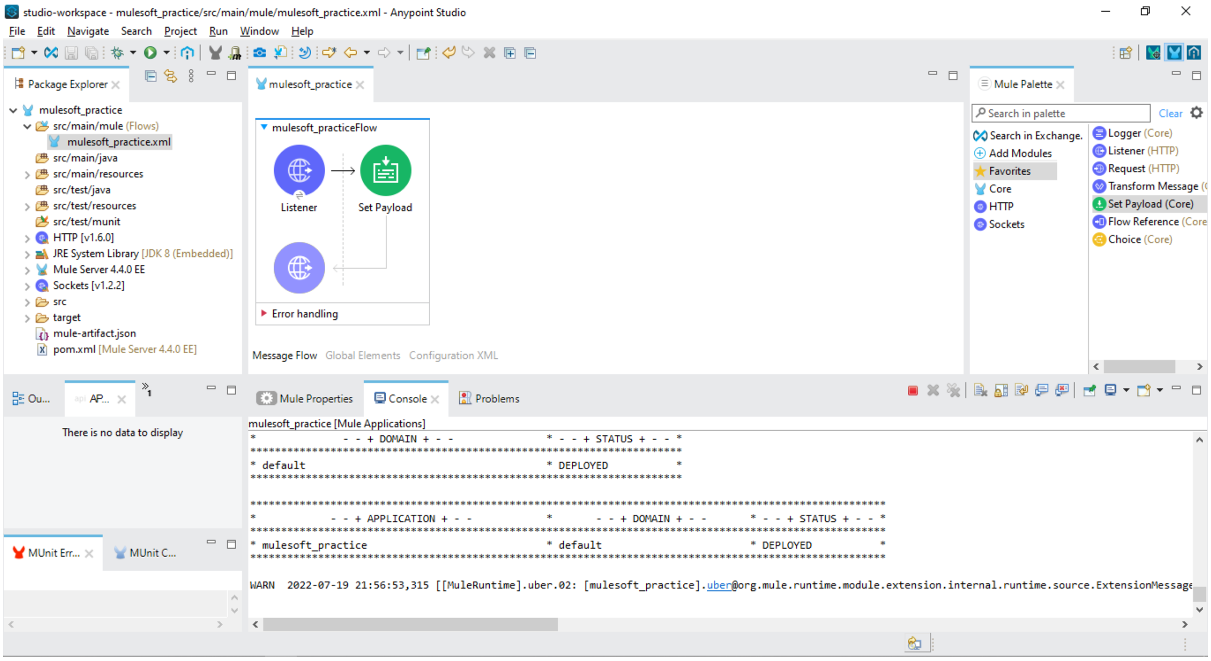
Práctica MuleSoft

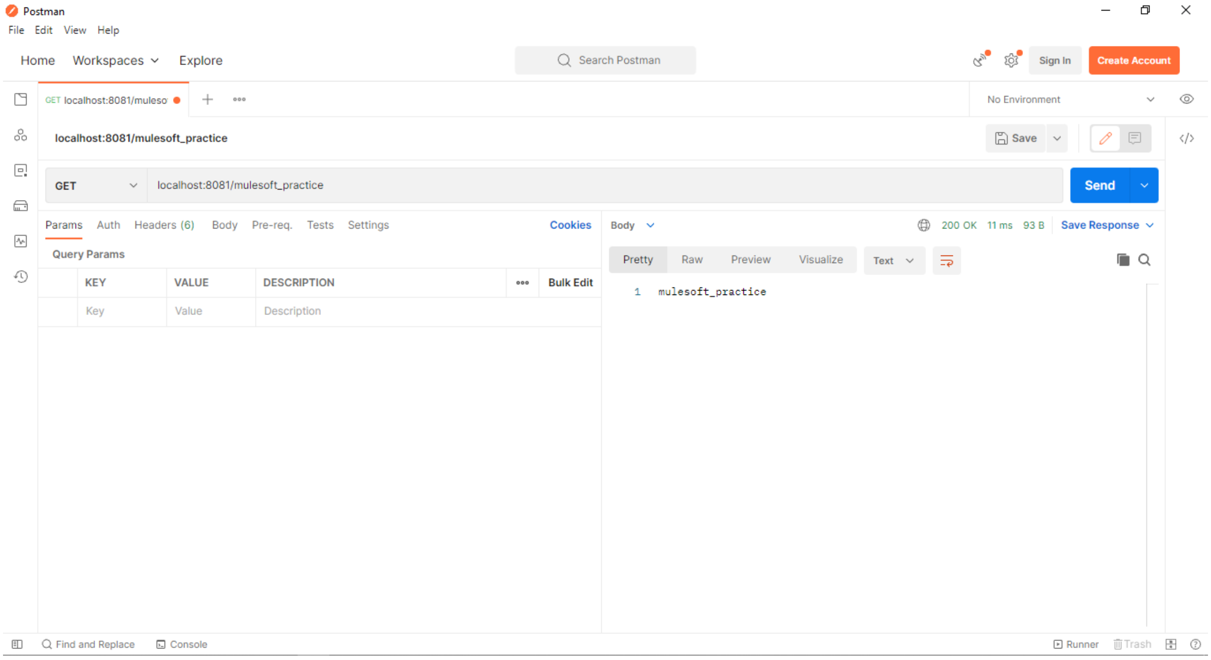
1. First app deployed



mulesoft_practice [Mule Applications]

```
*              - - + DOMAIN + - -               * - - + STATUS + - - *
**********************************************************************
* default                                       * DEPLOYED           *
**********************************************************************

*******************************************************************************************************
*            - - + APPLICATION + - -            *       - - + DOMAIN + - -       * - - + STATUS + - - *
*******************************************************************************************************
* mulesoft_practice                             * default                        * DEPLOYED           *
*******************************************************************************************************

WARN  2022-07-19 21:56:53,315 [[MuleRuntime].uber.02: [mulesoft_practice].uber@org.mule.runtime.module.extension.internal.runtime.source.ExtensionMessage
```

First request and respond on Postman.



