

# Evolving Secure Development Practices for Protecting Software Supply Chain

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Takashi Suzuki, BlackBerry Standards, tsuzuki@blackberry.com

### Agenda

- BlackBerry, a software company
- Advocacy for product security
- DevSecOps practices addressing operation risks
- Today's Challenges
- Use Cases for NCCoE Project



#### BlackBerry - a Software Company

- Providing technologies enabling the safety and security of devices & systems our customers rely on
- Diverse product portfolio, embracing & practicing DevSecOps approach, securing 500M endpoints



Cylance Endpoint Cybersecurity



BlackBerry QNX & JARVIS

### Our Advocacy - Product Security and Software Supply Chain Risks

"Most software today relies on one or more third-party components, yet organizations often have little or no visibility into and understanding of how these software components are developed, integrated, and deployed, as well as the practices used to ensure the components' security."

(NCCoE Project Description LL86-89)

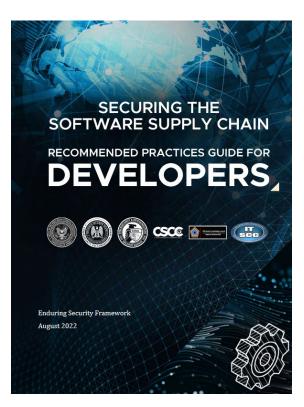




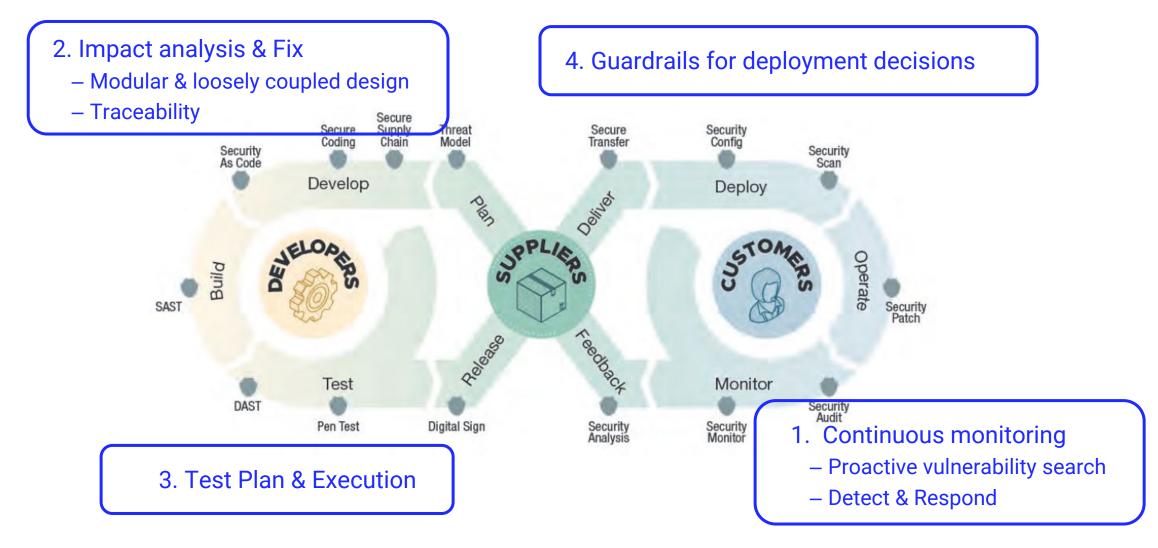
- Supply chain risk of OSS and
   Vulnerability Assessment & Tracking System
- Security review for assessing software readiness

- -ESF Software Supply Chain Working Panel (2021) Binary SCA for final package validation
- SECURITY SUMMIT

Securing software supply chain and SBOM



#### **DevSecOps Practices addressing Operational Risks**



DevSecOps Figure: NSA CISA ODNI "Securing software supply chain - recommended practices guide for developer"

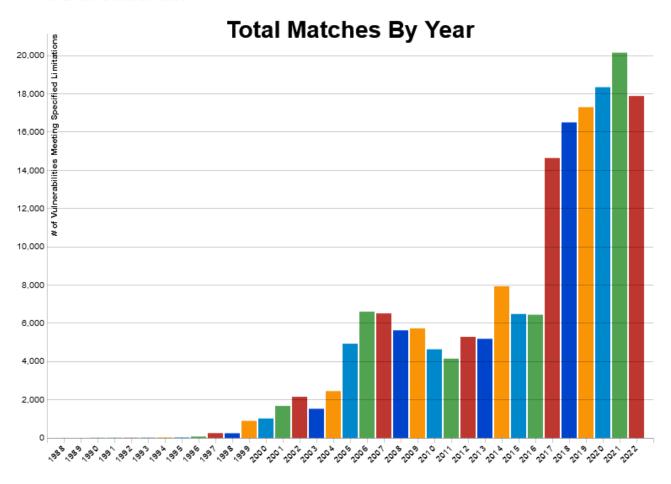
### **Today's Challenges**

- Sharp rise of CVEs
- Scalable & accurate search for affected products
- Protection against evolving threat landscapes

#### **Search Parameters:**

- · Results Type: Statistics
- Search Type: Search All
- · CPE Name Search: false





SBOM Forum: "A Proposal to Operationalize Component Identification for Vulnerability Management"

#### Use Cases for NCCoE DevSecOps Project

- Securing source repositories and build environment
  - Application of ZTA principles
  - Al powered protection, detection and response tools
- Detecting & remediating known and potential vulnerability
  - -Integration of proactive vulnerability management into DevOps
  - –Contextualized output from the tools for risk based prioritization and readiness assessment
- SBOM generation & verification
  - –Combining and verifying SBOMs

## Thank you

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