xtrabackup help信息

[root@BkpV5Mysq101 ~]# xtrabackup --help xtrabackup version 2.4.7 based on MySQL server 5.7.13 Linux (x86 64) (revision id: 05f1fcf) Open source backup tool for InnoDB and XtraDB Copyright (C) 2009-2015 Percona LLC and/or its affiliates. Portions Copyright (C) 2000, 2011, MySQL AB & Innobase Oy. All Rights Reserved. This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation version 2of the License. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You can download full text of the license on http://www.gnu.org/licenses/gpl-2.0.txt Usage: [xtrabackup [--defaults-file=#] --backup | xtrabackup [--defaults-file=#] --prepare] [OPTIONS] Default options are read from the following files in the given order: /etc/my.cnf /etc/mysql/my.cnf /usr/etc/my.cnf ~/.my.cnf The following groups are read: xtrabackup mysqld The following options may be given as the first argument: --print-defaults Print the program argument list and exit. --no-defaults Don't read default options from any option file, except for login file. --defaults-file=# Only read default options from the given file #. --defaults-extra-file=# Read this file after the global files are read. --defaults-group-suffix=# Also read groups with concat(group, suffix) --login-path=# Read this path from the login file. -v, --version print xtrabackup version information --target-dir=name destination directory --backup take backup to target-dir --stats calc statistic of datadir (offline mysqld is recommended) --prepare prepare a backup for starting mysql server on the backup. create files to import to another database when prepare. --export --apply-log-only stop recovery process not to progress LSN after applying log when prepare. --print-param print parameter of mysqld needed for copyback. --use-memory=# The value is used instead of buffer_pool_size --throttle=# limit count of IO operations (pairs of read&write) per second to IOS values (for '--backup') --log[=name] Ignored option for MySQL option compatibility --log-copy-interval=# time interval between checks done by log copying thread in milliseconds (default is 1 second). --extra-1sndir=name (for --backup): save an extra copy of the xtrabackup_checkpoints file in this directory. --incremental-1sn=name (for --backup): copy only .ibd pages newer than specified LSN 'high:low'. ##ATTENTION##: If a wrong LSN value is

specified, it is impossible to diagnose this, causing the

backup to be unusable. Be careful!

--incremental-basedir=name

(for --backup): copy only .ibd pages newer than backup at specified directory.

--incremental-dir=name

(for --prepare): apply .delta files and logfile in the specified directory.

--to-archived-1sn=# Don't apply archived logs with bigger log sequence number.

--tables=name filtering by regexp for table names.

--tables-file=name filtering by list of the exact database table name in the

--databases=name filtering by list of databases.

--databases-file=name

filtering by list of databases in the file.

--tables-exclude=name

filtering by regexp for table names. Operates the same way as —tables, but matched names are excluded from backup. Note that this option has a higher priority than —tables.

--databases-exclude=name

Excluding databases based on name, Operates the same way as --databases, but matched names are excluded from backup. Note that this option has a higher priority than --databases.

--create-ib-logfile ** not work for now** creates ib_logfile* also after

'--prepare'. ### If you want create ib_logfile*, only

re-execute this command in same options. ###

--stream=name Stream all backup files to the standard output in the

specified format. Currently the only supported format is

'tar'.

--compress[=name] Compress individual backup files using the specified

compression algorithm. Currently the only supported algorithm is 'quicklz'. It is also the default algorithm, i.e. the one used when $-\!\!$ -compress is used without an

 $\ {\rm argument.}$

--compress-threads=#

Number of threads for parallel data compression. The default value is 1.

--compress-chunk-size=#

Size of working buffer(s) for compression threads in bytes. The default value is 64K.

--encrypt=name Encrypt individual backup files using the specified encryption algorithm.

--encrypt-key=name Encryption key to use.

--encrypt-key-file=name

File which contains encryption key to use.

--encrypt-threads=# Number of threads for parallel data encryption. The default value is 1.

--encrypt-chunk-size=#

Size of working buffer(S) for encryption threads in bytes. The default value is 64K.

--compact Create a compact backup by skipping secondary index pages.

--rebuild-indexes Rebuild secondary indexes in InnoDB tables after applying the log. Only has effect with --prepare.

--rebuild-threads=# Use this number of threads to rebuild indexes in a compact backup. Only has effect with --prepare and

--rebuild-indexes.

--incremental-force-scan

Perform a full-scan incremental backup even in the presence of changed page bitmap data

--close-files do not keep files opened. Use at your own risk.

--core-file Write core on fatal signals

--copy-back Copy all the files in a previously made backup from the

backup directory to their original locations.

--move-back Move all the files in a previously made backup from the

backup directory to the actual datadir location. Use with

caution, as it removes backup files.

--galera-info This options creates the xtrabackup_galera_info file

which contains the local node state at the time of the backup. Option should be used when performing the backup of Percona-XtraDB-Cluster. Has no effect when backup

locks are used to create the backup.

