

# SPOTFIRE STANDARD DEFAULT LOGGING

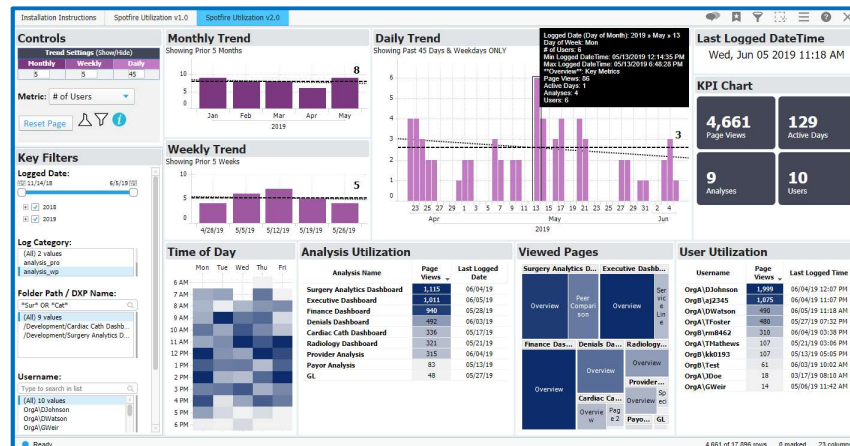
Name	Description	Date Created	Size
SPOTFIRE_ACTIONLOG		4/4/2013 5:10:10 AM	
user_actions		4/4/2013 5:10:10 AM	521 KB
ACTIONLOG		4/4/2013 5:10:10 AM	2.8 KB
logged_user_actions_datasource	Data source for the action log functionality	4/4/2013 5:10:10 AM	1.2 KB

user\_actions.dxp  
Information Links  
Data Source

2018

## How to setup TIBCO Spotfire Logging...

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## Create Action Log Database & Configure Log Settings [<20 min]

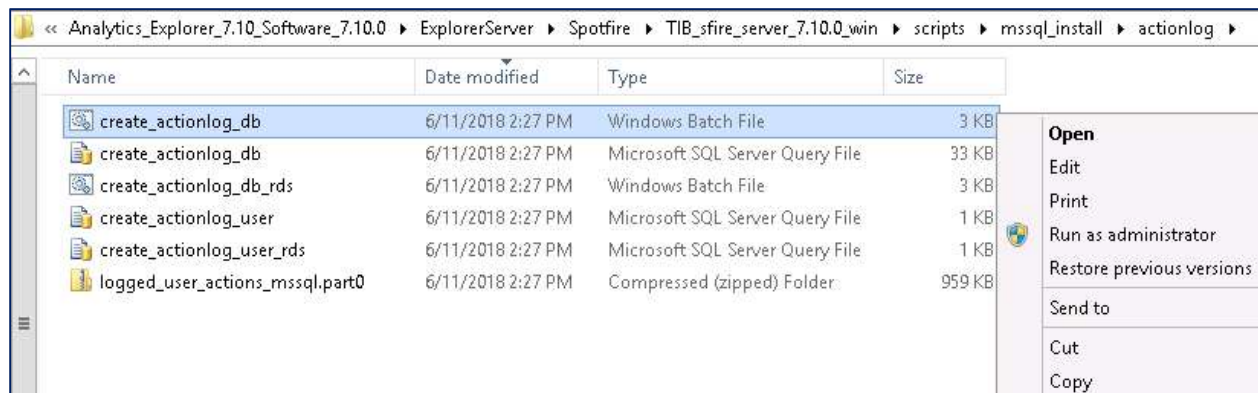
**Prerequisites:** In some cases, IT will have to make these changes to your Spotfire Server

- ✓ Permission and Access to the TIBCO Spotfire (ie Analytics Explorer) Server(s)
- ✓ System Admin Password  
Might be here:  
<https://emdeon.sharepoint.com/sites/collaborate/bps/rmsupport/customer/Lists/Customer%20Information/Explorer%20Clients%20%20Connection%20Info.aspx>
- ✓ Bootstrap Password
- ✓ Restart of TIBCO Spotfire Services [Spotfire will be down during this (0-10 minutes)]

### Create Action Log Database

Browse to the location below (where X is the location you downloaded the Explorer 7.10 software from download central to).

X:\Analytics\_Explorer\7.10.0\ExplorerServer\Spotfire\TIB\_sfir\_server\_7.10.0\_win\scripts\mssql\_install\actionlog



Make a copy of the **create\_actionlog\_db.bat**

Edit the **create\_actionlog\_db.bat**

**Modify the variables for your environment** (lines 25-30)

set CONNECTIDENTIFIER=<SERVER>\<MSSQL\_INSTANCENAME>

set ADMINNAME=\*\*\*\*\*

set ADMINPASSWORD=\*\*\*\*\*

set ACTIONDB\_NAME=spotfire\_actionlog

set ACTIONDB\_USER=spotfire\_actionlog

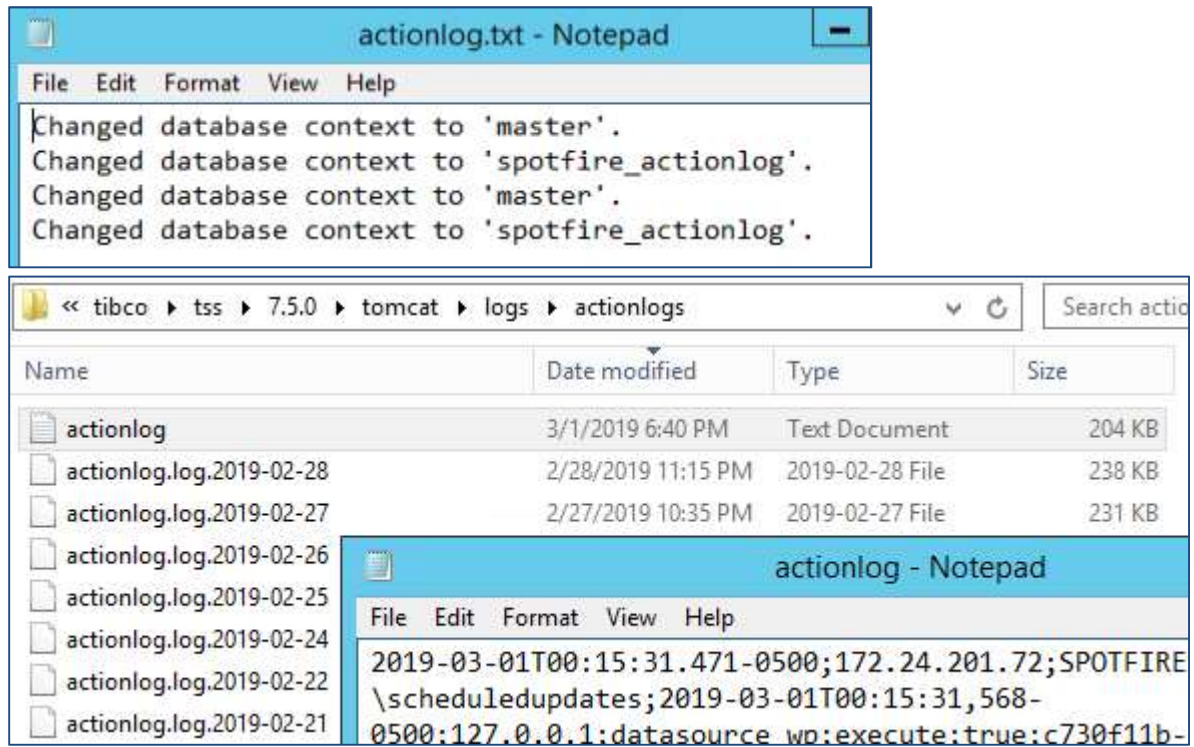
set ACTIONDB\_PASSWORD=spotfire\_actionlog

