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IBM Developer

DevSecOps – Putting Security in DevOps

—

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S Divya Lakshmi, Security Services Specialist

Introduction to Serverless Applications on Red Ha... ⓘ

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📅 Thu, Jan 28, 2021 5:00 PM GST

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UPCOMING

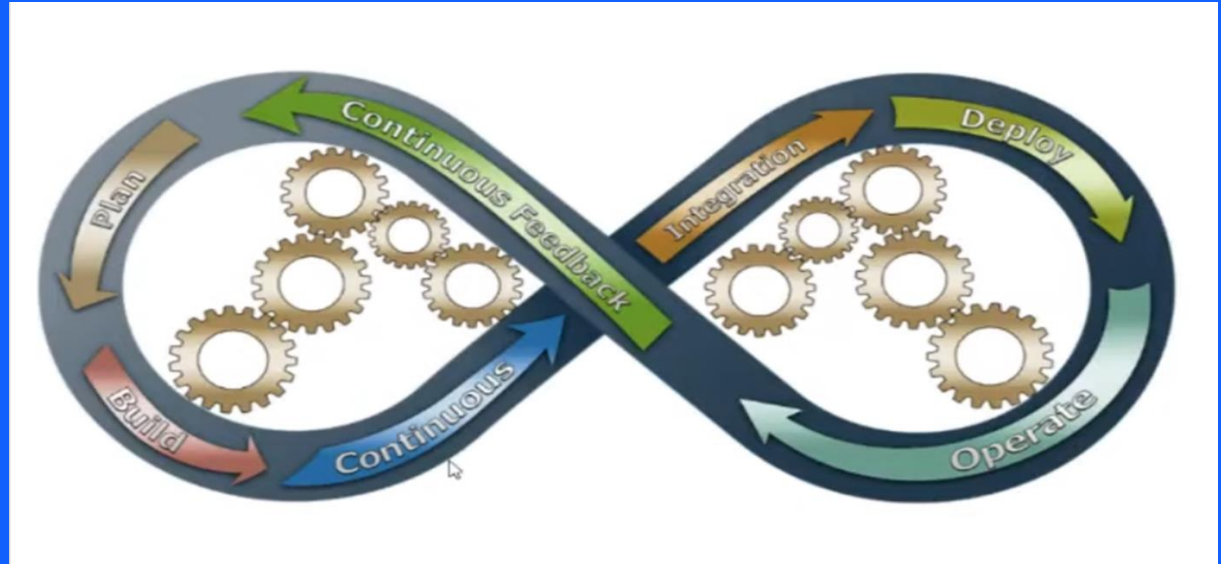**Ask a Question** People 101

Say something nice ☺

3

Overview

- Current State of DevOps

- Expectation vs Reality DevOps

- DevSecOps Introduction

- Benefits of DevSecOps

- Hands On

DevOps Today – DevOps Pipeline

DEVOPS - EXPECTATION

SPEED RELIABILITY FREQUENCY

Quick Time to Market

Lower Failure Rate

More Frequent Deployment

1. Security is brought on last
2. Vulnerabilities discovered late
3. Goes back to Dev to fix
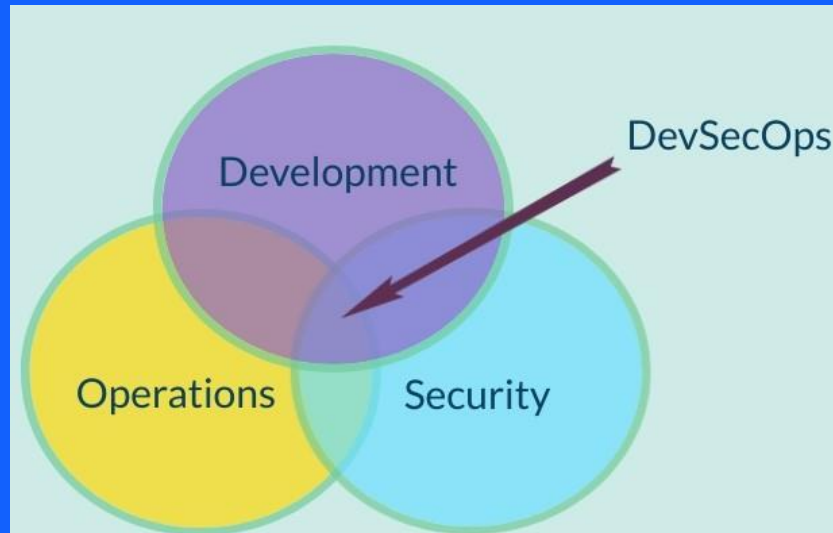4. Deadlines keep getting pushed back

Reality - DevOps

Current

Client 👤 | Strategy/Offerings | Arch./Design | Build/Config. | Test/Deploy | Operate

