



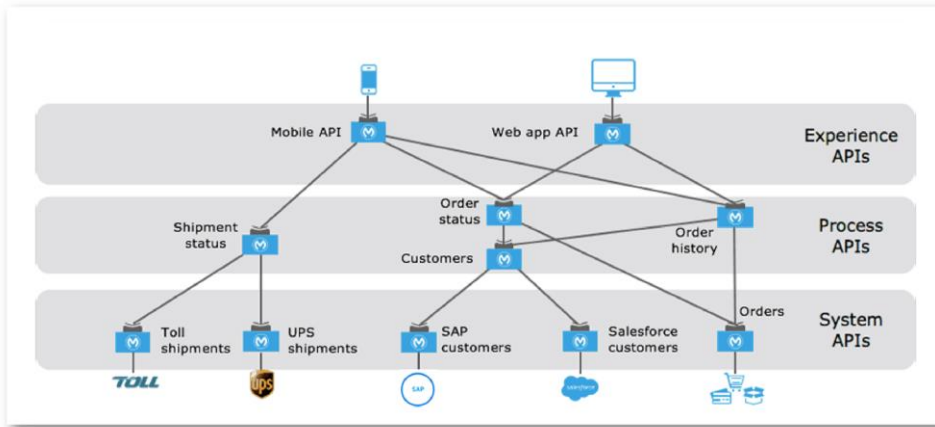
ANGIE RODRÍGUEZ
NICOLÁS RIVAS DÍAZ
JUAN DIEGO QUINTERO
MARIA ALEJANDRA FANDIÑO
ELTHON BRAYAN MARQUEZ
ALEXANDER VICTORIA



Contenidos

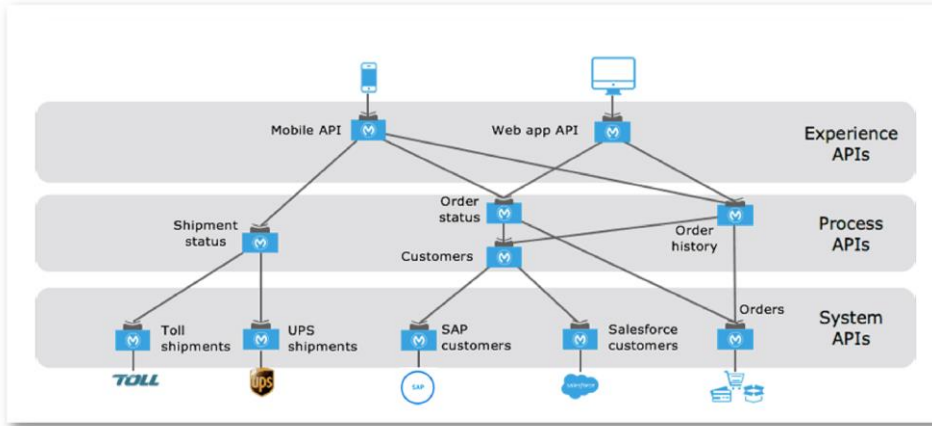
1. Que es, en qué consiste
2. Historia
3. Empresas, como lo utilizan
4. Cómo se ve la plataforma
5. Cómo recibe los datos - funciones
6. Ventajas y desventajas

¿Qué es MuleSoft?



