



ADVANCED TECHNOLOGY DAYS

29. i 30. studeni 2022.

ZLATNI SPONZOR



SREBRNI SPONZOR



BRONČANI SPONZOR



SPONZOR COFFEE BREAKA



POKROVITELJ



MEDIJSKI POKROVITELJI

GENERALNI MEDIJSKI POKOROVITELJ



GENERALNI MEDIJSKI POKOROVITELJ

ORGANIZATOR



gRPC with c#

Tino Petrina

Staff Engineer @ Infobip

Interests: C#, React, XAML



Agenda

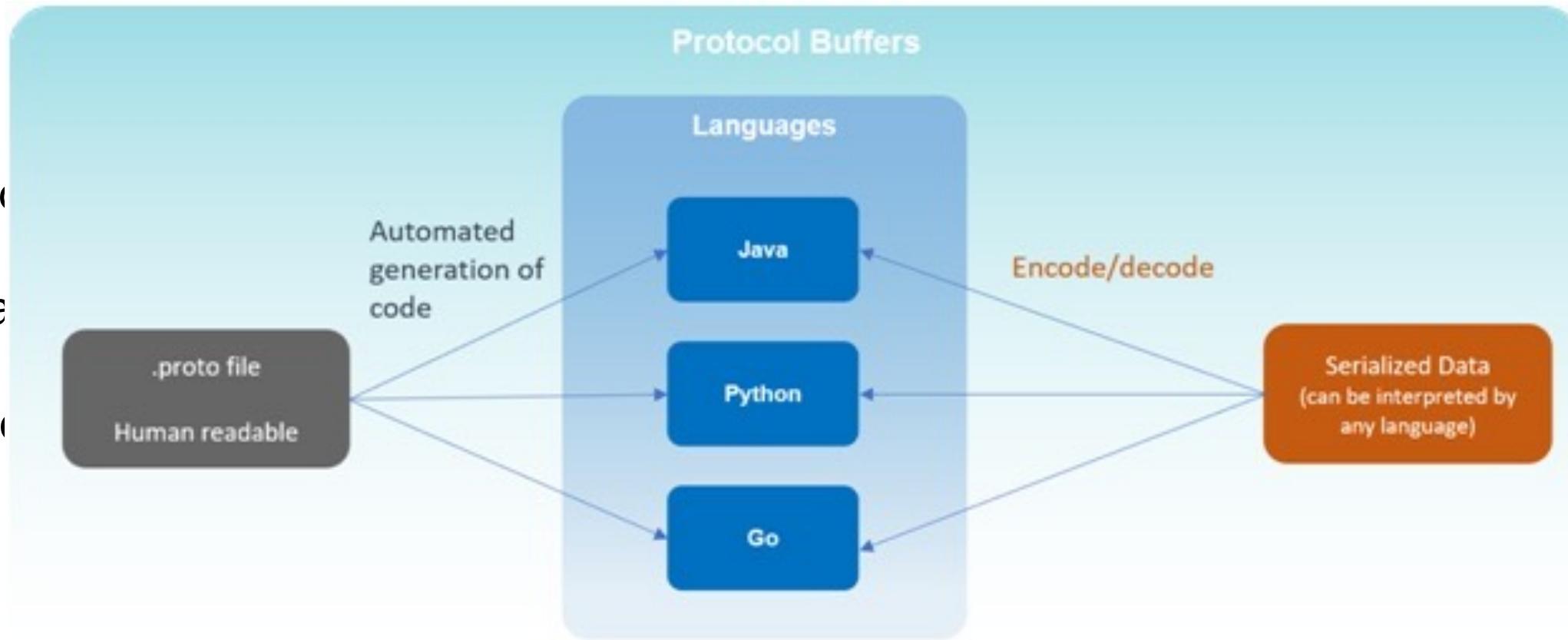
- gRPC
- Strengths
- Weaknesses
- New in C# 7.0

gRPC

- Open-source RPC framework used to build scalable and fast APIs
- Efficiently connect services in and across data centers with pluggable support for load balancing, tracking, health checking and authentication
- Works across languages and platforms

