

LIGHT UP  
YOUR FUTURE\_

**HARDIS**  
**GROUP**

Kibana User Guide

REFLEX Web



# Plan

1. Overview
2. Top Navigation Bar
3. Time Frame
4. Refresh Rate
5. Main Dashboard overview
6. Add Filters from a Chart
7. Add Filters 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 rate



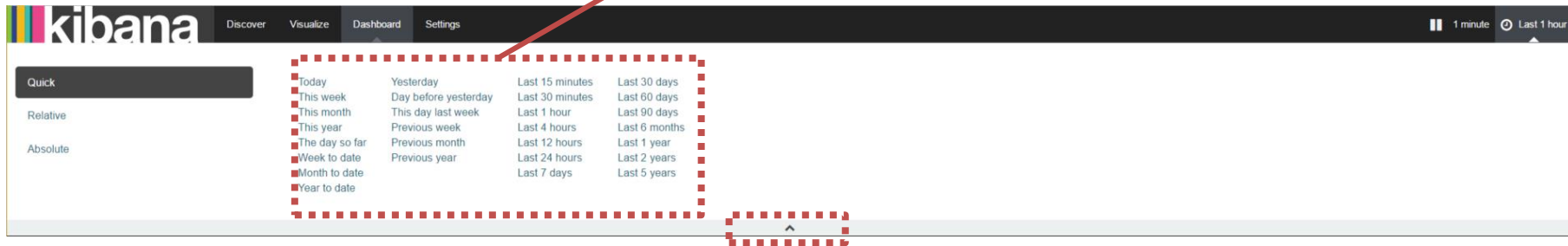
Name of the dashboard

Access list of Dashboards

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

# Time Frame

Select the time frame

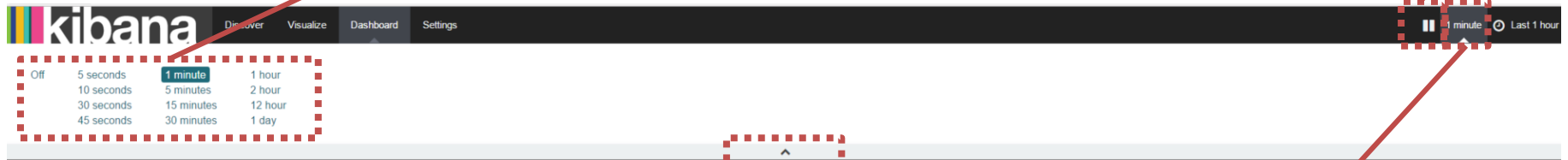


Close the  
time frame  
panel

# Refresh Rate

Select or disable the auto refresh frequency

Suspend / restart auto refresh



Close the panel

Current refresh frequency

# Main Dashboard Overview

## Servers producing traces

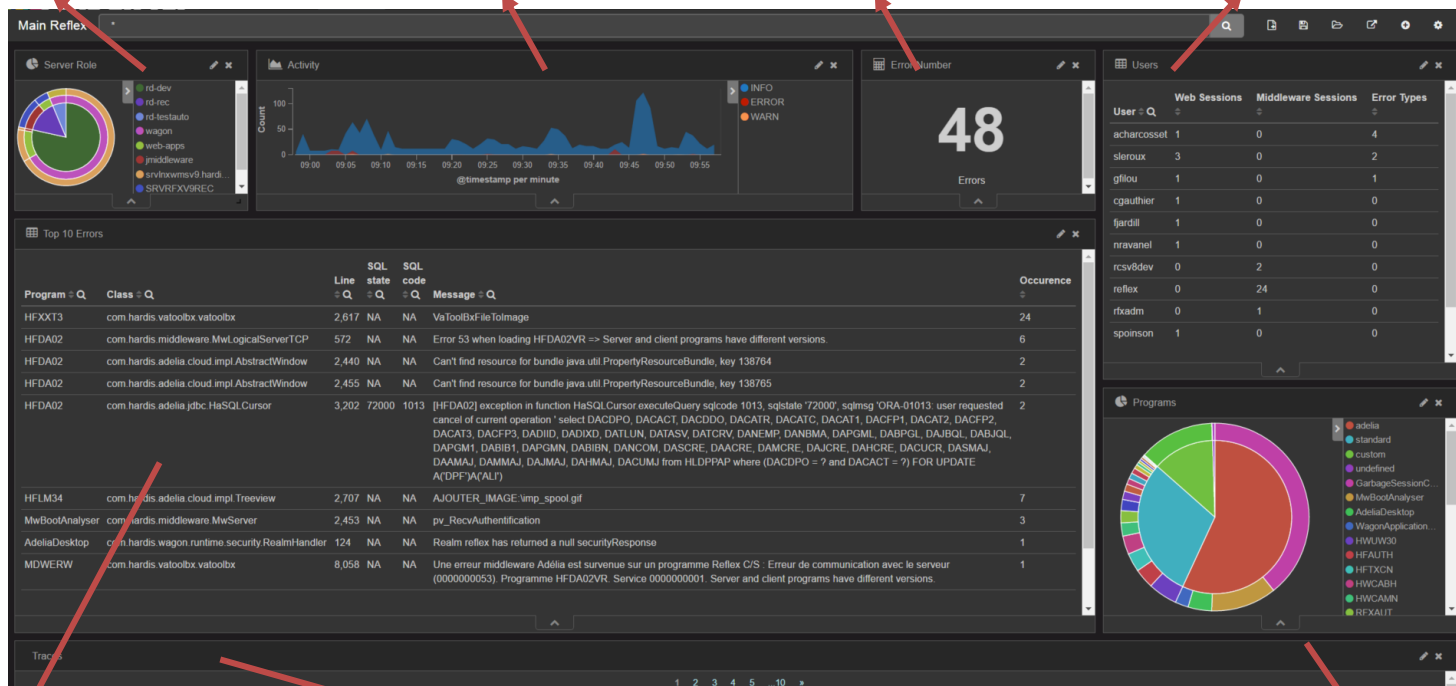
3 sorting levels:

