

Using ConfiDoc to connect to Database



This tutorial is valid for **ConfiForms** plugin as well (when you setup your database connections)

We will start with configuration of the datasource (connection to database)

To make things simpler, we will use the same database used by Confluence, using the same database driver.

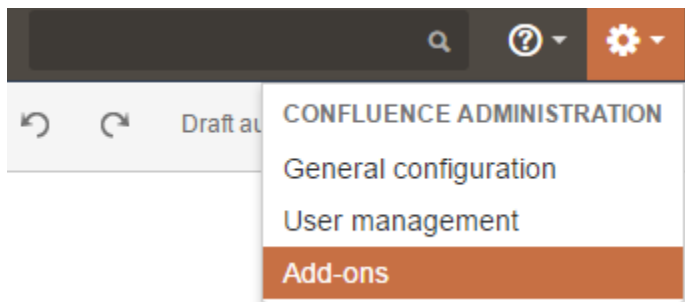
However, ConfiDoc can connect and show the data from any database, as long as you provide the database driver, have network access to that database from your Confluence server and provide correct connection details.

1. Database connection setup for ConfiDoc
2. Using this connection to show the data on Confluence page
 - a. as table
 - b. as list (with very custom layout)
3. Making sure the connection usage is restricted to be used by Confluence admins only (the results will be shown to any user who has permissions to view the page where results are shown)

Let's start with #1

Connections to any sources (with ConfiDoc) are configured by Confluence admins. This is to enable single point of control and awareness of the systems integrated through ConfiDoc into Confluence.

Configuration UI is accessible through the Settings-Add-ons menu (right upper corner)



And then looking into ConfiDoc add-on listing

User-installed add-ons

>  Atlassian Hipchat Integration Plugin

>  Atlassian Hipchat Integration Plugin Core

>  Atlassian Universal Plugin Manager Plugin

 **Confidoc plugin for Confluence to include data from any sources, including JSON, SQL, XML, CVS**

The easiest way to create content mashups (include and reuse the content and excerpts), consume and view the data from REST/XML services, CSV files and RSS feeds in Confluence.

ConfigureUninstallDisable



Screenshots (6)

Version: 3.0.3

Vendor: Vertuna LLC

Add-on key: com.vertuna.confluence.plugin.s.confirest

[Stop watching](#)

[Marketplace listing](#)

[Full pricing details](#)

[35 of 35 modules enabled](#)

And clicking on "Configure" button. You will be directed to the URL, similar to this

<https://YOURSERVER/admin/vertuna/confidoc/config.action>

Click on "Add Configuration" button and choose "Database connection" as connection type

Add Configuration

New Configuration

Connection type:  Database connection

Name:

The name for your configuration, will be visible to users

Database query 

You can use placeholders for parameters which can be later set by users of this configuration (in macro editor).
Parameters should be wrapped in brackets (like `[]`), should be alphanumeric (unless you want to urlencode it, see example below), no spaces allowed.

- `https://jira.atlassian.com/rest/api/latest/issue/[PARAM1]`
- `SELECT * FROM purchases WHERE id=[MYPURCHASEID]`

If you need to `UrlEncode` the parameter's value then use the following notation: `{{[PARAM1]}}`

Username

Password

Connection URL

Driver class name

Your database driver must be located in Confluence WEB-INF/lib or in server lib directory in order for this to work

You will need to type some technical details in here, and a SQL query which you want to use with this connection/configuration



Important bit is that if you connect to external database you will need to place a JDBC database driver to your database into Confluence installation directory under WEB-INF/lib or even into shared libraries to avoid classloading issues

Preferably, it should be in **<install-dir>/lib** - this is the directory that has other tomcat jars. If you have a **much older version of Confluence** that does not have this directory, look for **<install-dir>/common/lib** instead.

Here is what we have configured in this tutorial:

Edit Configuration

Connection type:	Database connection
Name:	demo table
The name for your configuration, will be visible to users	
Database query:	SELECT * FROM CD_DEMO Test
You can use placeholders for parameters which can be later set by users of this configuration (in macro editor). Parameters should be wrapped in brackets (like <code>[]</code>), should be alphanumeric (unless you want to urlencode it, see example below), no spaces allowed.	
• <code>https://jira.atlassian.com/rest/api/latest/issue/[PARAM1]</code> • <code>SELECT * FROM purchases WHERE id=[MYPURCHASEID]</code>	
If you need to UriEncode the parameter's value then use the following notation: <code>[]([PARAM1])</code>	
Username	confl
Password	
Connection URL	jdbc:postgresql://localhost:8888/confl
Driver class name	org.postgresql.Driver
Your database driver must be located in Confluence WEB-INF/lib or in server lib directory in order for this to work	

You can use "Test" button to test the connection (access, authorization) and permissions (database permissions in this case)

Click, "Save" and we are done with configuration

Now we can move on to #2 and create some views over the data

The table we query has 3 columns, and just 2 rows at the moment

You can see this by placing one of the views macros (TableView, ListView or PlainView) and seeing it in the preview mode

Table view for Confluence ConfiDoc plugin [Documentation](#)

Name of the service/configuration to use *

demo table

Define new configurations

Services are defined by Confluence administrators through ConfiDoc plugin configuration UI

Root element to use

When you need to show a subset of data returned

Sorting/Ordering

Preview

Hide

The following fields are defined in the REST service **demo table** and can be referenced from here (using **ConfiDoc Field** macro)).