Protocol buffers

- Generics
- Languages
- Deserialization



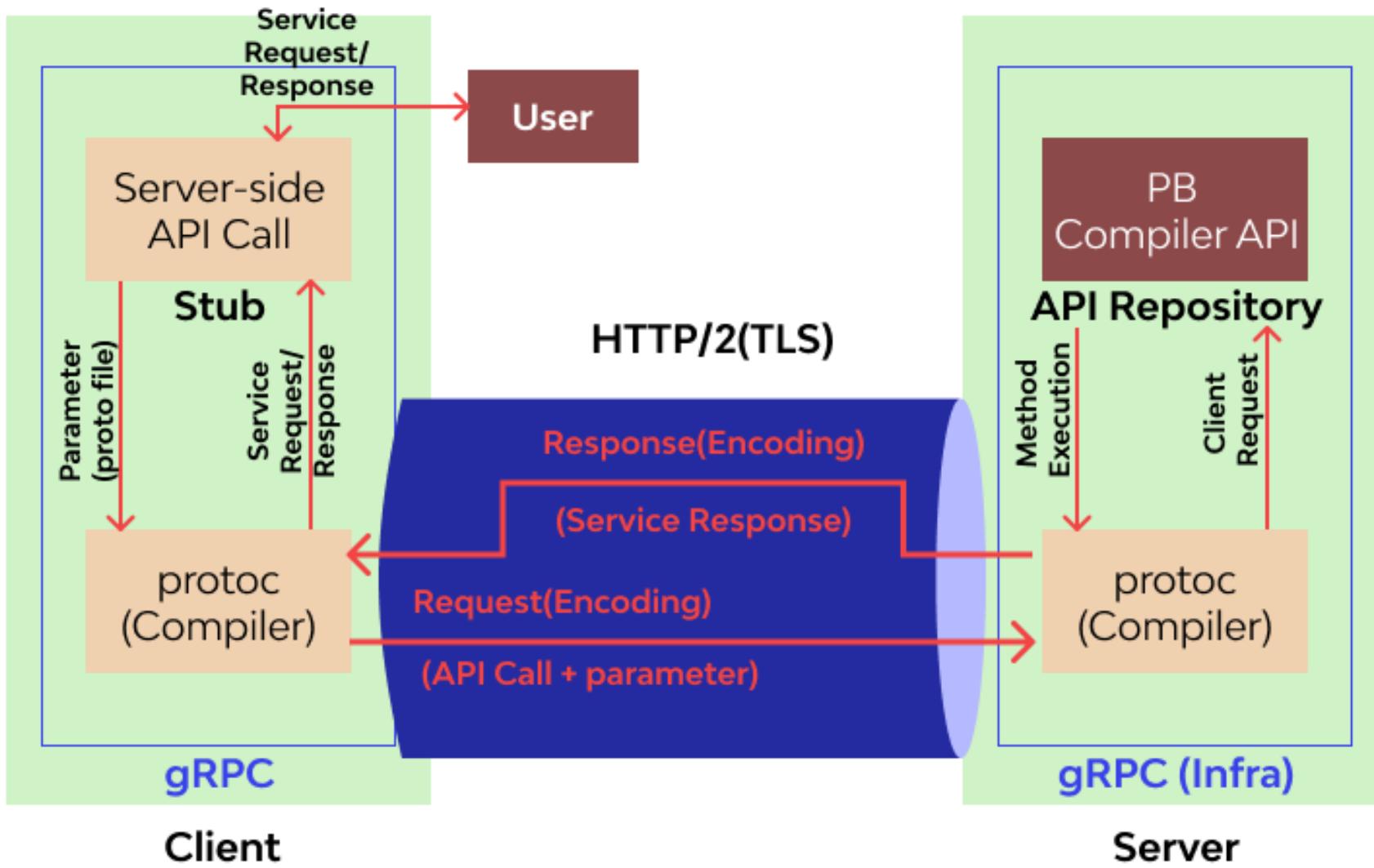
Streaming

- Server-streaming RPCs
- Client-streaming RPCs
- Bidirectional-streaming RPCs

HTTP/2

- Binary framing layer
- Streaming
- Flow-control
- Header compression
- Processing

gRPC Architecture



Demo

gRPC vs HTTP APIs with JSON

Feature	gRPC	HTTP APIs with JSON
Contract	Required (<code>.proto</code>)	Optional (OpenAPI)
Protocol	HTTP/2	HTTP
Payload	Protobuf (small, binary)	JSON (large, human readable)
Prescriptiveness	Strict specification	Loose. Any HTTP is valid.
Streaming	Client, server, bi-directional	Client, server
Browser support	No (requires grpc-web)	Yes
Security	Transport (TLS)	Transport (TLS)
Client code-generation	Yes	OpenAPI + third-party tooling

Strengths

- Performance
- Code generation
- Strict specification
- Streaming
- Deadline/timeouts and cancellation

Weaknesses

- Limited browser support
- Non-human readable format
- No edge caching
- Steeper learning curve
- Client needs balancer setup

New in .NET 7.0

- JSON transcoding
- Health checks
- Improved call credentials support

Demo

MICROSOFT AZURE CLOUD SKILLS CHALLENGE



Preuzmi
aplikaciju **ATD17**
konferencije:



Ispunite **ATD17**
upitnik:



Hvala.

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