

Integration with AWS



Overview

OpenLegacy's API integration platform is the fastest and most standard way for legacy applications to be part of the AWS cloud. OpenLegacy quickly and efficiently generates APIs or serverless nodeJS functions for any legacy asset by connecting directly to the legacy system, automating code generation. With a couple of clicks, users can generate a consumable APIs inside containers of Lambda functions. There is no hand coding or additional configuration needed for use with AWS.

Key benefits of OpenLegacy

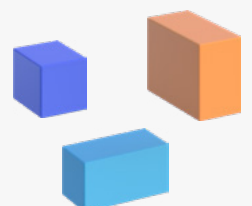
- Generates APIs as:
 - Java code for flexibility to deploy in any AWS Endpoint service: Beanstalk, EC2 or others
 - ECF/Fargate ready microservices
 - Serverless NodeJS code Lambda functions
- Direct Connection to almost any core system
- Automatic code generation of APIs inside microservices
- Parses metadata and generates SDK that includes runtime connection to legacy system
- Easily deployed into any infrastructure (Docker, PCF, Tomcat, Kubernetes, OpenShift)

Key benefits of AWS

- Manage interaction with API consumers to optimize performance
- Wide deployment options for easy consumption, highly reliable Endpoint
- Security at the API and infrastructure layer to add protection to the legacy assets
- Monitoring, Multilayer Architecture, Auto Scaling (in and out), Load Balancing and several services are available to manage and control the APIs
- Services to produce Analytics at the API level

How OpenLegacy works: OpenLegacy can deploy APIs to AWS in 3 different patterns

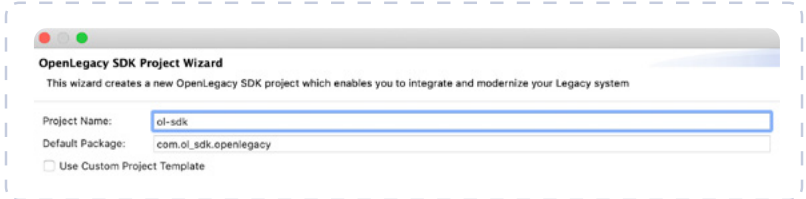
1. Java POJO (Plain Old Java Object) API
2. As Microservice
3. Serverless Function



For this example, we are showing how to deploy on Pattern 1 Java POJO API to EC2:

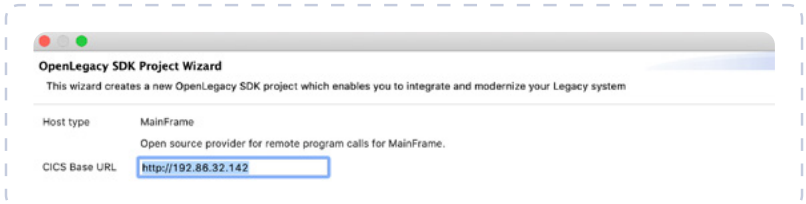
01

Create an SDK project in the OpenLegacy IDE



02

Populate the connection configuration (host, port, username, pass, etc.).

