binlog2sql安装及用法

安装:

参考:

https://github.com/danfengcao/binlog2sql

 $\underline{\text{http://blog. csdn. net/zhengwei125/article/details/66972648?locationNum=6\&fps=1}}$

http://blog.itpub.net/27067062/viewspace-2135398/

http://blog.csdn.net/shudaqi2010/article/details/54412654

 $\underline{\text{https://stackoverflow.com/questions/22531360/no-module-named-setuptools}}$

 $\underline{\text{https://segmentfault.com/a/1190000010141754}}$

http://www.cnblogs.com/glon/p/6856192.html

binlog2sql简介

binlog2sq1是一开源工具,其可以从MySQL binlog解析出你要的SQL。根据不同选项,你可以得到原始SQL、回滚SQL、去除主键的INSERT SQL等。 主要用途如下:

- (1) 数据快速回滚(闪回)
- (2) 主从切换后数据不一致的修复
- (3) 从binlog生成标准SQL,带来的衍生功能

binlog2sql安装

1、binlog2sql下载

https://github.com/danfengcao/binlog2sql

2、binlog2sql依赖包安装

python2.6+

PyMySQL==0.7.8+

whee1==0.24.0+

mysql-replication==0.9+

(1) PyMySQL-0.7.10安装

https://pypi.python.org/pypi/PyMySQL/

 $[root@node1\ binlogsq1] \#\ tar\ -xzvf\ PyMySQL-0.\,7.\,10.\,tar.\,gz$

[root@node1 binlogsq1]# cd PyMySQL-0.7.10

 $[{\tt root@node1~PyMySQL-0.7.10}] \# \ {\tt python~setup.py~install}$

(2) wheel-0.30.0a0安装

https://pypi.python.org/pypi/wheel/

[root@node1 binlogsq1]# tar -xzvf wheel-0.30.0a0.tar.gz

[root@node1 binlogsq1]# cd wheel-0.30.0a0

[root@node1 wheel-0.30.0a0]# python setup.py install

(3) python-mysql-replication安装

https://github.com/noplay/python-mysql-replication

 $[root@node1\ binlogsql] \#\ unzip\ python-mysql-replication-master.zip$

 $[root@node1\ binlogsq1] \#\ cd\ python-mysq1-replication-master$

 $[root@node1\ python-mysql-replication-master] \#\ python\ setup.py \ install$

(4) 可以通过pip安装相应的依赖包

https://pypi.python.org/pypi/pip

[root@node1 tools]# tar -xzvf pip-9.0.1.tar.gz

[root@node1 tools]# cd pip-9.0.1

[root@node1 pip-9.0.1]# python setup.py install

[root@nodel binlog2sql-master]# pip install -r requirements.txt

3、binlog2sq1安装

直接下载解压缩即可,运行相应的py脚本

 $[\verb|root@node1| tools] \# \ unzip \ binlog2sql-master.zip$

[root@node1 tools]# cd binlog2sql-master

设置别名,方便命令调用:

 $a lias\ binlog 2 sq 1='python\ /tools/binlog sq 1/binlog 2 sq 1-master/binlog 2 sq 1/binlog 2 sq 1.py' alias\ binlog 2 sq 1-master/binlog 2 sq 1-master/bi$

在需要提取回滚sql的数据库中创建flashback用户, 10.160.9.202为安装了binlog2sql工具的服务器IP mysql> create user flashback@'10.160.9.202' identified by 'Root@911';

```
Query OK, 0 rows affected (0.27 sec)
mysql> GRANT SELECT, REPLICATION SLAVE, REPLICATION CLIENT ON *. * TO 'flashback'@'10.160.9.202';
Query OK, 0 rows affected (0.00 sec)
mysq1>
binlog2sql使用:
eg:
[root@MysqlRestore /root/binlog2sql/binlog2sql/binlog2sql]# python binlog2sql.py -h 10.160.9.201 -P 3306 -u flashback -pRoot@911
--start-file='mysql-bin.000532'
eg:
[root@MysqlRestore ~]#
[{\tt root@MysqlRestore} ~ ] \# \ {\tt more} \ . \ {\tt bashrc}
# .bashrc
# User specific aliases and functions
alias rm='rm -i'
alias cp='cp -i'
alias mv='mv -i'
# Source global definitions
if [ -f /etc/bashrc ]; then
       . /etc/bashrc
fi
alias binlog2sql='/srv/too1/binlog2sql/binlog2sql/binlog2sql.py'
[root@MysqlRestore ~]#
[root@MysqlRestore ~]# binlog2sql -h 10.160.9.201 -P 3306 -u flashback -pRoot@911 --start-file='mysql-bin.000316' >
flashbacktest316, sql
使用该工具的前提
1. binlog_format为ROW, 且binlog_row_image为full或noblog, 默认为full。
2. 必须开启MySQL Server, 理由有如下两点:
  1> 它是基于BINLOG DUMP协议来获取binlog内容
   2〉需要读取server端information_schema. COLUMNS表,获取表结构的元信息,拼接成可视化的sql语句
该工具所需权限如下:
GRANT SELECT, REPLICATION SLAVE, REPLICATION CLIENT ON *.* TO
因为是伪装成slave来获取主的二进制事件,故无需对binlog有可读权限。
提取SQL示例
# python binlog2sql.py -h192.168.244.10 -P3306 -uadmin -p123456 -dtest -ttest --start-file='mysql-bin.000028'
# python /usr/local/binlog2sql/binlog2sql/binlog2sql.py -uflashback -pflashback -dttt -tusers --start-file='mysql-bin.000034' --
start-datetime='2017-07-11 15:10:00' --stop-datetime='2017-07-11 15:12:00'
生成回滚SQL示例
# python binlog2sql.py --flashback -h192.168.244.10 -P3306 -uadmin -p123456 -dtest -ttest --start-file='mysql-bin.000028'
# python /usr/local/binlog2sql/binlog2sql/binlog2sql.py --flashback -h127.0.0.1 -P3306 -uflashback -pflashback -dttt -tusers --
start-file='mysql-bin.000034' --start-position=79078 --stop-position=83053
python binlog2sql.py --flashback -h127.0.0.1 -P3306 -uglon -p'123456' -dglonho -ttest --start-file='mysql-bin.000001' --start-
datetime="2017-05-12 14:57:00" --stop-datetime="2017-05-12 15:04:22"
```

