Lab 3

Monitor your API (Analytics)
Overview

Once we have made a deployment to the API Gateway it will start to push analytics data up to Anypoint Platform API analytics. This provides the ability to keep track of key metrics like top users, transactions by region, usage by tier and performance against SLAs in a set of interactive, graphical dashboards and charts. You can create Custom Dashboards in a few clicks and we provide the ability to extract metrics via an API for the API platform.

Step 1: Viewing API Analytics

API analytics allow users to keep track of key metrics like top users, transactions by region, usage by tier and performance against SLAs in a set of interactive, graphical dashboards and charts.

You can see the API Analytics in API Manager

The API Settings page of each API provides some summaries of the analytics data such as number of requests, top apps and latency.

1. As an Organization Administrator, you have access to the Analytics Dashboards for your organization. Go to API Manager and Click on Analytics to navigate to the overview dashboard.
When you access the Analytics for your organization, by default you land on your Overview Dashboard. This dashboard displays four standard charts:

- **Requests by Date**: Line chart that shows the number of requests for all APIs in your organization.
- **Requests by Location**: Map chart that shows the number of requests for each country of origin.
- **Requests by Application**: Bar chart that shows the number of requests from each of the top five registered applications.
- **Requests by Platform**: Ring chart that shows the number of requests broken down by platform.

2. **Interactive Dashboard**: You can interact with the dashboards by clicking on the time range and dragging your mouse to create a custom time range. The overview dashboard graphs are linked together, so your custom time range could change the numbers and types of requests shown in the graphs at the bottom. For example, you can select a specific country, like Canada, to see only the requests from that specific location.

**WARNING** If you don’t see any graphic, be sure you are in the correct environment. You should be in **SANDBOX**

**Step 2: Create a Custom Dashboard**

The overview dashboard provides an aggregate view of the API usage, but there is typically a need
to see more detailed API utilization. The Anypoint Analytics platform allows user to create charts and build custom dashboards for more detailed information. In this step we’ll create a custom dashboard by building 4 custom charts, including viewing response time, response codes, requests by city and policy violations.

To create a custom dashboard:

1. Click on the **Custom Dashboard** option in the menu on top
2. Select **Create Chart** (note - click **Edit Dashboard** if you don’t see **Create Chart** on the left)
3. Add a chart **Title**.
4. Specify the metrics to chart the **Response Time** for your **Mythical Omni Channel API Gateway** and how to aggregate the values as shown below. Make sure to change the Data Interval to **Minutes**.
5. When you’re complete select **Save Chart**.

6. Create a chart to track Response Status Codes for all APIs as shown below.
NOTE

Make sure to scroll down on the right side and pick the circular chart, not the default line graph. Otherwise you will not see the Group By option.

7. Click **Save Chart**
8. Create a chart with the grouping of requests by country and city.
9. Click **Save Chart**

10. The last chart we will create is for measuring any requests that have policy violations.
11. Click **Save Chart**

When your chart has been saved, it is available to be added to the canvas of your custom dashboard.

12. Drag and drop your newly created charts to the dashboard canvas.
NOTE If the drag-drop option doesn’t work on your browser, click on the green ‘+’ next to each chart on the left pane and it will get added to the canvas.

13. Click **Save Dashboard** in the top right of the Dashboard editor.

You will now have a dashboard that will display metrics that are custom to your API.
In this lab, you were able to monitor your APIs using the built in API Analytics and Custom Dashboards. This provides visibility in your APIs so you can understand how your APIs are being consumed and utilized.
Additional details on creating custom dashboards and custom chart aggregations can be found in the Mule doc at *Viewing API Analytics*

**Congratulations! You have completed Lab 3.**

The next (optional) lab will show you how to govern a Mule application using autodiscovery.

Please proceed to *Lab 4* if you wish.

If not...

**Congratulations! You have completed Module 5.**

Please proceed to *Module 6*

*Take me to the TOP*