

1 Database creation scripts

Overview

A Zabbix database must be created during the installation of Zabbix server or proxy.

This section provides scripts for creating a Zabbix database. A separate schema script is provided for each supported database.

`schema.sql`, `images.sql` and `data.sql` files are located in the `database` subdirectory of Zabbix sources. If Zabbix was installed from distribution packages, refer to the distribution documentation. For a Zabbix proxy database, **only** `schema.sql` should be imported (no `images.sql` nor `data.sql`)

Scripts

MySQL

```
shell> mysql -uroot -p<password>
mysql> create database zabbix character set utf8 collate utf8_bin;
mysql> grant all privileges on zabbix.* to zabbix@localhost identified by
'<password>';
mysql> quit;
shell> cd database/mysql
shell> mysql -uzabbix -p<password> zabbix < schema.sql
# stop here if you are creating database for Zabbix proxy
shell> mysql -uzabbix -p<password> zabbix < images.sql
shell> mysql -uzabbix -p<password> zabbix < data.sql
```

PostgreSQL

We assume that a `username` user exists and has permissions to create database objects.

```
shell> psql -U <username>
psql> create database zabbix;
psql> \q
shell> cd database/postgresql
shell> psql -U <username> zabbix < schema.sql
# stop here if you are creating database for Zabbix proxy
shell> psql -U <username> zabbix < images.sql
shell> psql -U <username> zabbix < data.sql
```

Oracle

We assume that a `zabbix` database user with `password` password exists and has permissions to create database objects in ORCL service located on the `host` Oracle database server with a `user shell` user having write access to `/tmp` directory.

If you are creating a database for Zabbix server you need to have images on a predefined location on Oracle host. Copy all images from misc/images/png_modern to /tmp/zabbix_images directory on Oracle host:

```
shell> cd /path/to/zabbix-sources
shell> scp -r misc/images/png_modern user@host:/tmp/zabbix_images
```

Now prepare the database:

```
shell> cd database/oracle
shell> sqlplus zabbix/password@host/ORCL
sqlplus> @schema.sql
# stop here if you are creating database for Zabbix proxy
sqlplus> @images.sql
sqlplus> @data.sql
```

After executing the images.sql script the /tmp/zabbix_images temporary directory can be removed.

Zabbix requires a UTF-8 database character set. If database is not UTF-8, it can be converted by running: ALTER DATABASE NATIONAL CHARACTER SET UTF8;

IBM DB2

```
shell> db2 "create database zabbix using codeset utf-8 territory us pagesize 32768"
shell> cd database/ibm_db2
shell> db2batch -d zabbix -f schema.sql
# stop here if you are creating database for Zabbix proxy
shell> db2batch -d zabbix -f images.sql
shell> db2batch -d zabbix -f data.sql
```

It is important to set UTF-8 locale for Zabbix server, Zabbix proxy and web server running Zabbix frontend. Otherwise text information from Zabbix will be interpreted by IBM DB2 server as non-UTF-8 and will be additionally converted on the way from Zabbix to the database and back. The database will store corrupted non-ASCII characters.

SQLite

```
shell> cd database/sqlite3
shell> sqlite3 /var/lib/sqlite/zabbix.db < schema.sql
# stop here if you are creating database for Zabbix proxy
shell> sqlite3 /var/lib/sqlite/zabbix.db < images.sql
shell> sqlite3 /var/lib/sqlite/zabbix.db < data.sql
```

If using SQLite with Zabbix proxy, database will be automatically created if it does not exist.

Return to the [installation section](#).

From:

<https://www.zabbix.com/documentation/3.0/> - **Zabbix Documentation 3.0**

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