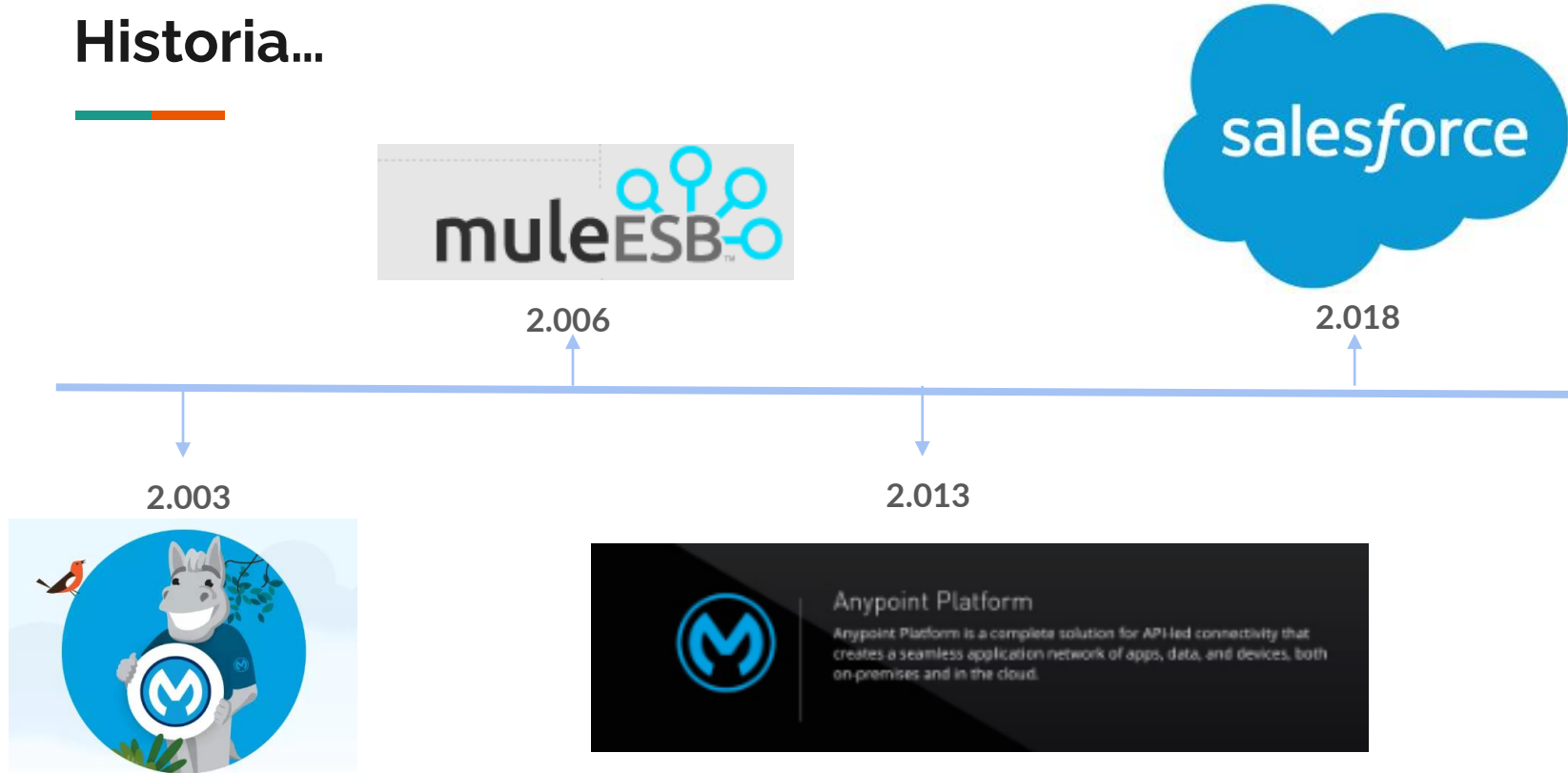
MuleSoft es una plataforma de integración que conecta distintas aplicaciones, sistemas y tecnologías para facilitar el intercambio de datos de manera eficiente y sin complicaciones. En resumen, es como un "conector" que hace que las diferentes partes de un sistema puedan trabajar juntas sin problemas.

En qué consiste MuleSoft



MuleSoft es una plataforma de integración de sistemas que permite la conexión fluida entre aplicaciones, dispositivos y datos, independientemente de su ubicación o formato. Actúa como un facilitador para la comunicación entre diferentes tecnologías, facilitando la automatización de procesos y mejorando la eficiencia en el intercambio de información. Además de la integración, MuleSoft ofrece herramientas para el diseño, construcción y gestión de APIs (Interfaces de Programación de Aplicaciones), lo que brinda flexibilidad y escalabilidad a las arquitecturas empresariales. En esencia, MuleSoft proporciona una solución integral para superar los desafíos de interoperabilidad en entornos tecnológicos complejos.

Historia...



Cómo recibe los datos - funciones

The screenshot displays the MuleSoft Anypoint Studio interface, specifically the REST client configuration and the list of HTTP requests.