(The file should look similar to what is shown below except for the SERVER INFO, ADMINNAME and ADMINPASSWORD, those should be set to the DBA System Administrator Username & Password on your server)

```
create_actionlog_db.bat
5 rem
6 rem This script will create all database schemas and fill them with all the initial data.
7 rem
8 rem Before using this script you need to set or change the following variables below:
9 rem     * SERVER
10 rem     * MSSQL_INSTANCENAME
11 rem     * ADMINPASSWORD
12 rem     * ACTIONDB_USER
13 rem     * ACTIONDB_PASSWORD
14 rem
15 rem     replace <SERVER> with the name of the server running the SQL Server instance.
16 rem     replace <MSSQL_INSTANCENAME> with the name of the SQL Server instance.
17 rem
18 rem     if running the script against a SQL Server instance with a case sensitive server
19 rem     collation, explicitly set a (case insensitive) collation to be used by the
20 rem     database in the create_actionlog_db.sql file.
21 rem
22 rem -----
23
24 rem Set these variable to reflect the local environment:
25 set CONNECTIDENTIFIER=<SERVER>\<MSSQL_INSTANCENAME>
26 set ADMINNAME=*****
27 set ADMINPASSWORD=*****
28 set ACTIONDB_NAME=spotfire_actionlog
29 set ACTIONDB_USER=spotfire_actionlog
30 set ACTIONDB_PASSWORD=spotfire_actionlog
```

Run the bat (if a multi-server environment, need to execute on the db server)

It will create a log



The image shows two windows. The top window is a Notepad application titled 'actionlog.txt - Notepad'. It contains the following text:

```
Changed database context to 'master'.  
Changed database context to 'spotfire_actionlog'.  
Changed database context to 'master'.  
Changed database context to 'spotfire_actionlog'.
```

The bottom window is a Windows Explorer showing the directory path: << tibco > tss > 7.5.0 > tomcat > logs > actionlogs. It displays a list of files:

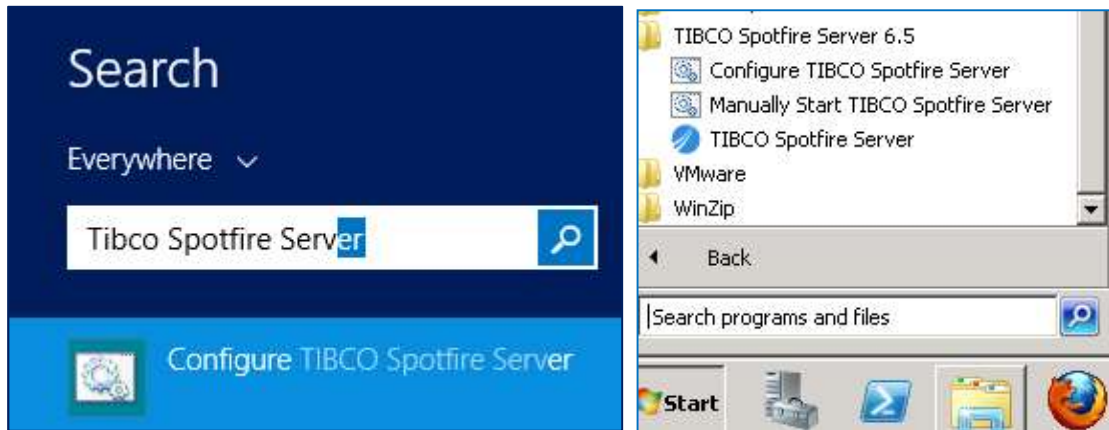
Name	Date modified	Type	Size
actionlog	3/1/2019 6:40 PM	Text Document	204 KB
actionlog.log.2019-02-28	2/28/2019 11:15 PM	2019-02-28 File	238 KB
actionlog.log.2019-02-27	2/27/2019 10:35 PM	2019-02-27 File	231 KB
actionlog.log.2019-02-26			
actionlog.log.2019-02-25			
actionlog.log.2019-02-24			
actionlog.log.2019-02-22			
actionlog.log.2019-02-21			

An inset window titled 'actionlog - Notepad' is shown over the file list, displaying a log entry:

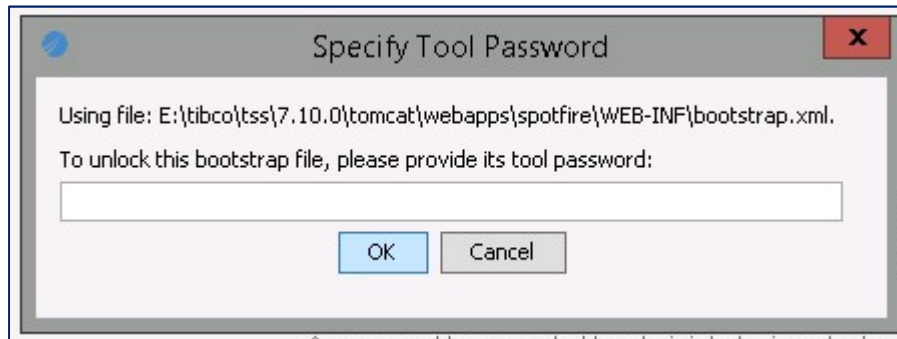
```
2019-03-01T00:15:31.471-0500;172.24.201.72;SPOTFIRE  
\scheduledupdates;2019-03-01T00:15:31,568-  
0500:127.0.0.1:datasource wp:execute:true:c730f11b-
```

## Configure User Action Logging

Log into **Configure TIBCO Spotfire Server**



-may need to contact CHC Support for password





Click on **Configuration** tab  
Go to **User Action Log**

The screenshot shows the TIBCO Spotfire Server Configuration Tool interface. The 'Configuration' tab is selected in the top navigation bar. On the left sidebar, 'User Action Log' is highlighted. The main panel displays the 'User Action Log' configuration section, which is divided into 'Action logger configuration' and 'Database logger configuration'.

