


Analyzing Platform Logs


Use the Log Analyzer to view, filter and search the platform logs for all services. The **Scheer PAS Log Analyzer** uses OpenSearch to analyze the platform logs.

 Retention time for logs in Log Analyzer is **30 days**.



Acessing the Log Analyzer

Log Analyzer

Analyze all Technical Service Logs



Self service tool for creating dashboards, analyzing logs of existing services and API Management metrics.



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You can access the log analyzer via the corresponding tile in the **Scheer PAS Portal**.

Only users with profile **kibana_user** are able to see the tile in the portal.


Log Analyzer

Analyze all Technical Service Logs

Self service tool for creating dashboards, analyzing logs of existing services and API Management metrics.

If you click the log analyzer tile, the tool will open within the portal.

You can also open the log analyzer in a separate browser tab.

To do so, use the  icon in the lower right corner of the tile.

Analyzing Data

On this Page:

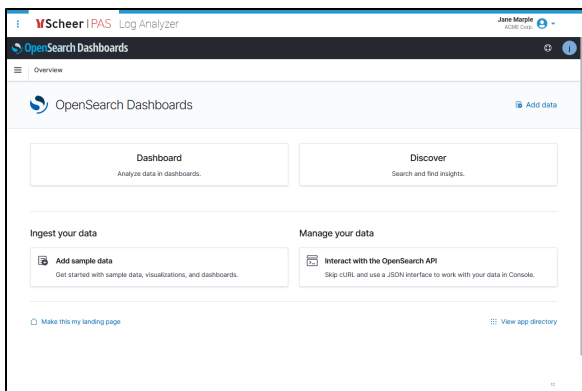
- [Accessing the Log Analyzer](#)
- [Analyzing Data](#)
 - [Index Patterns](#)
 - [Example: Creating the fluentd Index](#)
 - [Discover: Searching Your Data](#)
 - [Creating Dashboards](#)

Related Pages:

- [Adminstrating the Platform Components](#)
 - [Controlling Docker Container](#)
 - [Showing Integration Service Logs](#)

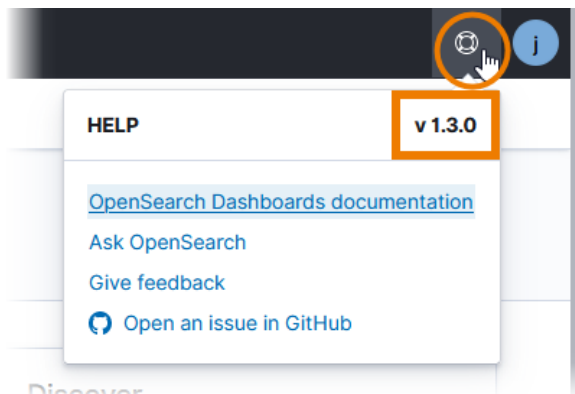
Related Documentation:

- [API Management](#)
 - [Metrics](#)
- [Official OpenSearch Documentation](#)



The **Scheer PAS Log Analyzer** uses OpenSearch as data storage and OpenSearch Dashboards to analyze the logs of all services.

OpenSearch Dashboards is an open source analytics and visualization tool. You can search, view, and interact with data stored in OpenSearch indices. You can perform advanced data analysis and visualize your data in a variety of charts, tables, and maps in customized dashboards.



✓ For detailed information on OpenSearch, its features and how to use them, refer to the [Official OpenSearch Documentation](#).


Please note that the official documentation may vary according to different versions of the tool. Before consulting the documentation, check your OpenSeas version. It is displayed if you open the help menu






where you can also find a direct link to the official documentation.

