

LIGHT UP
YOUR FUTURE_

HARDIS
GROUP

Kibana Usage Guide

[REFLEX Web](#)



Plan

1. Overview
2. Top Navigation Bar
3. Time Frame
4. Refresh rate
5. Main Dashboard overview
6. Filter from a chart
7. Filter from a list
8. Manage filters
9. Trace messages
10. Usecase : View server / user traces

Overview

- Kibana is a tool to visualize and explore data
 - <https://www.elastic.co/fr/products/kibana>
- Kibana web interface is available on port 5601 of monitoring server
 - <http://localhost:5601/>
- This Kibana instance is provided with dashboards configured for Reflex application traces
- Following slides provide advises to use Kibana for Reflex

Top Navigation Bar

Switch between the 4 views of Kibana

Main view is Dashboard

Define the time frame of the traces and the refresh period



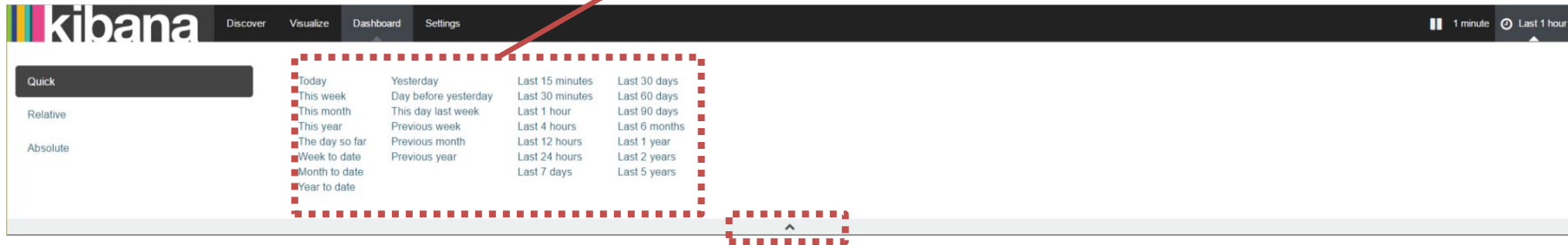
Name of the dashboard

Access list of Dashboards

Main Reflex : Default dashboard
SQL Dump Reflex : Manage Wagon SQL dump traces

Time Frame

Select the time frame

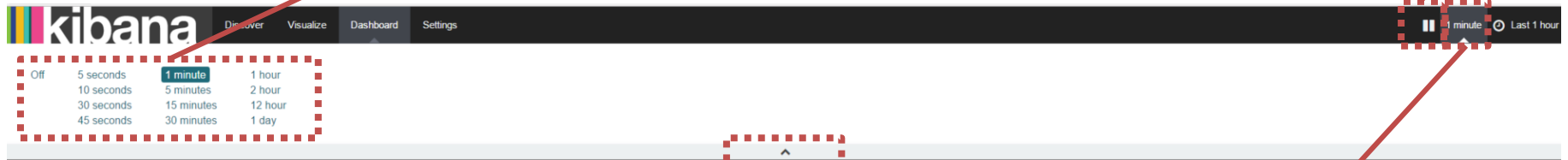


Close the
time frame
panel

Refresh rate

Select or disable the auto refresh frequency

Suspend / restart auto refresh



Close the panel

Current refresh frequency

Main Dashboard overview

Servers which emit traces

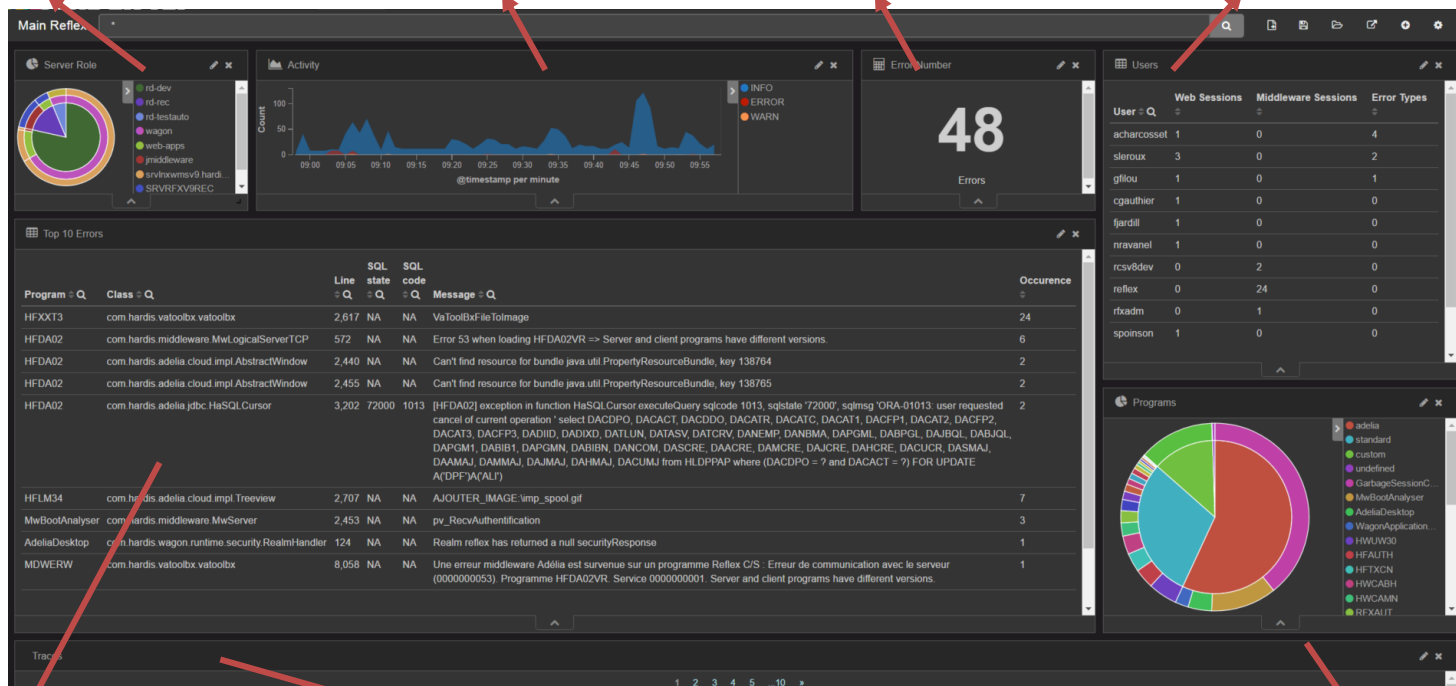
3 sort levels :

