



EMC® Watch4net®

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MySQL Resynchronizer User Guide

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EMC²

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Preface

The purpose of this guide is to provide information about the *APG-MySQL Resynchronizer* and the way to use it. This guide includes all necessary information to use any option and configuration of it.

Intended Audience

This guide is intended to be read by any administrator who will need to fill data hole in a mirror installation of *APG*.

Document Organization

1. Overview	This section gives an overview of the <i>APG-MySQL Resynchronizer</i> .
2. Installation	This section explains the installation of the application.
3. Configuration	This section explains how to configure the application.
4. Usage	This section describes how to use the application.

Where to get help

EMC support, product, and licensing information can be obtained as follows:

PRODUCT INFORMATION - For documentation, release notes, software updates, or information about EMC products, go to EMC Online Support at:

<https://support.emc.com>

TECHNICAL SUPPORT - Go to EMC Online Support and click Service Center. You will see several options for contacting EMC Technical Support. Note that to open a service request, you must have a valid support agreement. Contact your EMC sales representative for details about obtaining a valid support agreement or with questions about your account.

1

Overview

The *APG-Mysql Resynchronizer* has been designed to fill a data hole in an identical installation of *APG*. The common case is two installations are identically setup to reduce the risk of losing data if a collector fails. In case a collector fails for one of the installations, it is possible to use the data from the other installation to fill the hole caused by the fail of the collector.

This command-line application can only be used with MySQL. Other databases are currently not supported.

Please note the APG-Backend of the receiver of the data must be STOPPED before using this tool.

Using this tool while the remote APG-Backend is running may cause unpredictable effects to the data.

2

Installation

This tool is located in the `Tools/Mysql-Resynchronizer/<Instance>` directory of *APG*. It can not be used without *APG*.

3

Configuration

The file `conf/logging.properties` can be edited to change the way the application logs events.

The file `conf/mysql-resynchronizer.xml` contains the mandatory configuration. Here is a configuration example:

```
<?xml version="1.0" encoding="UTF-8"?>
<conf xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://www.watch4net.com/APG/Tool/FillDataHole_fill-data-hole.xsd"
      xmlns="http://www.watch4net.com/APG/Tool/FillDataHole">

  <host-side>
    <backend-tmp-dir>/opt/APG/APG-Backend/tmp</backend-tmp-dir>
    <mysql-conf-path>/opt/APG/APG-Backend/conf/mysql.xml</mysql-conf-path>
  </host-side>

  <remote-side>
    <mysql-conf-path>/opt/APG/APG-Backend/conf/mysql.xml</mysql-conf-path>
    <mysql-schema-conf-path>/opt/APG/APG-Backend/conf/mysql.xsd</mysql-schema-conf-path>
    <ip>192.168.0.1</ip>
  </remote-side>
</conf>
```

```
</remote-side>

<transfert-command>scp -B user@192.168.0.1:"${src}" "${dst}"</transfert-command>
</conf>
```

The host side is the side from where will come the data. The remote side is the side that will receive data. The `ip` tag of the remote side must contain the ip to access the remote machine from the host machine. The transfer command is needed to transfert the mysql configuration file from the remote side to the host side to establish a connection to the remote mysql *APG* database.

The remote mysql *APG* database must allow connection from the host side. By default, it is not permitted. To enable it, use the `mysql-client` script located in the `bin` directory of *APG*. Log in using the root account and call this command: `GRANT ALL PRIVILEGES ON apg.* TO apg@'<host>' IDENTIFIED BY '<password>';`.

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Usage

1 Syntax

```
mysql-resynchronizer.sh <begin> <end> [<propKey>=<propVal>"]
```

<begin> is the begin time to get data in this format YYYYMMDDHHmmss only.

<end> is the end time to get data in this format YYYYMMDDHHmmss only.

<propKey>=<propVal> is a property value used to filter. Only one property can be used.
Replace mysql-resynchronizer.sh to mysql-resynchronizer.cmd on windows systems.

Examples:

```
mysql-resynchronizer.sh 20091231235412 20091231235754
```

```
mysql-resynchronizer.sh 20091231235412 20091231235754 parttype="FileSystem"
```

2 Example

We have two identical installations of *APG*, A and B. The IP of A is 192.168.1.1 and the IP of B is 192.168.1.2.

For some reason, a collector feeding data to B was down from 12:45:00 March 12 2009 to 13:00:00 March 12 2009. Hopefully, the collector feeding A had no trouble. All the data collected by these collector have a property in common : `source="IC-ACM"`

We want to use the data from A to fill the data hole in B.

We log on B and STOP *APG* Backend.

We log on A and launch as user `apg` the following command : `mysql-resynchronizer.sh 20090312124500 20090312130000 source="IC-ACM"`.

The data from A will be send to B to fill the data hole.

We log on B and START *APG* Backend.

Now, the B data hole is filled with A data.