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Project Two

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CS 405 Secure Coding

Narration of Presentation

Slides:

1 Introduction

2 Here at Green Pace, we emulate security throughout the entire software development life cycle. The SDLC contains security in every step. We initially plan all projects with security at the forefront. We follow the 10 security standards, 10 security principles, OWASP guidelines, SEI CERT standards, zero trust mindset, and defense in depth mentality. We have multiple layers of security added into our SDLC at Green Pace. We consistently look to prevent potential breaches and monitor for any areas that may present a threat to our SDLC.

3 Here we have designated the potential threats for our company specifically. These range on a scale, and some are more pertinent than others. These are going to vary organization to organization.

4 Our principles and standards are emulated around the industry standard for optimum security in the SDLC.

5 Each of our principles are backed by specific SEI CERT C++ standards so that we are able to modify and monitor as needed for our organization.

6 Here we integrate HTTPS data transfer, as well as, AES-256 encryption to remain in compliance with security standards of today’s industry.

7 The Triple-A framework is important in our SDLC. Authorization, Accounting, and Authentication are all regularly implemented on a continuous basis. In a zero trust environment like ours, the role of the user is extremely important. Who is this and why should they have access here? Questions are always being asked of users and everyone is denied access at all times by default unless proven otherwise through biometrics and multi factor authentication.

8 Here you can see 5 tests that have been completed on our project. We have passed using these tests and they have proven useful to show our project is in fact doing what we asked it to.

9 – 13 tests performed

15 Even though tests have been performed and passed, we still have to remain vigilent, as no project is every 100% secure at all times. This is not possible. We can, though, prevent a lot if we remain focused on remaining consistent with our principles, standards, monitoring, and systematic approach. At Green Pace we have emulated some improvements and reiterate some great reasons to work for our organization. Tools as well as training with certifications are all important for any team.

16 As with any system, remaining up to date with updates and patches are important and we will remain vigilent with these. We risk a breach in security if we do not. We also will need to remain consistent with all standards and principles in place if we are to only improve in the future. As our project stands, we have increased user trust and we have protected all data at this time.

17-18 Our policies are quite intact when looking into security protocols at Green Pace. We would like to begin implementing a better file management system moving forward. Improvement in File management will increase security at Green Pace. We can add in a new tool to make sure we do not miss any opportunities for a breach in security.

19: References:

* Seacord, R. C. (2013b). *Secure Coding in C and C++ 2ND 13* (2nd ed.). Pearson Eductation, Inc.
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* <https://wiki.sei.cmu.edu/confluence/display/seccode/Top+10+Secure+Coding+Practices?focusedCommentId=88044413>
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