Using datasources in Zebrix

Zebrix lets you use data sources within your pages. This way, instead of manually entering the content in your zones, the contents are synchronized from a data source.

1. How does it work ?

Your existing data sources (databases, data from a webservice, CSV export, etc.) can be synchronized with the server zebrix periodically (every X minutes / hours) or at an event. Once zebrix detects that these data changes, it updates the contents of screens instantaneously.

2. How to synchronize data to zebrix ?

There are two ways to synchronize your data with zebrix:

- The “Zebrix Connector” program (currently in beta version) is the easiest solution.

There is no costs related to a specific development. While responding to the case of the most common usage, the Zebrix Connector includes certain limitations.

- The development of a specific synchronization program is the most flexible and efficient solution but generates a cost and development delay to be taken into consideration.

This development can be supported by the development team Zebrix or by any developer which has the “how to use the zebrix API” explanation.

2.1 Usage of the "Zebrix Connector"

The Zebrix Connector is a software solution for synchronizing data on Windows easy to learn and consists of two applications:

- **A configurator:** allowing you to easily define your “Data Links” and specify the data to be synchronized by applying filters and conditions.
  * **A Windows service:** runs in the background as a service and ensures data synchronization based on the “data link” that have been configured.

Synchronization is initiated either on the basis of a specified interval (every X seconds / minutes / hours) or on the basis of the detection of a change of data (only with file oriented databases (csv, xls)). Zebrix Connector must be installed on a Windows computer (server or workstation) with access to the source database and ODBC on which a link has to be created. The Zebrix Connector is in theory compatible with any type of database for which an ODBC driver exists for Windows. Zebrix team has already tested:

- CSV
- XLS (Microsoft Excel)

* MDB (Microsoft Access)
* MySQL
* PostgreSQL
* Microsoft SQL Server
* Oracle

For servers with GNU / Linux, Mac OS, Unix or other operating systems or data source, the Connector Zebrix is not available and the development of a specific connector is required.

2.2 Development of a specific synchronization tool

The Zebrix development team is able to develop a specific connector that can retrieve data from your information system and synchronize it to Zebrix. For information about this, please take contact with your zebrix dealer or zebrix support support@zebrix.net

Frequently Requested for a specific development:

- CSV export, XML export, export JSON
  * MySQL on Linux or Unix
  * PostgreSQL on Linux or Unix
  * Data files from a web server, FTP or Web services

3. How to install the Zebrix Connector ?

Start the setup . Please follow instructions:

- Start of the installation - click next

- At this step you can choose to add a shortcut on your desktop

- Click on install and it's done !

Folder “ZebrixConnector” will be created in the root of C: with all relevant files to the execution of software. You can verify that the Windows service “Zebrix Connector” is present among the other services :

Start> Run> services.msc Select the service “Zebrix Connector” and click Start at the top left to start the service.

To start the configurator click on this icon

4. Zebrix Connector startguide

4.1 homescreen



Here you can see all Datalinks created with Zebrix Connector and information about them:

1. Its name
   - Its update frequency
   - The names of columns you've chosen to synchronize

Icons description:

-  To create a new DataLink
-  To edit an existing DataLink
-  To delete a DataLink

4.2 Steps for datalink creation

4.2.1 Connection

- Click on the datalink creation button.
  - First step: Specify the ODBC connection to the database and chose which table you want to get data from



- The connection is made via the ODBC driver previously created. It can be created in two different types:
  - User (User accessible only)

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* System (accessible by the system - best choice !)
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    * The second option concerns the fact whether a login / password to connect to the database is needed

  - You can then choose the database and the table you want to use (screenshot below)



4.2.2 Filters

- After connecting, two tabs appear:
  - Filters

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* Update & Save
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* You can see on the screen below the various filters that can be applied on our table



- Different filters Check all / Uncheck all (just check / uncheck all) or so, we do not check that the relevant columns.
    - Number of rows (number of lines) which limits the result to a required number of lines
      * Refresh (Refresh) that visually update the table according to the filters applied
      * There are 3 advances filters:

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* Allows a given column select a range of values □□(between 1 and
3 in the following example)
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    - Allow to filter by a value comparaison (>, <, =, ⇐, >=) on a given column



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* Allow to replace a given value (in the column of your choice) by another.
For example this feature will allow you to replace a "True / False" boolean
value by another text string such as "Open / Close" or "Available / Not
available" you can also replace a stock value "0" to the "Out of stock"
text. Please note that that would of course not change the data in your
source database.
```



- In the following example, the filters “between” and “select” has been set up. We want the volumes that are between 1 and 3, and the name of the series is Tintin by displaying the first 5 columns.



- Next, we want to use the french word “Faux” instead of False, so we set up a “replace” filter



4.2.3 Interval of the data update and save of the DataLink

- On this page, you can choose the update frequency (automatic for file oriented databases (csv, xls)) in seconds, minutes or hours.
    - You must fill in your zebrix client name, username and password
      * You can choose the name of the datalink (it will appear with that name in the zebrix cms)

Warning, the datalink name must be unique.



- Then you just have to confirm. If you see the confirmation message it means that the first synchronisation is done (if you have an error it might mean that your client name, username, password could be wrong)



- The datalink has been added. You can created as many datalink you want.



4.3 edition of an existing DataLink

- Click on the Change button to return to the state the parameters that had been selected when creating, which allows to make changes more quickly. For example, if we take monitoring the creation of the DataLink above, a change to allow us to directly modify the different filters applied (see screen below)



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* Once you save your changes, simply save the DataLink as when created.
* Warning: it is not possible to change the database and the table on which
the different filters applied or change the name of DataLink.
```

4.4 Deletion of a DataLink

- Once you save your changes, simply save the DataLink as when created.
  - Warning: it is not possible to change the database and the table on which the different filters applied or change the name of DataLink.

5. How to your datasources on a zebrix page

2. Create a new page
3. Add the datasources you want to use in the page



4. Add a new zone
5. Specify that the zone is a “dynamic datasource”



6. Specify which field you need to display



7. Data will automatically be updated in that zone after each synchronization.

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