**Action logger configuration:**

- Enable database logger: ☒ Yes ☐ No
- Enable file logger: ☒ Yes ☐ No
- Enable web service: ☒ Yes ☐ No
- Enable categories: ☐ All ☒ Some Categories

**Category list:**

Category	Enabled	Prioritized
admin	<input type="checkbox"/>	<input type="checkbox"/>
analysis_pro	<input checked="" type="checkbox"/>	<input type="checkbox"/>
analysis_wp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
auth	<input type="checkbox"/>	<input type="checkbox"/>

**Database logger configuration:**

- Driver template: MSSQL Data Direct
- Hostname: localhost
- Port: 1433
- Identifier (SID/database/service): spotfire\_actionlog
- Username: spotfire\_actionlog
- Password: .....
- URL: jdbc:tibcosoftwareinc:sqlserver://localhost:1433;DatabaseName=
- Driver class: tibcosoftwareinc.jdbc.sqlserver.SQLServerDriver
- Log in local time: ☒ Yes ☐ No
- Block on full queue: ☐ Yes ☒ No

A 'Test connection' button is located at the bottom right of the configuration section.

Enable all 4 features at the top (**3 Yes, Some Categories Enabled** everything **except**: node\_communication & monitoring\*, so **Enabled**: analysis\_pro, analysis\_wp, auth, datasource\_wp, datafunction\_wp, automation\_job\_as, automation\_task\_as, scheduled\_updates, etc)

Set driver template to **MSSQL Data Direct**

Set hostname to **localhost**

Set the identifier to **spotfire\_actionlog**

Set username and password to **spotfire\_actionlog** (like in bat file)

**Test connection**

Set the pruning period...how long before you drop the information, the default is 48 hours

I recommend changing this to 1 year for most clients which would be 8,760 hours as shown below (depending on how long you want to track the data for)

Pruning Period	Hours
3 Months	90 days * 24 hours = 2,160 hrs
1 Year	365 days * 24 hours = 8,760 hrs
2 Years	730 days * 24 hours = 17,520 hrs

Queue size: 8000  
Wait on full queue time (ms): 1000  
Wait on empty queue time (ms): 1000  
Thread pool size: 4  
Workers: 4  
Commit period (s): 60  
Batch Size: 100  
Grace Period (s): 30  
**Pruning Period (hrs): 8766**  
Monitoring period (s): 300  
Monitoring retention span (hrs): 1  
Monitoring average period (s): 3600

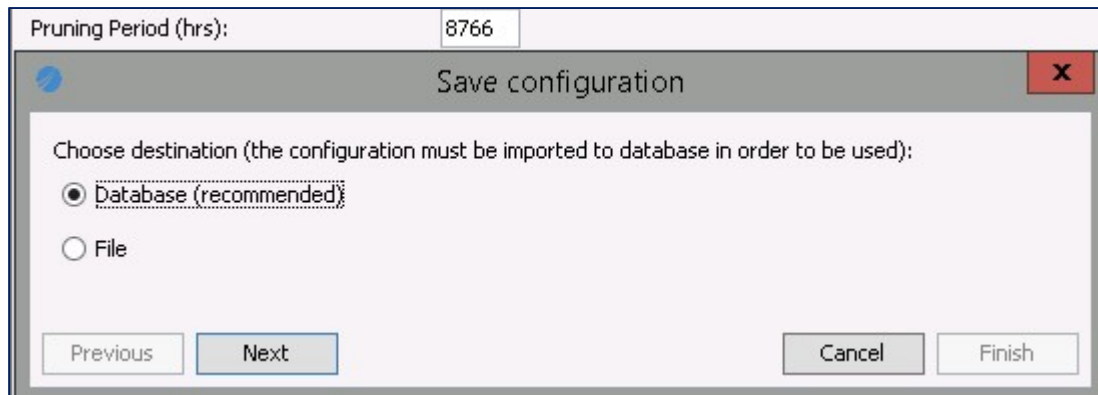
**Web service configuration**  
Allowed host (regex): .\*  
**Allowed categories:** ☐ All ☒ Some Categories

Category	Enabled
analysis_as	<input type="checkbox"/>
<b>analysis_pro</b>	<input checked="" type="checkbox"/>
<b>analysis_wp</b>	<input checked="" type="checkbox"/>
auth_as	<input type="checkbox"/>
auth_nro	<input type="checkbox"/>

Bootstrap: bootstrap file selected. Configuration: editing configuration from database  
**Save configuration...**

Save the configuration

Save to **Database**



Pruning Period (hrs): 8766

Save configuration

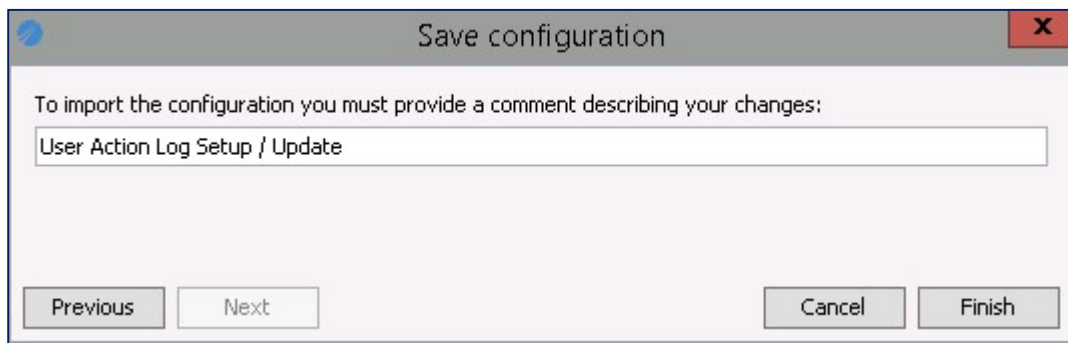
Choose destination (the configuration must be imported to database in order to be used):

☒ Database (recommended)

☐ File

Previous Next Cancel Finish

Click Next



Save configuration

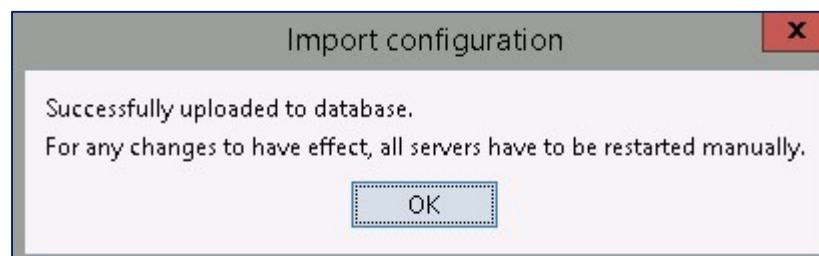
To import the configuration you must provide a comment describing your changes:

User Action Log Setup / Update

Previous Next Cancel Finish

Provide a description (ie 'Setup User Action Log' or 'Updated User Action Log')

Click Finish



Import configuration

Successfully uploaded to database.  
For any changes to have effect, all servers have to be restarted manually.