REST Client Configuration:

- Method:** GET
- Request URL:** http://localhost:8081/Flights/1
- Headers:** Content-Type: application/json
- Body:** (Empty)
- Buttons:** SEND, DETAILS

HTTP Requests List:

Method	URL	Time
GET	http://localhost:8081/Flights/1	19:40:23
GET	http://localhost:8081/Flights/2	19:40:07
GET	http://localhost:8081/Flights/3	19:38:03
GET	http://localhost:8081/Flights	18:58:10
POST	http://localhost:8081/Flights	18:47:33
GET	http://localhost:8081/Flights	18:07:55

Left Panel (Outline):

- ingenierobinario_training: Mule Configuration
 - ingenierobinario_trainingFlow_POST: Flow
 - Listener: Listener
 - Set Payload: Set Payload
 - ingenierobinario_trainingFlow_GET: Flow
 - ingenierobinario_trainingFlow_GET_ID: Flow

Cómo recibe los datos - funciones

GET

The screenshot displays the MuleSoft IDE interface with the following components:

- Package Explorer:** Shows the project structure for `ingenierobinario_training`, including `src/main/mule` (Flows), `src/main/java`, `src/main/resources`, `src/test/java`, `src/test/resources`, `src/test/munit`, `Database [v1.8.1]`, `HTTP [v1.5.19]`, `JRE System Library [org.mule.tooling.jdk.win32.x86_64_1.0.0.2]`, `Mule Server 4.3.0 EE`, `Project Libraries`, `Sockets [v1.2.0]`, `src`, `target`, `mule-artifact.json`, and `pom.xml [Mule Server 4.3.0 EE]`.
- Message Flow Diagram:** A flow named `ingenierobinario_trainingFlow` is shown. It starts with a `Listener` connector, followed by a `Select Flights` message processor, then a `Transform Message` processor, and finally a `Logger` connector. An `Error handling` section below the flow shows `On Error Propagate`.
- Mule Palette:** Located on the right, it contains a search bar and a list of connectors and processors: `Basic security filter`, `Listener`, `Add Modules`, `Load static resource`, `Favorites`, `Core`, `Database`, `HTTP`, and `Sockets`.
- Outline:** A panel on the left showing the project structure, with a search bar and a list of elements: `ingenierobinario_training`, `ingenierobinario_trainingFlow`, `Listener`, `Select Flights`, `Transform Message`, `Logger`, and `On Error Propagate`.
- Listener Configuration:** A panel on the right showing the configuration for the `Listener` connector. It includes a `General` tab with fields for `Allowed methods` (set to `GET`), `Response streaming mode` (set to `AUTO (Default)`), and `Streaming strategy` (set to `Repeatable file store stream (Default)`). It also has an `Advanced` tab with fields for `In memory size` (set to `512`) and `Buffer unit` (set to `KB (Default)`). A `Connection` tab at the bottom shows `Reconnection strategy` set to `None`.
- Problems and Console:** Two panels at the bottom showing no errors or messages.
- Input/Output:** A panel on the right showing the input and output of the flow, with a search bar and a list of elements: `Input`, `Output`, `Mule Message`, `Payload`, `Attributes`, and `Variables`.

Cómo recibe los datos - funciones

GET flights por
ID #3

The screenshot displays the MuleSoft Studio interface with the Advanced REST client window open. The request is a GET to `http://localhost:8081/Flights/3`, which returned a `200 OK` status. The response body is a JSON object representing a flight record.

ID	code	price	departureDate	origin	destination	emptySeats	plane
1	rree	\$41	2016-01-20T01:00:00	MUA	LAX	0	Boe 787

Below the table, the `totalSeats` field is shown as `totalSeats`.

The background shows the MuleSoft Studio workspace with the `ingenierobinario_training` project. The `ingenierobinario_trainingFlow_GET_ID` flow is selected, showing a `Listener` component followed by a `Select Flights` component. The `Outline` pane on the left lists the components: `Listener`, `Select Flights`, `Transform Message`, `Logger`, and `On Error Propagate`.

Cómo recibe los datos - funciones

GET flights por
ID #3 en el
DataSet

The screenshot displays the Apache Mule IDE interface with a flow configuration for 'ingenierobinario_training'. The flow is named 'ingenierobinario_trainingFlow_GET_ID' and consists of the following steps:

- Listener**: The flow starts with a Listener component.
- Select Flights**: A database connector component (highlighted with a blue box) that executes a SQL query to retrieve flight data. The query is:

```
SELECT * FROM american WHERE ID=3
```
- Transform Message**: A component that transforms the data retrieved from the database.
- Logger**: A component that logs the transformed data.