- Nickname (rd-dev, rd-rec, ...)
- Hostname (srvlnxwmsv9, ...)
- Role (wagon, jmiddleware, ...)

Trace quantity by
level on the time
frame

Number of traces
in ERROR level

List of user
sessions which
sent traces



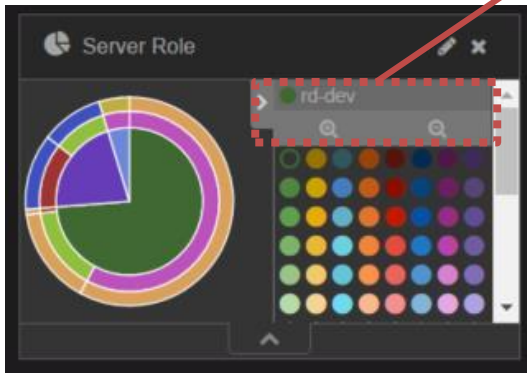
Top 10 error
messages with the
number of
occurrences

At the bottom of
the dashboard,
the list of all the
traces

Programs that
sent traces

Filter from a chart

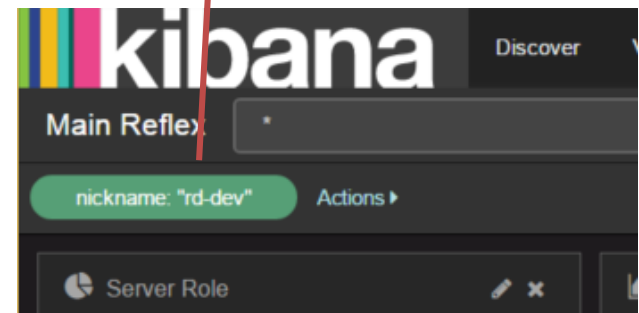
- First click on the value you want to filter (here “rd-dev”)
- Then on the + icon to **keep traces matching** this criteria
 - It creates a positive filter
- Or on the – icon to **ignore traces matching** this criteria
 - It creates a negative filter
- To close the chart color selection, click again on the value



All applied filters are listed at the top of the page

- Positive filter in green color
- Negative filter in red color

All the dashboard content is updated to take into account this filter



Filter from a list

Click on the value you want to filter : here a cell of the table
The mouse pointer should become a cross

Top 10 Errors

Program	Class	Line	SQL state	SQL code	Message
HFDA02	com.hardis.middleware.MwLogicalServerTCP	572	NA	NA	Error 53 when loading HFDA02VR => Server and client programs have different versions.
HFDA02	com.hardis.middleware.MwLogicalServerTCP	2440	NA	NA	Can't find resource for bundle java.util.ResourceBundle: java 120764

If several filters have to be applied, you have to confirm the selection at the top

Kibana

Discover Visualize Dashboard Settings

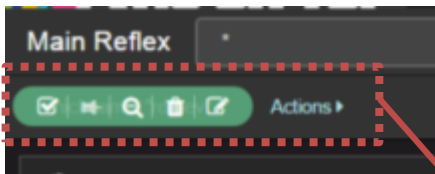
Main Reflex

Apply these filters?






- mdc: program: HFDA02
- class: com.hardis.middleware.MwLogicalServerTCP
- line_number: 572
- sql_state: NA
- sql_code: NA
- error_msg: Error 53 when loading HFDA02VR => Server and client programs have different versions

Apply Now or Cancel

Manage filters



You can access filters option by placing the mouse over the filter at the top of the dashboard.

