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Module eight journal

Portfolio Reflection

Secure coding standard allows organizations of the development teams to have a set of process to follow for developing reliable software that can be trusted, easy to maintain, and reduce risk of vulnerability. Coding standards sets the guidelines and rules to adopt during the design and implementation of the code to prevent potential risk , vulnerability or security hole that can be exploited by attackers. Developers should be trained about coding standards to help guard application in future potential attacks, they should know why security is important, the consequences of data breaches, why every line of code need to be safe, so they can start thinking about security all along the software develop life cycle because any vulnerability can be exploited by hackers. There are many tools to help develop secure code. As Jas Singh mention in is article about the importance of secure coding saying, “to ensure that the software is secure, we use static code analyzers that execute the coding rules and enforce the security standards. The best analyzers will come with vast example codes, compliance reports, and fully documented guidelines interpretations”. We should always design with security, leaving security till the end will be costly for the organization, hard to fix if a vulnerability is detected and will be time consuming.

Microsoft defined zero trust like “Instead of assuming everything behind the corporate firewall is safe, the Zero Trust model assumes breach and verifies each request as though it originates from an open network. Regardless of where the request originates or what resource it accesses, Zero Trust teaches us to “never trust, always verify.” Every access request is fully authenticated, authorized, and encrypted before granting access”. Zero trust allow organizations to reduce risk of data breach, improve compliance, identifying threats and maintaining access control across the network.

I think the best way to put security policies in place is to train developers first, sets goals and objective, identify sensitive data, use encryption, follow coding standards, and secure coding best practices.

Singh, J. (2021, December 17). *Why is secure coding important? (Essential info)*. Cyber Security Kings. Retrieved February 27, 2022, from https://cybersecuritykings.com/2020/12/14/why-is-secure-coding-important-essential-info/#:~:text=Secure%20coding%20practices%20find%20and,systems%2C%20thereby%20reducing%20data%20breaches.