#### Course code: GOC3314

The course looks into security of web applications from the different points of view and it is designed for programmers and administrators of web servers on Microsoft IIS platform, where ASP.NET application is running. The "programmer" and the "administrator" part are particularly close in security. That is the reason why the course is designed as a "tasting" of the other site. We will teach you to look at the problems of security of web applications in their all complexity: how to secure the server itself, how to write an application so as not to contain security bugs, how to secure data during the transmission and while saving on the server. The theoretical basis will be flavoured with stories from practice.

Affiliate	Duration	Course price	ITB	
Praha	3	12 300 Kč	30	
Brno	3	12 000 Kč	30	
Bratislava	3	540 €	30	

The prices are without VAT.

### Course terms

Date	Durat	ion Course price	Туре	Course language	Location
30.09.2024	3	12 300 Kč	Online	CZ/SK	GOPAS Praha online
30.09.2024	3	540 €	Online	CZ/SK	GOPAS Bratislava online
11.12.2024	3	540 €	Online	CZ/SK	GOPAS Bratislava online
11.12.2024	3	12 300 Kč	Online	CZ/SK	GOPAS Praha online
08.01.2025	3	12 300 Kč	Presence	CZ/SK	GOPAS Praha
12.05.2025	3	12 300 Kč	Presence	CZ/SK	GOPAS Praha

The prices are without VAT.

#### Who is the course for

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

#### **Required skills**

Experience 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

#### 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

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## Security in ASP.NET Applications

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 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

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# Security in ASP.NET Applications

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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