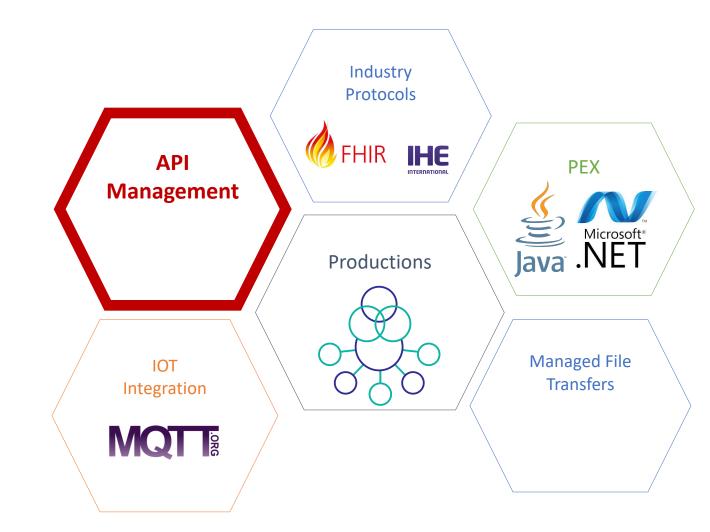
# REST & API Management

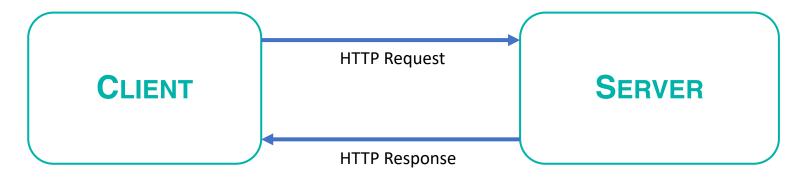
Workshop

**Alberto Fuentes**Sales Engineer



#### REST

#### GET /player/3



#### 200 OK

Content-Type: application/json

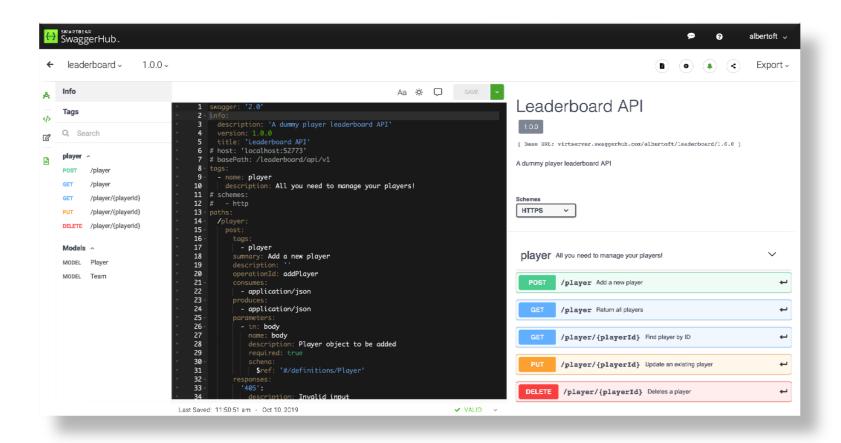
{"id":"3", "name": "John Doodle", "Alias": "wizard33"}

### **REST**

METHOD	RESOURCE	ACTION
GET	/player	Get all players
GET	/player/:id	Get one player
POST	/player	Create
PUT	/player/:id	Create (or replace)
PATCH	/player/:id	Update (partially)
DELETE	/player/:id	Delete

#### **OpenAPI Support**

OpenAPI 2.0 support + extensions (x-ISC)