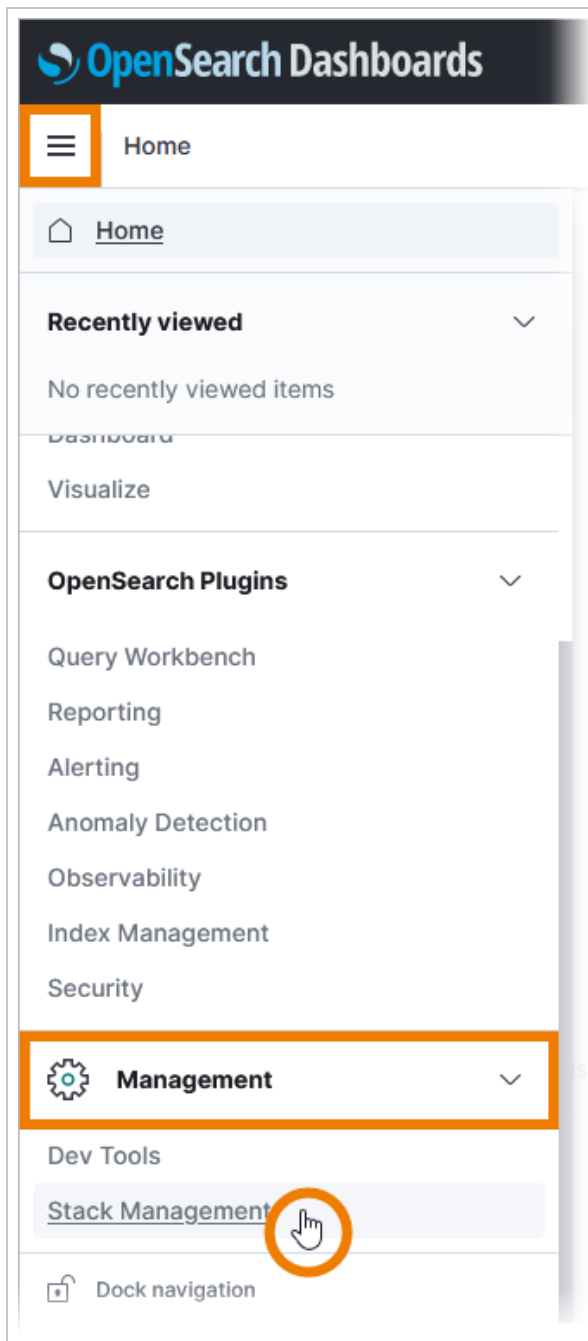
Index Patterns

The log analyzer needs to know which indices contain the data you want to analyze. So you need at least one index pattern to make sure that data is available. Several index patterns are created automatically with your Scheer PAS installation:

Index Pattern	Description
apiman_metrics*	Required to visualize API Management metrics (see API Management Guide > Metrics).
fl*	Index for logs from the PAS integration component (Bridge), API Management and legacy pas-services. Required for Showing Docker Container Logs .
pas*	Index where PAS services store their log entries. Required for Showing Docker Container Logs .
xuml*	Index for logs from customized xUML services (deployed via Scheer PAS Designer or deployment wizard). <div> The data of an xUML service is logged only after a service deployment.</div>

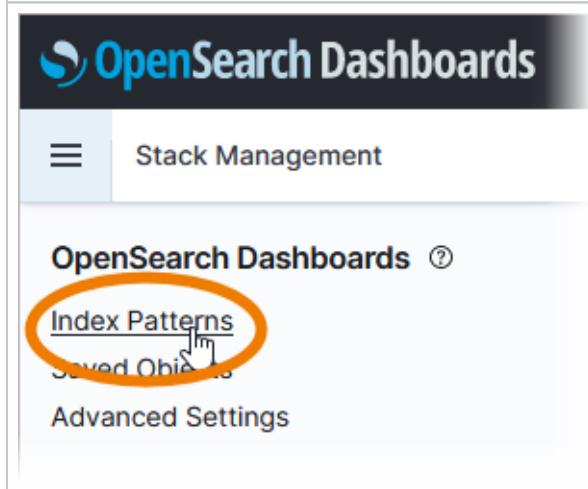
If your log analyzer is empty and does not contain an index pattern, it asks you to create one. You need to do this only once after the first login, then all permitted users can view the logs.

<div><h3>Log Analyzer</h3><p>Analyze all Technical Service Logs</p><hr/><div><p>Self service tool for creating dashboards, analyzing logs of existing services and API Management metrics.</p></div><div></div></div>	<p>To create an index pattern, open the log analyzer.</p>
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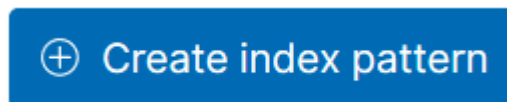
Close the pop-up **Select your tenant**.

Then open the menu , scroll down to section **Management** and select **Stack Management**.