GET localhost:8081/muleso

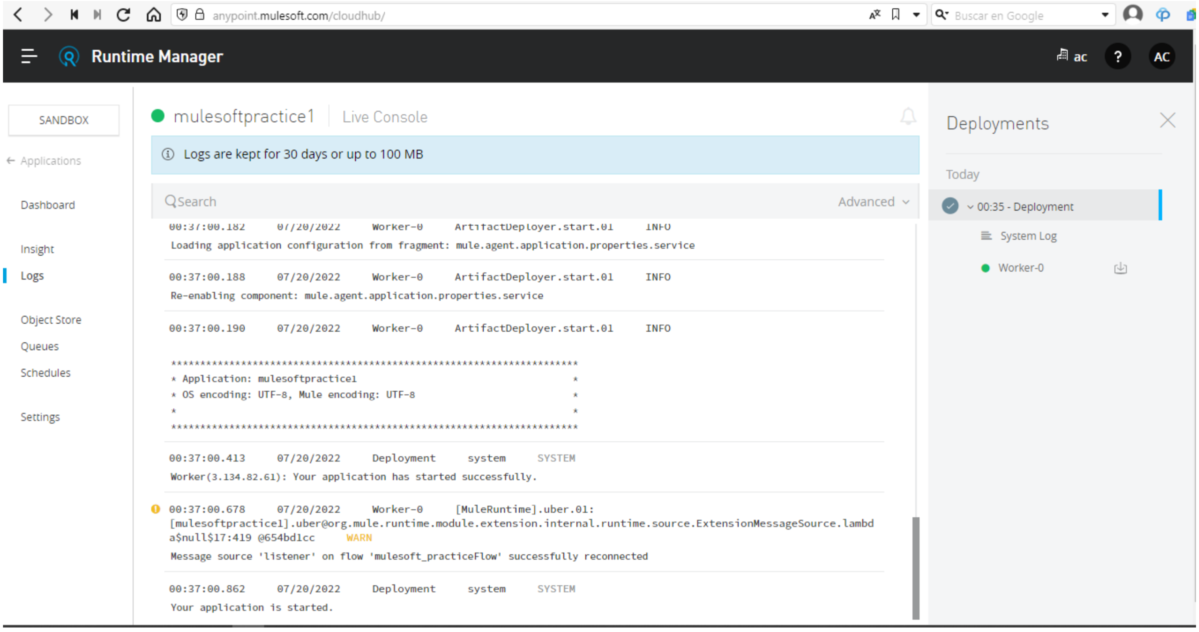
localhost:8081/mulesoft_practice

GET localhost:8081/mulesoft_practice

200 OK 11 ms 93 B

```
mulesoft_practice
```

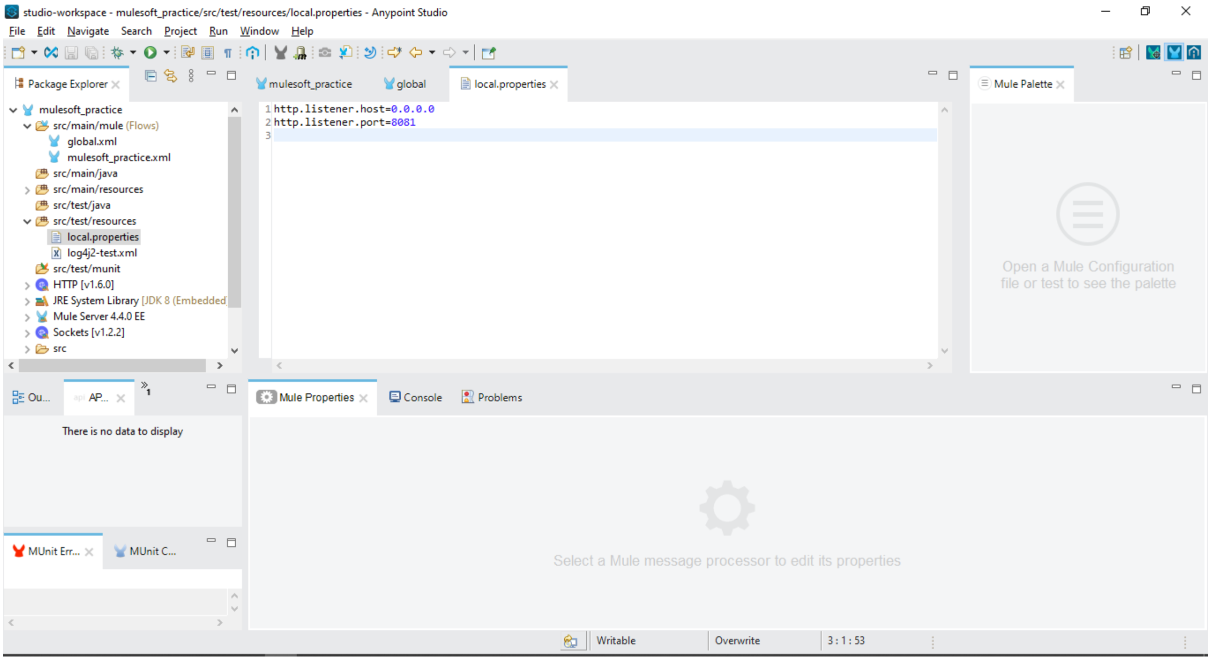
App logs



Logs are kept for 30 days or up to 100 MB

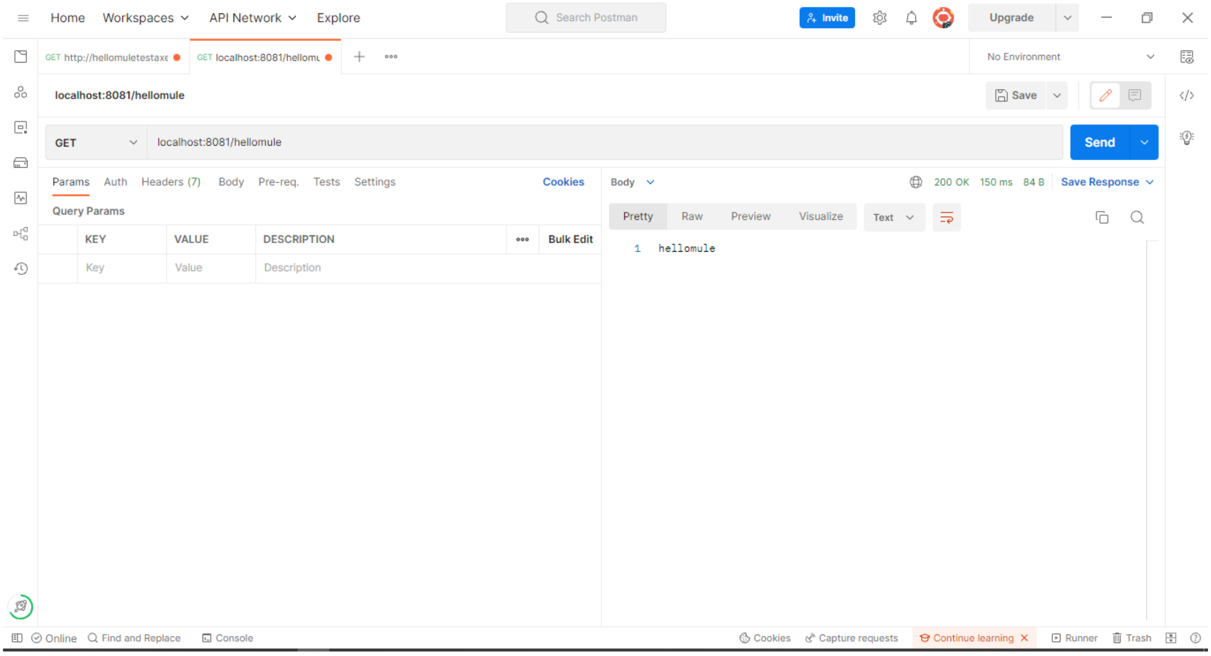
```
00:37:00.182     07/20/2022     Worker-0     ArtifactDeployer.start.01     INFO
Loading application configuration from fragment: mule.agent.application.properties.service

00:37:00.188     07/20/2022     Worker-0     ArtifactDeployer.start.01     INFO
Re-enabling component: mule.agent.application.properties.service

00:37:00.190     07/20/2022     Worker-0     ArtifactDeployer.start.01     INFO

**********************************************************************
* Application: mulesoftpractice1                                     *
* OS encoding: UTF-8, Mule encoding: UTF-8                           *
*                                                                    *
**********************************************************************

00:37:00.413     07/20/2022     Deployment     system     SYSTEM
Worker(3.134.82.61): Your application has started successfully.

00:37:00.678     07/20/2022     Worker-0     [MuleRuntime].uber.01:
[mulesoftpractice1].uber@org.mule.runtime.module.extension.internal.runtime.source.ExtensionMessageSource.lambd
a$null$17:419 @654bd1cc     WARN
Message source 'listener' on flow 'mulesoft_practiceFlow' successfully reconnected

00:37:00.862     07/20/2022     Deployment     system     SYSTEM
Your application is started.
```

