

TECoSA Edge Computing Summit

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How did this CVE get into production?

Secure your software supply chain end to end with Red Hat's Trusted Software Supply Chain

Vem är jag?





CHRIS JENKINS

Principal Chief Architect Red Hat Global CTO Office





Software supply chain attacks: a matter of when, not if

742%

average annual increase in software supply chain attacks over the past 3 years 20%

data breaches are due to a compromised software supply chain

78%

have initiatives to increase collaboration between DevOps and Security teams 92%

say enterprise open source solutions are important as their business accelerates to the open hybrid cloud



When it can go wrong



- Defence in Depth
- Patched systems
- 24/7 Monitoring and alerting
- Experienced IT/Security teams
- Annual compliance auditing



Malicious code in an untrusted or unknown dependency



Growing attack surfaces with new, emerging threats daily

Secure software supply chain security is a critical component to securing data, Intellectual Property, source code and edge devices



- Lack of CVE awareness
- Typosquatting Attack (i.e. Goggle.com)
- Dependency Confusion
- Compromised Build Environment
- Malware preinstalled on edge devices
- Edge deployment
- Etc, etc, etc!



Minimum Requirements For Trust



Software Bill of Materials (SBOMs)

Understand where your software comes from (provenance), who created it (licensing) and who certifies it (signatures/attestation)

Vulnerability management

Access to vulnerabilities databases, understand vulnerability exploitability (VEX) and access to fixes and remediations

Software composition analysis

Understand and map relationships to open source software for all business critical applications across all environments

Continuous updates, monitoring and logging Once deployed to your edge device, security doesn't end!



The Software Supply Chain



What can we do to SECURE the Software Supply Chain?

Red Hat

CORE CORE SPECIAL COMM, CURLOPT WRITEFUNCTION,

railed to set URL [%s]\m*

enterner. "Wailed to set writer [%s]\n",

.comn, CURLOPT_FOLLOWLOCATION

Failed to set redirect option [As

Start by using Trusted Content





Ensure you have Trusted Code





Automate and attest your build process





Secure and verified deployment





Continuous monitoring





A security-augmented development process



Red Hat Trusted Profile Analyzer



A Golden Path Pipeline Example



How can **Red Hat** help securing you Edge devices?





QUESTIONS | THOUGHTS | COMMENTS





Tack så mycket!

chrisj@redhat.com



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