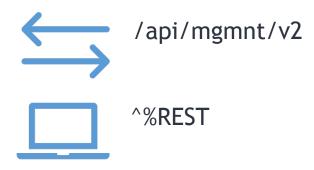


### **OpenAPI**

## Developing an API

#### **Design-First**

OpenAPI → Source Code







#### **Code-First**

Source Code → OpenAPI



## Developing an API



#### **OpenAPI** specification

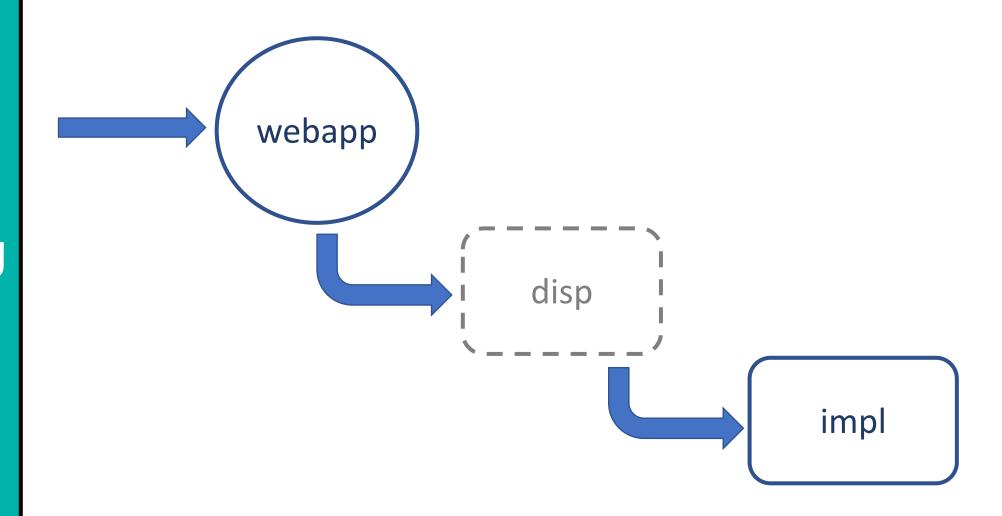


Automatically generated
Parse HTTP Request
Handle headers and HTTP Response

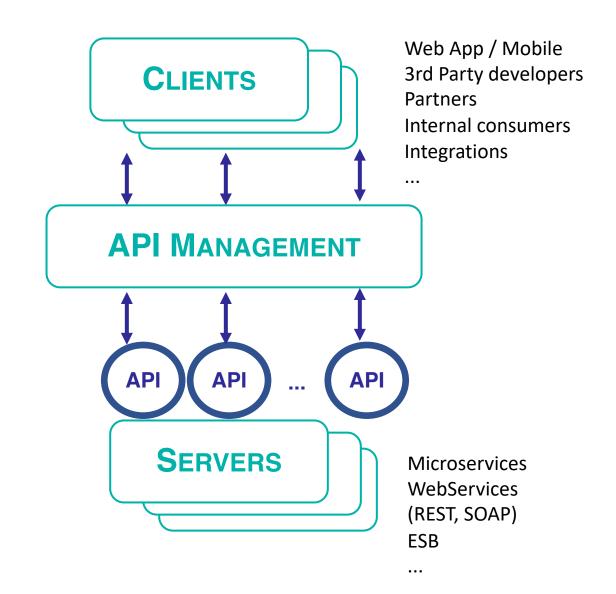


**Implementation** 

# Developing an API



Design **Security Publish** Control **Monitor Analysis** 



#### IAM – InterSystems API Manager



- High performance
- Scalable
- Easy to deploy



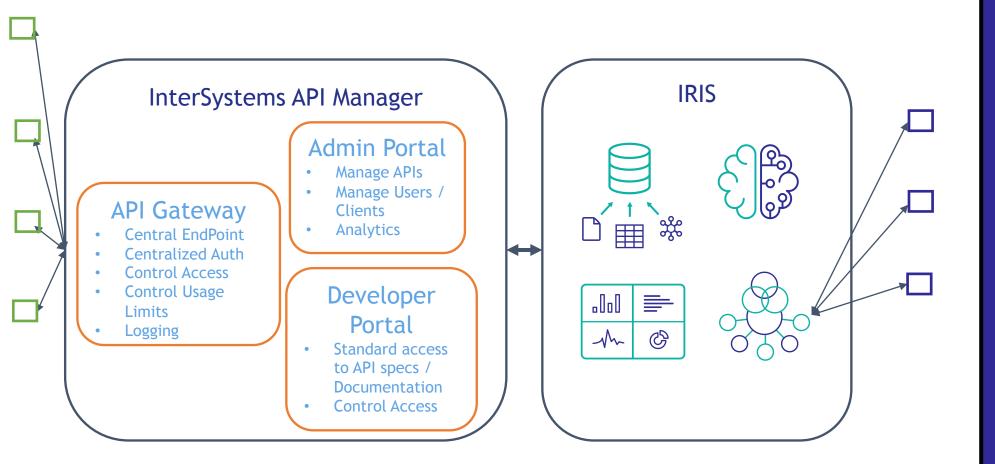
Monitor all your API traffic in one point