- `_id`
- `id`
- `link`
- `name`

Raw output

```
[
  {
    "name": "ConfiForms add-on for Confluence"
    "link": "https://marketplace.atlassian.com/plugi
    "id": 1,
    "_id": "ee25038d-d3f6-41ba-880b-9603e2d8f344"
  },
  {
```

Select macro

Save

Cancel

Here is the live data from this configuration:

- as Table (ConfiDoc TableView)

Name	Link
ConfiForms add-on for Confluence	https://marketplace.atlassian.com/plugins/com.vertuna.confluence.plugins.confiform/server/overview
Smart Templates & Pages nice app	https://marketplace.atlassian.com/plugins/com.vertuna.confluence.plugins.smart-templates/cloud/overview
ConfiDoc add-on for Confluence	https://marketplace.atlassian.com/plugins/com.vertuna.confluence.plugins.confirest/server/overview

```
<ac:structured-macro ac:macro-id="58f5fa4c-3ee3-4e71-bbb4-b70fb611ab17" ac:name="confidoc-table" ac:
schema-version="1">
  <ac:parameter ac:name="serviceId">fa7cbd79-df33-4978-a9ea-889c3da17902</ac:parameter>
  <ac:parameter ac:name="atlassian-macro-output-type">INLINE</ac:parameter>
  <ac:rich-text-body>
    <p>
      <ac:structured-macro ac:macro-id="ab84a999-05b9-4803-9675-5ccbe90fa386" ac:name="confidoc-
field" ac:schema-version="1">
        <ac:parameter ac:name="name">name</ac:parameter>
        <ac:parameter ac:name="label">Name</ac:parameter>
      </ac:structured-macro>
    </p>
    <p>
      <ac:structured-macro ac:macro-id="1e2b6020-2442-4c07-828c-6e3092045310" ac:name="confidoc-
field" ac:schema-version="1">
        <ac:parameter ac:name="name">link</ac:parameter>
        <ac:parameter ac:name="label">Link</ac:parameter>
        <ac:parameter ac:name="type">Link</ac:parameter>
      </ac:structured-macro>
    </p>
  </ac:rich-text-body>
</ac:structured-macro>
```

- as List (ConfiDoc ListView)

ConfiForms add-on for Confluence

<https://marketplace.atlassian.com/plugins/com.vertuna.confluence.plugins.confiform/server/overview>

Smart Templates & Pages nice app

<https://marketplace.atlassian.com/plugins/com.vertuna.confluence.plugins.smart-templates/cloud/overview>

ConfiDoc add-on for Confluence

<https://marketplace.atlassian.com/plugins/com.vertuna.confluence.plugins.confirest/server/overview>

```
<ac:structured-macro ac:macro-id="57192aef-e4cd-428b-9a7c-9ef95d572ba8" ac:name="confidoc-list" ac:
schema-version="1">
  <ac:parameter ac:name="serviceId">fa7cbd79-df33-4978-a9ea-889c3da17902</ac:parameter>
  <ac:parameter ac:name="atlassian-macro-output-type">INLINE</ac:parameter>
  <ac:rich-text-body>
    <h1>
      <ac:structured-macro ac:macro-id="a78f4fc3-a32b-49ef-948b-4561e03aec23" ac:name="confidoc-field" ac:
schema-version="1">
        <ac:parameter ac:name="name">name</ac:parameter>
        <ac:parameter ac:name="label">Name</ac:parameter>
      </ac:structured-macro>
    </h1>
    <div>
      <ac:structured-macro ac:macro-id="be458501-230a-4467-b11b-63e7313baa11" ac:name="confidoc-field" ac:
schema-version="1">
        <ac:parameter ac:name="name">link</ac:parameter>
        <ac:parameter ac:name="label">Link</ac:parameter>
        <ac:parameter ac:name="type">Link</ac:parameter>
      </ac:structured-macro>
    </div>
  </ac:rich-text-body>
```

#3 is an option step, which allows you to setup restrictions on ConfiDoc configuration usage.

Go to ConfiDoc connections administration UI and click on edit for our "demo table connection"

The last setting on the form will help you to define which users and user groups are allowed to use this connection

We set it to be used by "confluence-administrators" group

Edit Configuration

Connection type:

Name:
The name for your configuration, will be visible to users

Database query:

You can use placeholders for parameters which can be later set by users of this configuration (in macro editor).
Parameters should be wrapped in brackets (like []), should be alphanumeric (unless you want to urlencode it, see example below), no spaces allowed.