Local properties created



```
http.listener.host=0.0.0.0
http.listener.port=8081
```

Local request on Postman



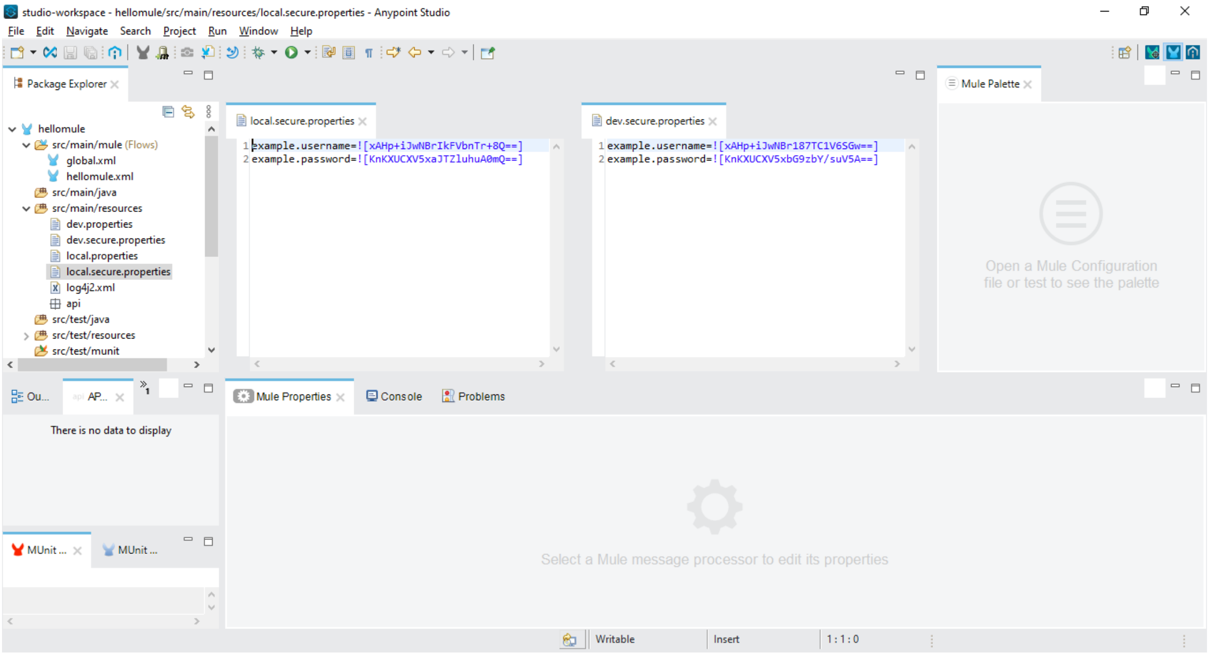
localhost:8081/hellomule

GET localhost:8081/hellomule

200 OK 150 ms 84 B

```
1 hellomule
```

Encrypted Properties created



studio-workspace - hellomule/src/main/resources/local.secure.properties - Anypoint Studio

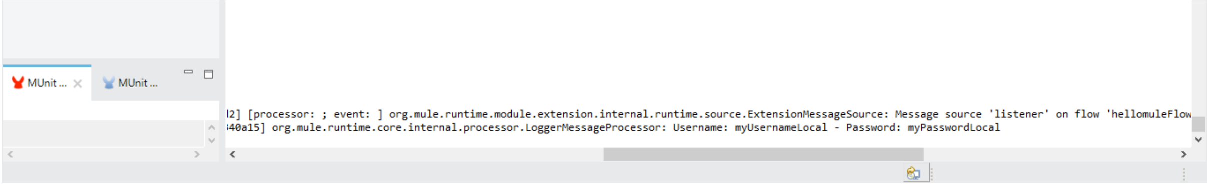
local.secure.properties

```
example.username=![xAHp+iJwNBrIkFVbnTr+8Q==]
example.password=![KnKXUCXV5xaJTZluhuA0mQ==]
```

