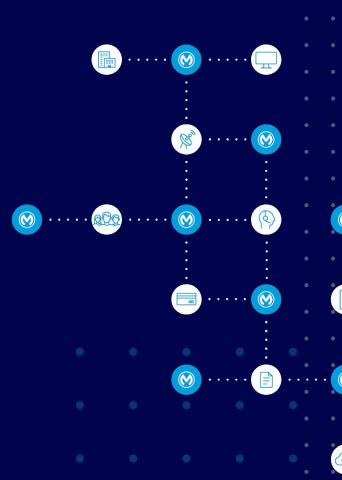


# **Custom Connector**

Friends Of Max



## What is a Connector?

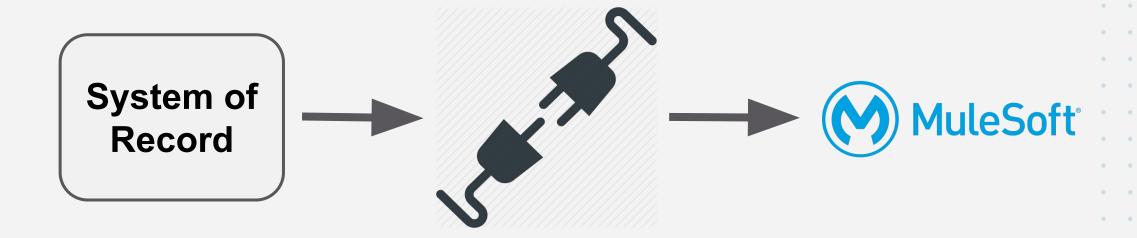




It is an interface that facilitates the connection between a sender & receiver.

#### What is a Connector?





A connector is a software that provides a connection between a Mule flow and an external resource. The resource can be any source of content, such a database, protocol, or API.

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# You want it, we got it!



Microsoft Azure Storage

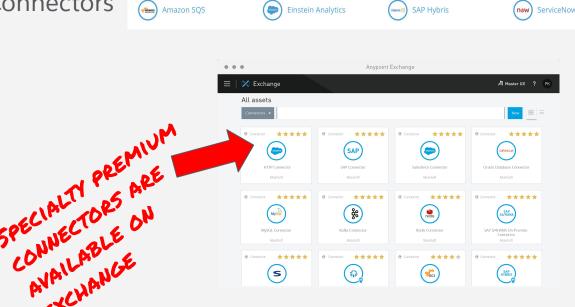
BMC Remedy AR System

( Marketo

Marketing Cloud

Google DoubleClick

- Anypoint connector are reusable components that integrate Mulesoft application with 3rd party SaaS/Non-SaaS/APIs
- 200+ Connectors & Premium Connectors
- Advantage
  - Reduces Complexity
  - Simplifies Authentication
  - Easier Maintenance
  - Easier transformations.



Oracle E-Business Suite

Microsoft Sharepoint

Netsuite

MongoDB

(E) IBM AS/400

Amazon S3

Temenos T24

(B) Twilio

HL7

( Workday

Amazon SNS

MORE THAN 200 CONNECTORS ARE CONNECTORS ARE

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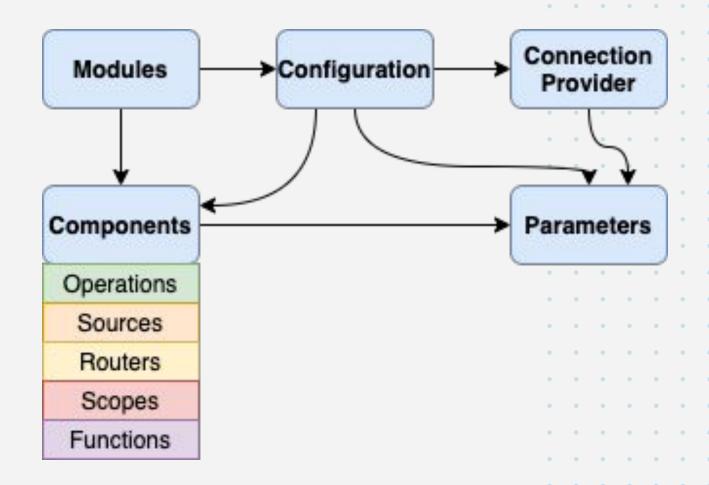
/.

