



Using protobuf for Investec OpenAPI

Out of the Ordinary

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Hello! 🖐️
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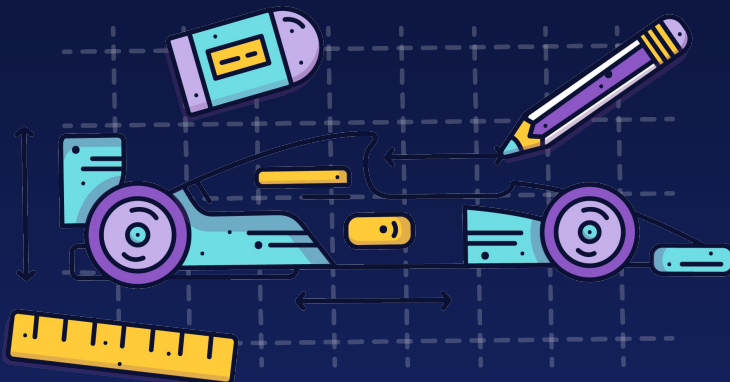


Michael Wallace Louwrens

Client generator

- Generating multiple clients from an API definition
- Allows for simple updates
- Proto3, grpc-gateway, swagger-codegen

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How it works

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How it works

- Proto3 allows for defining http calls via options
- So grpc-gateway creates a proxy for http -> grpc servers
- Part of grpc-gateway is a swagger generation component
- This allows for swagger definitions to be generated from the proto!
- So we can easily create new clients using swagger-codegen

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Why?

- Familiarity with proto and grpc-gateway
- Swagger-ui is great for demoing an API
- It's easy to update the proto for any changes
- Seeing the /za/pb/v1 path made me suspect this is possibly being used internally anyway!

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Get Involved!

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Private Banking

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Challenges encountered

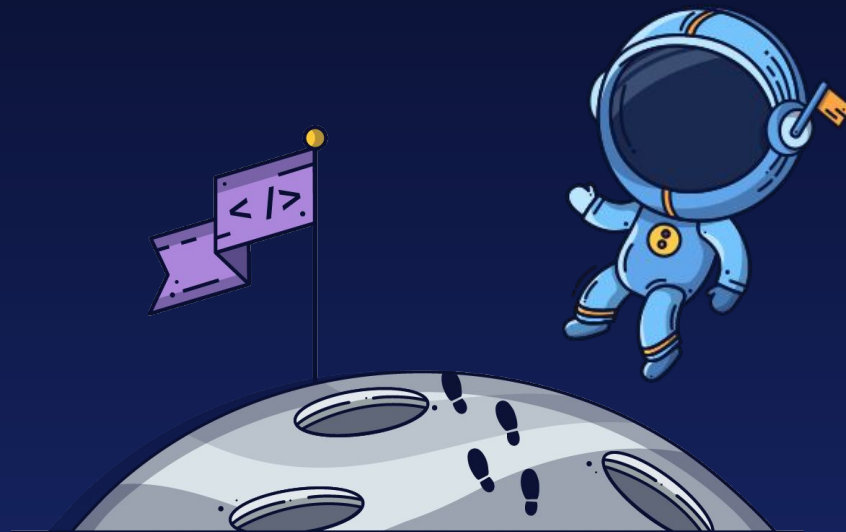
- Hours were spent trying to get the identity call mapped in
- Just... don't
 - All methods tried (and failed) made the definition awful to work with
 - This made me want to just try OpenAPI 3.1 yaml (still want to!)
- cURL doesn't play nice with the standard cURL header (adding a browser header fixes that)

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Get in touch

- Find me on Slack! @Michael Louwrens
- Repos are not yet pushed - want to explore alternatives first!

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Next Steps

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Next steps

- Try out OpenAPI 3.0/3.1 as an alternative (will ask for feedback!)
- Setup a makefile + examples for requested clients (please list!)
- Publish packages to relevant repositories e.g. npm, pip
- Investigate swagger-codegen flags

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Questions

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