Mydump v0.9.1工具安装使用

马飞

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一、软件安装

Github:https://github.com/maxbube/mydumper/releases

## 1.1 安装

yum install make cmake g++

yum install glib2-devel mysql-devel zlib-devel pcre-devel

yum 下载rpm包方法：cmake为例

|  |
| --- |
| vi /etc/yum.conf  keepcache=0 改为keepcache=1  重启系统  yum -y remove cmake  yum -y install cmake  cd /var/cache/yum  find . –name “cmake\*” |

cmake安装步骤：

|  |
| --- |
| rpm –ivh cmake-2.8.12.2-4.el6.x86\_64  [root@server-16-226 build]# cmake ..  -- The C compiler identification is GNU 4.4.7  -- The CXX compiler identification is GNU 4.4.7  -- Check for working C compiler: /usr/bin/cc  -- Check for working C compiler: /usr/bin/cc -- works  -- Detecting C compiler ABI info  -- Detecting C compiler ABI info - done  -- Check for working CXX compiler: /usr/bin/c++  -- Check for working CXX compiler: /usr/bin/c++ -- works  -- Detecting CXX compiler ABI info  -- Detecting CXX compiler ABI info - done  -- Using mysql-config: /usr/local/mysql/bin/mysql\_config  -- Found MySQL: /usr/local/mysql/include, /usr/local/mysql/lib/libmysqlclient.so;/usr/lib64/libpthread.so;/usr/lib64/libm.so;/usr/lib64/librt.so;/usr/lib64/libdl.so  -- Found ZLIB: /usr/lib64/libz.so (found version "1.2.3")  -- Found PkgConfig: /usr/bin/pkg-config (found version "0.23")  -- checking for one of the modules 'glib-2.0'  -- checking for one of the modules 'gthread-2.0'  -- checking for module 'libpcre'  -- package 'libpcre' not found  CMake Error at /usr/share/cmake/Modules/FindPkgConfig.cmake:279 (message):  A required package was not found  Call Stack (most recent call first):  /usr/share/cmake/Modules/FindPkgConfig.cmake:333 (\_pkg\_check\_modules\_internal)  cmake/modules/FindPCRE.cmake:25 (pkg\_check\_modules)  CMakeLists.txt:11 (find\_package)  -- Could NOT find PCRE (missing: PCRE\_INCLUDE\_DIR PCRE\_PCRE\_LIBRARY PCRE\_PCREPOSIX\_LIBRARY)  CMake Warning at docs/CMakeLists.txt:9 (message):  Unable to find Sphinx documentation generator |

处理办法：

|  |
| --- |
| (1)从一台可以联网的机器上查询pcre包名  rpm -qa | grep pcre  pcre-devel-7.8-7.el6.x86\_64  pcre-7.8-7.el6.x86\_64  (2)从以下网站下载以上两个包：  <http://rpm.pbone.net/index.php3/stat/4/idpl/25010280/dir/centos_6/com/pcre-devel-7.8-6.el6.x86_64.rpm.html>  (3) 安装以上两个包  rpm –ivh pcre-7.8-7.el6.x86\_64  rpm –ivh pcre-devel-7.8-7.el6.x86\_64 |

## 1.2 下载mydumper安装包

wget https://launchpadlibrarian.net/225370879/mydumper-0.9.1.tar.gz

## 1.3 解压并安装

(1)tar zxvf mydumper-0.9.1.tar.gz

(2)mkdir build

(3)cd build

(4)cmake ..