The 'Select Flights' component is configured with the following settings:

- Display Name**: Select Flights
- Connector configuration**: Database_Config
- SQL Query Text**:

```
SELECT * FROM american WHERE ID=3
```
- Input Parameters**: A parameter named 'ID' with a value of '3'.

The 'On Error Propagate' setting is set to 'On Error Propagate'.

The 'Mule Palette' on the right shows the available components, including 'Listener', 'Database', 'HTTP', and 'Sockets'. The 'Outline' on the left shows the project structure, including the 'ingenierobinario_training' project and its 'Flow' elements.

Cómo recibe los datos - funciones

GET flights por
ID en el DataSet
entre la variable

The screenshot displays the Anypoint Studio interface with a Mule flow configuration. The main canvas shows a flow named `ingenierobinario_training` with a `Listener` connector, a `Select Flights` connector, a `Transform Message` connector, and a `Logger` connector. Below this, a sub-flow named `ingenierobinario_trainingFlow_GET_ID` is shown, which also includes a `Listener`, `Select Flights`, `Transform Message`, and `Logger` connector. The `Select Flights` connector is highlighted, and its configuration is shown in the bottom panel. The configuration includes a `Connector configuration` of `Database_Config`, a `SQL Query Text` of `SELECT * FROM american WHERE ID = :ID`, and an `Input Parameters` section with a parameter `1` of type `uriParams.ID`. The `Outline` panel on the left shows the project structure, and the `Mule Palette` on the right lists available connectors. The `Console` panel at the bottom shows a message: "There are no errors."

