## **Osonatype**

#### CHEAT SHEET

# Best practices for SBOMs in DevSecOps



#### **Automated SBOM generation**

- Automate for precision: Leverage automation tools for each software build, ensuring your SBOM is always accurate and current.
- **Separate build and release:** Incorporate SBOMs within your <u>software development life</u> <u>cycle (SDLC)</u> to enable monitoring. Also ensure SBOM data is meticulously captured and securely retained for versions that are released, deployed, or shipped.



#### Integration with DevSecOps workflow

- **CI/CD pipeline embedding:** Incorporate SBOM generation and management tools within CI/CD workflows for automatic security assessments.
- **In-depth component scanning:** Ensure SBOMs are created with accurate identification tied to deep, timely, accurate data to ensure a proper view of risk.



#### Strategic utilization

- Rapid vulnerability response: Quickly identify and remediate vulnerabilities identified via SBOMs to ensure compliance and secure software components.
- **Assurance:** Maintain audit-ready compliance by importing and retaining every SBOM unlocking rapid response to incidents, audits, and compliance requests.



### Collaboration and accessibility

- Universal access: Grant all relevant teams access to an SBOM application or interface to foster a collaborative security culture.
- **Targeted training:** Provide education on the advantages and interpretations of SBOMs, emphasizing security implementations.



#### Tools and services

- Focus on integration and automation: Opt for tools that offer seamless workflow integration, automate SBOM generation, and provide comprehensive scanning for security and compliance.
- Choose dual-purpose tools: Ensure your tools support both integrated SBOM generation during the SDLC and efficient management of 1st- and 3rd-party applications, enabling risk and compliance oversight across your software ecosystem.



#### Continuous monitoring and feedback

- Alert system: Implement an alert mechanism for newly discovered vulnerabilities in existing SBOMs that could be affecting your 1st- and 3rd-party software components.
- **Iterative improvement:** Establish feedback loops for continuous refinement of your SBOM strategy, adapting to emerging security challenges and tech advancements.

## Implementation steps

- **Evaluate current processes:** Assess how
  existing development and
  security workflows align
  with SBOM capabilities.
- Procurement and
  3rd-party SBOM
  management: Implement
  processes for ingestion
  and management of
  SBOMs from 3rd-party
  vendors, ensuring they
  meet your security and
  compliance standards.
- Select appropriate tools: Choose SBOM and DevSecOps tools that offer easy integration, scanning capabilities, and support for SBOM management.

regulatory adherence.

Establish Governance, Risk and Compliance
[GRC] protocols: Integrate SBOM insights into your governance, risk management, and compliance

(GRC) framework to enhance decision-making and

**Automate SBOM** 

Automate SBOM

generation within

for consistent

updates and

your CI/CD pipeline

integration:

- **Enable teams:** Educate development, security, and operations teams on utilizing SBOMs for enhanced security.
- Implement monitoring and risk assessment: Establish continuous monitoring of SBOM data for real-time threat and vulnerability assessment, ensuring immediate response and mitigation.
- Make available to customers: Develop and implement a process to share verified SBOMs with customers, enhancing transparency and trust in your software's security and compliance.
- Monitor performance: Regularly assess the effectiveness of SBOM integration on security posture and make necessary optimizations.