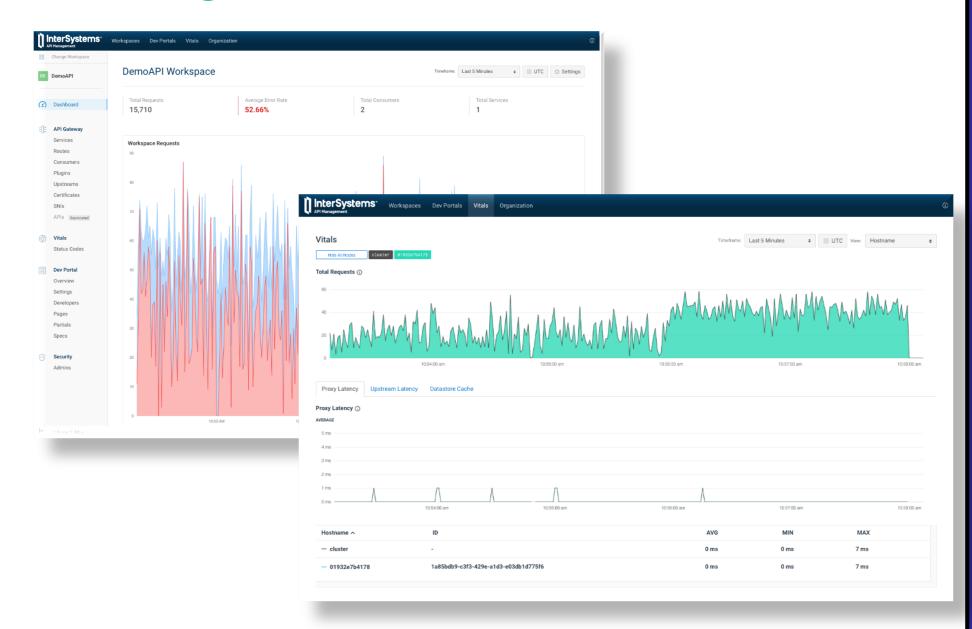
- Modular
- You can extend it using *plugins* (auth, traffic control, etc.)



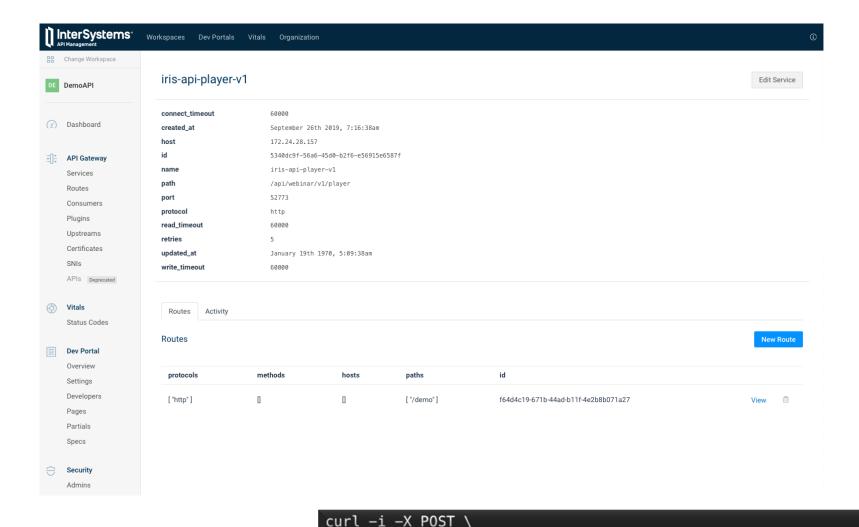
- Developer Portal
- API documentation



#### **Monitoring**



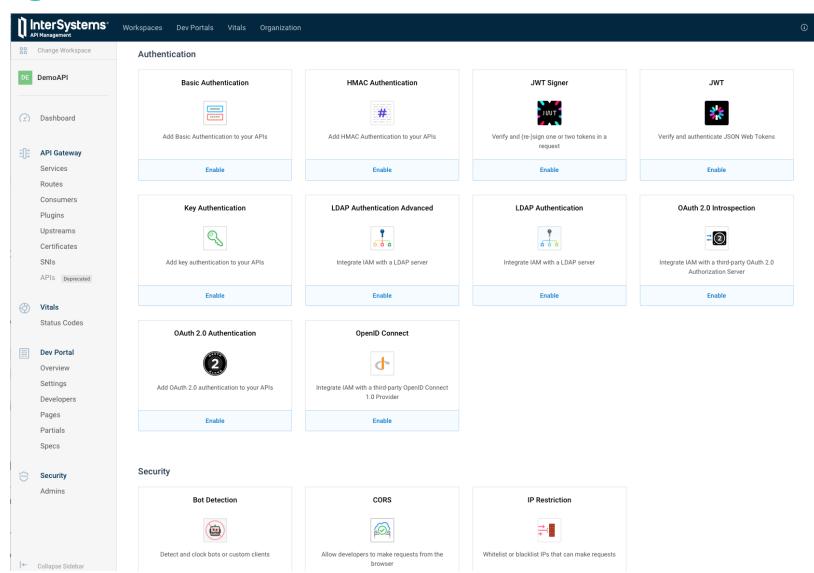
#### Management: UI / REST API



-data 'paths[]=/iris-coffeemaker'