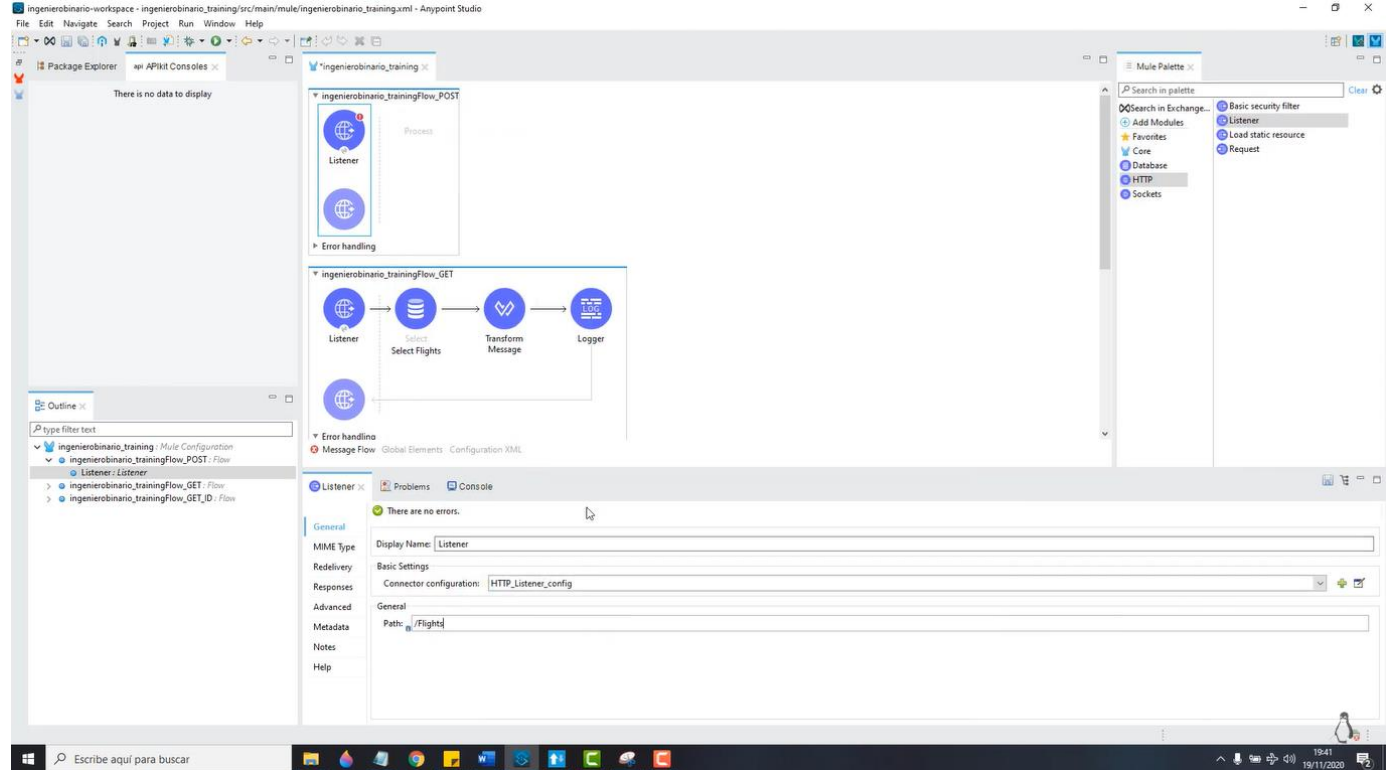
Cómo recibe los datos - funciones

POST

The screenshot displays the Anypoint Studio interface with a Mule flow configuration. The main canvas shows a flow named `ingenierobinario_trainingFlow` with a `Listener` component. Below it, a sub-flow named `ingenierobinario_trainingFlow_GET` is expanded, showing a sequence of components: `Listener`, `Select` (with the message `Select Flights`), `Transform Message`, and `Logger`. The `Listener` component in the sub-flow is highlighted, and its configuration panel is open at the bottom. The configuration panel shows the `Display Name` as `Listener`, the `Connector configuration` as `HTTP_Listener_config`, and the `Path` field is empty. A red error message at the top of the configuration panel states: "Attribute 'path' is required". The right sidebar shows the `Mule Palette` with various components like `Basic security filter`, `Listener`, `Load static resource`, and `Request`. The bottom status bar shows the date `19/11/2020` and the time `19:40`.