--slave-info This option is useful when backing up a replication slave server. It prints the binary log position and name of the

master server. It also writes this information to the "xtrabackup_slave_info" file as a "CHANGE MASTER" command. A new slave for this master can be set up by starting a slave server on this backup and issuing a

"CHANGE MASTER" command with the binary log position

saved in the "xtrabackup_slave_info" file.

--no-lock Use this option to disable table lock with "FLUSH TABLES

WITH READ LOCK". Use it only if ALL your tables are InnoDB and you DO NOT CARE about the binary log position of the backup. This option shouldn't be used if there are any DDL statements being executed or if any updates are happening on non-InnoDB tables (this includes the system MyISAM tables in the mysql database), otherwise it could lead to an inconsistent backup. If you are considering to use --no-lock because your backups are failing to acquire the lock, this could be because of incoming replication events preventing the lock from succeeding. Please try using --safe-slave-backup to momentarily stop the

replication slave thread, this may help the backup to succeed and you then don't need to resort to using this

option.

--safe-slave-backup Stop slave SQL thread and wait to start backup until

Slave_open_temp_tables in "SHOW STATUS" is zero. If there are no open temporary tables, the backup will take place, otherwise the SQL thread will be started and stopped until there are no open temporary tables. The backup will fail if Slave_open_temp_tables does not become zero after —safe-slave-backup-timeout seconds. The slave SQL thread

will be restarted when the backup finishes.

Uses the rsync utility to optimize local file transfers.

When this option is specified, innobackupex uses rsync to

copy all non-InnoDB files instead of spawning a separate cp for each file, which can be much faster for servers with a large number of databases or tables. This option

cannot be used together with --stream.

 $-\!\!-\!\!force\!\!-\!\!non\!\!-\!\!empty\!\!-\!\!directories$

--rsync

This option, when specified, makes --copy-back or --move-back transfer files to non-empty directories. Note that no existing files will be overwritten. If --copy-back or --nove-back has to copy a file from the

backup directory which already exists in the destination directory, it will still fail with an error.

--no-version-check This option disables the version check which is enabled by the --version-check option.

--no-backup-locks This option controls if backup locks should be used instead of FLUSH TABLES WITH READ LOCK on the backup

stage. The option has no effect when backup locks are not supported by the server. This option is enabled by

default, disable with --no-backup-locks.

--decompress Decompresses all files with the .qp extension in a backup

previously made with the —compress option.

-u, --user=name This option specifies the MySQL username used when connecting to the server, if that's not the current user.

The option accepts a string argument. See ${\tt mysql}$ —help

for details.

-H, --host=name This option specifies the host to use when connecting to the database server with TCP/IP. The option accepts a

string argument. See mysql --help for details.

-P, --port=# This option specifies the port to use when connecting to the database server with TCP/IP. The option accepts a

string argument. See mysql --help for details.

-p, --password=name This option specifies the password to use when connecting to the database. It accepts a string argument. See mysql

--help for details.

-S, --socket=name This option specifies the socket to use when connecting to the local database server with a UNIX domain socket.

The option accepts a string argument. See mysql --help

for details.

$-\!-\!incremental\!-\!history\!-\!name\!=\!name$

This option specifies the name of the backup series stored in the PERCONA_SCHEMA. xtrabackup_history history record to base an incremental backup on. Xtrabackup will search the history table looking for the most recent (highest innodb_to_lsn), successful backup in the series and take the to_lsn value to use as the starting lsn for the incremental backup. This will be mutually exclusive with --incremental-history-uuid, --incremental-basedir and --incremental-lsn. If no valid lsn can be found (no series by that name, no successful backups by that name) xtrabackup will return with an error. It is used with the --incremental option.

--incremental-history-uuid=name

This option specifies the UUID of the specific history record stored in the PERCONA_SCHEMA.xtrabackup_history to base an incremental backup on.

--incremental-history-name, --incremental-basedir and

--incremental-lsn. If no valid lsn can be found (no success record with that uuid) xtrabackup will return with an error. It is used with the --incremental option.

--decrypt=name Decrypts all files with the .xbcrypt extension in a backup previously made with --encrypt option.

--remove-original $\mbox{\ \ Remove.qp}$ and .xbcrypt files after decryption and decompression.

--ftwrl-wait-query-type=name

This option specifies which types of queries are allowed to complete before innobackupex will issue the global lock. Default is all. This option specifies which types of queries should be killed to unblock the global lock. Default is "all".

--history[=name]

This option enables the tracking of backup history in the PERCONA_SCHEMA.xtrabackup_history table. An optional history series name may be specified that will be placed with the history record for the current backup being taken.

--kill-long-queries-timeout=#

This option specifies the number of seconds innobackupex waits between starting FLUSH TABLES WITH READ LOCK and killing those queries that block it. Default is $\mathbf{0}$ seconds, which means innobackupex will not attempt to kill any queries.

--ftwr1-wait-timeout=#

This option specifies time in seconds that innobackupex should wait for queries that would block FTWRL before running it. If there are still such queries when the timeout expires, innobackupex terminates with an error. Default is 0, in which case innobackupex does not wait for queries to complete and starts FTWRL immediately.

