OWASP, Part 4 of 4: Misconfiguration and Data Encryption

Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This course is for users with experience with developing web applications using C# or other object oriented programming languages.

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Course description: In this course we'll be digging more deeply into the OWASP Threat list. How vulnerable are you if your frameworks, servers and applications are not configured correctly, left in out-of-the-box configurations, or are not kept up-to-date? Then we'll move into Sensitive Data Exposure and techniques to store data. Finally, we'll cover insecure versus secure cryptography, what data needs to be protected, and why you should protect it.

Course outline:

Security Misconfiguration
- Introduction
- A5 - Security Misconfiguration
- Demo: Securit Misconfig Wiki
- Demo: Am I Vulnerable?
- Demo: Security Misconfig Cont.
- Summary

Misconfiguration Examples
- Introduction
- Security Recommendations
- Demo: Exception Handling
- Demo: Custom Errors
- Demo: Error Settings
- Demo: nuGet
- Summary

Sensitive Data Exposure
- Introduction
- A6 - Sensitive Data Exposure
- 2013 Top 10 List - This Course
- Sensitive Data Exposure
- Demo: Data Exposure Wiki
- Demo: Am I Vulnerable?
- Demo: References
- Summary

Insecure Cryptographic Storage
- Introduction
- What Data Should You Protect?
- Encryption and Hashing
- Demo: Hasing and Salting
- Demo: Secure Salt
- Demo: Salted Passwords
- Demo: AspNetUser Table
- Keeping Secrets - Encryption
- Summary

Function Level Access Control
- Introduction
- A7 - Missing Access Control
- 2013 Top 10 List - This Course
- Function Level Access Control
- Demo: Access Control Wiki
- Demo: Am I Vulnerable?
- Demo: ASVS
- Summary