- `https://jira.atlassian.com/rest/api/latest/issue/[PARAM1]`
- `SELECT * FROM purchases WHERE id=[MYPURCHASEID]`

If you need to UriEncode the parameter's value then use the following notation: `{[PARAM1]}`

Username:

Password:

Connection URL:

Driver class name:
Your database driver must be located in Confluence WEB-INF/lib or in server lib directory in order for this to work

Restrictions:
Comma separated user groups and/or users who should have access to this configuration
And will be able to use it using ConfiDoc macros

Other database connection strings can be found here:

Driver	Connection string
MySQL/ com.mysql.jdbc.Driver	 For mySQL driver you will need to enable "generateSimpleParameterMetadata" parameter <code>jdbc:mysql://localhost:3306/mydb?generateSimpleParameterMetadata=true</code>
PostgreSQL/ org.postgresql.Driver	<code>jdbc:postgresql://:/?user=&password=</code>
IBMDB2/ COM.ibm.db2.jdbc.app. DB2Driver	<code>jdbc:db2://:/?user=&password=</code>
MSSQL(MicrosoftDriver)/ com.microsoft.jdbc.sqlserver. SQLServerDriver	<code>jdbc:microsoft:sqlserver://:;databaseName=?user=&password=</code>
MSSQL(Weblogic)/ weblogic.jdbc.mssqlserver4. Driver	<code>jdbc:weblogic:mssqlserver4:@:</code>
MSSQL(SprintaDriver)/ com.inet.tds.TdsDriver	<code>jdbc:inetdae:?:?database=?user=&password=</code>

MicrosoftSQLServer (JTurboDriver)/ com.ashna.jturbo.driver.Driver	j d b c : J T u r b o : / / : / / u s e r = / p a s s w o r d =
Microsoft SQL Server/ com.microsoft.sqlserver.jdbc. SQLServerDriver	j d b c : s q l s e r v e r : / / y o u r s e r v e r . d a t a b a s e . w i n d o w s . n e t : 1 4 3 3 ; d a t a b a s e = Y o u r D a t a b a s e ; u s e r = y o u r u s e r n a m e @ y o u r s e r v e r ; p a s s w o r d = y o u r p a s s w o r d ; e n c r y p t = t r u e ; t r u s t S e r v e r C e r t i f i c a t e = f a l s e ; h o s t N a m e I n C e r t i f i c a t e = * . d a t a b a s e . w i n d o w s . n e t ; l o g i n T i m e o u t = 3 0 ; https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url?view=sql-server-2017
Microsoft SQL Server (alternative, newer) / com. microsoft.jdbc.sqlserver.SQLS erverDriver	j d b c : s q l s e r v e r : / / Y o u r S e r v e r : P o r t ; d a t a b a s e N a m e = Y o u r D a t a b a s e More details on https://docs.microsoft.com/en-us/sql/connect/jdbc/using-the-jdbc-driver https://docs.microsoft.com/en-us/sql/connect/jdbc/building-the-connection-url?view=sql-server-2017
OracleThin/ oracle.jdbc.driver. OracleDriver	j d b c : o r a c l e : t h i n : / @ : :
Oracle(OranhoDriver)/ com.inet.pool.PoolDriver	j d b c : i n e t p o o l : i n e t o r a : ? d a t a b a s e = & u s e r = & p a s s w o r d = & s i d =
Sybase(jConnect5.2)/ ncom.sybase.jdbc2.jdbc. SybDriver	j d b c : s y b a s e : T d s : : ? u s e r = & p a s s w o r d =
PointBaseEmbeddedServer/ com.pointbase.jdbc. jdbcUniversalDriver	j d b c : p o i n t b a s e : / / e m b e d d e d : / ? u s e r = & p a s s w o r d =
Cloudscape/ COM.cloudscape.core. JDBCDriver	j d b c : c l o u d s c a p e : ? u s e r = & p a s s w o r d =
CloudscapeRMI/ RmiJdbc.RJDriver	j d b c : r m i : / / : / j d b c : c l o u d s c a p e : ? u s e r = & p a s s w o r d =
Firebird(JCA-JDBCDriver)/ org.firebirdsql.jdbc.FBDriver	j d b c : f i r e b i r d s q l : / / : / ? u s e r = & p a s s w o r d =
IDSServer/ ids.sql.IDSDriver	j d b c : i d s : / / : / c o n n ? d s n = ' '
InformixDynamicServer/ com.informix.jdbc.IfxDriver	j d b c : i n f o r m i x - s q l i : / / : / : I N F O R M I X S E R V E R =
InstantDB/ org.enhydra.instantdb.jdbc. idbDriver	j d b c : i d b :
Interbase(InterClientDriver)/ interbase.interclient.Driver	j d b c : i n t e r b a s e : / / /
HypersonicSQL/ org.hsql.jdbcDriver	j d b c : H y p e r s o n i c S Q L : ? u s e r = & p a s s w o r d =