dev.secure.properties

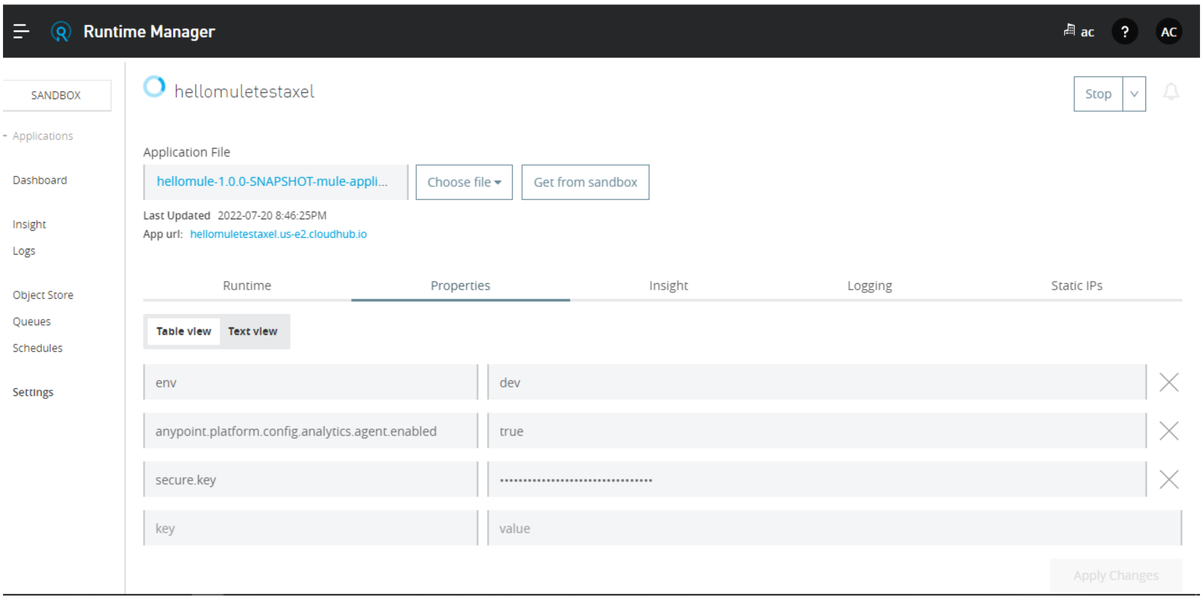
```
example.username=![xAHp+iJwNBr187TC1V6SGw==]
example.password=![KnKXUCXV5xbG9zbY/suV5A==]
```

Username and password info on logs.



```
l2] [processor: ; event: ] org.mule.runtime.module.extension.internal.runtime.source.ExtensionMessageSource: Message source 'listener' on flow 'hellomuleFlow
340a15] org.mule.runtime.core.internal.processor.LoggerMessageProcessor: Username: myUsernameLocal - Password: myPasswordLocal
```

Secure key Hidden on deploy



hellomuletestaxel

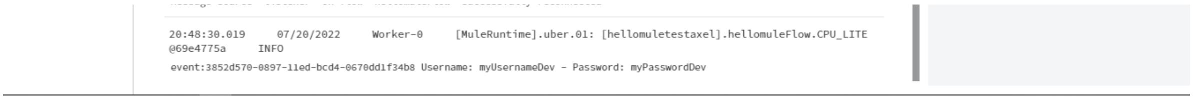
Application File: hellomule-1.0.0-SNAPSHOT-mule-appli...

Last Updated 2022-07-20 8:46:25PM

App url: hellomuletestaxel.us-e2.cloudhub.io

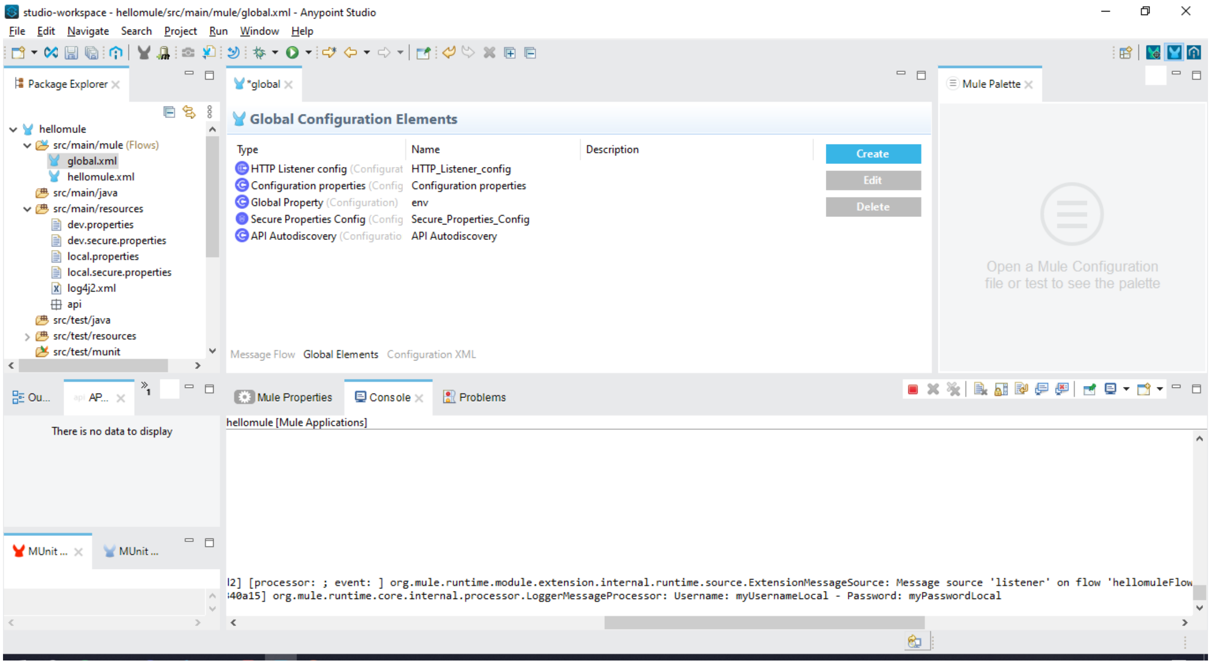
env	dev
anypoint.platform.config.analytics.agent.enabled	true
secure.key	••••••••••••••••••••••••••••••••••
key	value

Getting the logs of username and password



```
20:48:30.019     07/20/2022     Worker-0     [MuleRuntime].uber.01: [hellomuletestaxel].hellomuleFlow.CPU_LITE
@69e4775a     INFO
event:3852d570-0897-11ed-bcd4-0670dd1f34b8 Username: myUsernameDev - Password: myPasswordDev
```

Created global config api



studio-workspace - hellomule/src/main/mule/global.xml - Anypoint Studio

File Edit Navigate Search Project Run Window Help
Package Explorer
Mule Palette
Open a Mule Configuration file or test to see the palette

hellomule
src/main/mule (Flows)
global.xml
hellomule.xml
src/main/java
src/main/resources
dev.properties
dev.secure.properties
local.properties
local.secure.properties
log4j2.xml
api
src/test/java
src/test/resources
src/test/munit