- **Disable** the filter by clicking on 
- **Remove** the filter by clicking on 
- **Invert** the filter by clicking on 
 - If filter was positive (green), it becomes negative (red)
 - If negative (red), it becomes positive (green)
- **Edit** the filter by clicking on 
 - Filter syntax uses JSON format
- **Pin** the filter by clicking on 
 - It is useful to not loose the filters when switching from dashboard view to Discover or Visualize views

Trace messages

On the list of traces at the bottom of the dashboard page

- Traces are sorted from the most recent to the oldest
- You can see the trace level, the role (wagon, jmiddleware, web-apps) and the message

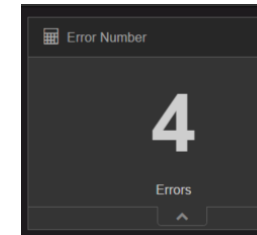
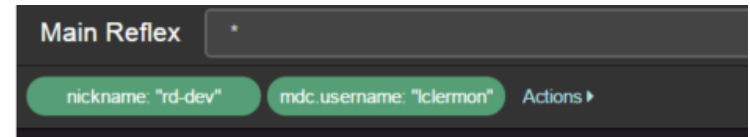
Traces			
Time ▼	level	role	message
▶ January 25th 2017, 10:49:22.321	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:22.318	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:21.556	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:21.554	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:17.904	INFO	wagon	Connection to database REXBD_PROD completed

To get all the details about the trace,
click on > in front of the trace line :

January 25th 2017, 10:49:22.321 ERROR wagon VaToolBxFileToImage			
Table	JSON		
o timestamp	January 25th 2017, 10:49:22.321		
# version	1		
t_id	AwnKCFvaoJjR30rVKS0		
r_index	rd_reflex_prod-2017_01_25		
#_score			
r_type	logs		
r_application	wms		
r_class	com.hardis.vatoolbx.vatoolbx		
r_error_msg	VaToolBxFileToImage		
r_exception_class	java.nio.file.NoSuchFileException		
r_exception_message	/srv/hardis/reflex/share/resources/THEMES_RFG/HF_ICE_COLD/RFG_Affichage_Emp1_3_Erreur_220x52.jpg		
r_exception_stacktrace	<pre> java.nio.file.NoSuchFileException: /srv/hardis/reflex/share/resources/THEMES_RFG/HF_ICE_COLD/RFG_Affichage_Emp1_3_Erreur_220x52.jpg at sun.nio.fs.UnixException.translateToIOException(UnixException.java:86) at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:102) at sun.nio.fs.UnixException.rethrowAsIOException(UnixException.java:107) at sun.nio.fs.UnixFileSystemProvider.newByteChannel(UnixFileSystemProvider.java:214) at java.nio.file.Files.newByteChannel(Files.java:317) at java.nio.file.Files.newByteChannel(Files.java:368) at java.nio.file.spi.FileSystemProvider.newInputStream(FileSystemProvider.java:380) at java.nio.file.Files.newInputStream(Files.java:108) at com.hardis.adelia.cloud.vfs.FsContext.fsNewInputStream(FsContext.java:698) at com.hardis.adelia.files.sutils.newInputStream(FsUtils.java:80) at com.hardis.vatoolbx.vatoolbx.VaToolBxFileToImage(vatoolbx.java:2612) at sun.reflect.GeneratedMethodAccessor227.invoke(Unknown Source) at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) at java.lang.reflect.Method.invoke(Method.java:498) at com.hardis.adelia.template.PgmSession.invokeMethodDynaClassWithTypeCtrl(PgmSession.java:1597) at com.hardis.adelia.template.PgmSession.invokeMethodDynaClassWithTypeCtrl(PgmSession.java:1510) at com.hardis.reflexcs.HFXXT3...call1011id.4(HFXXT3.java:3126) at com.hardis.reflexcs.HFXXT3.UserProcCHANGER_IMAGES(HFXXT3.java:364) at com.hardis.reflexcs.HFXXT3...traiterProcUserProcCHANGER_IMAGES(HFXXT3.java:2941) at com.hardis.reflexcs.HFXXT3.UserProcINIT_THEME(HFXXT3.java:182) at com.hardis.reflexcs.HFXXT3...traiterProcUserProcINIT_THEME(HFXXT3.java:2901) at com.hardis.reflexcs.HFXXT3.initPgm(HFXXT3.java:4698) at com.hardis.reflexcs.HFXXT3.main(HFXXT3.java:4829) at com.hardis.reflexcs.HFXXT3.callCurrentSession2(HFXXT3.java:4528) </pre>		

Usecase : View server / user traces

1. Filter the server you are working on
2. Filter the username
3. You can see the number of errors you have generated :
4. You can view the different types of error :



Top 10 Errors						
Program	Class	Line	SQL state	SQL code	Message	Occurrence
HFXXT3	com.hardis.vatoolbx.vatoolbx	2,617	NA	NA	VaToolBxFileToImage	4

5. You can see all the traces at the bottom of the page