CS 405 Module 8 Journal

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This course offered me a broad perspective of both security standards as well as deep dives into the underlying architectures of C++ (and its various pitfalls). Starting out, this was supported by various examples involving integer, string, and pointer security. Input security and file reading best practices were also touched upon. It’s incredible to consider the amount of different ways your code can be hijacked by malevolent forces, but it is reassuring to know that these hundreds of vulnerabilities have been documented by the community. (Seacord et al) CS405 introduced the CERT Secure C and C++ Coding Standards which included everything the book mentioned and then some. Having a full knowledge of this resource will be very valuable in my career, but like anything this will take some time (SEI et al).

I can say beyond a reasonable doubt that security is not an afterthought but rather a developing art form. That being said, risk assessment is all about understanding what of yours is personally at stake. The costs involved with being compromised are far greater. The inception of Zero Trust is a culmination of this no-nonsense culture. Many companies have their own definitions of Zero Trust- I am referring to the ‘Tigera’ document that I used in my discussion post.

Finally, the value of a thorough security policy. Part of the SQUARE model involves generating artifacts. The security policy I helped to complete in this course it a great template to guide the underlying discussion and the design philosophy behind cybersecurity. Security consultants have a place in any enterprise. Although my minor is in Software Engineering, I am interested in obtaining CISSP certification in the future.

Thank you,

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Works Cited:

Seacord, R. C. (2013). Secure Coding in C and C++ (2nd ed.). Pearson Technology Group. https://mbsdirect.vitalsource.com/books/9780132981972

Zero trust policy. Tigera. (2024, November 7). <https://www.tigera.io/learn/guides/zero-trust/zero-trust-policy/#:~:text=Zero%20Trust%20Principles%20at%20the%20Basis%20of%20a%20Zero%20Trust%20Policy,-Zero%20trust%20policies&text=Zero%20trust%20allows%20an%20organization,and%20endpoints%20within%20organizational%20boundaries>.

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