



# Sustainable Secure Software Supply Chain with AI

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# Agenda

Introduction to market trends and challenges in digital growth

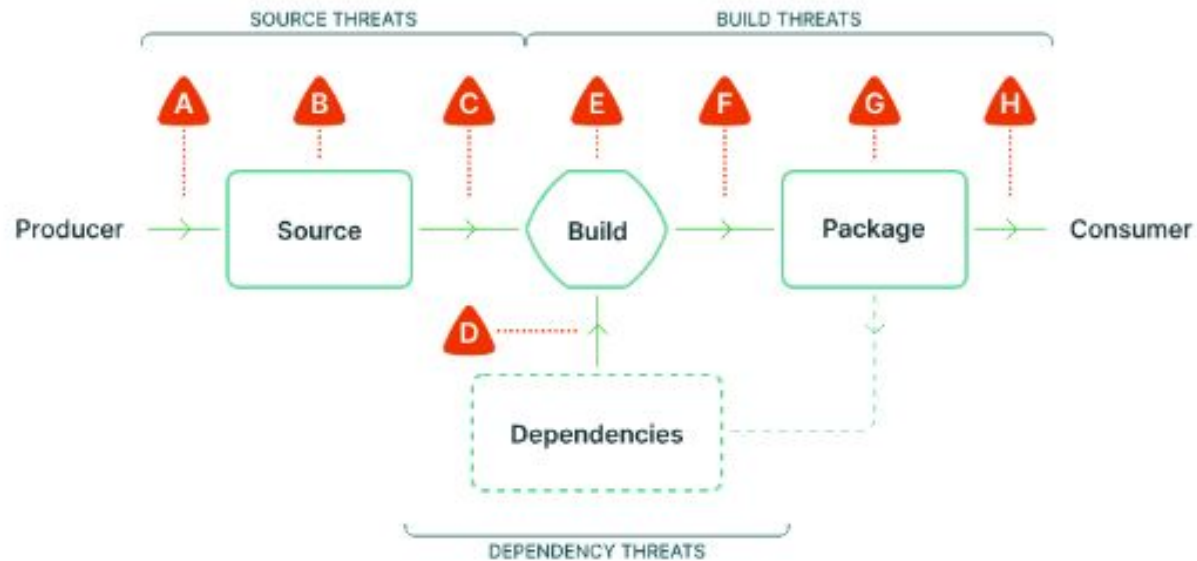
Understanding the Modern Software Supply Chain

The Role of AI in Securing the Supply Chain

Best Practices for a Sustainable and Secure Supply Chain

# Understanding the Modern Software Supply Chain





**SOURCE THREATS**

- A** Submit unauthorized change
- B** Compromise source repo
- C** Build from modified source

