Lesson 1.2: Defining DevOps

DEVOPS CULTURE AND MINDSET

Defining DevOps

Courtney Kissler
Vice President
Digital Platform Engineering
Nike

UCDAVIS
Continuing and Professional Education

Slide 1: Let’s Define DevOps

Slide 2: Learning Objectives

Learning Objectives

Define DevOps according to software industry thought leaders

Discuss important **components** of DevOps

Define **CAMS** and **CALMS** acronyms

Relate **Lean Management** to DevOps

Slide 3: Roots in DevOps Lie in Lean Management

Roots in DevOps Lie in Lean Management

Principles and practices started here

Deliver **more value** with **less waste**

Strong focus on **respect for people**

Slide 4: Lean Values in DevOps

Lean Values in DevOps

Break down historic silos

Improve **collaboration** between **Development** and **Operations**

Streamline and **improve work** in key ways

Cultural focus: **Deliver value** to customer

Slide 5: Key DevOps Acronyms

Key DevOps Acronyms

CAMS

Culture

Automation

Measurement

Sharing

CALMS

Culture

Automation

Lean

Measurement

Sharing

Slide 6: Defining DevOps

Defining DevOps

"DevOps is about **humans**. DevOps is a set of practices and patterns that turn **human capital** into high-performance **organizational capital**."

– John Willis

Slide 7: Another DevOps Definition

Another DevOps Definition

"DevOps is the emerging professional movement that advocates a **collaborative** working **relationship** between Development and IT Operations, resulting in the fast flow of planned work (i.e., high deploy rates), while simultaneously increasing the **reliability**, **stability**, **resilience** and **security** of the production environment."

– Gene Kim

Slide 8: A Full Lifecycle

A Full Lifecycle

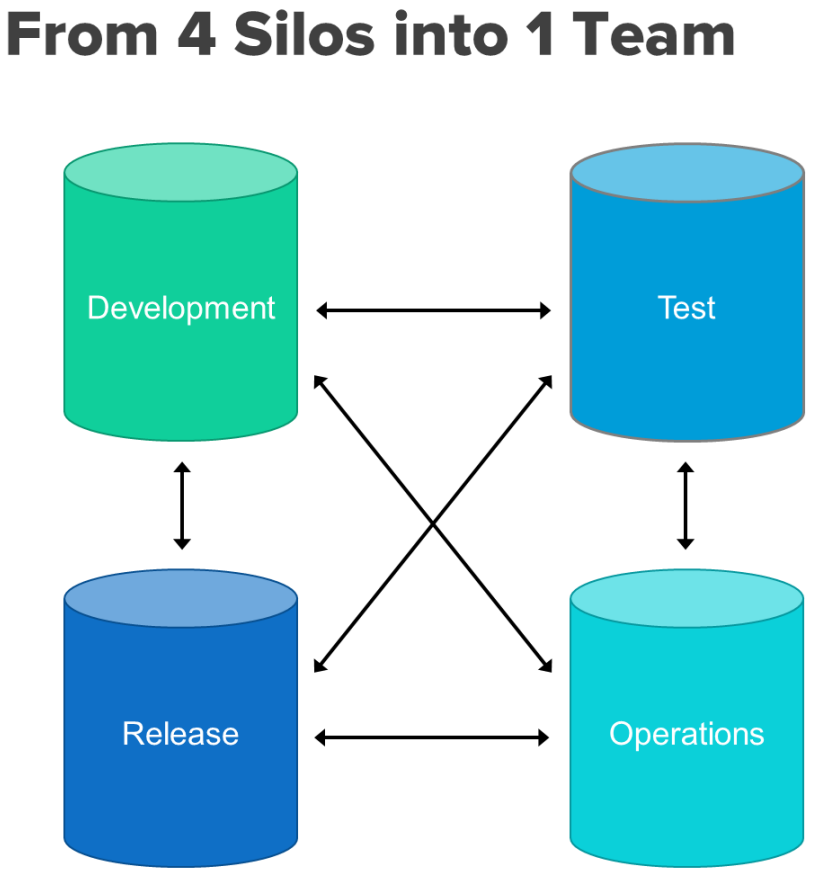
Building, **Deploying**, **Operating** and **Supporting**

DevSecOps = security teams incorporation

Entire **organization** needs to transform!

Slide 9: From 4 Silos into 1 Team

Slide 10: From 4 Silos into 1 Team



Slide 11: NoOps is a No Go!

NoOps is a No Go!

A lot of buzz around “**NoOps**”

Cloud platforms provide *some* “Ops” services

Operational excellence will never stop being **needed in house**!

Slide 12: Summary

Summary

It’s not the name of the team

It is the culture of collaboration

It’s building practices around CALMS

CALMS = (Culture, Automation, Lean, Measurement, Sharing)