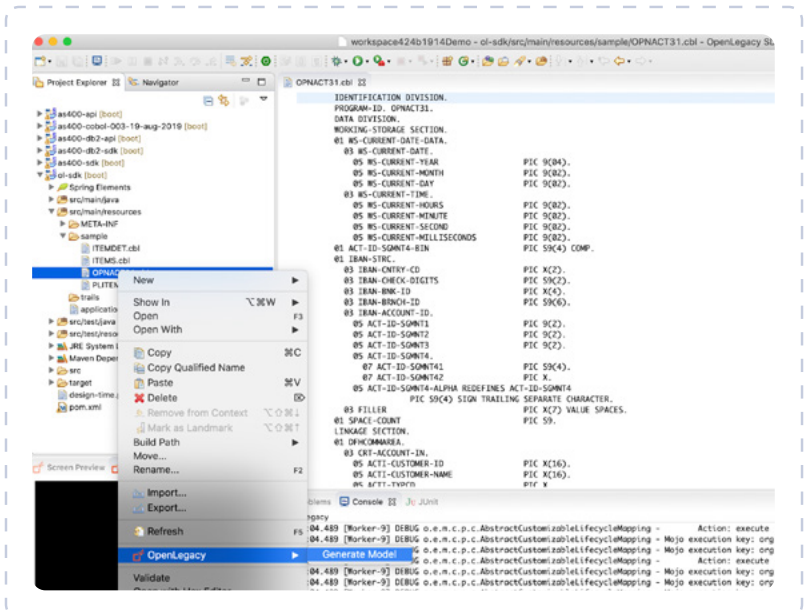


This enables OpenLegacy to build the connection information about the backend into the SDK project. It also can retrieve any metadata from the legacy system for parsing.

03

Generate Java code based on metadata of back-end program

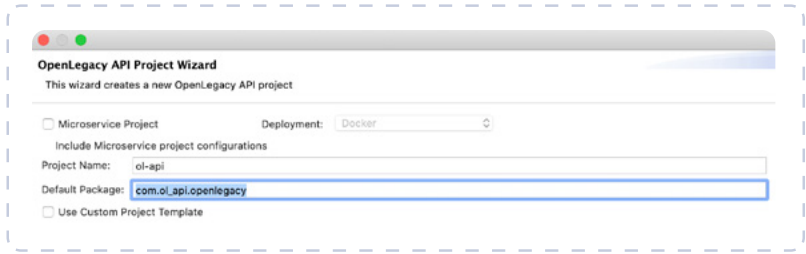
The code goes into the SDK project for use by the APIs.



04

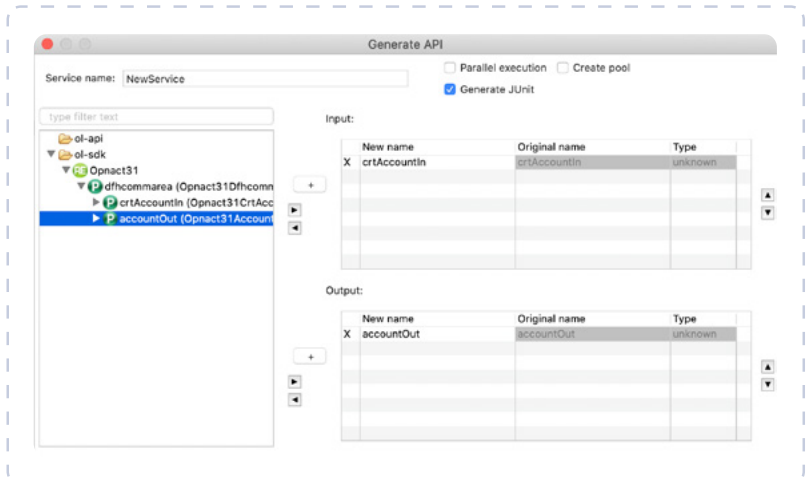
Create an API project in the OpenLegacy IDE