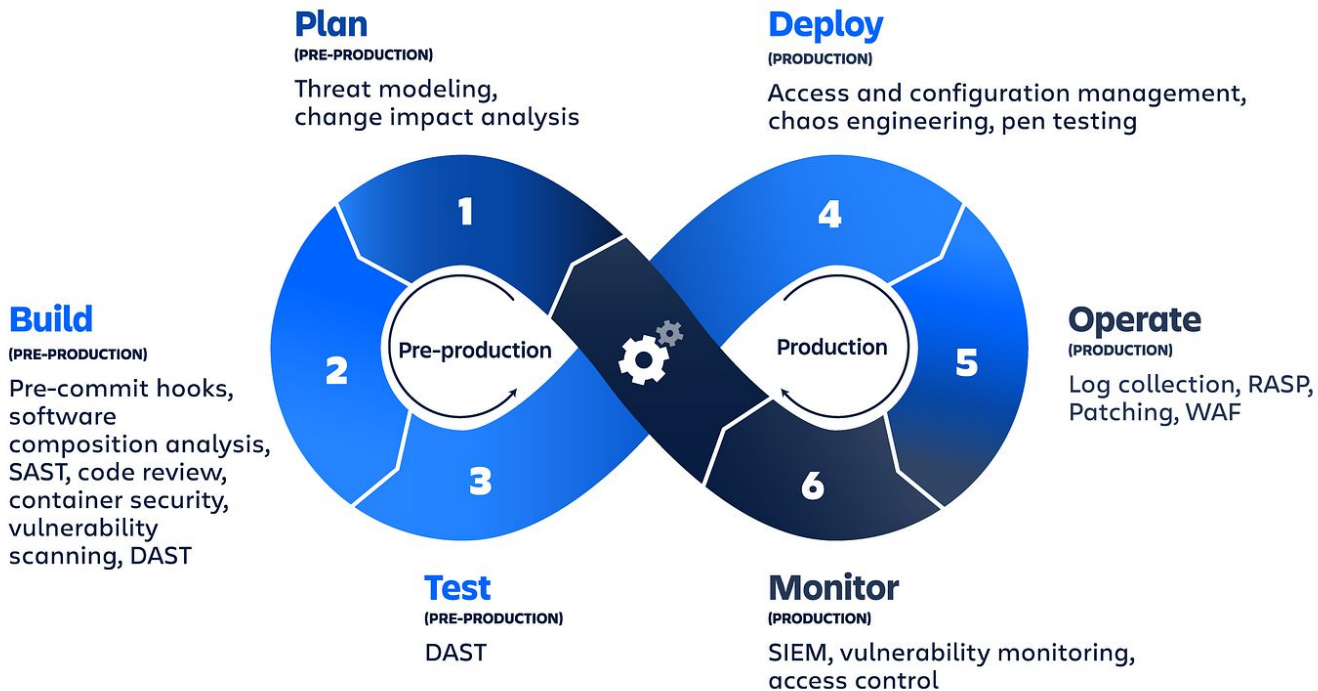
**DEPENDENCY THREATS**

- D** Use compromised dependency

**BUILD THREATS**

- E** Compromise build process
- F** Upload modified package
- G** Compromise package repo
- H** Use compromised package

# DevSecOps



# AI Enhanced Security & Sustainability

Cybersecurity  
Physical Security  
Fraud Detection

Climate change  
Sustainable agriculture  
Environmental monitoring



# The Role of AI in Securing the Software Supply Chain

## AI-powered vulnerability detection and remediation

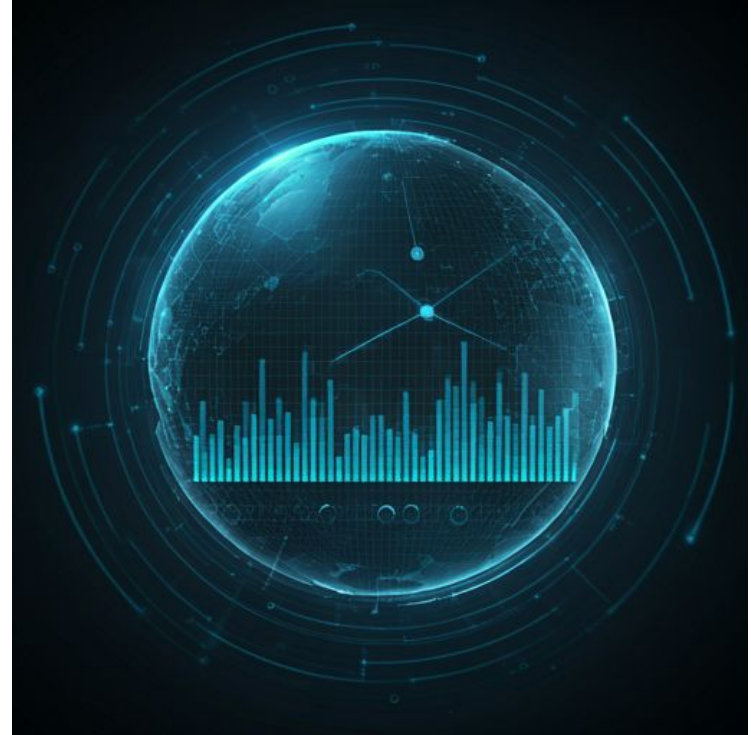
- Automated vulnerability scanning and patching
- Intelligent threat detection and response



# AI-driven supply chain risk assessment

Identifying and mitigating risks from third-party components

Assessing the security posture of open-source libraries





# AI-assisted code analysis and security testing

Automated code reviews and security testing

Identifying and fixing security vulnerabilities early in the development process



# Best Practices for a Sustainable and Secure Software Supply Chain

## Adopting a Sustainable DevSecOps culture

- Integrating security into the entire development lifecycle
- Empowering developers to take ownership of security
- Deploy on demand
- Consider sustainable platforms
- Reduce waste and inefficiencies



# Operationalising AIOps, leveraging open-source tools and communities

Integrate AI in existing and new processes

Empower the workforce

Build guardrails and governance frameworks

Pilot and iterate



# Building strong relationships with suppliers and partners

Collaborating with trusted partners to ensure supply chain security

Establishing clear security requirements and expectations





## Thank you

Looking forward to the collaboration.

Please reach out for further information.

<https://strategyandops.net>

