative CPD)	\$50,000	\$1,500.00	Very conservative

**Thank you!**

**Questions?**

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