|  |
| --- |
| [root@db build]# cmake ..  -- The C compiler identification is GNU 4.8.5  -- The CXX compiler identification is GNU 4.8.5  -- Check for working C compiler: /usr/bin/cc  -- Check for working C compiler: /usr/bin/cc -- works  -- Detecting C compiler ABI info  -- Detecting C compiler ABI info - done  -- Check for working CXX compiler: /usr/bin/c++  -- Check for working CXX compiler: /usr/bin/c++ -- works  -- Detecting CXX compiler ABI info  -- Detecting CXX compiler ABI info - done  -- Using mysql-config: /usr/bin/mysql\_config  -- Found MySQL: /usr/include/mysql, /usr/lib64/mysql/libmysqlclient.so;/usr/lib64/libpthread.so;/usr/lib64/libz.so;/usr/lib64/libm.so;/usr/lib64/libssl.so;/usr/lib64/libcrypto.so;/usr/lib64/libdl.so  -- Found ZLIB: /usr/lib64/libz.so (found version "1.2.7")  -- Found PkgConfig: /usr/bin/pkg-config (found version "0.27.1")  -- checking for one of the modules 'glib-2.0'  -- checking for one of the modules 'gthread-2.0'  -- checking for module 'libpcre'  -- found libpcre, version 8.32  -- Found PCRE: /usr/include  CMake Warning at docs/CMakeLists.txt:9 (message):  Unable to find Sphinx documentation generator  -- ------------------------------------------------  -- MYSQL\_CONFIG = /usr/bin/mysql\_config  -- CMAKE\_INSTALL\_PREFIX = /usr/local  -- BUILD\_DOCS = ON  -- WITH\_BINLOG = OFF  -- RUN\_CPPCHECK = OFF  -- Change a values with: cmake -D<Variable>=<Value>  -- ------------------------------------------------  --  -- Configuring done  -- Generating done  -- Build files have been written to: /root/mydumper-0.9.1/build |

(5)make

|  |
| --- |
| [root@oracle11g build]# make  Scanning dependencies of target mydumper  [ 25%] Building C object CMakeFiles/mydumper.dir/mydumper.c.o  [ 50%] Building C object CMakeFiles/mydumper.dir/server\_detect.c.o  [ 75%] Building C object CMakeFiles/mydumper.dir/g\_unix\_signal.c.o  Linking C executable mydumper  [ 75%] Built target mydumper  Scanning dependencies of target myloader  [100%] Building C object CMakeFiles/myloader.dir/myloader.c.o  Linking C executable myloader  [100%] Built target myloader |

(6)mydumper

|  |
| --- |
| [root@oracle11g build]# ./mydumper --help  Usage:  mydumper [OPTION...] multi-threaded MySQL dumping  Help Options:  -?, --help Show help options  Application Options:  -B, --database Database to dump  -T, --tables-list Comma delimited table list to dump (does not exclude regex option)  -o, --outputdir Directory to output files to  -s, --statement-size Attempted size of INSERT statement in bytes, default 1000000  -r, --rows Try to split tables into chunks of this many rows. This option turns off --chunk-filesize  -F, --chunk-filesize Split tables into chunks of this output file size. This value is in MB  -c, --compress Compress output files  -e, --build-empty-files Build dump files even if no data available from table  -x, --regex Regular expression for 'db.table' matching  -i, --ignore-engines Comma delimited list of storage engines to ignore  -m, --no-schemas Do not dump table schemas with the data  -d, --no-data Do not dump table data  -G, --triggers Dump triggers  -E, --events Dump events  -R, --routines Dump stored procedures and functions  -k, --no-locks Do not execute the temporary shared read lock. WARNING: This will cause inconsistent backups  --less-locking Minimize locking time on InnoDB tables.  -l, --long-query-guard Set long query timer in seconds, default 60  -K, --kill-long-queries Kill long running queries (instead of aborting)  -D, --daemon Enable daemon mode  -I, --snapshot-interval Interval between each dump snapshot (in minutes), requires --daemon, default 60  -L, --logfile Log file name to use, by default stdout is used  --tz-utc SET TIME\_ZONE='+00:00' at top of dump to allow dumping of TIMESTAMP data when a server has data in different time zones or data is being moved between servers with different time zones, defaults to on use --skip-tz-utc to disable.  --skip-tz-utc  --use-savepoints Use savepoints to reduce metadata locking issues, needs SUPER privilege  --success-on-1146 Not increment error count and Warning instead of Critical in case of table doesn't exist  --lock-all-tables Use LOCK TABLE for all, instead of FTWRL  -U, --updated-since Use Update\_time to dump only tables updated in the last U days  --trx-consistency-only Transactional consistency only  -h, --host The host to connect to  -u, --user Username with privileges to run the dump  -p, --password User password  -P, --port TCP/IP port to connect to  -S, --socket UNIX domain socket file to use for connection  -t, --threads Number of threads to use, default 4  -C, --compress-protocol Use compression on the MySQL connection  -V, --version Show the program version and exit  -v, --verbose Verbosity of output, 0 = silent, 1 = errors, 2 = warnings, 3 = info, default 2 |

