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## Benefits and Applications of Zero Trust Adoption

**August 18, 2021** — In a new entry in the SEI Podcast Series, [Geoff Sanders](#) discusses zero trust adoption and its benefits, applications, and available resources. Sanders, a senior network defense analyst in the CERT Division, spoke with [Suzanne Miller](#), a principal researcher in the SEI's Software Solutions Division, in the podcast "[Zero Trust Adoption: Benefits, Applications, and Resources](#)."

Zero trust is a security approach that removes implied trust in favor of explicit authentication and authorization for access to technology assets. "It touches everything in your enterprise—across people, process, and technology—and requires that you really understand all those elements," Sanders says in the podcast.

[Listen to the podcast »](#)

[Read Sanders' blog post on zero trust adoption »](#)

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### [Building AI Better: SEI Introduces Three Pillars of AI Engineering](#)

New white papers explore open questions around creating and implementing human-centered, scalable, and robust and secure artificial intelligence systems.

### [Software Engineering Institute Announces Establishment of New AI Division, Names Director](#)

The SEI has established a new research division dedicated to artificial intelligence (AI) engineering and named Matthew Gaston as the new division's director.

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### [Navigating People Concerns when Transitioning from Sustainment to Engineering Software-Reliant Systems](#)

This post explores people issues that must be considered when software teams transition from sustainment to engineering.

### [DNS Over HTTPS: 3 Strategies for Enterprise Security Monitoring](#)

Sean Hutchison provides strategies for maintaining network visibility and security by disabling, preventing, or detecting DoH-based communications.

### [Safety Assurance Does Not Provide Software Assurance](#)

Mark Sherman debunks the idea that physical safety assurance provides cybersecurity in cyber-physical systems.

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### [Zero Trust Adoption: Benefits, Applications, and Resources](#)

Geoff Sanders discusses zero trust adoption and its benefits, applications, and available resources.

### [Uncertainty Quantification in Machine Learning: Measuring Confidence in Predictions](#)

Eric Heim discusses the quantification of uncertainty in machine-learning systems.

### [11 Rules for Ensuring a Security Model with AADL and Bell-LaPadula](#)

Aaron Greenhouse discusses 11 analysis rules that must be enforced over an AADL instance to ensure the consistency of a security model.

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## [\*\*Latest Publications\*\*](#)

### [Accenture: An Automation Maturity Journey](#)

This technical report describes work in automation that netted Accenture the 2021 Watts Humphrey Software Process Achievement Award.

### [2020 SEI Year in Review](#)

The 2020 SEI Year in Review highlights the work of the institute during fiscal year 2020.

### [Planning and Design Considerations for Data Centers](#)

This report shares important lessons learned from establishing small to mid-sized data centers.

[\*\*See more publications »\*\*](#)

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## [\*\*Latest Videos\*\*](#)

### Webcast - [Software Development Open Forum: Ask Hasan Anything!](#)

Hasan Yasar hosts a software development question and answer session.

### [Using Value Engineering to Propel Cyber-Physical Systems Acquisition](#)

Nickolas Guertin and Alfred Schenker discuss adapting value engineering (VE) methods into the acquisition of software-intensive weapon systems.

### Webcast - [Software Supply Chain Concerns for DevSecOps Programs](#)

Aaron Reffett and Richard Laughlin explore the important architectural aspects of DevSecOps that are impacted by the software supply chain.

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## [Upcoming Events](#)

### [Balanced Approaches to Insider Risk Management](#), September 8

In this webcast, Randy Trzeciak and Dan Costa will discuss the changing landscape of insider threat and look into future research in this area.

### [DevSecOps Days 2021 Los Angeles](#), September 15

This virtual conference will explore the concepts of developing security as code.

### [AI World Government 2021](#), October 18-19

SEI experts will participate in this two-day forum to educate federal agency leaders on proven strategies and tactics to deploy AI and cognitive technologies.

**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 »](#)

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## [Upcoming Training](#)

### [Software Architecture Design and Analysis](#)

September 21-24, 2021 (SEI, Live Online)

## [Foundations of Incident Management](#)

October 5-8, 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](mailto:courseregistration@sei.cmu.edu) or +1-412-268-7388.

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