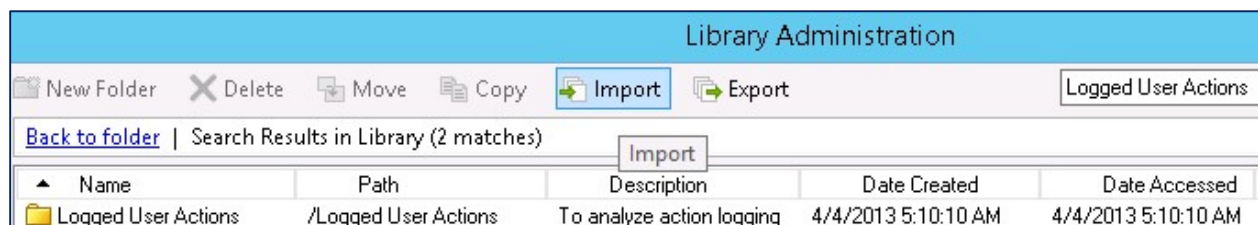
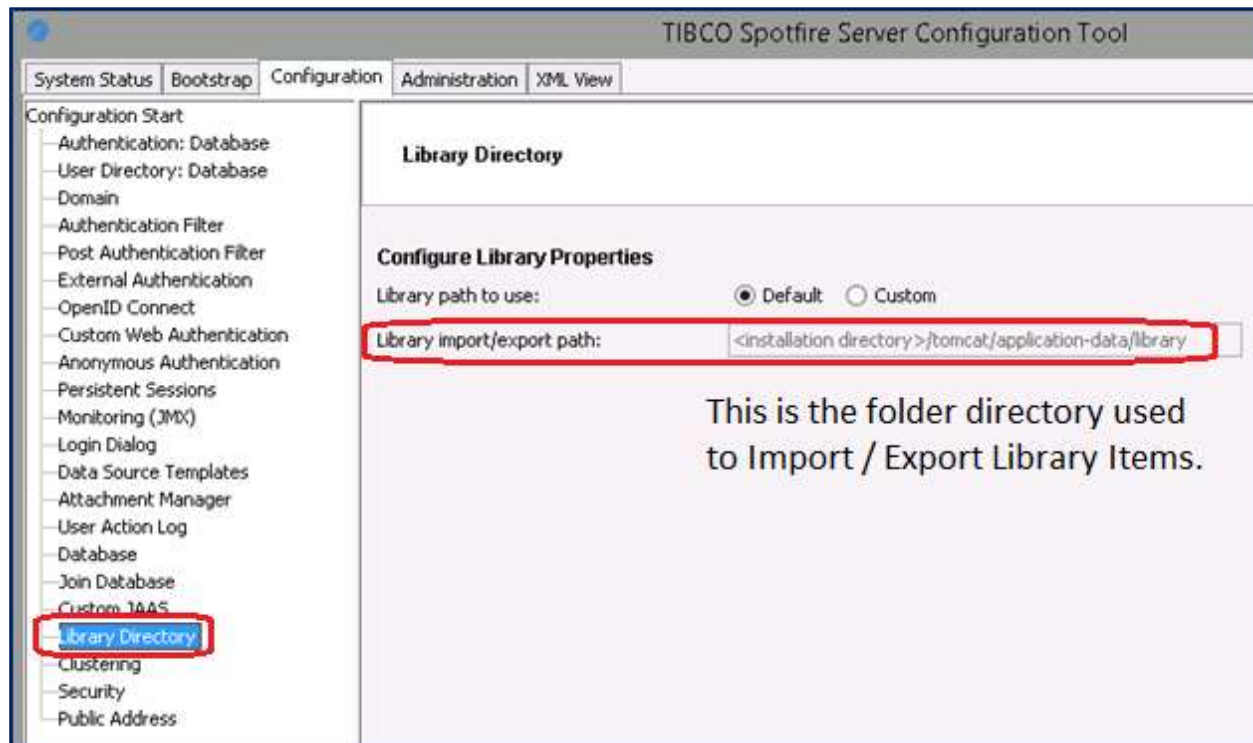
OK

Will receive a message that the TIBCO Spotfire service has to be restarted manually for logging to begin.

**Caution:** Spotfire will be down while these Services are restarted (~0-15 minutes)



Before closing out of the configuration manager, click on **Library Directory** and note the Library import/export path. So that you can Import / Export the Library Items for this (1 Data Source, Information Models, Information Links, .dxp)



Close out of **TIBCO Spotfire Server Configuration Tool**

### Disclaimer:

We don't understand completely all these settings

Not sure what happens if this Database crashes or if something goes wrong

To prevent this Database from getting too big:

Set **Pruning Period** to 3 months or 1 year

**Exclude these Log Categories:** node\_communication, monitoring\_as

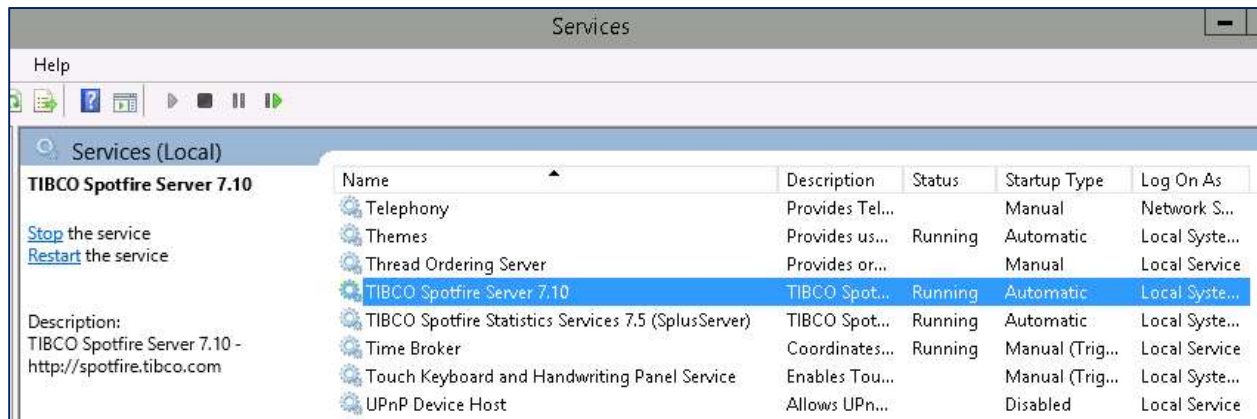
These categories produce lots of log records and are not need most of time.