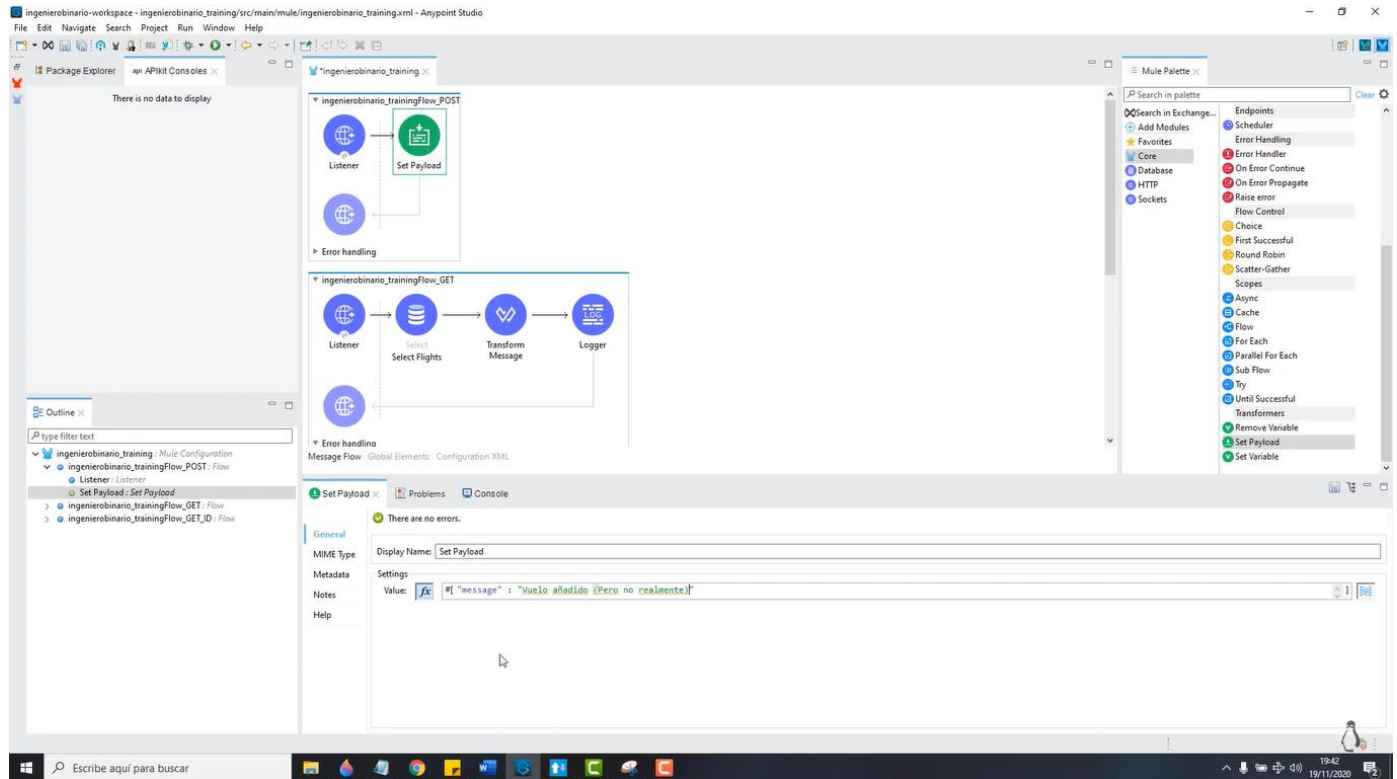
Cómo recibe los datos - funciones

Poner el el path
la base 'flights' y
en el advanced
el comando
POST



Cómo recibe los datos - funciones

Mensaje en valores con el comando POST y revisar en la consola



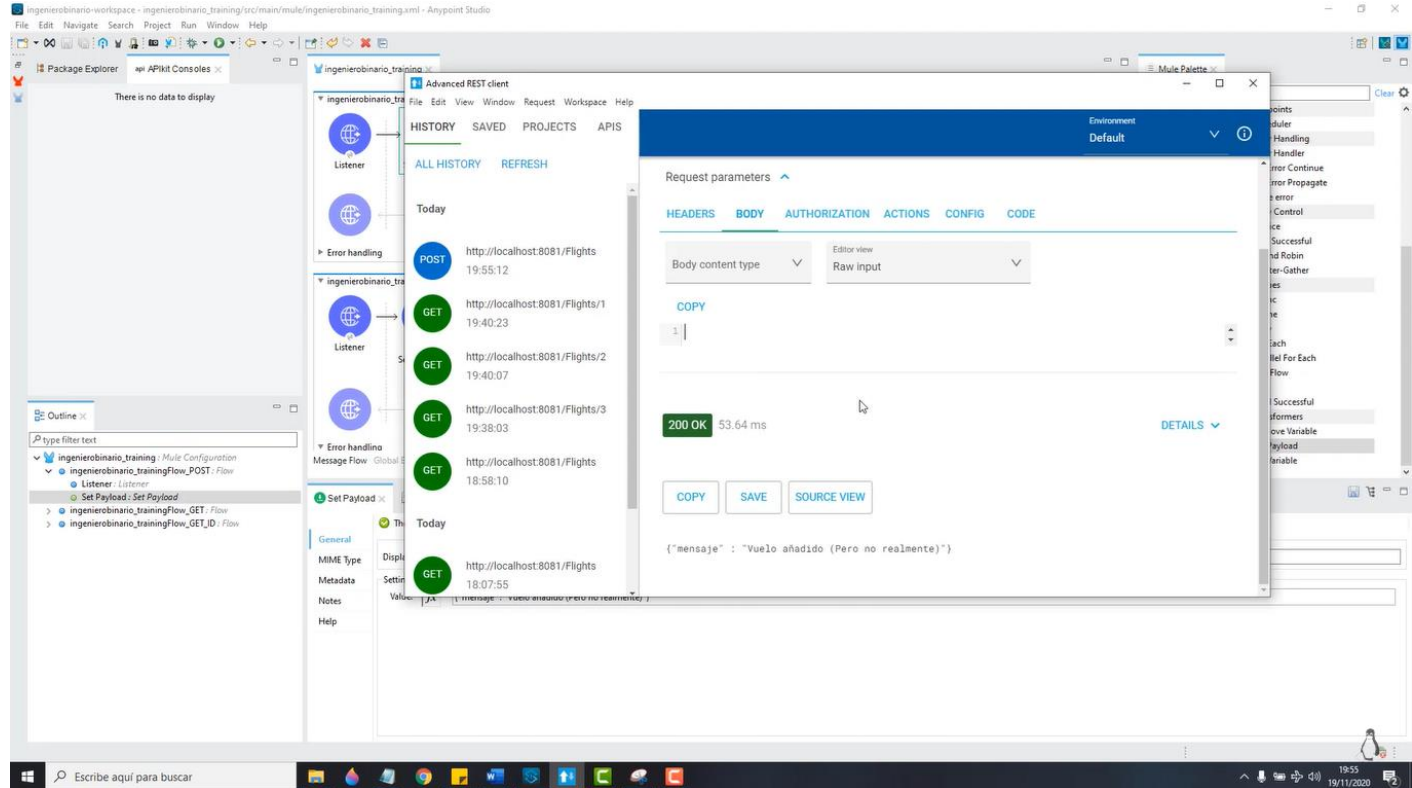
The screenshot displays the Anypoint Studio interface with two Mule flows defined in the central canvas:

