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2-1 Journal: Defense in Depth (DiD)

How deep is too deep, and what is the tradeoff?

Defense-in-Depth is a multi-layered approach to Cybersecurity. (Cyber Edu, 2021). Defense-in-depth should also be diverse. An example would be the use of a firewall to protect a username and password database and encrypting the password data in the database. (intrigano, 2016)

Across the readings I have read and the videos I have watched I have not come across the idea that it is possible to go too in dept with security measure. What should be analyzed is the diversity of the security measures. Each one should provide protection in a different way so the project can thwart many different types of attacks. If you are you are using encryption it is important to make sure you are using a vetted form of encryption and that you are deploying it correctly.

What is some time, money, reputation, and operational considerations?

The video link provided in the resources in Module 02 mentioned the “Rock You” data breach that exposed username and passwords in plain text. The reputation of Rock You was irreparably damaged and the company had no answers for the breach. (intrigano, 2016) Not only can a data breach put a company out of business, it can also result in costly lawsuits.

What are some additional aspects of DiD that make it unique for each situation?

The concept of DiD is situational. Depending on the language an application is developed in, the application may require different levels of security. Languages like C and C++ require extra attention when taking data input from a user. The type of security required may change depending on the application and the nature of the data being stored. If it is personal data like passwords, extra precaution through data encryption will likely be needed.

References

Cyber Edu. (2021, March 04). What is defense in depth? Retrieved March 09, 2021, from <https://www.forcepoint.com/cyber-edu/defense-depth>

Intrigano (Director). (2016, August 30). Software security - design category defense in depth, monitoring traceability [Video file]. Retrieved March 09, 2021, from <https://www.youtube.com/watch?v=vaEXHX2IFHg>