LOG_CATEGORY	LOG_ACTION	Questions they answer...	# of Records	Overall Usefulness?	Enable Some Categories Default Setting
node_communication	online offline	Node Manager System Status Good for troubleshooting server issues when they occur	High	Low, in special circumstances	No
monitoring_*	counter average ...	Get Server CPU, Memory Status [ID2] Good for troubleshooting server issues when they occur	High	Low, in special circumstances	No
info_link	create_il update_il get_data load_il	When & Who is creating, updating, using information links Which Information Links are used the most [LOG_ACTION] = 'load_il'	High	Low, in special circumstances	No
analysis_* analysis_wp analysis_pro analysis_as	set_page apply_bookmark	When & Who is using Spotfire What Analyses [ID2] & Pages [ARG1] are being accessed Top 10 Users, Dashboard Avg Monthly, Weekly, Daily unique Users	Low	High	Yes
auth*	login	Count logins Get Spotfire Version [ID2]	Low	Moderate	Yes
datasource_* datasource_wp datasource_pro datasource_as	execute	When & Who is using what Data Source Which Data Sources are used the most # of Records [ARG4] Load Time [ARG3]	Low	High	Yes
data_connector_*		When, Who & Which Application is using this tool / feature Spotfire.GoogleAnalyticsAdapter Spotfire.SqlServerAdapter	Low	Moderate	Yes
file_pro	load	What Files (.csv, .xlsx, .dwp, etc) are being loaded into Spotfire K:\Payment Variance\TIBCO\LabExtract_20190906.csv C:\Users\AH8TZ\Desktop\Humana_MA_Claims.dwp	Low	Moderate	Yes
library*		Understand Library Folder Permissions by Group / User Setup & Changes with Library Permissions Open, Read, Write, Full Control	Low	High	Yes
datafunction_*	execute	When & Who is using this tool / feature [ID2] Data-on-Demand, Max Date Functions	Low	Moderate	Yes
automation_* automation_job_as automation_task_as	job_started task_started task_finished job_finished	When & Who is using this tool / feature [ID2] Exporting to PDF Embed Data in Analysis Email PDF	Low	Moderate	Yes
scheduled_updates		Get Schedule Update Status Action Log for Scheduled Updates	Low	Low, in special circumstances	Yes
routing_rules	enable, disable update, delete	Who is managing Routing Rules Action Log for Routing Rules	Low	Low, in special circumstances	Yes
ems		???	Low	Low, in special circumstances	Yes

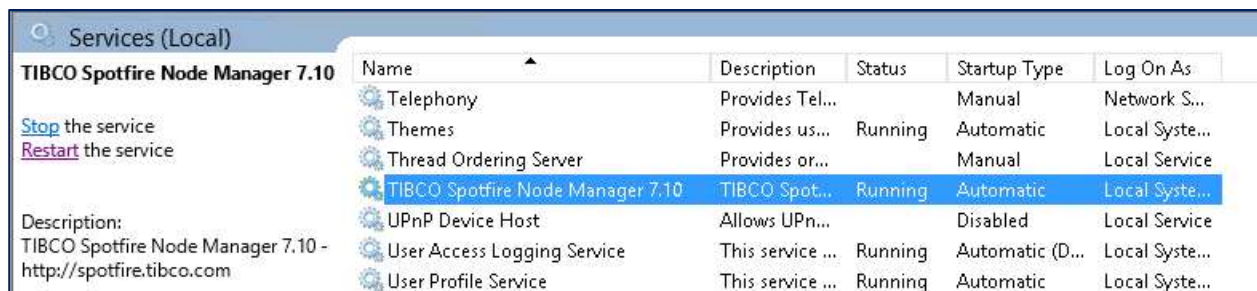
## Restart the TIBCO Spotfire Services on the BI/Explorer server(s)

TIBCO Spotfire Server 7.10

TIBCO Spotfire Node Manager 7.10



On Node Manager Server / Web Player Server  
(Another option on how to do this on next page)



Once these Services are restarted, logging will begin.

**Caution:** Spotfire will be down while these Services are Restarted (~0-15 minutes)

You can also restart the Node Manager Server / Web Player Server via **Nodes & Services**  
Click on **Update**

**McKESSON** Nodes & Services ? joseph.attokaren

**Your network** Resource pools Untrusted nodes Activity Notifications

**Network components**

Select a view:  

Nodes

Search network

[ - ] AA12R2Node1.PMHadley.com

[ - ] Automation Services

Automation Services [51b994d2]

[ - ] Web Player

Web Player [be5aff18]

AA12R2Node1.PMHadley.com

View logs

Edit Roll back Update Revoke trust

ID 2b2ab743-101f-424c-82e4-0c801e3a6115

Version 40.0.6009.3194

Port 9443/9080

Status Online

Deployment area Production

Status information

Status	From	ID	Time
✓	aa12r2phi.pmhadley.com	27b01a93-3438-4d53-b176-4d22a1585...	2019-03-01 11:33:18

Details: Node can communicate successfully.

**Update node** ✕

When you update a node its instances restart, so end users on those instances will lose any unsaved work.

Are you sure you want to update the node?