*global

Global Configuration Elements

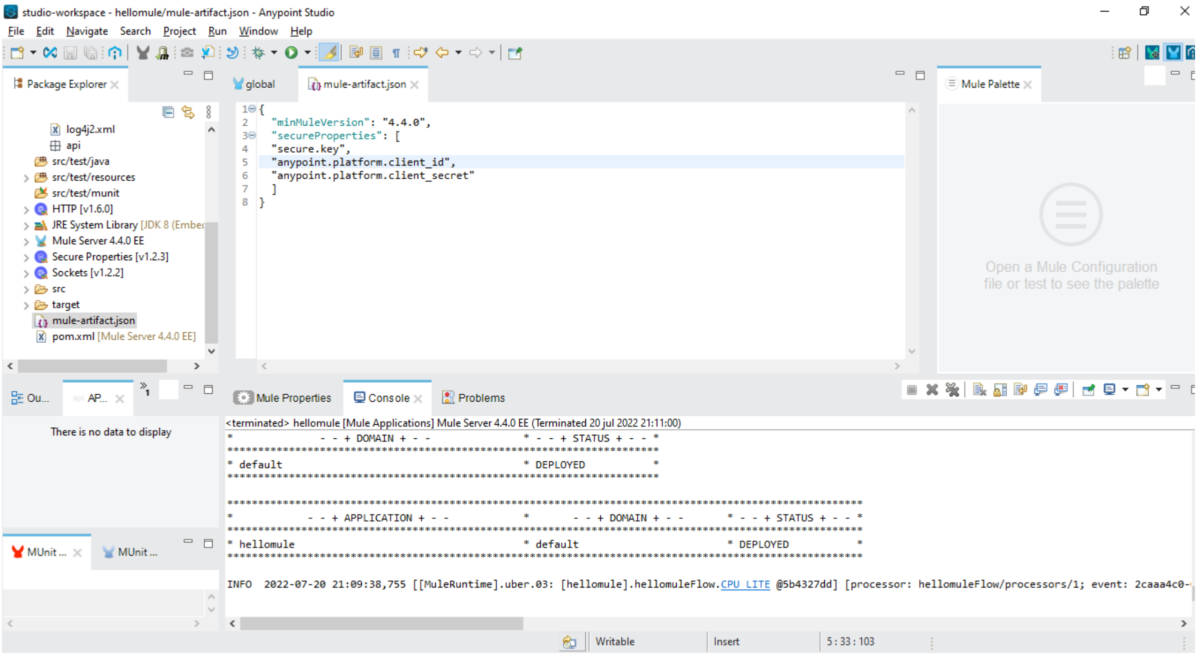
Type	Name	Description
HTTP Listener config (Configurat	HTTP_Listener_config	
Configuration properties (Config	Configuration properties	
Global Property (Configuration)	env	
Secure Properties Config (Config	Secure_Properties_Config	
API Autodiscovery (Configuratio	API Autodiscovery	

There is no data to display

hellomule [Mule Applications]

```
l2] [processor: ; event: ] org.mule.runtime.module.extension.internal.runtime.source.ExtensionMessageSource: Message source 'listener' on flow 'hellomuleFlow
:40a15] org.mule.runtime.core.internal.processor.LoggerMessageProcessor: Username: myUsernameLocal - Password: myPasswordLocal
```

Hidden client id and client secret



studio-workspace - hellomule/mule-artifact.json - Anypoint Studio

File Edit Navigate Search Project Run Window Help
Package Explorer
global
mule-artifact.json
Mule Palette
Open a Mule Configuration file or test to see the palette

log4j2.xml
api
src/test/java
src/test/resources
src/test/munit
HTTP [v1.6.0]
JRE System Library [JDK 8 (Embe
Mule Server 4.4.0 EE
Secure Properties [v1.2.3]
Sockets [v1.2.2]
src
target
mule-artifact.json
pom.xml [Mule Server 4.4.0 EE]

```
{
  "minMuleVersion": "4.4.0",
  "secureProperties": [
  "secure.key",
  "anypoint.platform.client_id",
  "anypoint.platform.client_secret"
  ]
}
```

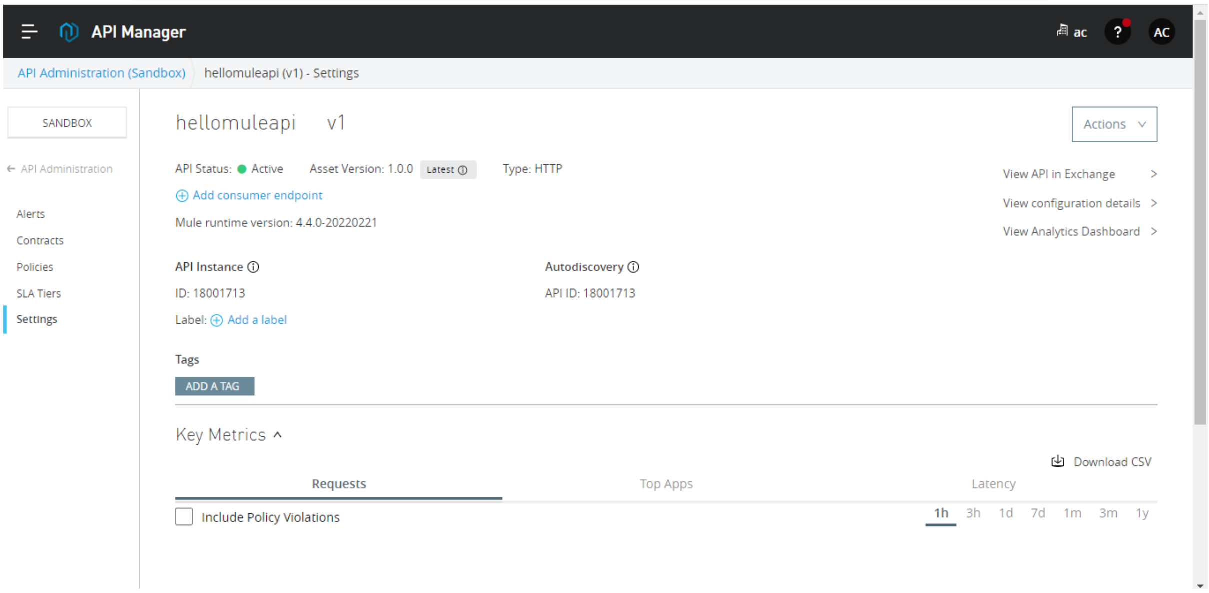
There is no data to display

<terminated> hellomule [Mule Applications] Mule Server 4.4.0 EE (Terminated 20 jul 2022 21:11:00)

```
*              - - + DOMAIN + - -               * - - - + STATUS + - - *
************************************************************************
* default                                       * DEPLOYED             *
************************************************************************

*********************************************************************************************************
*            - - + APPLICATION + - -            *       - - + DOMAIN + - -       * - - - + STATUS + - - *
*********************************************************************************************************
* hellomule                                     * default                        * DEPLOYED             *
*********************************************************************************************************

INFO  2022-07-20 21:09:38,755 [[MuleRuntime].uber.03: [hellomule].hellomuleFlow.CPU_LITE @5b4327dd] [processor: hellomuleFlow/processors/1; event: 2caaa4c0-
```