Security brought in later

Introduction to DevSecOps

Intersection between Development, Operations and Security
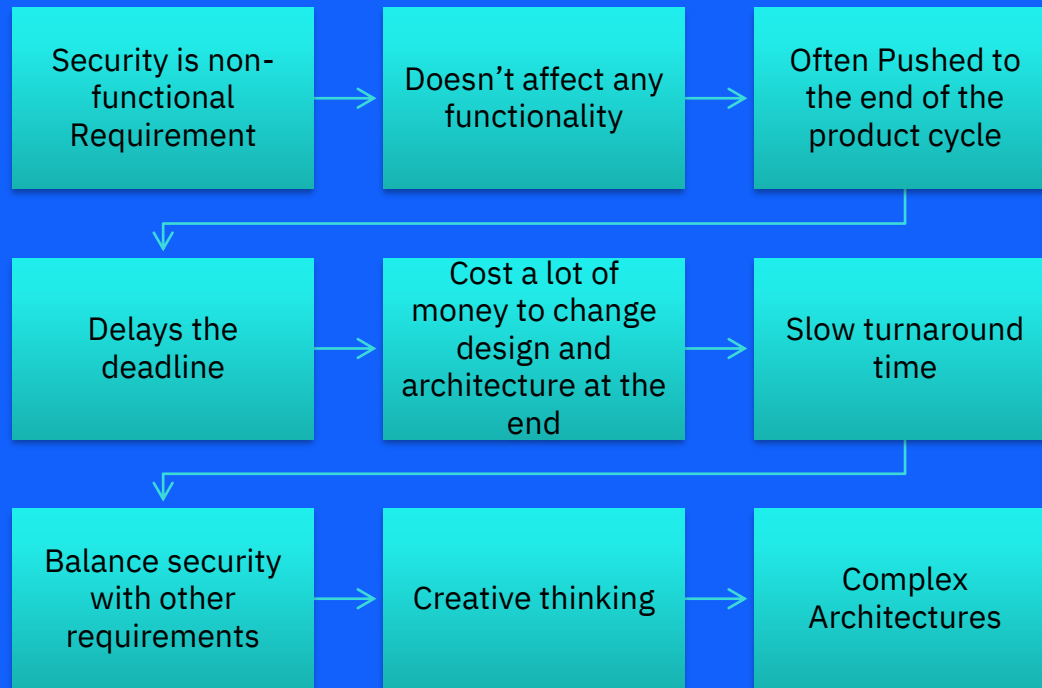
INTRODUCE SECURITY TO All PHASES

Shift Left

To be : Shift Left

Client

| Strategy/Offerings | Arch./Design | Build/Config. | Test/Deploy | Operate |

Security embedded throughout the entire development lifecycle and integrated into threat management

WHY SHIFT LEFT IS IMPORTANT?

Security is non-functional Requirement → Doesn't affect any functionality → Often Pushed to the end of the product cycle

Delays the deadline → Cost a lot of money to change design and architecture at the end → Slow turnaround time

Balance security with other requirements → Creative thinking → Complex Architectures

BENEFITS OF DEVSECOPS

Primary benefits

of DEVSECOPS

COST   TIME   QUALITY

DEVSECOPS TOOLS

SonarQube

Snyk

GitLab

Hands-On

Snyk

IBM CLOUD → **CONTINUOUS DELIVERY** → **TOOLCHAIN**
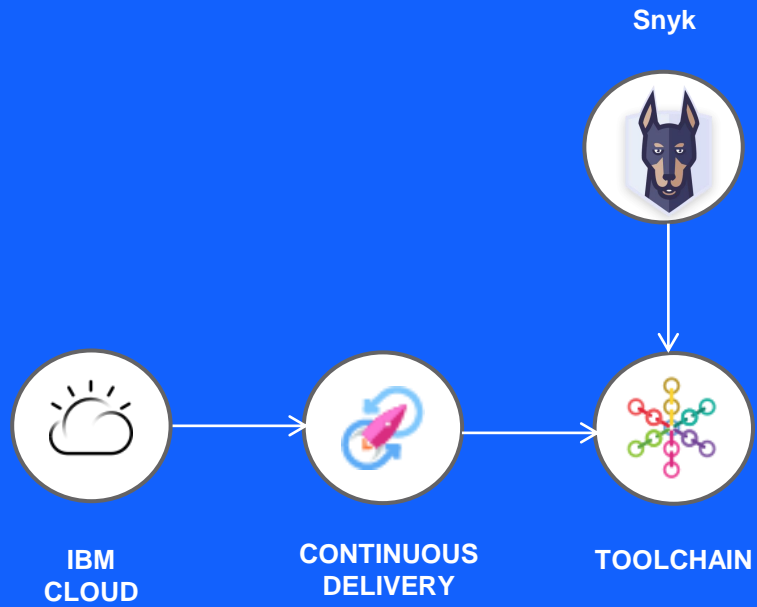
Prerequisite:
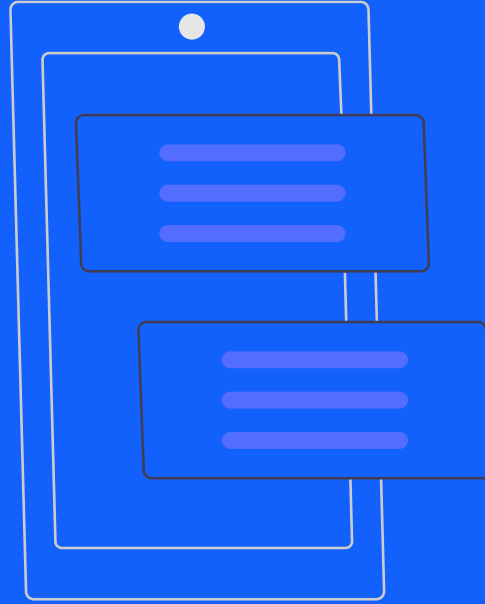
IBM Cloud: https://ibm.biz/BdfE9E

Snyk account: snyk.io

Summary

❑ DevOps and how to introduce security

❑ Create IBM Cloud account, created continuous delivery and toolchain

❑ Snyk to monitor code vulnerabilities

❑ Push code to git repository

Survey

https://ibm.biz/BdfE9X

Useful Resources

IBM Developer: http://developer.ibm.com/

Meetup page: https://www.meetup.com/IBM-Developer-Islamabad-Meetup/

IBM Security Learning academy: https://www.securitylearningacademy

Cognitive class: https://cognitiveclass.ai/

Thank You

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