- ingenierobinario_trainingFlow_POST:** This flow starts with a **Listener** connector, followed by a **Set Payload** connector.
- ingenierobinario_trainingFlow_GET:** This flow starts with a **Listener** connector, followed by a **Select** connector (labeled "Select Flights"), then a **Transform Message** connector, and finally a **Logger** connector.

The bottom pane shows the configuration for the **Set Payload** connector. The **Value** field is set to a Jython script: `#['message' : 'Vuelo añadido (Pero no realmente)']`. The **Problems** and **Console** tabs at the bottom indicate "There are no errors."

Cómo recibe los datos - funciones

Poner el path
la base 'flights' y
en el advanced
el comando
POST



Como se ve

The screenshot displays the MuleSoft Anypoint Platform dashboard. At the top, a dark navigation bar contains the 'Anypoint Platform' logo on the left, a green notification box stating 'Your email address was verified.' in the center, and 'UCENTRAL', a help icon, and a user profile icon labeled 'AV' on the right. Below the navigation bar is a large dark blue hero section with the text 'Good evening, Alexander!' and 'Welcome to the #1 platform for APIs and integrations'. To the right of this text is an abstract graphic of blue circles and lines. The main content area is divided into two columns. The left column features three large cards: 'Anypoint Code Builder' (marked as BETA) with a 'Get Started' button, 'Design Center' with a 'Start Designing' button, and 'Exchange' with a 'Discover & Share' button. The right column features a 'Management Center' section with a list of tools: 'Access Management', 'API Manager', 'Runtime Manager', 'API Governance', 'Visualizer', 'Monitoring', and 'Secrets Manager', each with a brief description and a right-pointing arrow.

Anypoint Platform

Your email address was verified. ✕

UCENTRAL ? AV

Good evening, Alexander!

Welcome to the #1 platform for APIs and integrations

Anypoint Code Builder BETA

Design, develop, and deploy APIs and integrations.

Get Started

Design Center

Get started creating Mule applications and APIs. Create visual flows, and build, test, and reuse API specifications and fragments.

Start Designing

Exchange

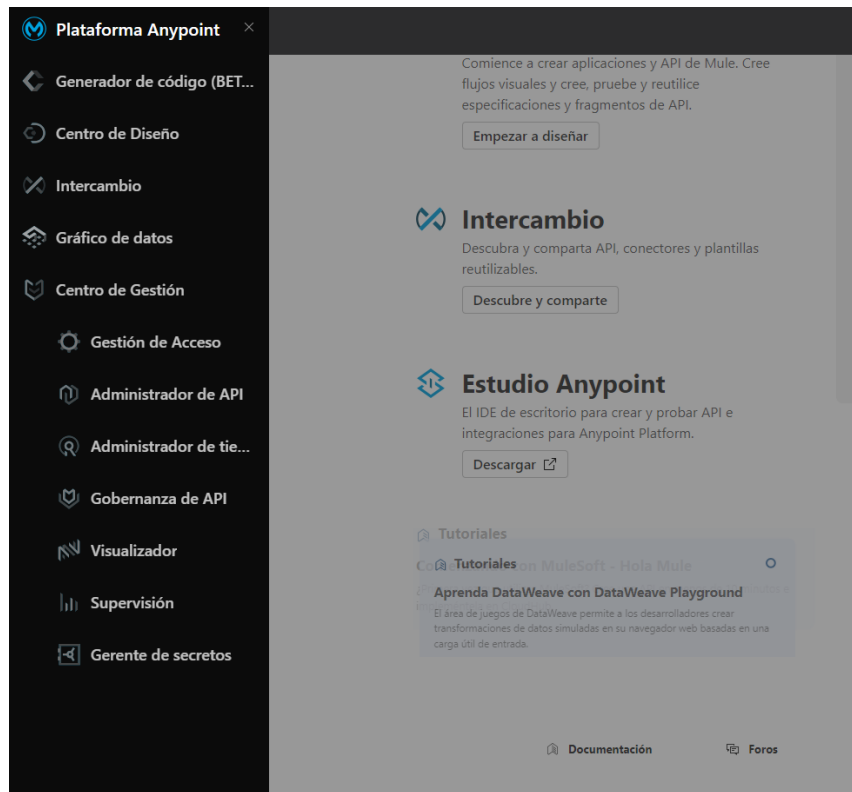
Discover and share reusable APIs, connectors, and templates.