Writable   Insert   5 : 33 : 103

Active API



API Administration (Sandbox) › hellomuleapi (v1) - Settings

hellomuleapi v1

API Status: ● Active Asset Version: 1.0.0 Latest ⓘ Type: HTTP

⊕ Add consumer endpoint

Mule runtime version: 4.4.0-20220221

View API in Exchange >

View configuration details >

View Analytics Dashboard >

API Instance ⓘ

ID: 18001713

Label: ⊕ Add a label

Autodiscovery ⓘ

API ID: 18001713

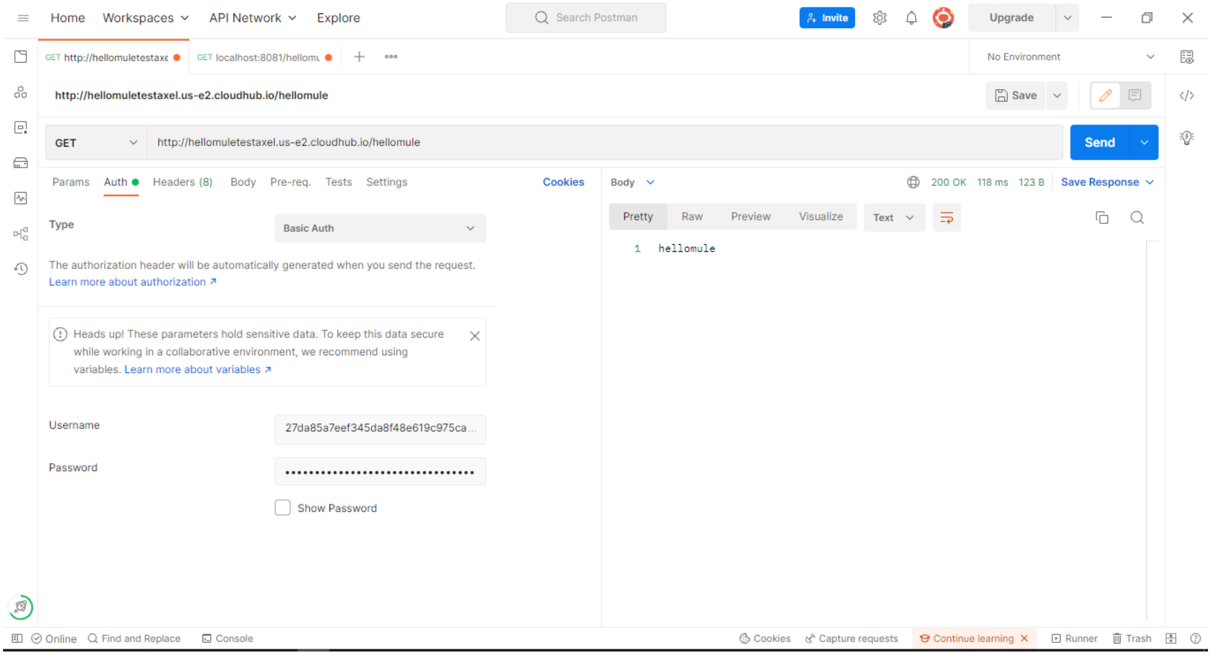
Tags

Key Metrics ^

Requests | Top Apps | Latency

□ Include Policy Violations

Basic Auth on Postman, app working



http://hellomuletestaxel.us-e2.cloudhub.io/hellomule

GET http://hellomuletestaxel.us-e2.cloudhub.io/hellomule

Params Auth ● Headers (8) Body Pre-req. Tests Settings

Type: Basic Auth

The authorization header will be automatically generated when you send the request. Learn more about authorization ↗

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables ↗

Username: 27da85a7eef345da8f48e619c975ca...

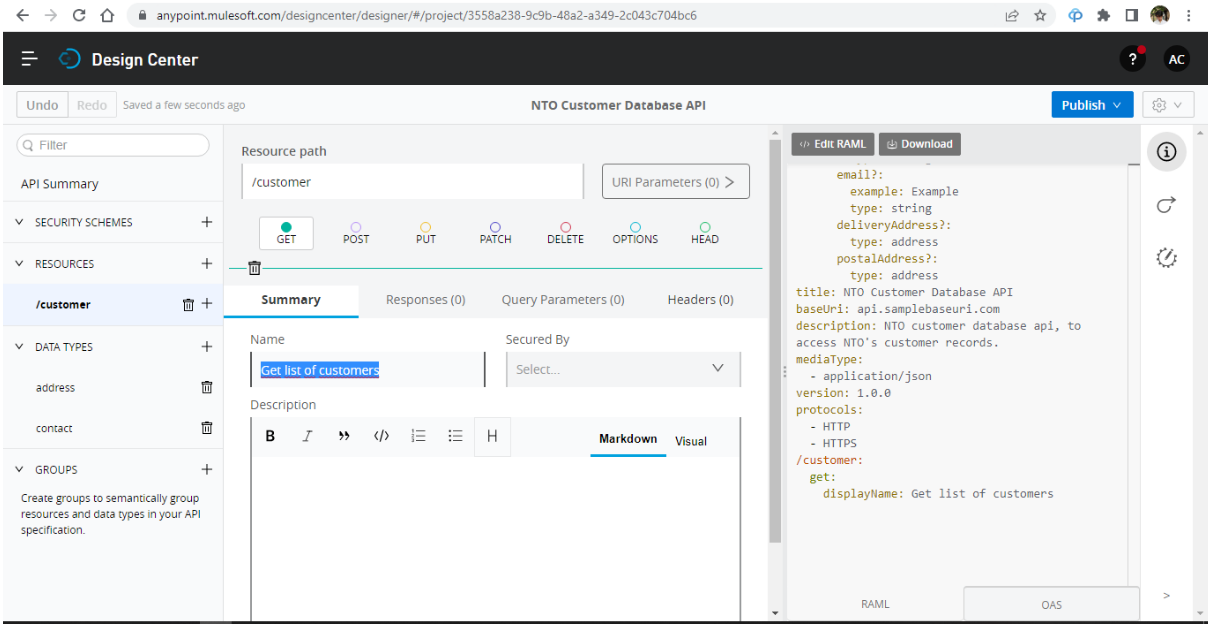
Password: ••••••••••••••••••••••••••••••••

□ Show Password

Body 200 OK 118 ms 123 B

```
1  hellomule
```

Creating GET request



Resource path: /customer

URI Parameters (0)