(7)myloader

|  |
| --- |
| [root@db build]# ./myloader --help  Usage:  myloader [OPTION?] multi-threaded MySQL loader  Help Options:  -?, --help Show help options  Application Options:  -d, --directory Directory of the dump to import  -q, --queries-per-transaction Number of queries per transaction, default 1000  -o, --overwrite-tables Drop tables if they already exist  -B, --database An alternative database to restore into  -s, --source-db Database to restore  -e, --enable-binlog Enable binary logging of the restore data  -h, --host The host to connect to  -u, --user Username with privileges to run the dump  -p, --password User password  -P, --port TCP/IP port to connect to  -S, --socket UNIX domain socket file to use for connection  -t, --threads Number of threads to use, default 4  -C, --compress-protocol Use compression on the MySQL connection  -V, --version Show the program version and exit  -v, --verbose Verbosity of output, 0 = silent, 1 = errors, 2 = warnings, 3 = info, default 2 |

(8)cp ./mydumper ./myloader /usr/local/bin

二、软件用法

## 2.1 备份数据

#修改/etc/my.cnf文件，增加socket配置

|  |
| --- |
| vi /etc/my.cnf  basedir=/opt/app/mysql  datadir=/opt/app/mysql/data  port=3306  sql\_mode=NO\_ENGINE\_SUBSTITUTION,STRICT\_TRANS\_TABLES  character-set-server=utf8  socket=/var/lib/mysql/mysql.sock  [mysql]  default-character-set=utf8  [client]  default-character-set=utf8  socket=/var/lib/mysql/mysql.sock |

#通过用户名口令备份

|  |
| --- |
| mydumper -u root -p winchannel -B wicp\_dev -o wicp\_dev |

#通过用户名口令备份,备份完进行压缩

|  |
| --- |
| mydumper -u root -p winchannel -B wicp\_runtime -c -o wicp\_runtime |

#通过用户名口令备份,备份完进行压缩，远程备份其它数据库

|  |
| --- |
| mydumper -u App\_User -p winchannel2017 -h 192.168.1.161 -B test -c -o test |

## 2.2 恢复数据

#通过用户名口令恢复

|  |
| --- |
| myloader -u App\_User -p winchannel2017 -h 192.168.1.161 -B test -d test  CREATE DATABASE `hangao\_uat` /\*!40100 DEFAULT CHARACTER SET utf8 \*/;  Cd  myloader -u App\_User -p winchannel -h 192.168.1.48 -B hangao\_uat -d hangao\_20181120-20/ |

三、问题处理

## 3.1 MySQL客户端登陆错误

错误提示：

|  |
| --- |
| [mysql@oracle11g ~]$ mysql -uroot -p  mysql: relocation error: mysql: symbol strmov, version libmysqlclient\_16 not defined in file libmysqlclient.so.16 with link time reference |

解决方法：

|  |
| --- |
| rpm –qa | grep mysql  yum -y remove mysql-5.1.73-7.el6.x86\_64  rpm –ev mysql-devel-5.1.73-7.el6.x86\_64 |

四、mydumper介绍

<https://blog.csdn.net/yang_hwei/article/details/78834957>

<http://www.cnblogs.com/linuxnote/p/3817698.html>

五、下载yum包

参考：<https://jingyan.baidu.com/article/20095761fb5690cb0721b4ae.html>

|  |
| --- |
| yum -y install yum-utils  /usr/bin/yumdownloader  mkdir mydumper  cd mydumper  yumdownloader --destdir=. make cmake g++  yumdownloader --destdir=. glib2-devel mysql-devel zlib-devel pcre-devel  yumdownloader --destdir=. yum-utils |

六、编译出错

[admwchann1@CNAZDBVFN034 build]$ cmake ..

-- The C compiler identification is unknown

-- The CXX compiler identification is unknown

CMake Error: your C compiler: "CMAKE\_C\_COMPILER-NOTFOUND" was not found. Please set CMAKE\_C\_COMPILER to a valid compiler path or name.

CMake Error: your CXX compiler: "CMAKE\_CXX\_COMPILER-NOTFOUND" was not found. Please set CMAKE\_CXX\_COMPILER to a valid compiler path or name.

-- Using mysql-config: /usr/local/mysql/bin/mysql\_config

-- MySQL not found.

-- Could NOT find ZLIB (missing: ZLIB\_LIBRARY) (found version "1.2.7")

CMake Warning at docs/CMakeLists.txt:9 (message):

Unable to find Sphinx documentation generator