



ONAP

OPEN NETWORK AUTOMATION PLATFORM

Swagger-SDK

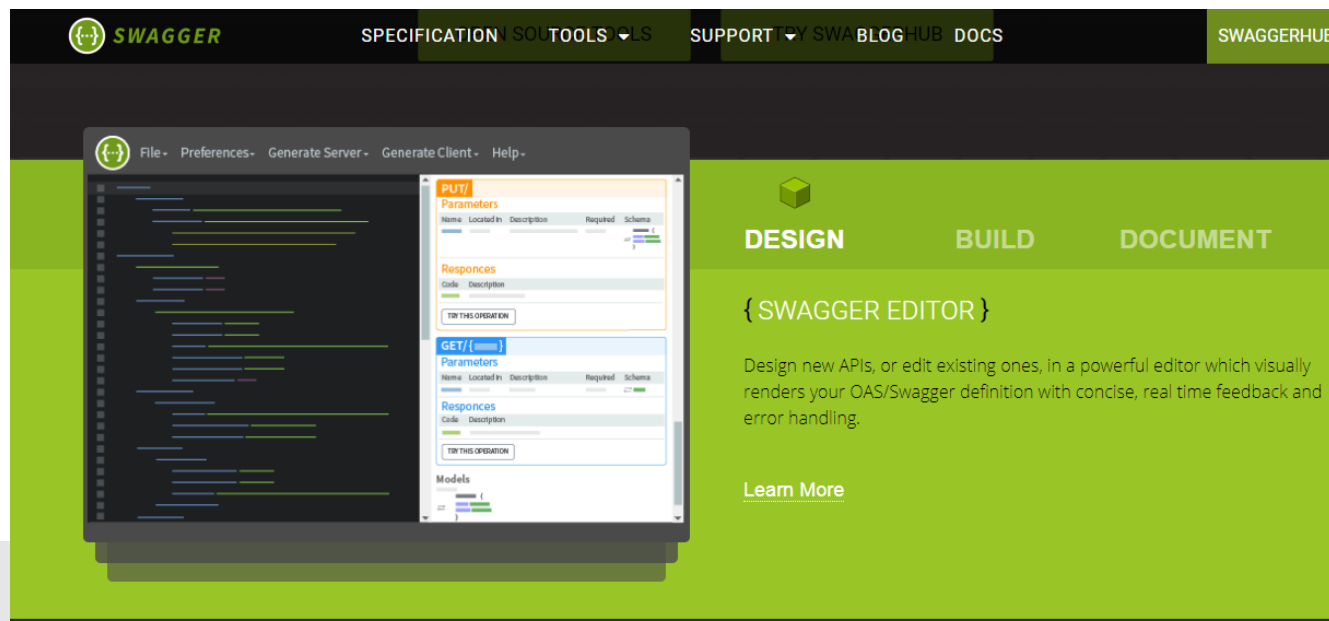
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ONAP Paris Developer Event

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What is Swagger?

- Swagger helps to
 - Define REST API based on OAS standard, as swagger.json
 - Auto generate the REST service code, using swagger.json with swagger annotations.
 - Provides readable REST API document using swagger.json
- Micro-service
 - Provides REST API (mostly)
 - Most recommended to use swagger technology for impl. it



SWAGGER SPECIFICATION TOOLS SUPPORT SWA BLOG HUB DOCS SWAGGERHUB

File - Preferences - Generate Server - Generate Client - Help -

DESIGN BUILD DOCUMENT

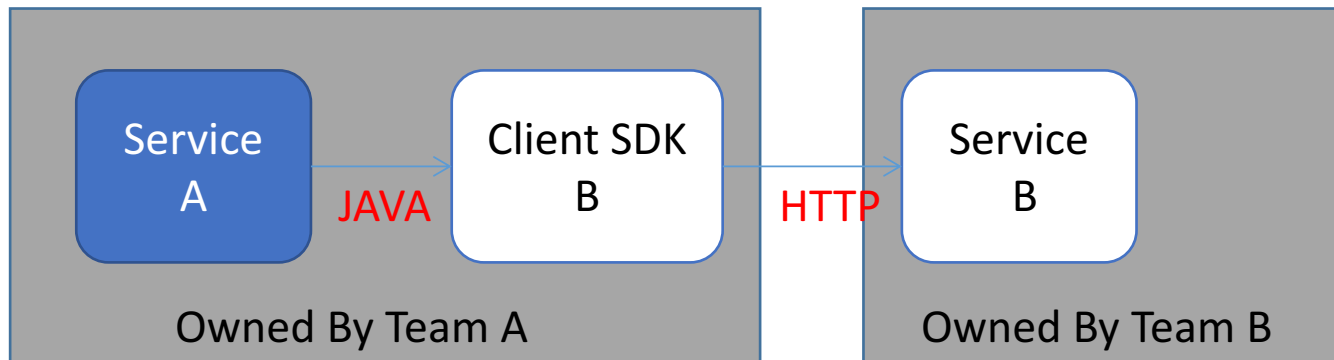
{ SWAGGER EDITOR }

Design new APIs, or edit existing ones, in a powerful editor which visually renders your OAS/Swagger definition with concise, real time feedback and error handling.