--url http://localhost:8001/services/iris-coffee-service/routes \

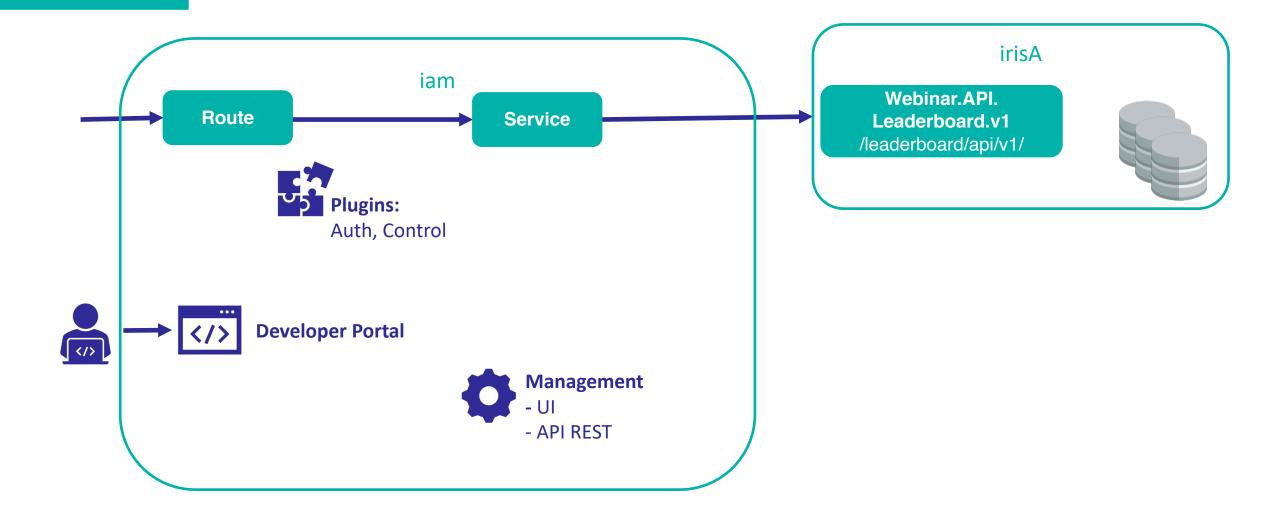
#### **Plugins**





#### **Hands-on: Basic Scenario**

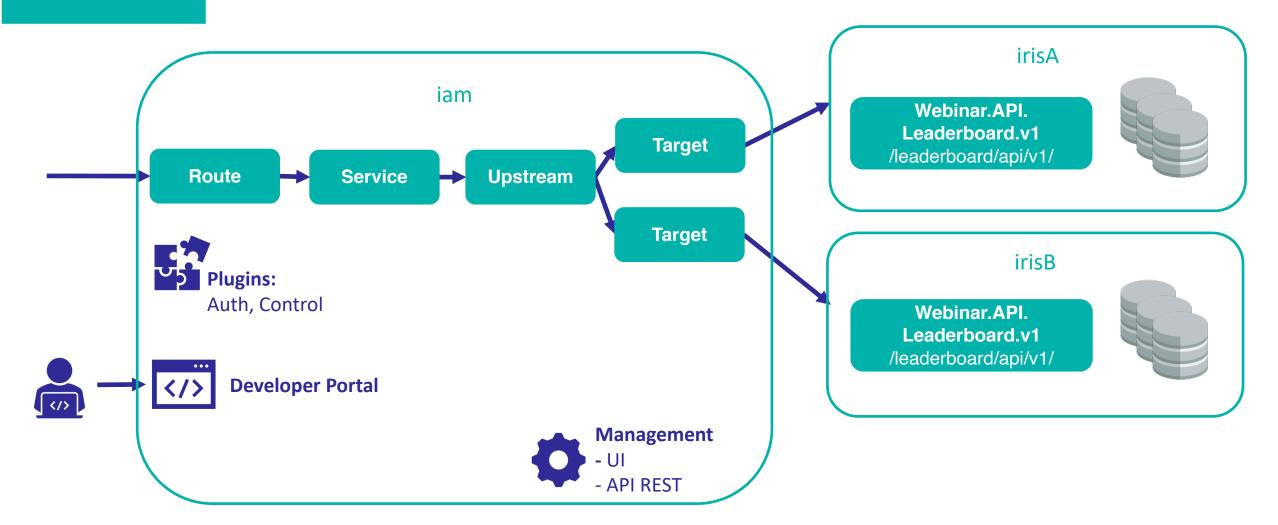
https://github.com/intersystems-ib/workshop-rest-iam





#### **Hands-on: Load Balancing**

https://github.com/intersystems-ib/workshop-rest-iam





#### **Hands-on: Route by header**