#### Mule 4 SDK

#### **Object Model**

- Components: Given a set of parameters, they can be executed to produce or alter messages in a flow
- 2. **Configuration:** They are set of configurable parameters, that affect the behavior of the module or the connector.
- 3. **Connection Provider:** Interface responsible for creating, disconnection, and describing a connection.
- 4. **Parameters:** They are the most granular elements on the module & are used across the framework





# Steps to build custom connector



Prepare	Design/Develop	Deploy/Install	Share
<ul> <li>Generate         Project             Structure using             Maven         Clean/install             Libraries in local             repository         Import into IDE     </li> </ul>	<ul> <li>Design the flow</li> <li>Use SDK &amp; 3rd party libraries to create the connector</li> </ul>	<ul> <li>Install         Connector in         the local         repository</li> <li>Update POM &amp;         Use Connector         in your         Anypoint         application</li> </ul>	Discover from Exchange

## Prepare

#### Pre-requisites

- 1. Java Development Kit 8 (JDK 8) to compile and build your Java code.
- 2. Apache Maven, version 3.3.9 or higher, to manage your project's build.
- 3. IDE Anypoint Studio or IntelliJ
- 4. Anypoint account credentials

```
| stilwalli -- - zsh -- 80×24 |
| stilwalli -- tm - % java - version |
| openjdk version | 1.8.0_252| |
| OpenJDK Runtime Environment (AdoptOpenJDK) (build 1.8.0_252-b09) |
| OpenJDK 64-Bit Server VM (AdoptOpenJDK) (build 25.252-b09, mixed mode) |
| stilwalliestilwalli-ltm - % |
| stilwalliestilwalli-ltm - zsh -- 80×24 |
| stilwalliestilwalli-ltm - % mvn - version |
| Apache Maven 3.6.3 (cecedd343002696d0abb50b32b541b8a6ba2883f) |
| Maven home: /usr/local/Cellar/maven/3.6.3_1/libexec |
| Java version: 15.0.1, vendor: N/A, runtime: /usr/local/Cellar/openjdk/15.0.1/libexec/openjdk.jdk/Contents/Home |
| Default locale: en_US, platform encoding: UTF-8 |
| OS name: "mac os x", version: "10.15.7", arch: "x86_64", family: "mac" |
| stilwalliestilwalli-ltm - % |
```



# Prepare

#### **Project Setup**



1. Create the project structure using the template given by Mulesoft mvn org.mule.extensions:mule-extensions-archetype-maven-plugin:1.2.0:generate

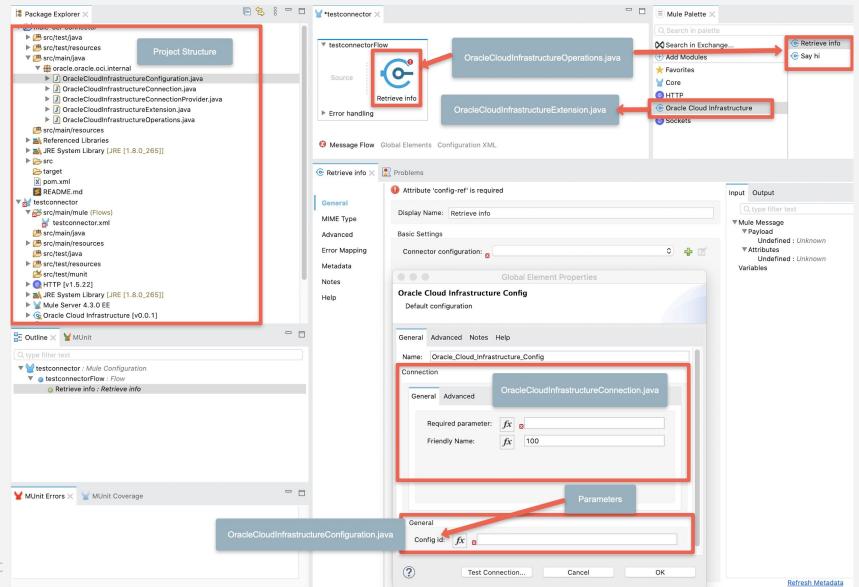
Total time: 4.443 s Finished at: 2020-12-21T11:36:58-05:00