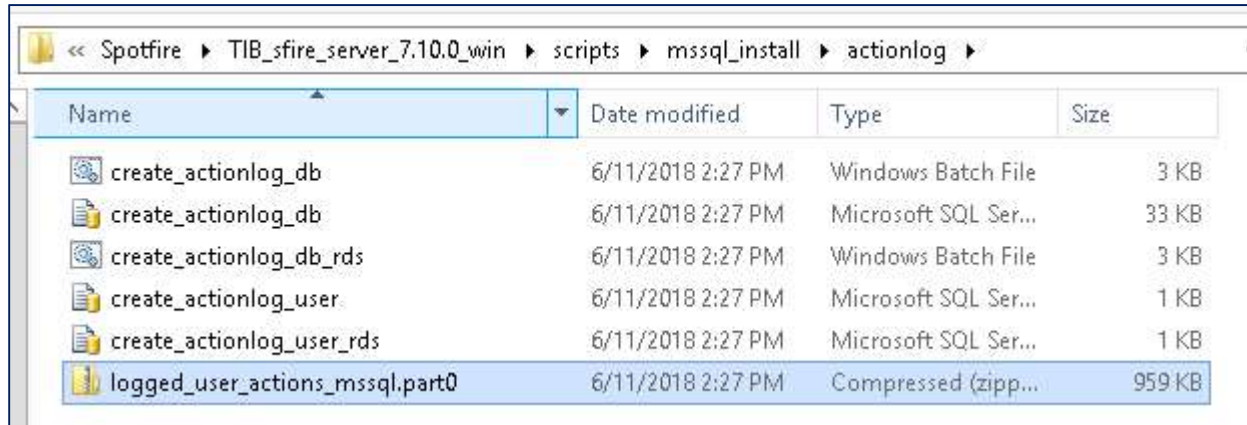
Update







Cancel

## Import TIBCO Logging Library Items & Edit Data Source [<10 min]

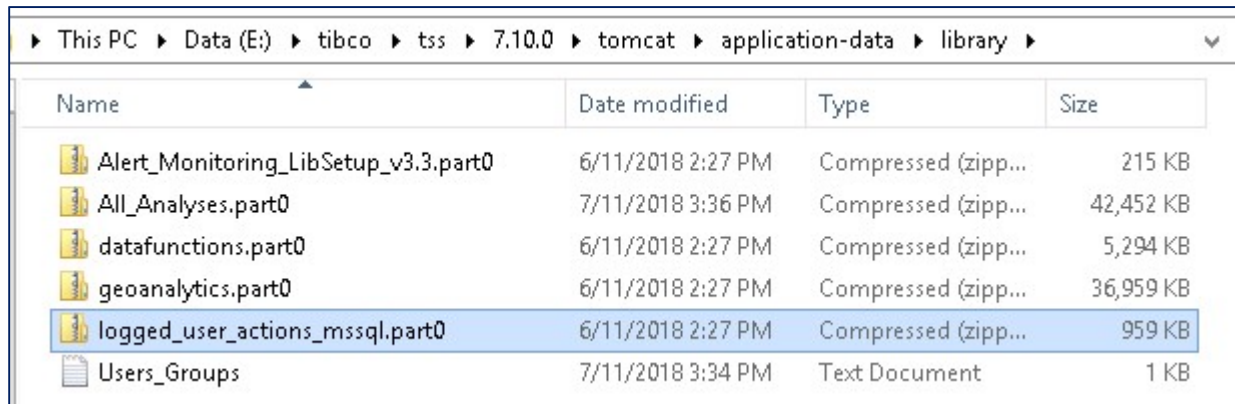
### Import the zip file below into the Spotfire Library







You will have to copy the **logged\_user\_actions\_mssql\_part0.zip** from the location below, to the import/export path noted in the screenshot above from the configuration manager.



Name	Date modified	Type	Size
 create_actionlog_db	6/11/2018 2:27 PM	Windows Batch File	3 KB
 create_actionlog_db	6/11/2018 2:27 PM	Microsoft SQL Ser...	33 KB
 create_actionlog_db_rds	6/11/2018 2:27 PM	Windows Batch File	3 KB
 create_actionlog_user	6/11/2018 2:27 PM	Microsoft SQL Ser...	1 KB
 create_actionlog_user_rds	6/11/2018 2:27 PM	Microsoft SQL Ser...	1 KB
 logged_user_actions_mssql.part0	6/11/2018 2:27 PM	Compressed (zipp...	959 KB

Copy '**logged\_user\_actions\_mssql.part0.zip**' to Spotfire Library Import/Export Directory



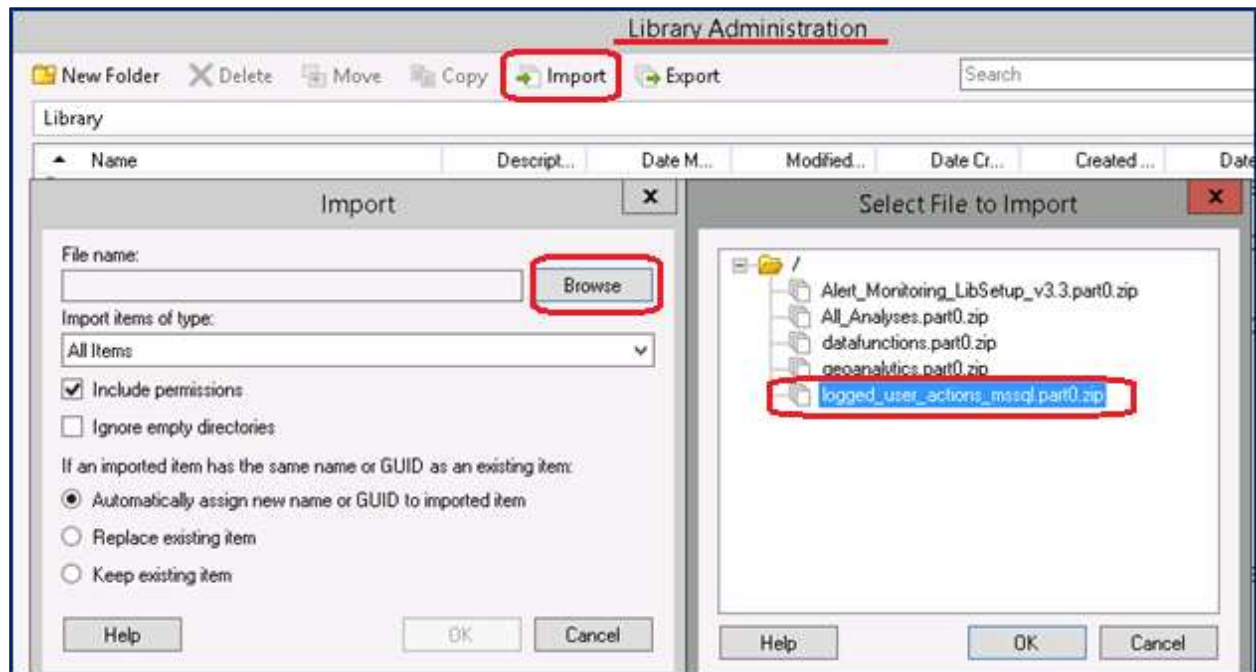
Name	Date modified	Type	Size
 Alert_Monitoring_LibSetup_v3.3.part0	6/11/2018 2:27 PM	Compressed (zipp...	215 KB
 All_Analyses.part0	7/11/2018 3:36 PM	Compressed (zipp...	42,452 KB
 datafunctions.part0	6/11/2018 2:27 PM	Compressed (zipp...	5,294 KB
 geoanalytics.part0	6/11/2018 2:27 PM	Compressed (zipp...	36,959 KB
 logged_user_actions_mssql.part0	6/11/2018 2:27 PM	Compressed (zipp...	959 KB
 Users_Groups	7/11/2018 3:34 PM	Text Document	1 KB



