The Current State of DevSecOps Metrics

March 31, 2021 — Improvements in the technology that automates the software development-to-production pipeline have enabled the modern DevSecOps practices of continuous integration, continuous delivery, and infrastructure as code. In a new SEI Blog post, Bill Nichols discusses how these DevSecOps practices yield software performance information that could spur innovations in software engineering metrics.

“To address the limitations of many of the current DevSecOps metrics in use, a more holistic approach is needed,” writes Nichols, a senior member of the SEI technical staff, in the blog post The Current State of DevSecOps Metrics.

This post is among the first to be released on the recently refreshed SEI Blog. The blog’s updated interface is more user friendly and unifies the SEI’s main blog, CERT/CC Blog, DevOps Blog, and Insider Threat Blog.

Read more about the updated SEI Blog »

Read the blog post The Current State of DevSecOps Metrics »
SEI News

SEI Blog Gets New Look
The blog refresh includes improved user interface and search features.

SEI Releases AADL/ACVIP User Days 2021 Videos and Presentations
Session recordings and slides about the software architecture analysis tools are now available for free on the SEI's website.

SEI Software Product Lines Course Materials Now Freely Available
Presentations and videos for three courses on software product line adoption and development are now available.

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Latest Blogs

The Current State of DevSecOps Metrics
Bill Nichols talks about how DevSecOps practices can yield valuable information about software performance.

A Game to Assess Human Decision Making with AI Support
Rotem Guttman discusses SEI research on human decision making to determine the most effective designs for AI-system interfaces.

Comparing DevSecOps and Systems Engineering Principles
Richard Turner looks at the underlying principles of each discipline.

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Latest Podcasts

Digital Engineering and DevSecOps
David Shepard discusses the relationship between the two approaches.
A 10-Step Framework for Managing Risk
Brett Tucker outlines OCTAVE FORTE, a 10-step framework to guide organizations in managing risk.

7 Steps to Engineer Security into Ongoing and Future Container Adoption Efforts
Thomas Scanlon and Richard Laughlin discuss seven steps developers can take to engineer security into ongoing and future container adoption efforts.

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Latest Publications

Attacking COM via Word RTF
This presentation shows how Microsoft Word 2019 on Windows 10 is not too different from the IE6 ActiveX attack surface.

Modeling and Validating Security and Confidentiality in System Architectures
This report presents an approach for modeling and validating confidentiality using the Bell–LaPadula security model and the Architecture Analysis & Design Language.

Overview of Practices and Processes of the CMMC Assessment Guides
This paper is intended to help anyone unfamiliar with cybersecurity standards get started with the DoD Cybersecurity Maturity Model Certification (CMMC).

See more publications »

Latest Videos

Webcast - DevOps Enables Digital Engineering
Hasan Yasar and David Shepard introduce the concept of digital engineering and how they believe DevOps complements/enables it.
Modeling DevSecOps to Reduce the Time-to-Deploy and Increase Resiliency

Joseph Yankel, Aaron Reffett, and Nataliya Shevchenko discuss why a platform independent model is needed to design an integrated DevSecOps strategy.

SolarWinds Hack: Fallout, Recovery, and Prevention

Matthew Butkovic and Art Manion discuss how the SolarWinds incident challenged the security of systems that are the product of complex supply chains.

Upcoming Events

Webcast - Amplifying Your Privacy Program: Strategies for Success, March 31

This webcast will highlight best practices for privacy program planning and implementation.

Note: The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual event pages for the latest information.

See more events »

Upcoming Training

Insider Threat Analyst
May 4-6, 2021 (SEI, Live Online)

Insider Threat Program Manager: Implementation and Operation
May 18-20, 2021 (SEI, Live Online)

Cybersecurity Oversight for the Business Executive
May 26-27, 2021 (SEI, Live Online)
Note: The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual training pages for the latest information. You may also contact us at courseregistration@sei.cmu.edu or +1-412-268-7388.

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