

SEI Bulletin

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How DevSecOps Enables Digital Engineering

March 17, 2021 — The emerging practice of digital engineering leverages digital modeling to support the lifecycle management of hardware-intensive systems. The more mature lifecycle management methodology of DevSecOps has been applied to software system development. However, DevSecOps practices can complement or enable many of the goals of digital engineering. The SEI is exploring the relationship between the two approaches in a new podcast and live webcast.

The podcast “[Digital Engineering and DevSecOps](#)” features David Shepard, a software developer at the SEI. Shepard previously wrote a [blog post](#) on the topic with Julia Scherb.

On Thursday, March 18, Shepard will co-host a free, live [webcast](#) on DevOps and digital engineering with Hasan Yasar, technical director of the Continuous Deployment of Capability effort at the SEI.

[Register for the free webcast “DevOps Enables Digital Engineering” »](#)

[Listen to the podcast “Digital Engineering and DevSecOps” »](#)

[Read the blog post *What Is Digital Engineering and How Is It Related to DevSecOps?* »](#)



[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.

[Accenture Automation Leader to Receive IEEE/SEI Software Process Achievement Award](#)

The recipient of the 2020 IEEE Computer Society/SEI Watts S. Humphrey Software Process Achievement Award is Rajendra "RP" Prasad, global automation lead at Accenture.

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[Comparing DevSecOps and Systems Engineering Principles](#)

Richard Turner looks at the underlying principles of each discipline.

[Zero Trust Adoption: Managing Risk with Cybersecurity Engineering and Adaptive Risk Assessment](#)

Geoff Sanders overviews zero-trust adoption within the SEI's adaptive cybersecurity engineering assessment framework.

[How to Use the CMMC Assessment Guides](#)

Doug Gardner discusses how DoD contractors can use the recent guides to prepare for a Cybersecurity Maturity Model Certification assessment.

[See more blogs »](#)



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.

[See more podcasts »](#)



Latest Publications

[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).

[AADL/ACVIP User Days 2021](#)

These presentations were given virtually at AADL/ACVIP User Days 2021.

[TwinOps - DevOps meets model-based engineering and digital twins for the engineering of CPS](#)

This paper presents TwinOps, a process that unifies model-based engineering, digital twins, and DevOps practice in a uniform workflow.

[See more publications »](#)



Latest Videos

Webcast - [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.

Webcast - [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.

[Software Product Lines: Module 1 - Course Introduction](#)

Introductory video for the SEI's 15-module course on software product lines.



Upcoming Events

Webcast - [DevOps Enables Digital Engineering](#), March 18

This free webcast will introduce the relatively new concept of digital engineering and how we believe DevOps complements and enables it.

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)

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.

[See more courses, including live-online and eLearning offerings »](#)



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