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

Trace quantity by level on the time frame

Number of traces with ERROR level

List of user sessions which sent traces



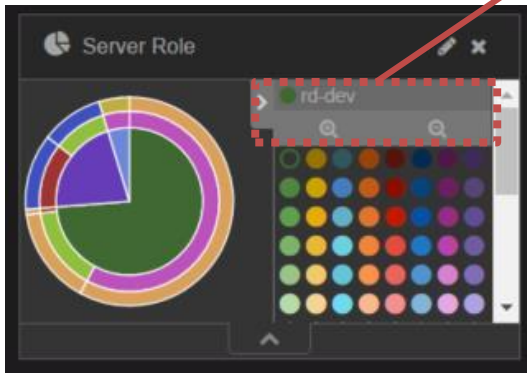
Top 10 error messages with the number of occurrences

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

Programs which sent traces

# Add Filters from a Chart

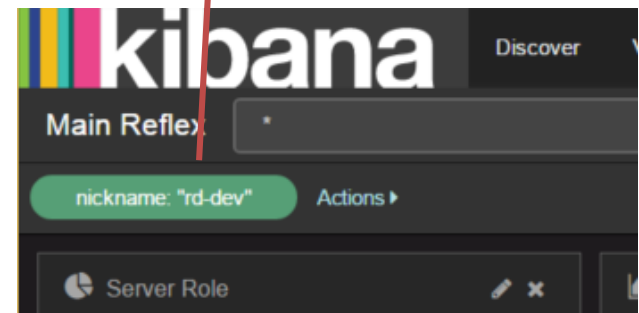
- First click on the value you want to filter (here “rd-dev”)
- Then on the + icon to **keep traces matching** this criteria
  - It creates a positive filter
- Or on the – icon to **ignore traces matching** this criteria
  - It creates a negative filter
- To close the chart color selection, click again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





# Add Filters 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	572	NA	NA	Error 53 when loading HFDA02VR => Server and client programs have different versions.

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

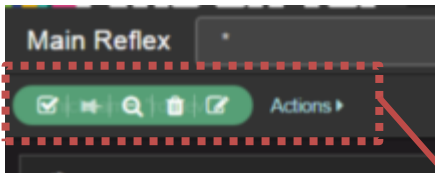
Kibana

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.

# 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 not to 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

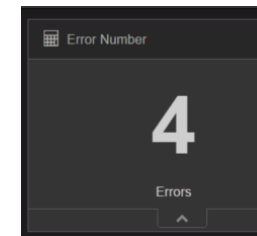
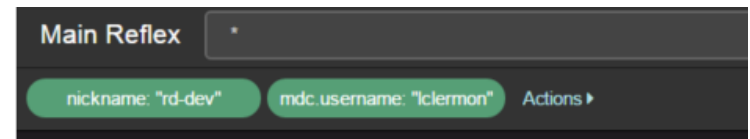
Traces			
Time ▼	level	role	message
▶ January 25th 2017, 10:49:22.321	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:22.318	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:21.556	ERROR	wagon	VaToolBxFileToImage
▶ January 25th 2017, 10:49:21.554	ERROR	wagon	VaToolBxFileToImage
▶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

To get all the details about a 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	AwnKCFvaoJjRj0rVKS0		
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	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.fsutils.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.initPg(HFXXT3.java:4698) at com.hardis.reflexcs.HFXXT3.javaEntry(HFXXT3.java:4829) at com.hardis.reflexcs.HFXXT3.callCurrentSession2(HFXXT3.java:4528)		

# 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