



July 15, 2015 |



| [Careers @ SEI](#)

## In This Issue

- [SEI Announces First Software Solutions Conference](#)
- [SEI Podcast Series: Defect Prioritization with the Risk Priority Number](#)
- [SEI Blog: Container Security in DevOps](#)
- [Nominations Sought for 2016 IEEE/SEI Watts S. Humphrey Award](#)
- [12th SEI Architecture-Centric Engineering Workshop for Educators](#)
- [SEI Jobs](#)
- [Training Opportunities](#)

## News: SEI Announces First Software Solutions Conference

With the increasing reliance on and penetration of software into everyday lives, the need for organizations to predictably develop, acquire, and sustain high-quality software systems has never been greater. To address this need, the Carnegie Mellon University Software Engineering Institute (SEI) will host its first Software Solutions Conference (SSC) in Crystal City, Va., from Nov. 16 through 18. The conference is designed to focus attention on emerging technologies and technical strategies for assuring quality, timeliness, trust, and affordability in current and future software-reliant systems.

[Learn more about the conference.](#)

Also in the news:

- [SEI Conducts Emerging Technology Domains Risk Survey](#)
- [2014 SEI Year in Review Available for Download](#)
- [CERT/CC Team Wins U.S. Government Information Security Leadership Award](#)
- [Rich Program Earns Praise from SATURN 2015 Conference Attendees](#)



## SEI Podcast Series: Defect Prioritization with the Risk Priority Number

Most software systems have some "defects" that are identified by users. Some truly are defects in the sense that the requirements were not properly implemented; some are caused by changes made to other systems; still

others are requests for enhancements that would improve the user's experience. These defects are generally stored in a database and are addressed in a series of incrementally delivered updates. For most systems, it is not financially feasible to fix all of the concerns in the near term, and some issues may *never* be addressed.

The government program office has an obligation to choose wisely among a set of competing defects to be implemented, especially in a financially constrained environment. In this podcast, Will Hayes and Julie Cohen discuss a generalized technique that could be used with any type of system to assist the program office in addressing and resolving the conflicting views and creating a better value system for defining releases.

[Listen to the podcast.](#)

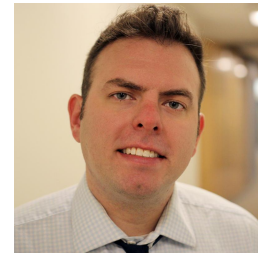


Will Hayes (top) and  
Julie Cohen

## SEI Blog: Container Security in DevOps

Container-based virtualization platforms provide a means to run multiple applications in separate instances. Container technologies can provide significant benefits to DevOps, including increased scalability, resource efficiency, and resiliency. Unless containers are decoupled from the host system, however, there will be the potential for security problems. This blog posting describes why, until this decoupling happens, administrators should keep a close eye on the privilege levels given to applications running within the containers and to users accessing the host system.

[Read the post.](#)



Chris Taschner

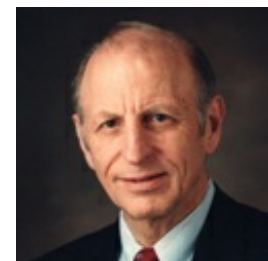
## Events: Nominations Sought for 2016 IEEE/SEI Watts S. Humphrey Award

Nominations are now open for the 2016 IEEE Computer Society/SEI Watts S. Humphrey Software Process Award (SPA Award). Since 1994, the SEI and the Institute of Electrical and Electronics Engineers (IEEE) Computer Society have cosponsored the award, which recognizes outstanding achievements in improving an organization's ability to create and evolve high-quality software-dependent systems.

Nominations must be submitted by October 15, 2015.

Achievements recognized by the Watts S. Humphrey Award can be the result of any type of process-improvement activity. They need not have been based on a specific framework, model, or body of software engineering principles, practices, techniques, or methods.

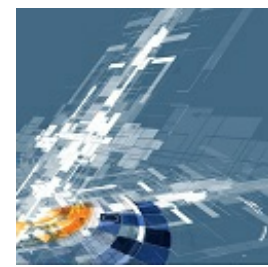
[Read more and learn how to submit your nomination.](#)



Watts Humphrey

**Events: 12th SEI Architecture-Centric Engineering (ACE) Workshop for Educators, August 3-4, 2015, SEI Pittsburgh**

The 12th SEI Architecture-Centric Engineering (ACE) Workshop for Educators will be held at the Software Engineering Institute in Pittsburgh, Pennsylvania, USA, on August 3-5, 2015. The SEI hosts this annual event to foster an ongoing exchange of ideas among educators whose curricula include the subjects of software architecture and software product lines. The event is free of charge and open to any accredited, college-level educator.



This year's event will incorporate two SEI courses. The first course, Engineering Run-Time Malware Detection, covers the principles of designing and implementing a real-time malware detection system for an existing operating system, with concrete examples for Windows 7. The second course, DevOps and Continuous Delivery: Software Architecture, Security, and Interactive Learning, is helpful if you wish to adopt DevOps practices and continuous-delivery workflows. The architecture component of the course focuses on the relationships among application software, the deployment environment, and the supporting tooling.

To learn more about ACE 2015, please visit

<http://www.sei.cmu.edu/community/edworkshops/2015/index.cfm>.

These workshops are open to any accredited college-level educator. If you are an accredited college-level educator and are interested in attending, please send email to [info@sei.cmu.edu](mailto:info@sei.cmu.edu) and include the words "ACE Workshop" in your subject line.

## SEI Jobs

The SEI is a great place to pursue your passion. Headquartered in Pittsburgh, Pa., the SEI also has offices in the Washington, DC, and Los Angeles, Calif., metropolitan areas.



Interested in working for the SEI? Visit our Careers page. Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the [SEI Careers page](#).

[Information Security Critical Infrastructure Analyst](#)

[IT Site Administrator](#)

[Cyber Security Engineer - Exercise Developer](#)

[More job listings...](#)

## Training

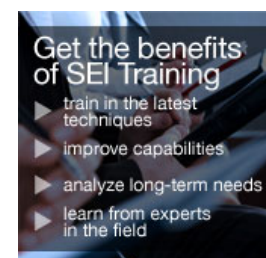
### Upcoming Classes:

**September 15 and 23, 2015 (SEI Virtual Classroom):**

[SGMM Navigator Training](#)

**September 22-23, 2015 (Pittsburgh, PA)**

[Software Architecture: Principles and Practices](#)



**New SEI eLearning Course:**

[Big Data Architectures and Technologies](#)

**Registration Portal**

SEI Training has a robust registration portal that provides simple and secure online access to course registration payments, a purchase history, confirmation letters, and receipts.

To view a video demo of the SEI Registration Portal, please visit

<http://www.sei.cmu.edu/training/registration/>

[More SEI training opportunities...](#)

**Software Engineering Institute, Carnegie Mellon University**

1-888-201-4479

[Join Our Mailing List!](#)

**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](mailto:info@sei.cmu.edu) and you could be featured in a future issue of the SEI Bulletin.