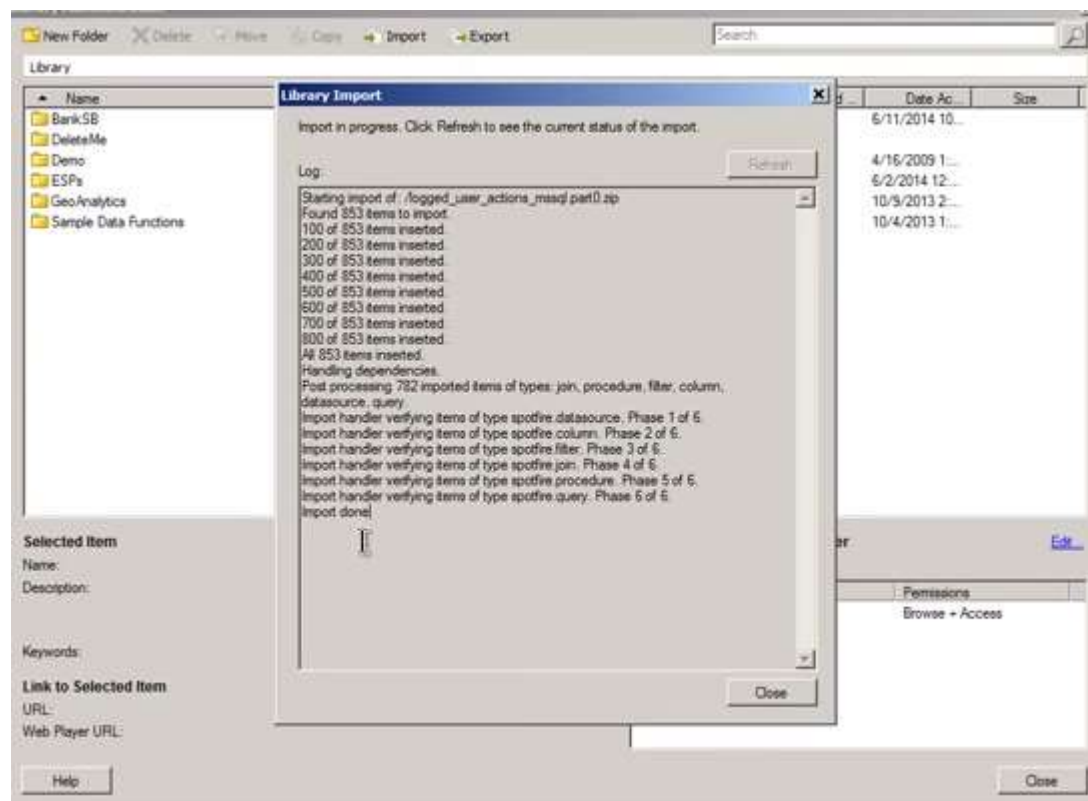
Log into the Professional Client, go to **Tools -> Library Administration**

Click **Import** then Click **Browse**

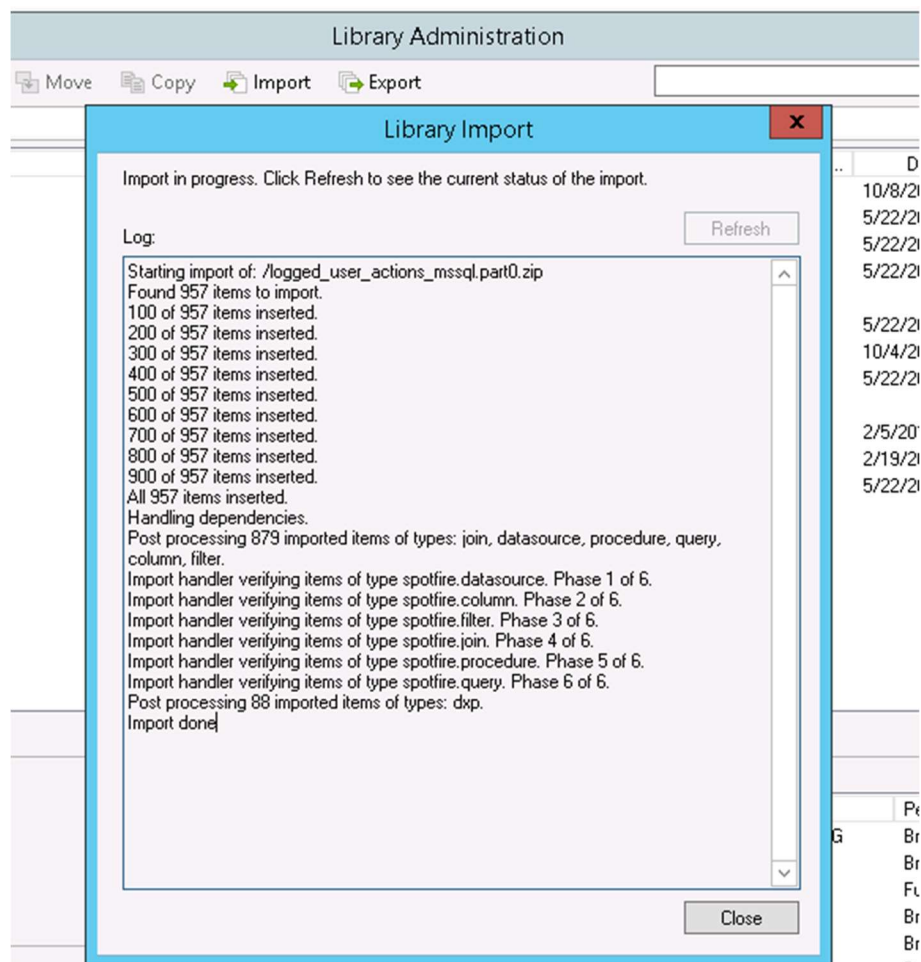
Select **logged\_user\_actions\_mssql.part0.zip** then Click **OK**



Keep hitting **Refresh** until status says **Import done** (takes a few minutes because it imports 800+ items)







Should see a new folder called **Logged User Actions** in the library

Library Administration				
New Folder	Delete	Move	Copy	Import Export
Back to folder   Search Results in Library (2 matches)				Import
Name	Path	Description	Date Created	Date Accessed
Logged User Actions	/Logged User Actions	To analyze action logging	4/4/2013 5:10:10 AM	4/4/2013 5:10:10 AM

Library / Logged User Actions				
Name	Description	Date Created	C...	Size
SPOTFIRE_ACTIONLOG		4/4/2013 5:10:10 AM	sfadmin	
user_actions		4/4/2013 5:10:10 AM	sfadmin	521 KB
ACTIONLOG		4/4/2013 5:10:10 AM	sfadmin	2.8 KB
logged_user_actions_datasource	Data source for the action log functionality	4/4/2013 5:10:10 AM	sfadmin	1.2 KB