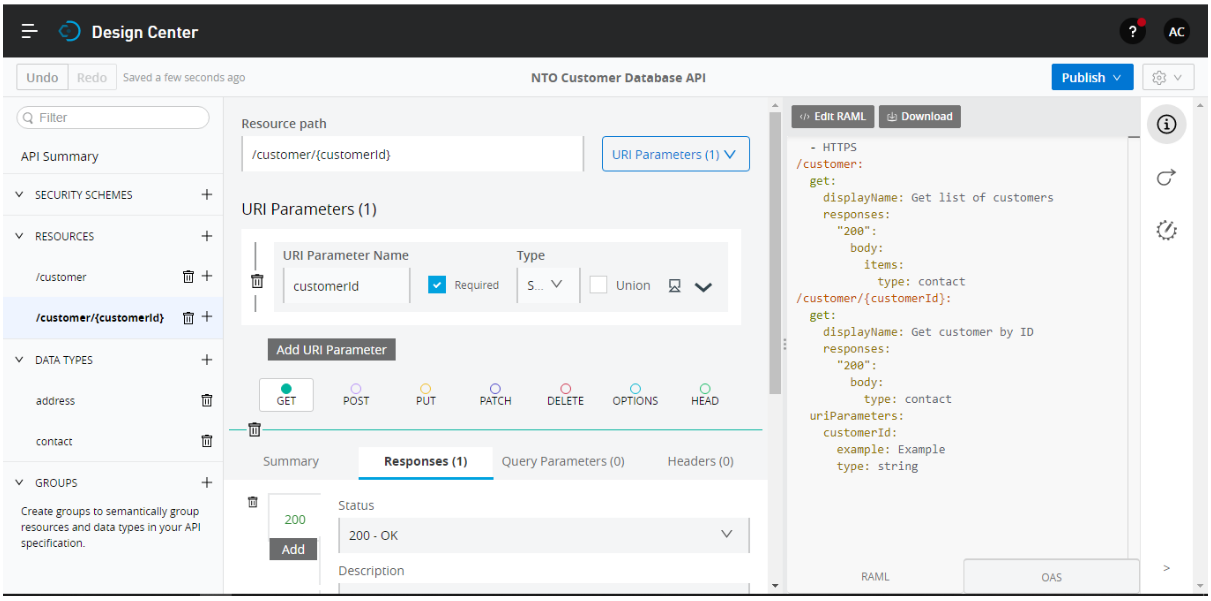
Name: Get list of customers

Secured By: Select...

Description

```
      email?:
        example: Example
        type: string
      deliveryAddress?:
        type: address
      postalAddress?:
        type: address
title: NTO Customer Database API
baseUri: api.samplebaseuri.com
description: NTO customer database api, to
access NTO's customer records.
mediaType:
  - application/json
version: 1.0.0
protocols:
  - HTTP
  - HTTPS
/customer:
  get:
    displayName: Get list of customers
```

Creating GET request for customer id



Resource path: /customer/{customerId}

URI Parameters (1)

URI Parameters (1)

URI Parameter Name		Type	
customerId	☑ Required	S...	□ Union

Add URI Parameter

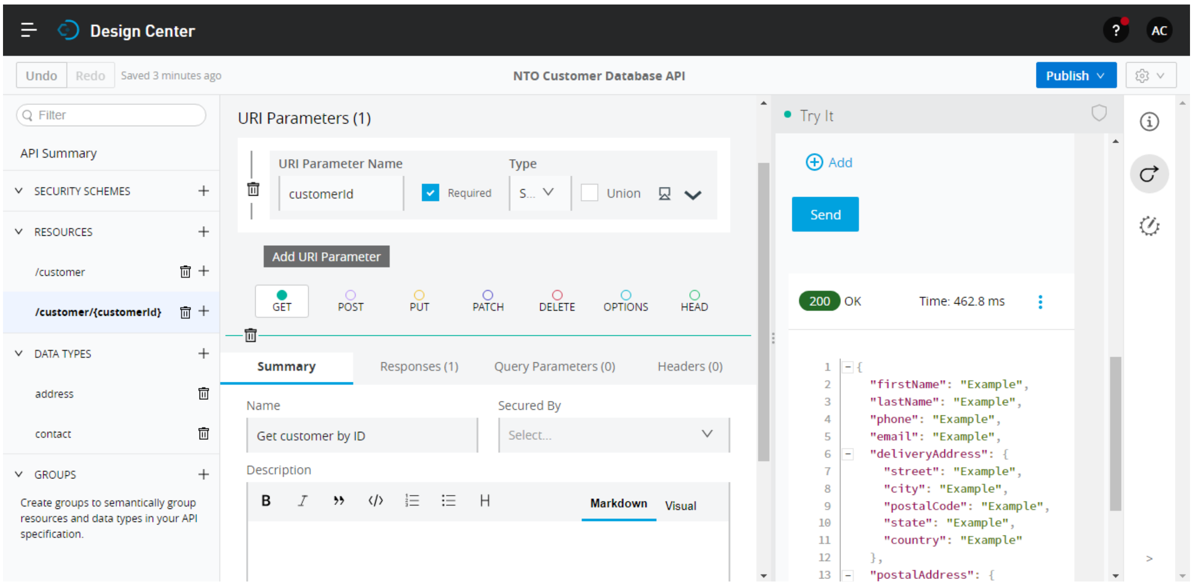
200

Status: 200 - OK

Description

```
  - HTTPS
/customer:
  get:
    displayName: Get list of customers
    responses:
      "200":
        body:
          items:
            type: contact
/customer/{customerId}:
  get:
    displayName: Get customer by ID
    responses:
      "200":
        body:
          type: contact
  uriParameters:
    customerId:
      example: Example
      type: string
```

