

ASP.NET Security Best Practices Masterclass

with Michael Li on Monday October 3rd
at Microsoft House 10 Great Pulteney Street London W1F 9NB
(http://www.microsoft.com/uk/images/about/maps/london_map.jpg)
registration at 9.30 am for 10am start, class ends around 6pm

This masterclass focuses on countermeasures against common threats and best practices in creating secured ASP.NET and/or web applications. It is divided into two parts.

Part 1

We begin by walking through a series of hands-on illustrations to showcase some of the most common threats and attacks on web applications. Specific topics include:

- Types of threats
- Network
- Host
- Application
- Threats against the application
- SQL injection
- Cross-site scripting
- Input tampering
- Session hijacking
- Threat Modelling
- Threat Modelling Process
- STRIKE Model
- DREAD Model



Part 2

Once we have examined some possible vulnerability, we focus on the various strategies and countermeasures to protect our applications from becoming another statistic. Topics include:

- Holistic Approach to Security
- Techniques on Defending the Network
- Techniques on Defending the Host
- Defending the Application
- Validating Input

- Accessing Data Securely
- Dynamic SQL Commands
- Parameterized Commands
- Usage of Stored Procedures
- The sa Account
- Creating a Limited Account
- Connection Strings
- Data Protection API (DPAPI)
- Building a DPAIP Library
- Securing Connection Strings
- Encrypting Connection Strings
- Encrypting and ACL'ing Connection Strings
- Windows Authentication
- Authenticating the ASP.NET Worker Process
- Granting Database Access to ASPNET and Network Service
- Defending the Application (Cont'd)
- Form Authentication
- Protecting Login Credentials
- Storing Login Passwords
- Salting Password Hashes
- Authentication Cookies
- Restricting Authentication Cookies to SSL
- Authentication Cookie Lifetime
- Limiting the Lifetimes of Persistent Authentication Cookies
- ASP.NET View State
- Securing Session State
- Error Handling
- Logging Unhandled Exceptions

The techniques we use here are applicable to all web development projects regardless of development platform and language. Code examples for this talk will be provided in both C# and Delphi.NET.



Michael runs InfoCan Management Consultants Group (Canada) Inc, <http://www.infocan.com>. an independent consulting firm based in Vancouver, specializing in enterprise, mobile and Internet solutions.



All places must be booked and paid for in advance, no later than Friday September 23rd. The cost to members of the Developers Group and other participating user groups is £175 + VAT. DG Members subscribing at a package rate are eligible to attend at no cost but must also pre-book.