

# gRPC Microservices in .NET environment




Course code: GOC3410

The course is designed for developers on the Microsoft .Net platform who want to learn how to develop distributed applications using gRPC and Microsoft Visual Studio.

Affiliate	Duration	Course price	ITB
Praha	2	9 200 Kč	20
Brno	2	9 200 Kč	20
Bratislava	2	400 €	20

The prices are without VAT.

## Course terms

Date	Duration	Course price	Type	Course language	Location
 09.06.2025	2	9 200 Kč	Telepresence	CZ/SK	Gopas Praha Prezenční_GTT
 09.06.2025	2	9 200 Kč	Telepresence	CZ/SK	Gopas Brno Prezenční_GTT
 09.06.2025	2	400 €	Telepresence	CZ/SK	Gopas Bratislava Prezenční_GTT

The prices are without VAT.

## Who the course is for:

- The course is designed for developers on the .Net platform.

## Required skills:

- Experience with .NET Framework or .Net Core.
- Experience with development using Visual Studio 2017 and higher.
- Experience with object-oriented programming in C #.

## Teaching methods:

- Professional explanation with practical samples and examples.

## Teaching materials:

- Powerpoint handouts and module printouts.

## Course syllabus:

Getting started with gRPC

- From binary data through CSV, XML and JSON back to binary data
- The basics of using Protocol Buffers
- HTTP / 2
- GRPC Stream
- Implement simple gRPC services using Visual Studio 2019
- Create a Windows client for a simple gRPC service by using Visual Studio 2019

Protocol Buffers

- Protocol Buffers
- Definition of data structure
- Generate classes from proto files

GRPC Stream

- Server-side stream
- Client-side stream

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# gRPC Microservices in .NET environment

- Two-way stream

## Advanced gRPC

- GRPC Interceptors
- Error handling
- Timeout
- Cancel

## Security

- Http / 2 security
- Simple token authentication

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