Course code: GOC3314

Who is the course for The course is designed for developers, administrators and architectss of web applications on ASP.NET platform

Required skillsExperience with .NET Framework platform

Basic experience with object orientated programming in C# or VB.NET language Basic experience with development of web application on ASP.NET platform

Teaching methods Instructor-led classroom training with a lot of hands-on labs. Teaching materialsHands-on lab hand out, printed materials

Course outline Four basic principles of security Four basic principles of security A bit of theory on the beginning

Consideration of types of security threats Revealing of connected problems Consideration of serioussness of security threats

Ensuring of server platform

Minimization of attack surface Security Configuration Wizard Fight against inner enemy Defence into the depth Encoding the configuration sections

Ensuring the channel of net communication

How does HTTP protocol work and why is not secure
How does SSL/TLS/HTTPS work
How to apply for web server certificate and how to install it
Quick creation of certificate using the utilities from SDK Platform
Operation of certification authority using Windows Certificate Services
Operation of certification authority using OpenSSL (on the Windows platform and not just there)

Ensuring the application

Identification, authentication, authorization
Security archtectures of web application
Accessible mechanism in IIS
How to write your own authentication modul and why not to do it

Forms Authentication in ASPNET
Authentication tickets and their validity
The time of ticket validity versus the lenght of session
Cookie and Cookieless authentication
Login Controls
Static credentials in web.config
Single sign-on within one domain

Saving of passwords

Encoding, hashing, HMAC E-mail address verification

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Solving of forgotten password
ASPNET Membership
Membership providers in ASP.NET
Initial setting
ASP.NET Universal Providers
Use of provider of the third party
Creation of your own membership provider

ASPNET Roles

Roles of providers in ASP.NET Creation of your own role of provider

Ensuring the data by encoding

Secrets, ciphers and paranois in the course of time
Symetric and asymetric encoding, combinations
Handling with keys
Practical implementation of encrypted saving of data in .NET using RSA and AES algorithm and corresponding architectures

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Defence into the depth

Encoding the configuration sections

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