Introduction to gRPC

Parole Parocedure Colle

> SRPC ca use protocol buffers as both its:

Triterfore Definition Laguege (IDL)

Sand as its underlying message interchange

Livervian

=> In gRPC, a client application can directly collamethod On a server application on a different machine as if it were a local object, making it easier for you to ascale distributed applications and Services.

=> gPPC is based around the idea of:

> Oafining a service Les Specifying the methods that can be called enmotels With their parameters konetim types.

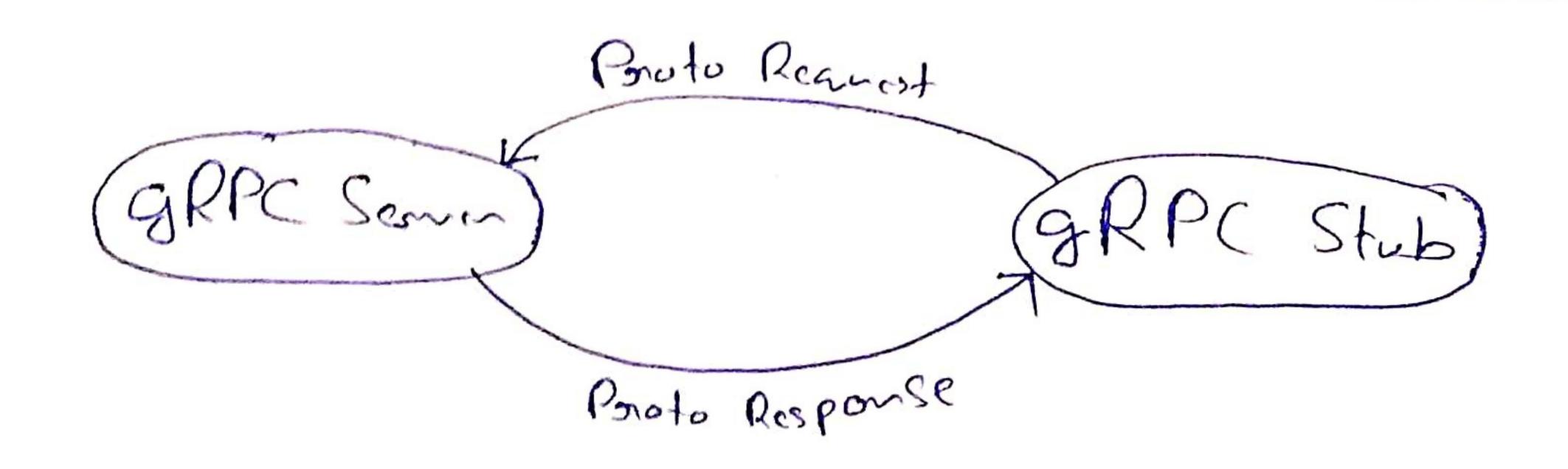
Server side

Client Side

Server implements the interface k envos a gRPC server to hardle client Cells.

=> Client has a Stub (reffered to as)

| some language) that provides the same methods as the samo,



* Working with Brotocol Buffers

By default, gRPC was Protocol Buffers).

[Googles open Some mechanism for? Sericlizing structured data

The first step when working with protocol buffers is to define the standard for the data you want to sericlize in protofile.

Lo Ordinary test file with a poroto entertion

Parotocol buffer data is structured as missages.

Local missage is a Small logical encound of information Containing a Series of nane-value Pairs Called fields.

Exaple:

message Penson [
String name=1;
Int32 id = 2;
bool has-pongcoptor=3;

- Them, you use the protocol buffer compiler protocol to generate data cacess class in your professed language(s) from your proto defination.
- manell and Set-manel), as well as methods to scrictize the whole Starture to/from new byte.

You define gRPC services in ordinary proto siles . With RPC method parameters & oreturn types Specified as protocol buffer messages.

Example

Service GreetRage (Mello Request) ontum (Mello Reply) ()

message Hello Request (

Storing name = 1;

message Mello Reply)

Stoing message = 1;

}

* Protocol buffer vensions

=> While you can use proto3) Lith gRPC.

That you use proto3) Lith gRPC.