API data gets populated from the SDK



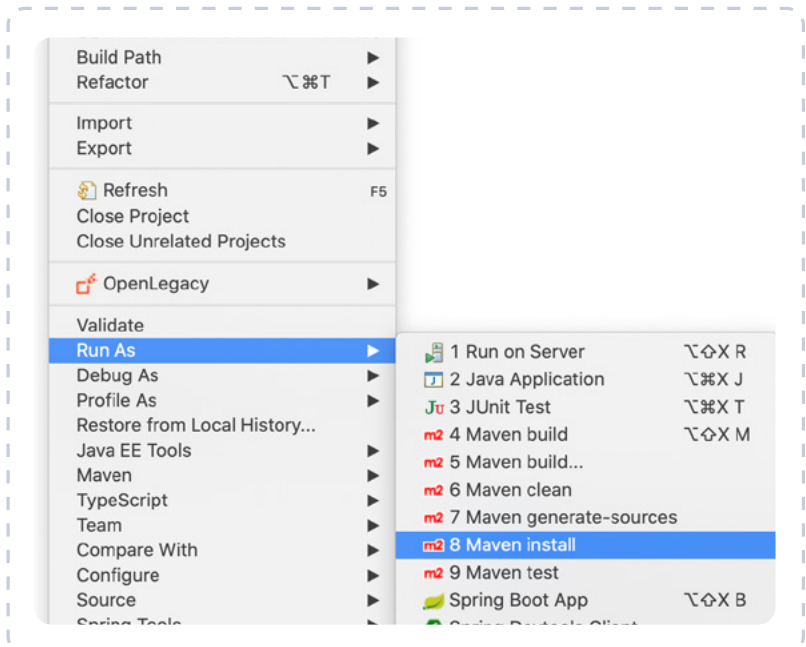
05

Create API inputs and outputs based on the back-end asset generated into the SDK



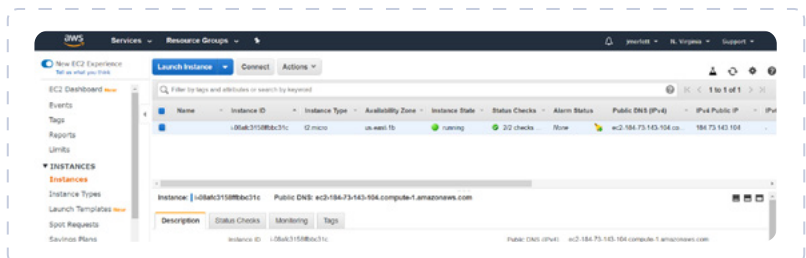
06

Put the microservice-based API into a JAR file by choosing "Maven Install"



07

Go to AWS and configure and Launch an EC2 Instance to deploy



08

Copy the Java POJO Jar file you created in OpenLegacy into the EC2 Instance

```
ec2-user@ip-172-31-41-182:~$ ls
ol-api-0.1.jar
```

09

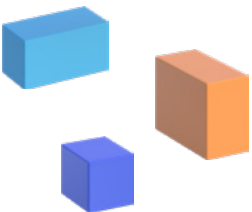
Execute the API inside the EC2 instance

```
OpenLegacy
Starting OIAApplication v0.1 on ip-172-31-41-182.ec2.internal with PID 3416 (Name=/ec2-user/ol-api-0.1.jar started by root in /home/ec2-user)
...[main]...[main]...[main]...[main]...[main]...
```

10

Test the API using the OpenLegacy generated Swagger page

```
curl -X POST http://172.31.41.182:8080/ol/api/olapi?content-type=application/json -H 'Content-Type: application/json' -d '{"name": "John", "password": "1234567890", "email": "john.doe@example.com", "phone": "1234567890", "address": "123 Main St", "role": "user", "status": "active", "type": "basic", "accountType": "basic", "passwordType": "basic", "passwordLength": 10, "passwordComplexity": "basic", "passwordMinLength": 8, "passwordMaxLength": 12, "passwordMinComplexity": 1, "passwordMaxLengthComplexity": 1, "passwordMinLengthComplexity": 1, "passwordMaxLengthComplexityComplexity": 1, "passwordMinComplexityComplexity": 1, "passwordMaxLengthComplexityComplexityComplexity": 1}'
```



About OpenLegacy

OpenLegacy's Digital-Driven Integration enables organizations with legacy systems to release new digital services faster and more efficiently than ever before. It connects directly to even the most complex legacy systems, bypassing the need for extra layers of technology. It then automatically generates APIs in minutes, rapidly integrating those assets into exciting new innovations. Finally, it deploys them as standard microservices or serverless functions, giving organizations speed and flexibility while drastically cutting costs and resources. With OpenLegacy, industry-leading companies release new apps, features, and updates in days instead of months, enabling them to truly become digital to the core.