python binlog2sql.py --flashback -h127.0.0.1 -P3306 -uglon -p'123456' -dglonho -ttest --start-file='mysql-bin.000001' --start-

```
binlog2sql help信息:
[root@MysqlRestore ~]# binlog2sql
usage: binlog2sq1.py [-h HOST] [-u USER] [-p PASSWORD] [-P PORT]
                     [--start-file STARTFILE] [--start-position STARTPOS]
                     [--stop-file ENDFILE] [--stop-position ENDPOS]
                     [--start-datetime STARTTIME] [--stop-datetime STOPTIME]
                     [--stop-never] [--help] [-d [DATABASES [DATABASES ...]]]
                     [-t [TABLES [TABLES ...]]] [-K] [-B]
Parse MySQL binlog to SQL you want
optional arguments:
  --stop-never
                        Wait for more data from the server. default: stop
                        replicate at the last binlog when you start binlog2sql
  --help
                        help infomation
  -K, --no-primary-key Generate insert sql without primary key if exists
  -B, --flashback
                        Flashback data to start_postition of start_file
connect setting:
  -h HOST, --host HOST Host the MySQL database server located
  -u USER, --user USER MySQL Username to log in as
  -p PASSWORD, --password PASSWORD
                       MvSQL Password to use
  -P PORT, --port PORT MySQL port to use
range filter:
  --start-file STARTFILE
                       Start binlog file to be parsed
  --start-position STARTPOS, --start-pos STARTPOS
                        Start position of the --start-file
  --stop-file ENDFILE, --end-file ENDFILE
                        Stop binlog file to be parsed. default: '--start-file'
  --stop-position ENDPOS, --end-pos ENDPOS
                        Stop position of --stop-file. default: latest position
                        of '--stop-file'
  --start-datetime STARTTIME
                        Start reading the binlog at first event having a
                        datetime equal or posterior to the argument; the
                        argument must be a date and time in the local time
                        zone, in any format accepted by the MySQL server for
                        DATETIME and TIMESTAMP types, for example: 2004-12-25
                        11:25:56 (you should probably use quotes for your
                        shell to set it properly).
  --stop-datetime STOPTIME
                        Stop reading the binlog at first event having a
                        datetime equal or posterior to the argument; the
                        argument must be a date and time in the local time
                        zone, in any format accepted by the MySQL server for
                        DATETIME and TIMESTAMP types, for example: 2004-12-25
                        11:25:56 (you should probably use quotes for your
                        shell to set it properly).
schema filter:
  -d [DATABASES [DATABASES ...]], --databases [DATABASES [DATABASES ...]]
```

dbs you want to process

```
-t [TABLES [TABLES ...]], --tables [TABLES [TABLES ...]]
tables you want to process
[root@MysqlRestore ~]#
```

 $\verb|wget|''| \verb|https://pypi.python.org/packages/source/p/pip/pip-1.5.4. tar. gz \# md5 = 834b2904f92d46aaa333267fb1c922bb''' -- no-check-certificate | additional content of the content of$

[root@MysqlRestore pip-1.5.4]# yum search python | grep setup

cryptsetup-python.x86_64 : Python bindings for libcryptsetup

python-setuptools.noarch : Easily build and distribute Python packages

[root@MysqlRestore pip-1.5.4]#

 $[{\tt root@MysqlRestore~pip-1.5.4}] \# \ {\tt yum~install~-y~python-setuptools.noarch}$

yum -y install git
tar -xzvf pip-1.5.4.tar.gz
cd pip-1.5.4
python setup.py install