[Learn More](#)

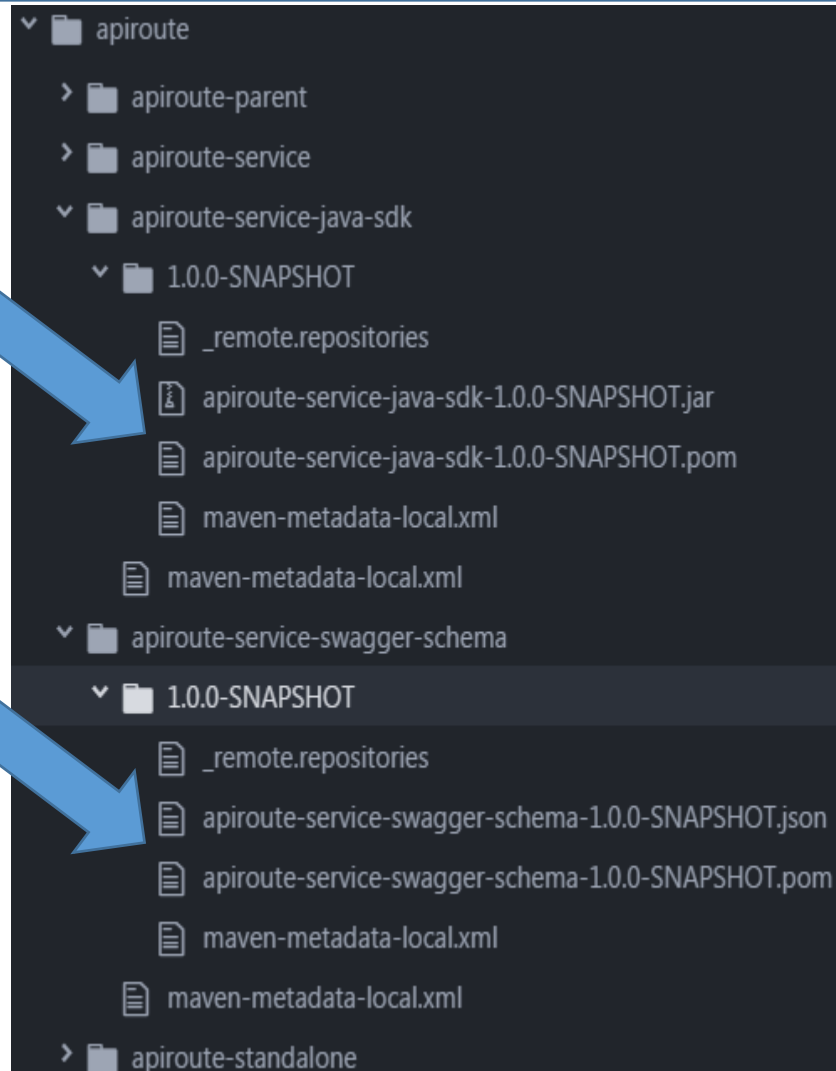
Today's problem in micro-service development

- Develop first, Latter adopt with swagger
 - Manual authoring API document
 - in-consistency with code
 - **Manual impl. Of client sdk.**
 - Effort, money + time.
- **Later detection of change** in depending service REST API.
 - Any change in Service B REST API, detected only during system testing
 - Increases the development cycle (some time, during deployment)
 - Effort, money + time.



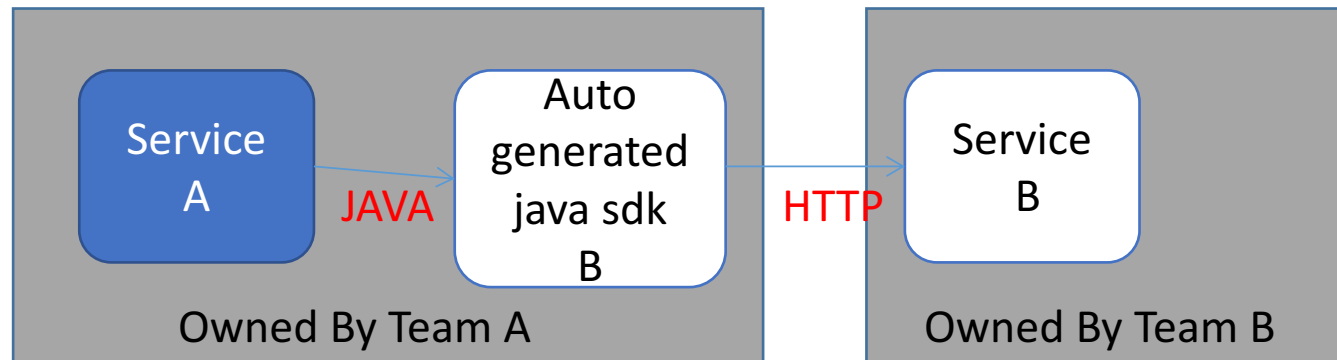
Swagger-sdk

- Build-Time support
- Set of Maven plug-ins
- For already swagger annotated services, **auto generate swagger.json**
 - Install it in maven repository
[Project Maven Group-id] ::[Project maven artifact-id]-**swagger-schema** :: [project maven version].
 - Deploy it remote maven repository (TBD)
 - [MSB already supported](#)
- For already swagger.json enabled services, **auto generates java sdk**
 - Install it in maven repository
[Project Maven Group-id] ::[Project maven artifact-id]-**java-sdk** :: [project maven version].
 - Deploy it remote maven repository (TBD)
 - [MSB already supported](#)
- Run-Time support
 - Tiny REST controller to provide swagger.json at std. URI
 - Tested in Open-O,



Early detection of change in depending service REST API

- Service A should use Service B's auto-generated java sdk instead of manual written java sdk.
- When B REST API changes, auto-generated java sdk interfaces will get updated with new changes. So **Service A will start to report compiler error automatically.**
 - No need to wait till System testing



Thank you

- Wiki : <https://wiki.onap.org/display/DW/swagger-sdk>