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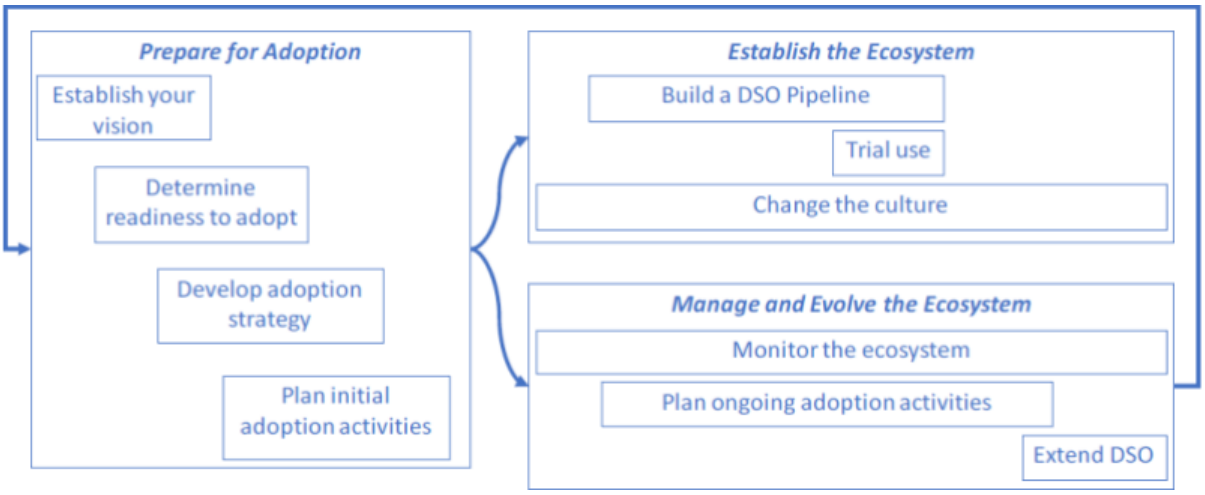

SEI Bulletin — April 15, 2020

DevSecOps in Highly Regulated Environments

A technical report recently released by the SEI details how to implement development, security, and operations, or DevSecOps (DSO), into software systems of systems within highly regulated environments.

According to *Guide to Implementing DevSecOps for a System of Systems in Highly Regulated Environments*, "DSO is a socio-technical system that integrates development, security, and operations in support of a continuous integration, continuous delivery (CI/CD) environment. DSO promises a high return on investment but requires a significant shift in existing culture, process, and technology."

Highly regulated environments, such as those in classified defense projects, present a number of constraints on the typical software development lifecycle. The report addresses the creation and operation of a single, dedicated pipeline architecture that can be adopted and scaled to support multiple products in highly regulated environments.

Read the report.

SEI NEWS

- Nominations Sought for 2020 IEEE/SEI Watts S. Humphrey SPA Award
- SATURN 2020 Canceled

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SEI Publications

- Guide to Implementing DevSecOps for a System of Systems in Highly Regulated Environments
- CMMC—Securing the DIB Supply Chain with the Cybersecurity Maturity Model Certification Process
- Integrability

SEI Blog

Recent posts

- Reviewing Formalized DevOps Assessment Findings and Crafting Recommendations: Sixth in a Series
- Automatically Detecting Technical Debt Discussions with Machine Learning
- 7 Quick Steps to Using Containers Securely

SEI Podcast Series

Available in video and audio formats

- The CERT Guide to Coordinated Vulnerability Disclosure
- Women in Software and Cybersecurity: Dr. April Galyardt
- The Future of Cyber: Security and Privacy

SEI Events

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.

Featured events

- Software Engineering Workshop for Educators
- NatCSIRT 2020
- FloCon 2021

SEI Videos

Short videos of SEI work from our experts

- Webinar - The DoD's Cybersecurity Maturity Model Certification and Process Maturity
- Webinar - Connecting Cyber Risk Managers to Executives: Understanding Risk Governance and Appetite
- Webinar - At What Point Does DevSecOps Become Too Risky for the Business?

SEI Training

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.

- Insider Threat Analyst
  July 14-16, 2020 (SEI, Arlington, Va.)
- Insider Threat Program Evaluator
  July 28-30, 2020 (SEI, Arlington, Va.)

SEI Careers

Featured opportunities

- Senior Cyber Security Engineer
- Senior Linux Systems Administrator
- Technical Manager
- All Current Opportunities

About the SEI Bulletin

The SEI Bulletin is a biweekly newsletter designed to keep you up to date on SEI news, events, research, and other matters of interest to the SEI community. We hope you find the SEI Bulletin useful and informative.

Send Us Your Story

Do you have a story about how an SEI technology has positively affected your team or organization? If so, the SEI would like to hear about it. Send a short summary of your success to info@sei.cmu.edu, and you could be featured in a future issue of the SEI Bulletin.

Our mailing address is

Software Engineering Institute | Carnegie Mellon University | 4500 Fifth Avenue, Pittsburgh, Pa. 15213

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