Discover & Share



Management Center

- Access Management**
Manage users, business groups, and audit logs. →
- API Manager**
Manage clients, policies, SLAs, traffic, and alerts. →
- Runtime Manager**
Deploy, manage, and monitor deployed applications. →
- API Governance**
Govern and monitor API conformance. →
- Visualizer**
Visualize your Application Network. →
- Monitoring**
Create alerts for and troubleshoot applications. →
- Secrets Manager**

Como se ve



Como se ve

 Gráfico de datos





 UCENTRAL   AV

Gráfico de datos
unificados
Salvadera

Haga clic aquí para acceder a recursos para trabajar con DataGraph



¡Empiece a construir su esquema unificado!

Antes de que podamos crear su esquema unificado, ¡primero necesitaremos agregar una API!

[+ Agregar API](#)

Guía de inicio rápido de DataGraph

¿Quieres sumergirte de lleno? Eche un vistazo a nuestra guía de inicio rápido.

Tutorial de gráficos de datos

Explore nuestro tutorial de DataGraph para obtener un tutorial detallado paso a paso.

Conceptos fundamentales de DataGraph

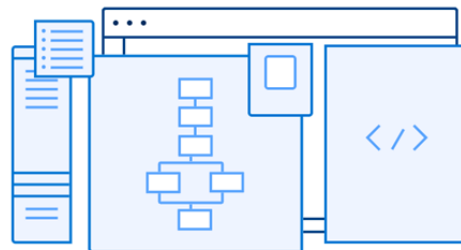
Información detallada que cubre todos los aspectos de Anypoint DataGraph

Como se ve



Cree sus API e integraciones desde un solo lugar.

Anypoint Code Builder es el IDE de Anypoint Platform para diseñar, implementar e implementar API e integraciones.



Obtenga el generador de código Anypoint



Generador de código Anypoint

Acceda a sus proyectos desde su IDE en la nube en cualquier momento y lugar.

Lanzamiento



Generador de código Anypoint para escritorio

Instale las extensiones de Anypoint Code Builder en su Visual Studio Code local para crear API e integraciones localmente.

Instalar

Todas las herramientas que necesitas

 **Tu opinión importa**
Ayúdanos a mejorar Anypoint Code Builder. Envíe sus comentarios a través de [GitHub](#). ¡Gracias!

Empresas que lo usan



AT&T connects 50+ systems, saves 2 million work hours annually, and accelerates time to market by 8x – all enabled by API-led connectivity



Bayer Crop Science doubles product development speed, increases speed to market by 5X, and reduces process functions by 70%, with API-led integrations

AIRBUS

Airbus unlocks backend systems at lightning speed and delivers mobile apps that improve manufacturing efficiency.

Unilever

Unilever unifies the eCommerce experience across their portfolio of brands with reusable services – launching new digital initiatives 3-4x faster.

SIEMENS

Siemens launches 60M smart meters with APIs – integrating systems and exposing energy consumption data in real-time.

Ventajas y Desventajas

Ventajas



Integración sin código



Conectividad universal



Escalabilidad



Gestión de API



Monitorización y análisis



Desventajas



Costo



Curva de aprendizaje



Complejidad en proyectos grandes



Dependencia de proveedor



Requisitos de hardware