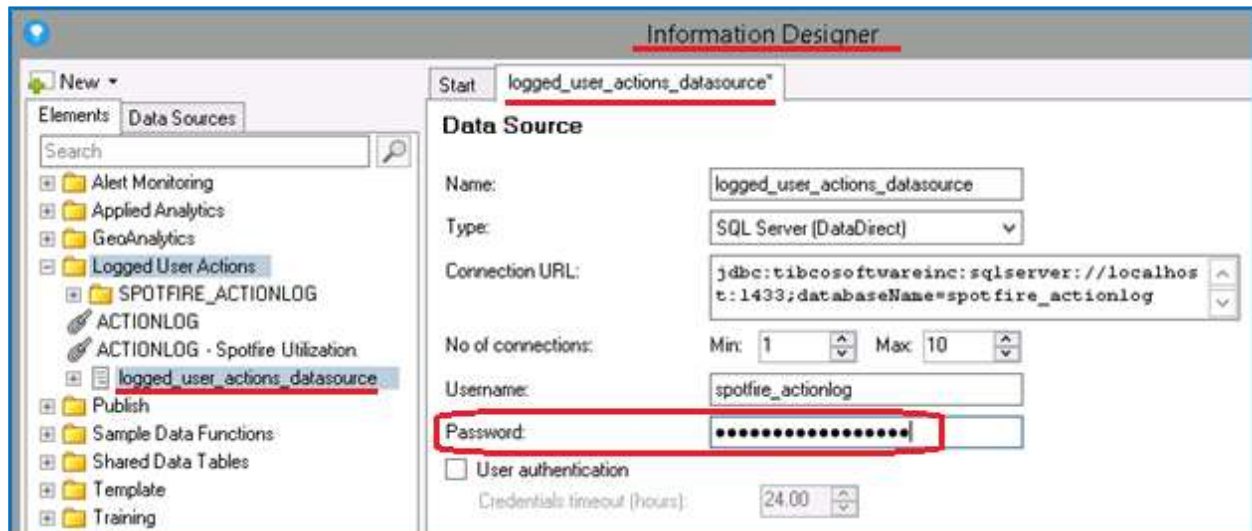
## Edit Library Data Source

From the Professional Client, go to **Tools -> Information Designer**

Should see new Data Source called '**logged\_user\_actions\_datasource**'

Edit **logged\_user\_actions\_datasource**

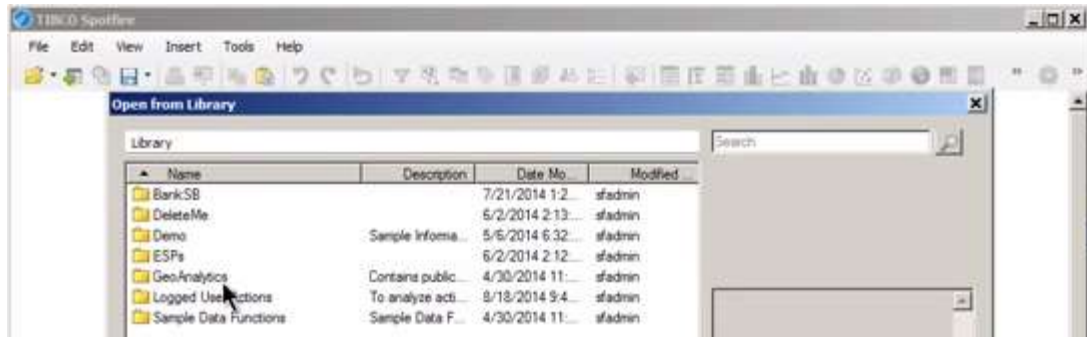
Set the **Password** to spotfire\_actionlog and **Save**



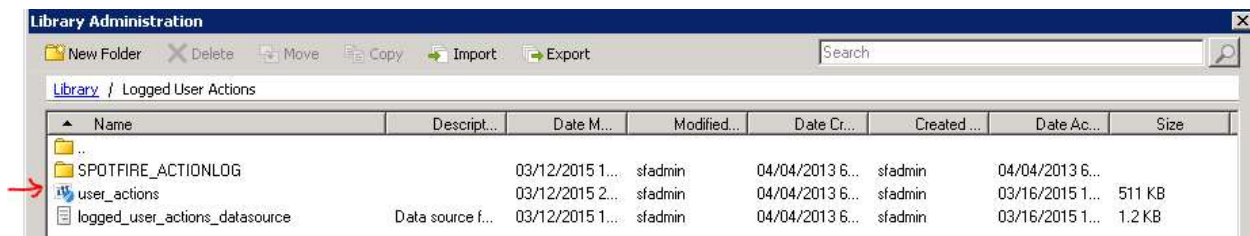
## Test that application opens with Records

From professional client click **File -> Open -> From Library**

### Find **Logged User Actions**



You will see a single dxp called **user\_actions**



Open it and you will see the following:

**Information**

*This analysis provides some examples of how to use the information gathered through user action logging and monitoring.*

**Included pages**

- [Sessions](#) - An overview of the number of sessions over time, along with detailed user activity.
- [Users](#) - Shows logged in users, together with detailed user activity drill down.
- [Library](#) - Statistics on frequently used library files, file sizes and file growth.
- [Information Links](#) - Statistics on frequently used information links, amount of transferred data and retrieval times.
- [Local Files](#) - Statistics on local files.
- [Data Connectors \(1-4\)](#) - Statistics on the usage of data connectors.
- [TSS/TSWP Monitoring](#) - Tibco Spotfire Server/Web Player monitoring.
- [Detailed Logs](#) - All logged items.

*For more information regarding action logging and monitoring, see the Action logs and system monitoring chapter in the TIBCO Spotfire Server and Environment Installation and Administration Manual.*

# Download & Install CHC Spotfire Utilization Template [10 min]

**OPTIONAL:** Business Advisor could do this later

1. Download Template from the CHC Community Portal

<https://community.changehealthcare.com/t5/Discussions-Explorer/Spotfire-Utilization-Template/m-p/11507#M771>

The screenshot shows a forum post on the community.changehealthcare.com website. The post is titled "Spotfire Utilization Template" and is by user JoeAttokaren, who is a Staff member. The post was made on 02-21-2019 at 04:13 PM and last updated on 08-01-2019 at 11:20 AM. The content of the post reads: "I introduced a Spotfire Utilization template based on User Action Log Data Source on the September 2018 Analytics Explorer User Community Call. I am curious who was able to get this template setup and working? Please respond to this post if you were able to set it up or had trouble setting it up."

2. Once downloaded, follow the **Installation Instructions** page



[Library](#) / Logged User Actions

Name	Description	Date Created	C...	Size
..				
SPOTFIRE_ACTIONLOG		4/4/2013 5:10:10 AM	sfadmin	
user_actions		4/4/2013 5:10:10 AM	sfadmin	521 KB
ACTIONLOG		4/4/2013 5:10:10 AM	sfadmin	2.8 KB
logged_user_actions_datasource	Data source for the action log functionality	4/4/2013 5:10:10 AM	sfadmin	1.2 KB
Template for Spotfire Utilization - 7.8	Download from Community Portal	11/28/2018 7:00:36 PM	sfadmin	1.0 MB
ACTIONLOG - Spotfire Utilization	Filters only for 'analysis_pro' and 'analysis_wp'	11/29/2018 12:56:55 PM	sfadmin	3.4 KB
Spotfire Utilization		11/29/2018 12:58:34 PM	sfadmin	1.2 MB