Metrics

Once an API is published and is being consumed at runtime, metrics information about that usage is recorded in the **Scheer PAS** *Log Analyzer* (based on OpenSearch). For each request, various pieces of information is stored, including but not necessarily limited to the following:

- · Request start and end times
- API start and end times
- Resource path
- · Response type (success, failure, error)
- API info (org id, id, version)
- Client app info (org id, id, version)

For APIs and clients, you can access these metrics directly in API Management, or you can analyze the data using the Log Analyzer. API Management provides some basic, predefined metrics, the Log Analyzer is a reporting tool that lets you define your own reports based on OpenSearch data.



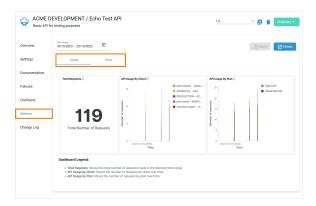
The dashboard displayed in the **Metrics** tab of APIs and clients is an embedded functionality of OpenSearch. For a detailed documentation of its functionalities, visit the official OpenSearch documentation.

Metrics in the API Management UI

In API Management, some basic metrics based on API and client data are available. The preconfigured metrics are shown as a dashboard within tab **Metrics** in the API Settings and Client Settings. The dashboard contains two tabs: **Usage** and **Error**. While tab **Usage** contains information about the usage of an API or a client, tab **Error** displays details about error and failure messages.

| | Definition |
|---------|--|
| Error | Errors from the API gateway Connection problems Backend (unmanaged API) is unavailable |
| Failure | Policy failures, e.g. Rate Limit is reached IP Blocklist policy blocks request because IP does not match |

API Metrics



| API Usage | Total Requests | Shows the total number of requests made in the selected time range. |
|--------------|------------------------|---|
| | API Usage by Client | Shows the number of requests by client over time. |
| | API Usage by Plan | Shows the number of requests by plan over time. |

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- Metric Reports Using the Log Analyzer

Related Pages:

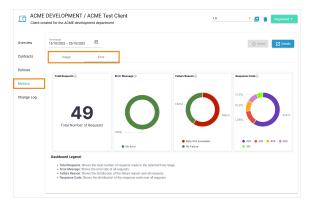
- APIs
 - API Settings
- Clients
 - Client Settings

Related Documentation:

- Administration Guide
 - Analyzing Platform Logs
- Official OpenSearch Documentation

| API Error | Total Requests | Shows the total number of requests made in the selected time range. |
|-----------|----------------|---|
| | Error Message | Shows the error rate of all requests. |
| | Failure Reason | Shows the distribution of the failure reason over all requests. |
| | Response Code | Shows the distribution of the response code over all requests. |

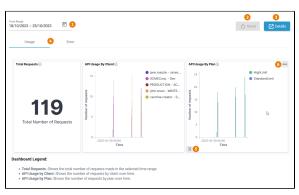
Client Metrics



| Client Usage | Total Requests | Shows the total number of requests made in the selected time range. |
|-----------------|-------------------------|---|
| | Client Usage by API | Shows the number of requests by API over time. |
| | Client Usage by Plan | Shows the number of requests by plan over time. |
| Client Error | Total Requests | Shows the total number of requests made in the selected time range. |
| | Error Message | Shows the error rate of all requests. |
| | Failure Reason | Shows the distribution of the failure reason over all requests. |
| | Response Code | Shows the distribution of the response code over all requests. |

Working With Metrics

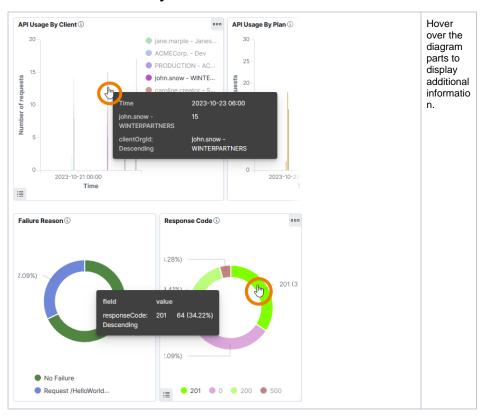
The dashboards offer various functionality to inspect the data.

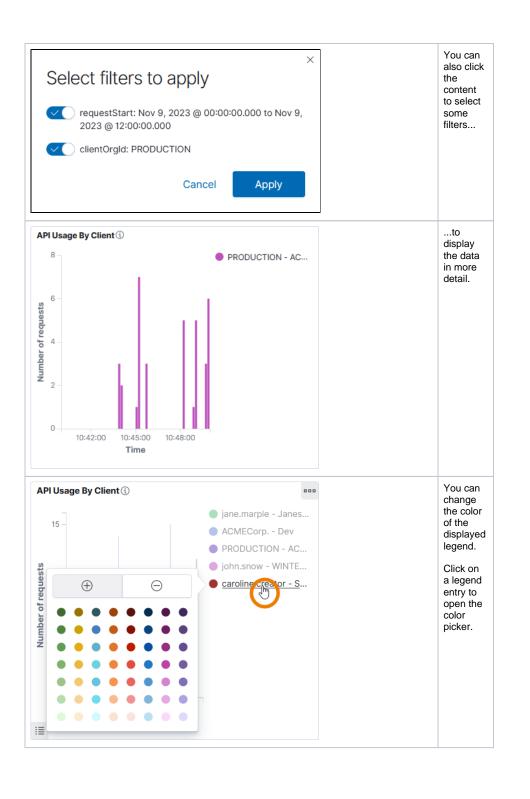


| UI Element | Name | Description |
|---------------|---------------|--|
| 1 | Time Range | Specify here the period for which you want to view data. You can enter the |
| | Kange | dates manually, or use the date picker to define the time range. |

| 2 | Reset | Click Reset to reset all dashboard filters. |
|---|--------------------------|---|
| 3 | Details | Click Details to open the preconfigured dashboard API Management - Details in the Log Analzyer. |
| 4 | Dashbo ard Content | Select tab Usage to see the usage metrics and Error to inspect the error metrics. |
| 5 | Legend | Hover over the lower left edge to display Toggle legend . Click to show / hide the legend within the diagram. By default, the legend is shown. |
| 6 | Options | Hover over the top right edge to display the Options. Click Inspect: Select this option to see a more detailed view. You can choose between Data and Requests. View Data: Shows time, planId and number of requests in a detailed table and offers a download of the data in CSV format (raw or formatted). View Requests: Choose between the options Statistics, Request and Response to display more deatilled data. Maximize panel: Select this option to maximize the view of the diagram. The other diagrams will be hidden. |

Additional Functionality



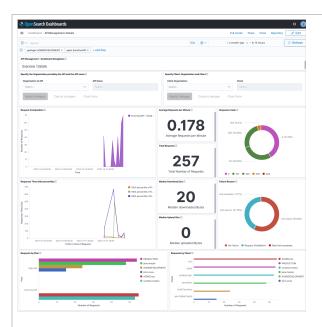




The value filter is applied to all diagrams in the dashboard:



Metric Reports Using the Log Analyzer



The Log Analyzer is an analytics and visualizati on tool designed to work with OpenSear ch. With the Log Analyzer you can search, view, and interact with data stored in OpenSear ch indices. You can perform advanced data analysis and visualize your data in a variety of charts, tables, and maps.

The **Sche** er PAS L og Analyzer already contains some default dashboar ds for API Managem ent users. For more informatio n about the log analyzer, refer to the Admin istration Guide > Analyzing Platform Logs.