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SEI Cyber Minute Script: Integrating Threat Modeling with the SERA Method

Hello, this is Chris Alberts from SEI's CERT Division with your SEI Cyber Minute.

A threat modeling method is an approach for

- creating an abstraction of a software system,
- profiling an attacker's abilities and goals, and
- identifying possible threats that a software system must mitigate

Examples of common threat modeling methods include:

- STRIDE
- Trike
- Personae non Grata and
- Misuse cases

For the past several years, my colleagues and I have developed, piloted, and refined the Security Engineering Risk Analysis, or SERA, Method, a risk-based approach for evaluating mission assurance in system-of-systems environments.

The SERA Method incorporates a variety of models that can be analyzed at any point in the lifecycle to

- identify security threats and vulnerabilities and
- construct cyber-risk scenarios

Recently, we started exploring how to integrate threat modeling methods into the SERA Method's mission-assurance scope.

We can use cyber-threat data generated by threat modeling methods as the foundation for developing SERA's cyber-risk scenarios.

If an organization does not have a preferred threat modeling method, it can use the SERA Method's threat modeling component to generate the required cyber-threat data.

Thanks for watching this SEI Cyber Minute. For more information, please visit our website or send me an email at info@sei.cmu.edu.

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