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Context Restore

Documentation

v1.00

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Content

1. Introduction

This document contains descriptions about the context restore bundle. This bundle is a solution for restoring one single context out of a mysql dump from a complete Open-Xchange database. In a distributed setup, it is possible to use several files containing the dumps of different databases. The tool described within this document does fetch the needed informations out of these files.

1.1. Architecture

The context restore bundle is designed as an admin bundle so it gets installed into the OSGi environment of the OX admin daemon.

2. Deliverables

2.1. Package description

The package `open-xchange-admin-plugin-contextrestore` contains the bundle itself and the corresponding configuration files. The bundle will get installed as a directory below `/opt/open-xchange/bundles`. The configuration file can be found in:

`/opt/open-xchange/etc/admindaemon/plugin/contextrestore.properties`.

3.   Limitations

For the restore process, the tool requires some information to be available in the database. One is the availability of the old database pool id. The tool will dig out the pool id the context used before from the mysql dump, and will try to get a connection to the corresponding database through this pool id. If the pool id does not exist any more, an error is thrown.

The same applies to the filestore_id.

4.   Requirements

For correct operation, it is required that the mysql dumps for this tool represent a consistent state of all databases the Open-Xchange server has under control. Furthermore this consistent state needs also to include the backup of the filestore.

5.   Installation

After the package has been installed, a new shell script named `restorecontext` is to be found under `/opt/open-xchange/sbin`. The admin daemon needs to be restarted to make the new functionality available. The functionality is accessible via RMI, CLT and SOAP.

5.1.   Usage

A complete database backup has to be done before the new function can be used. The Tool described within this document requires a full SQL dump of the databases involved. This can be done by executing the command `mysqldump --all-databases --single-transaction`, on all database machines registered in Open-Xchange as well as the configuration Database. These two parameters are very important. The first one lets the dump contain every database on the specified database host, and the second is used for a consistent backup. Instead of `--all-databases` you can also use `--database` with the right database(s), if none of the switches are given as direct argument then mysql will left out essential data in the dump. For a full backup the switch `--all-databases` is recommended.

The usage of the command line tool is self-explanatory as it confirms to the standard unix behavior. `--help` will show a short help with the available parameters.

The main arguments of the tool are different database dumps (from the configdb and the distributed user data databases). On success the tool returns the path to the filestore of the given context. The files below this path have to be restored afterwards in a separate process which is not part of the Open-Xchange system.

An example of a restore would look like this:

```
restorecontext -A <username> -P <password> -c 7777 -f  <complete
path to configdb dump>,<complete path to first user data database
dump>[,<complete path to the n-th user data database dump>]
```

```
file:///tmp/filestore2/7777_ctx_store
```

Note that the parts in <> have to be replaced by the parameters for your setup