
aiolambda

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CHAPTER 1

Quickstart

1.1 Requirements:

- **docker**
- **python3**
- **pip3**
- **aiolambda-cli:** *pip install -U aiolambda*

1.2 Create *project*:

```
$ aiolambda-cli init jwt
```

1.3 OpenAPI specs:

Define microservice API specs, for example:

```
openapi: 3.0.0
info:
  title: JWT Example
  version: '1.0'
servers:
  - url: /v1
tags:
- name: auth
  description: "Generate token"
- name: secret
  description: "Return secret response"
```

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```

- name: ping
  description: "Test service"
paths:
  /auth/{user_id}:
    get:
      tags:
        - auth
      summary: Return JWT token
      operationId: jwt.handlers.auth_handler
      parameters:
        - name: user_id
          description: User unique identifier
          in: path
          required: true
          example: 12
          schema:
            type: integer
      responses:
        '200':
          description: JWT token
          content:
            'application/json':
              schema:
                type: string
  /secret:
    get:
      tags:
        - secret
      summary: Return secret string
      operationId: jwt.handlers.secret_handler
      responses:
        '200':
          description: secret response
          content:
            'application/json':
              schema:
                $ref: '#/components/schemas/Secret'

      security:
        - jwt: ['secret']
  /ping:
    get:
      tags:
        - ping
      summary: "Test service"
      description: ""
      operationId: "jwt.handlers.ping_handler"
      responses:
        '200':
          description: successful operation

components:
  schemas:
    Secret:
      type: "object"
      properties:
        user_id:

```

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```

    type: "string"
    example: "12"
  secret:
    type: "string"
    example: "wbevvec"
  token_info:
    $ref: '#/components/schemas/Token info'
Token info:
  type: object
  properties:
    iss:
      type: string
      example: aiolambda
    iat:
      type: integer
      example: 1545340057
    exp:
      type: integer
      example: 1545340657
    sub:
      type: string
  securitySchemes:
    jwt:
      type: http
      scheme: bearer
      bearerFormat: JWT
      x-bearerInfoFunc: aiolambda.security.decode_token

```

1.4 Code

Define your custom handlers referenced in *openAPI specs*. For example, *auth_handler*:

```

async def auth_handler(user_id: str) -> Response:
    return compose(
        generate_token,
        logger.debug,
        return_200)(user_id)

```

1.5 Useful commands:

See example *jwt* [README.md](#)

CHAPTER 2

Template init

TODO

CHAPTER 3

Template update

CHAPTER 4

Database

TODO

CHAPTER 5

AMQP

TODO

- **Add more examples:**
 - **crud_users: postgres.** Postgres calls. *Document project: [page:database:postgres]
 - **user_settings: mq.** Send and subscribe AMQP messages. *Document project: [page:amqp]
 - **jwt: ci integration.** Basic CI integration with travis. *Document project: [page:ci:travisci]
 - **jwt: container integration.** Basic container integration. *Document project: [page:containers:docker:]
 - **jwt: functional implementations.** Async compose, types: errors, **ROP** documentation. *Document project: [page:functional]
- **Change command definitions:**
 - **inputs:** Command defined with env vars, not cli commands (only use cli commands for short commands [big execution number of times]).
 - **updates:** Makes with inline, replace based ansible filters. (same things: number_of_postgres versions, etc. . . with default values)
 - **.env:** Recomend .env for auto updates and load envvars in each directory (*projects*).
- **Contributions:**
 - **databases:**
 - * redis. . .
 - * mongo. . .
 - **containers:**
 - * firecracker. . .
 - **code analysis:**
 - * code climate
 - **automated api tests:**

- * **dredd**
- aiolambda functional

CHAPTER 7

Aiolambda-cli

```
Usage:
  aiolambda-cli init [--db=<name>] [--mq] [--ci] <project-name>
  aiolambda-cli [-h]
Options:
  -h --help          Show this screen.
  --version          Show version.
  --db=<name>        Database to include: [postgresql]. [default: postgresql]
  --mq              Include RabbitMQ/AMQP client library.
  --ci              Include Travis-CI configuration.
```


CHAPTER 8

Indices and tables

- `genindex`
- `search`