Testing id request



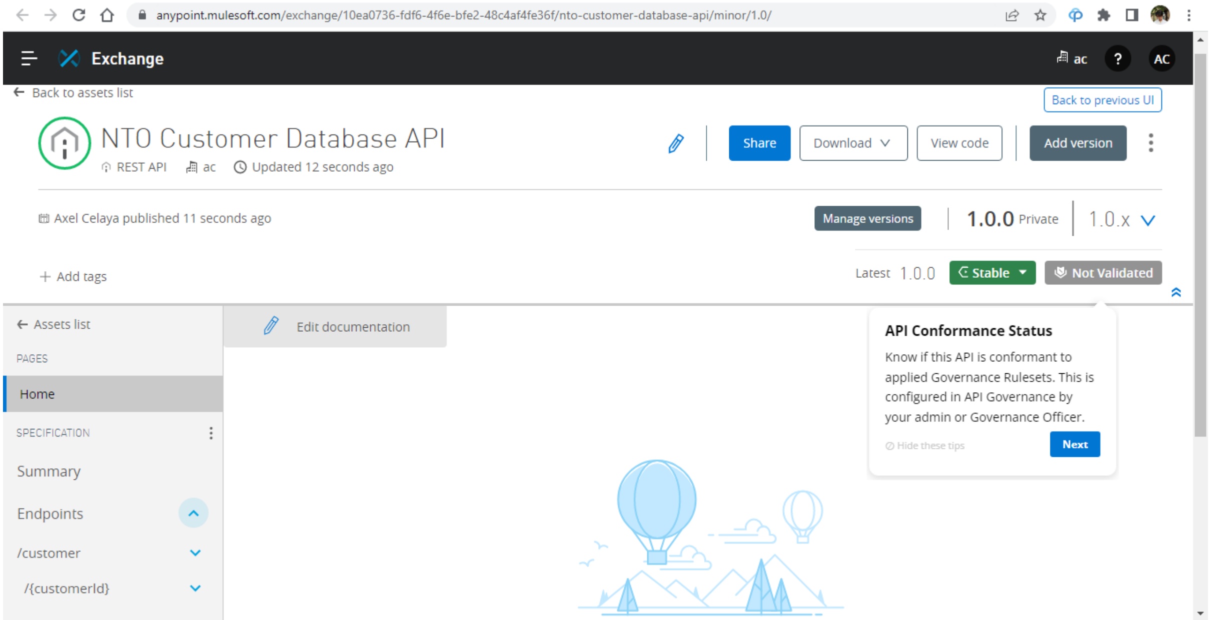
URI Parameter Name: customerId ☑ Required
Type: S... ☐ Union

Name: Get customer by ID
Secured By: Select...
Description:

200 OK Time: 462.8 ms

```
{
  "firstName": "Example",
  "lastName": "Example",
  "phone": "Example",
  "email": "Example",
  "deliveryAddress": {
    "street": "Example",
    "city": "Example",
    "postalCode": "Example",
    "state": "Example",
    "country": "Example"
  },
  "postalAddress": {
```

Public API



NTO Customer Database API
REST API ac Updated 12 seconds ago

Axel Celaya published 11 seconds ago

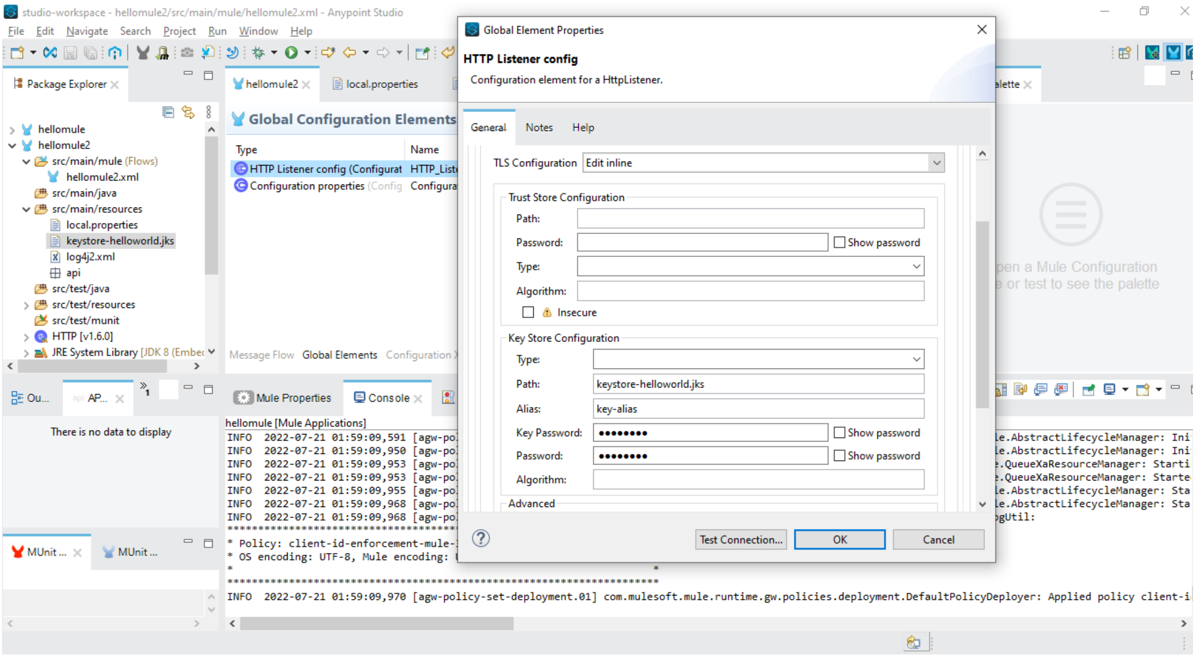
1.0.0 Private 1.0.x

Latest 1.0.0

API Conformance Status

Know if this API is conformant to applied Governance Rulesets. This is configured in API Governance by your admin or Governance Officer.

Https app key located and deployed



Global Element Properties

HTTP Listener config

Configuration element for a HttpListener.

General | Notes | Help

TLS Configuration: Edit inline

Trust Store Configuration

- Path:
- Password: □ Show password
- Type:
- Algorithm:
- □ Insecure

Key Store Configuration

- Type:
- Path: keystore-helloworld.jks
- Alias: key-alias
- Key Password: ●●●●●●●● □ Show password
- Password: ●●●●●●●● □ Show password
- Algorithm:

Advanced

Test Connection... | OK | Cancel

```
hellomule [Mule Applications]
INFO  2022-07-21 01:59:09,591 [agw-po                                                     le.AbstractLifecycleManager: Ini
INFO  2022-07-21 01:59:09,950 [agw-po                                                     le.AbstractLifecycleManager: Ini
INFO  2022-07-21 01:59:09,953 [agw-po                                                     e.QueueXaResourceManager: Starti
INFO  2022-07-21 01:59:09,953 [agw-po                                                     e.QueueXaResourceManager: Starte
INFO  2022-07-21 01:59:09,955 [agw-po                                                     le.AbstractLifecycleManager: Sta
INFO  2022-07-21 01:59:09,968 [agw-po                                                     le.AbstractLifecycleManager: Sta
INFO  2022-07-21 01:59:09,968 [agw-po                                                     ogUtil:
*************************************
* Policy: client-id-enforcement-mule-
* OS encoding: UTF-8, Mule encoding: U
*                                                                      *
***********************************************************************
INFO  2022-07-21 01:59:09,970 [agw-policy-set-deployment.01] com.mulesoft.mule.runtime.gw.policies.deployment.DefaultPolicyDeployer: Applied policy client-i
```