Why Securing Your Open Source Components Is Critical for AppSec Success

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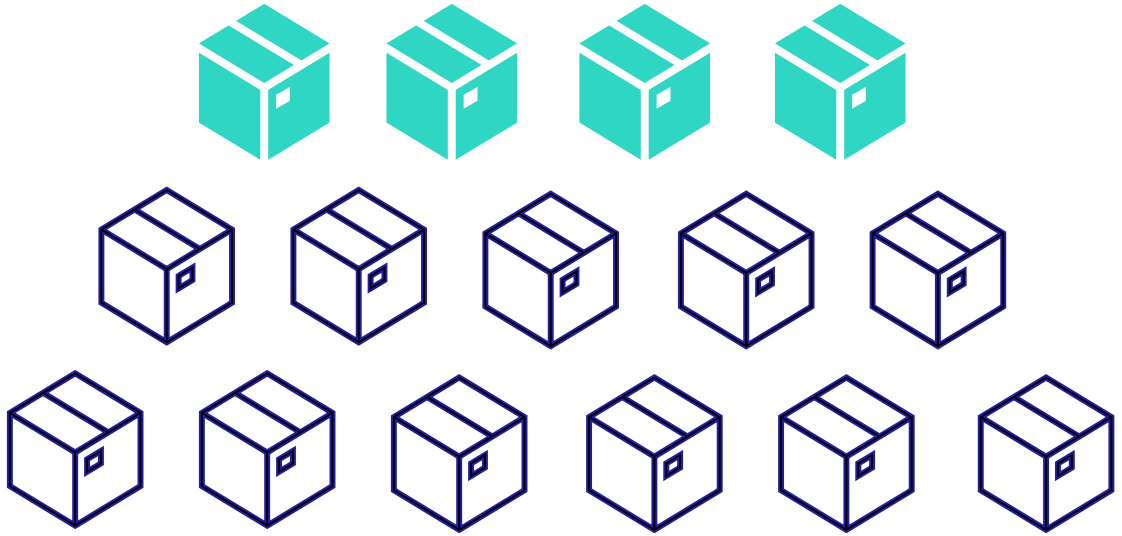
The Use of Open Source

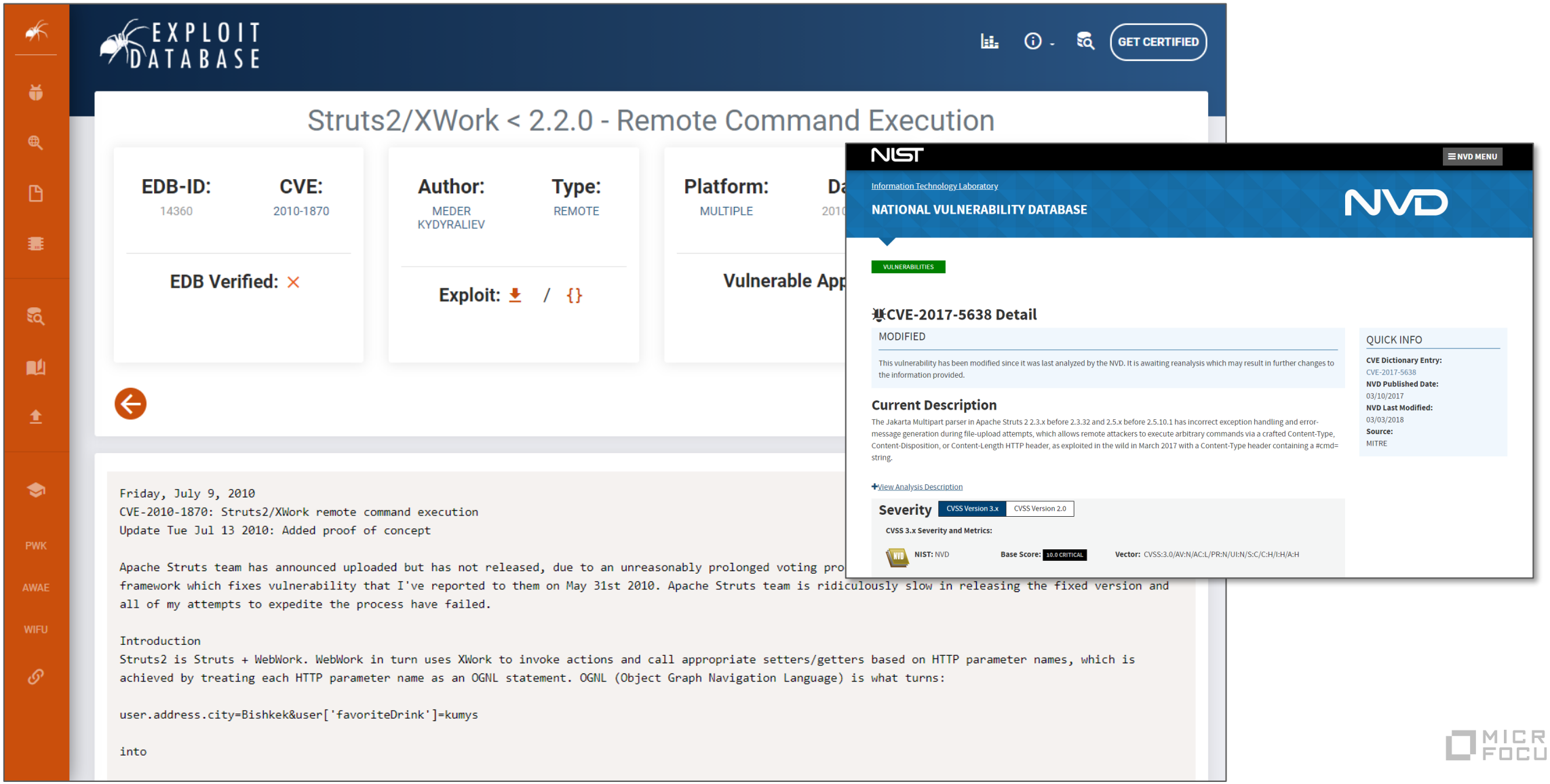
A modern application can include Open Source software as more than 50% of its total codebase



Security Risks from Using Open Source

- Vulnerabilities in Open Source components are inherited by your application
- Many Open Source components use *other* Open Source components as dependencies
- Vulnerabilities are public
- Exploits are public

Open Source, Open Exploit



OWASP Top 10

A9:2017-Using Components with Known Vulnerabilities

Components, such as libraries, frameworks, and other software modules, run with the same privileges as the application.

If a vulnerable component is exploited, such an attack can facilitate serious data loss or server takeover.

Applications and APIs using components with known vulnerabilities may undermine application defenses and enable various attacks and impacts.

Legal Risks from Using Open Source

- Some Open Source licenses are more restrictive than others
- Several licenses have “interesting” requirements
- Patent trolls

Demonstration

Wrap Up

- Bill of Materials (BoM)
- Issue transparency
- Seamless experience

Thank You.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