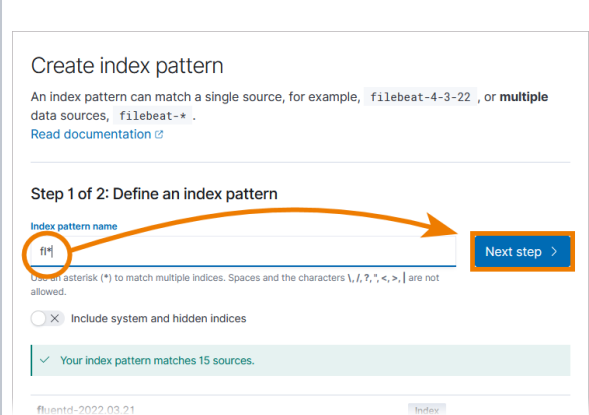
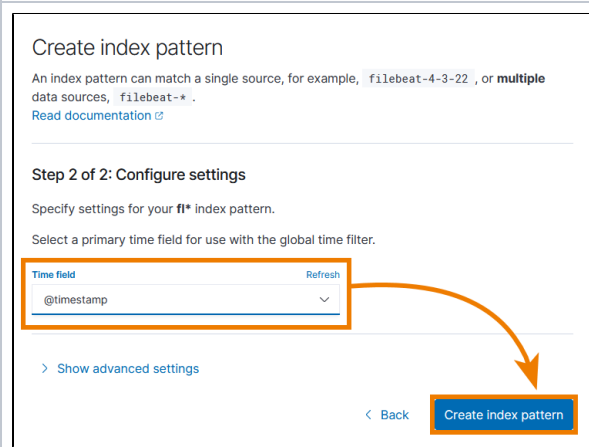
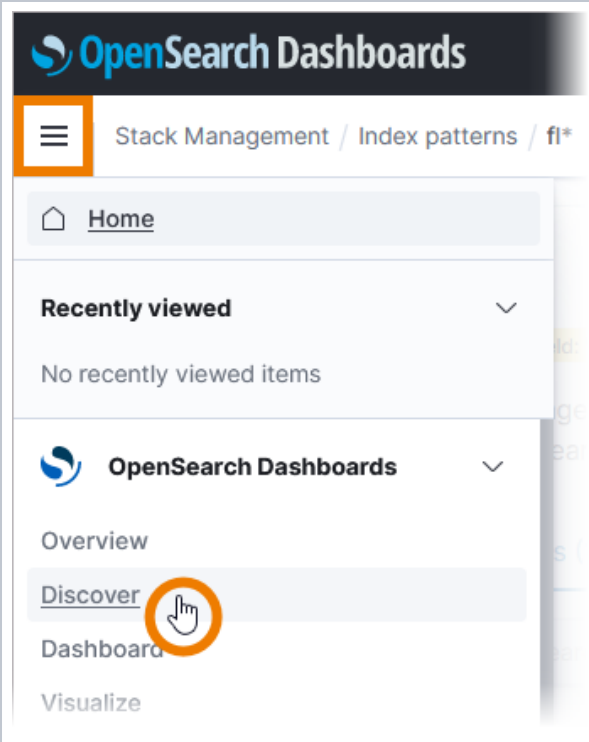



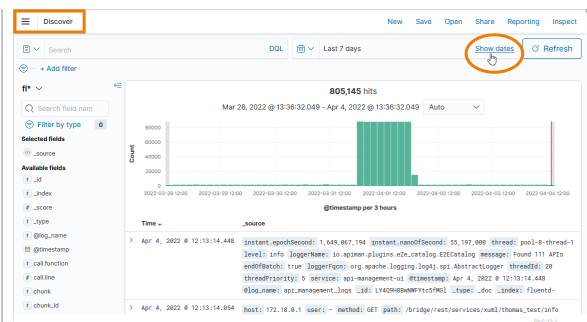
In the **Stack Management** view, select menu option **Index patterns**.

Click button **Create index pattern**:



Example: Creating the *fluentd* Index

	<p>PAS logs are stored by date in a rolling index called fluentd-<i>MM.DD</i><YYYY> e.g. fluentd-2022.01.25.</p> <p>To ensure that all indices are fetched, set index pattern name to fl* and click Next step.</p>
	<p>In the next window, open the drop-down list of Time field and select @timestamp.</p> <p>Then click Create index pattern.</p>
	<p>Open the menu  and select option Discover.</p>

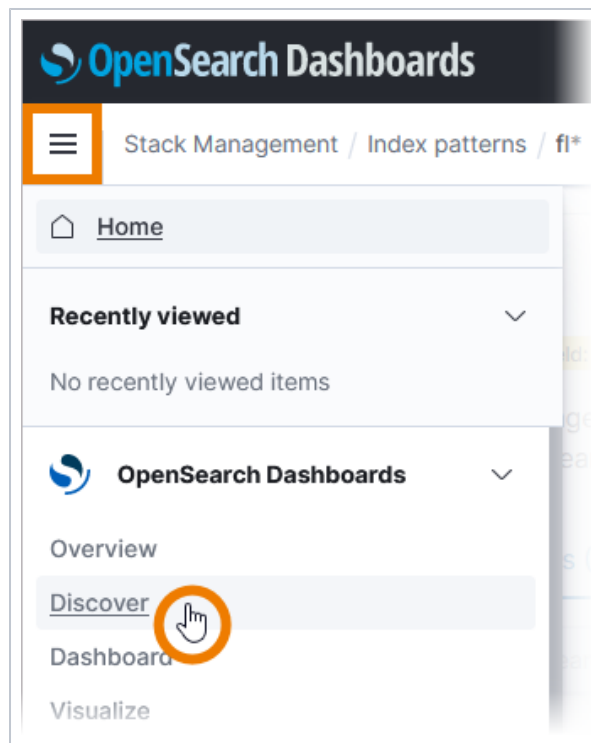



You can now inspect the service logs. If no logs are displayed, extend the time range.