- 2. Get it ready to import in the Anypoint studio mvn eclipse:clean eclipse:eclipse
- 3. Import it in Anypoint Studio

```
The content of the extension of the extension (monotopy) and provided (monotop
```

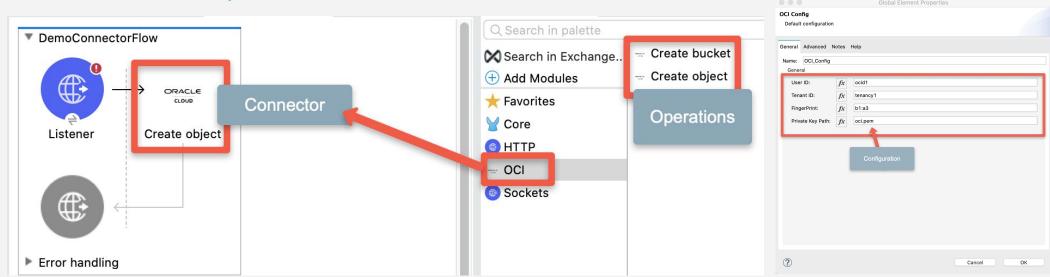
# Prepare Project Setup

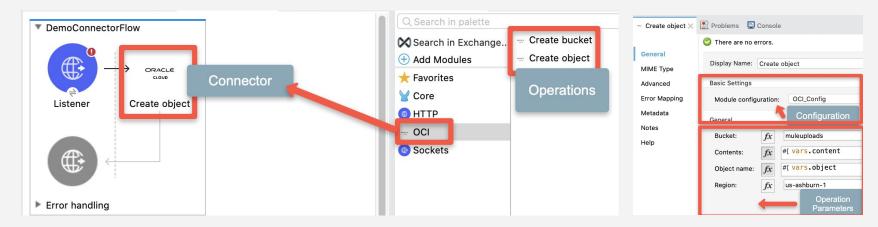




# Design/Develop

#### **Connector Output**





MuleSoft MuleSoft

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# Deploy

#### Installation/Deploy/Testing

- Deploy the connector to local repository mvn install -DskipTests
- 2. Updated Anypoint application pom with the new dependency

```
<dependencies>
       <groupId>org.mule.connectors</groupId>
       <artifactId>mule-http-connector</artifactId>
       <version>1.5.22
       <classifier>mule-plugin</classifier>
   </dependency>
   <dependency>
       <groupId>org.mule.connectors
       <artifactId>mule-sockets-connector</artifactId>
       <version>1.2.0
       <classifier>mule-plugin</classifier>
   </dependency>
   <dependency>
       <groupId>org.oracle.oci</groupId>
       <artifactId>oci-connector</artifactId>
       <version>0.0.49
       <classifier>mule-plugin</classifier>
   </dependency>
</dependencies>
```

3. Test the flow



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#### Share

#### Contribute to Exchange

- 1. Update Maven setting.xml with anypoint account credentials
- 2. Connector's POM changes
  - a. Change Group ID to Mulesoft Organization.
  - b. Add repository information
- 3. Execute mvn clean -dskipTest deploy to submit to exchange



# Additional Resources

#### Contribute to Exchange

1. Mule 4 SDK.

2. OCI Connector Git



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