BCDevExchange

Application Security in a Cloud Native World

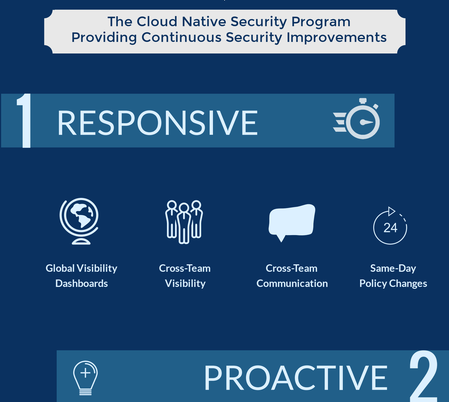
Bringing DevSecOps to BC Government

THE GOAL

- **20x** — Reduction in Secure Application Delivery Time
- Instant Threat Detection and Response
- Confidence in BC Digital Services
- Most Secure Application Platform in BC Government

THE PROBLEM

Security Applied as an Afterthought Late In the Delivery Timeline



THE ONGOING INITIATIVE

The Cloud Native Security Program Providing Continuous Security Improvements

1 RESPONSIVE

- Global Visibility Dashboards
- Cross-Team Visibility
- Cross-Team Communication
- Same-Day Policy Changes

2 PROACTIVE

- Continuous Scanning
- Visible Living Policy & Standards
- Early Vulnerability Detection
- STRA & PIA Approved Policies & Procedures

3 AUTOMATED

- Pipeline Integrated Security Tools
- Runtime Enforcement & Application Profiling
- Global API Security Enforcement
- Network Policy Enforcement

THE TACTICAL PLAN

The DevOps Security Project Creating the DevSecOps Cornerstone

- MINISTRY TEAMS & USE CASES
- CSI LAB AND DEVOPS PLATFORM TEAM
- DATACENTER MANAGEMENT TEAMS
- SECURITY BRANCH AND OPERATIONS

PEOPLE · PROCESS · TECHNOLOGY

- AUTOMATED SECURITY POLICY ENFORCEMENT
- OPINIONATED DEVELOPER TOOLKITS
- ENABLEMENT WORKSHOPS
- ENTERPRISE SCALABILITY

- SECRETS MANAGEMENT
- ZERO-TRUST NETWORK & RUNTIME ENFORCEMENT
- SECURE ARTIFACT MANAGEMENT
- VULNERABILITY MANAGEMENT

THE STARTING POINT

The Cloud Native OpenShift Platform Providing a Secure Foundation

Continuous Integration & Automation
- Repeatability
- Consistency
- Speed of Delivery

Immutable Application Images
- Application Portability
- Automated Application Recovery
- Drift Prevention
- Inherent Audit Trail

Out-of-the-Box Security
- Secure Operating System
- Secure Application Image Sources
- Secure Communication
- API Driven Access

Self-Service Developer Access
- Application Templates
- Codified Pipelines
- Tooling/Plugin Freedom
- Open Source Collaboration