Use the link **Open Log Analyzer** to inspect logs in the service details in **ScheerPAS** Administration

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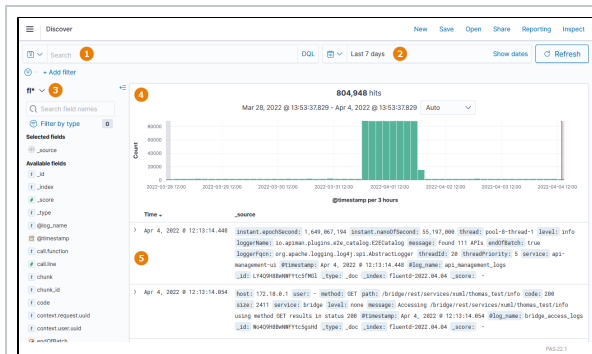
Discover: Searching Your Data



To access the functionalities of the log analyzer, open the  on the start page.

The **Discover** option allows you:

- to select data for exploration.
- to set a time range for the data.
- to search your data with the [Query DSL](#).
- to filter the results.
- to explore the details of your data.
- to view individual documents.
- to create tables that summarize the contents of the data.



Overview on the **Discover** page:

- Search Query:**
Enter your search query here. Visit the official OpenSearch documentation to get detailed information about the [Q DSL](#).
- Time Range:**
Click here to set a time range for the data you want to
- Sidebar:**
Use the sidebar to select your index pattern and to add list of available fields.
- Time Histogram:**
Shows the time range of the displayed data.
To view the count of documents for a given time, drag mouse over the histogram.
- Documents Table:**
All documents/data available for the set time range are displayed here. You can customize the display and add your needs.

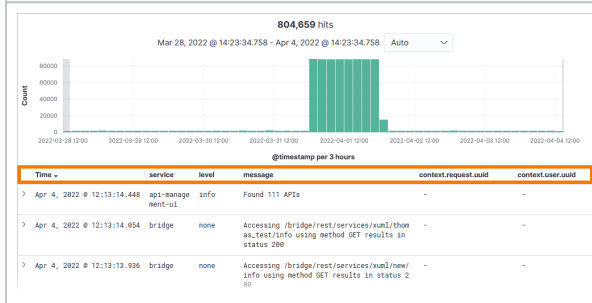
Time: Apr 4, 2022 @ 12:13:14.448

Expanded document

Field	Value
log_name	api_management_logs
timestamp	Apr 4, 2022 @ 12:13:14.448
_id	LY4Q9H8WfTc5FM1
_index	fluentd-2022-04-04
_score	-
_type	_doc
endofBatch	true
instant.epochSecond	1,649,067,194
instant.nanoOfSecond	55,197,000
level	info
loggerFqn	org.apache.logging.log4j.spi.AbstractLogger
loggerName	io.apiman.plugins.e2e.catalog.C2ECatalog
message	Found 111 APIs
service	api-management-ui
thread	pool-8-thread-1
threadId	20
threadPriority	5

Expand a document to show the available settings.

To add a setting to the table display, click on its menu item **Toggle column in table**:



To inspect logs of **Scheer PAS** Node.js services, you can for example select the following settings to display:

- time** (displayed by default)
- service** (= name of the service)
- level** (= log level)
- message** (= log message)
- context.request.uid** (= UUID of the request)
- context.user.loginId** (= login name of the user)

Once you have created such a query, you are also able to use it for further use, for example in a [dashboard](#).

Creating Dashboards



Recently viewed



No recently viewed items



OpenSearch Dashboards



Overview

Discover

Dashboard

Visualize



The log analyzer also offers some default dashboards and the possibility to create your own dashboards.

You can add a variety of different panels to inspect and visualize your data, for example area charts, bar and line charts, tree and heat maps, metrics, data tables and many more.

Choose option **Dash board** in the sidebar to start.

Dashboards

Create dashboard

Search...

<input type="checkbox"/> Title	Description	Actions
<input type="checkbox"/> API Management - Details	This dashboard gives you fine grained insights to a selected API and its client usage.	
<input type="checkbox"/> API Management - Overview	This dashboard shows an overview on all your API Management metrics.	

Rows per page: 20

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The **Scheer PAS Log Analyzer** offers several default dashboards. If you open the **Dashbo ard** menu, the list of available dashboards is displayed. Refer to the [API Management Guide](#) for further information about the API Management default dashboards.

If you want to add your own dashboards, use the **Create dashboard** button.



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