--ftwrl-wait-threshold=#

This option specifies the query run time threshold which is used by innobackupex to detect long-running queries with a non-zero value of --ftwrl-wait-timeout. FTWRL is not started until such long-running queries exist. This option has no effect if --ftwrl-wait-timeout is 0. Default value is 60 seconds.

--debug-sleep-before-unlock=#

This is a debug-only option used by the XtraBackup test suite

--safe-slave-backup-timeout=#

How many seconds --safe-slave-backup should wait for Slave_open_temp_tables to become zero. (default 300)

--binlog-info[=name]

This option controls how XtraBackup should retrieve server's binary log coordinates corresponding to the backup. Possible values are OFF, ON, LOCKLESS and AUTO. See the XtraBackup manual for more information

$-\!\!-\!\!\operatorname{reencrypt-for-server-id}=\!\!\#$

Re-encrypt tablespace keys for given server-id.

--ss1-mode=name SSL connection mode.

Deprecated. Use --ssl-mode instead. --ss1

(Defaults to on; use --skip-ssl to disable.)

--ssl-verify-server-cert

--ss1-key=name

Deprecated. Use --ssl-mode=VERIFY_IDENTITY instead.

--ss1-ca=name CA file in PEM format.

CA directory. --ssl-capath=name

--ssl-cert=name X509 cert in PEM format. --ssl-cipher=name SSL cipher to use.

--ssl-crl=name Certificate revocation list. --ssl-crlpath=name Certificate revocation list path.

X509 key in PEM format.

--tls-version=name TLS version to use, permitted values are: TLSv1, TLSv1.1, TLSv1.2

--server-public-key-path=name

File path to the server public RSA key in PEM format.

-h, --datadir=name Path to the database root.

-t, --tmpdir=name Path for temporary files. Several paths may be specified,

separated by a colon (:), in this case they are used in a round-robin fashion. --paralle1=# Number of threads to use for parallel datafiles transfer. The default value is 1. --log[=name] Ignored option for MySQL option compatibility --log-bin[=name] Base name for the log sequence --innodb[=name] Ignored option for MySQL option compatibility --innodb-adaptive-hash-index Enable InnoDB adaptive hash index (enabled by default). Disable with --skip-innodb-adaptive-hash-index. (Defaults to on; use --skip-innodb-adaptive-hash-index to disable.) --innodb-autoextend-increment=# Data file autoextend increment in megabytes --innodb-buffer-pool-size=# The size of the memory buffer InnoDB uses to cache data and indexes of its tables. --innodb-checksums Enable InnoDB checksums validation (enabled by default). Disable with --skip-innodb-checksums. (Defaults to on; use --skip-innodb-checksums to disable.) --innodb-data-file-path=name Path to individual files and their sizes. --innodb-data-home-dir=name The common part for InnoDB table spaces. --innodb-doublewrite Enable InnoDB doublewrite buffer (enabled by default). Disable with --skip-innodb-doublewrite. (Defaults to on; use --skip-innodb-doublewrite to disable.) --innodb-io-capacity[=#] Number of IOPs the server can do. Tunes the background IO rate --innodb-file-io-threads=# Number of file I/O threads in InnoDB. --innodb-read-io-threads=# Number of background read I/O threads in InnoDB. --innodb-write-io-threads=# Number of background write I/O threads in InnoDB. --innodb-file-per-table Stores each InnoDB table to an .ibd file in the database dir --innodb-flush-log-at-trx-commit[=#] Set to 0 (write and flush once per second), 1 (write and flush at each commit) or 2 (write at commit, flush once per second). --innodb-flush-method=name With which method to flush data. --innodb-force-recovery=# Helps to save your data in case the disk image of the database becomes corrupt. --innodb-log-arch-dir=name Where full logs should be archived. --innodb-log-buffer-size=# The size of the buffer which InnoDB uses to write log to the log files on disk. --innodb-log-file-size=# Size of each log file in a log group. --innodb-log-files-in-group=# Number of log files in the log group. InnoDB writes to

the files in a circular fashion. Value 3 is recommended

here. --innodb-log-group-home-dir=name Path to InnoDB log files. --innodb-max-dirty-pages-pct=# Percentage of dirty pages allowed in bufferpool. --innodb-open-files=# How many files at the maximum InnoDB keeps open at the --innodb-use-native-aio Use native AIO if supported on this platform. --innodb-page-size=# The universal page size of the database. --innodb-log-block-size=# The log block size of the transaction log file. Changing for created log file is not supported. Use on your own --innodb-fast-checksum Change the algorithm of checksum for the whole of datapage to 4-bytes word based. --innodb-doublewrite-file=name Path to special datafile for doublewrite buffer. (default is: not used) --innodb-buffer-pool-filename=name Filename to/from which to dump/load the InnoDB buffer Debug sync point. This is only used by the xtrabackup --debug-sync=name test suite --innodb-checksum-algorithm=name The algorithm InnoDB uses for page checksumming. [CRC32, STRICT_CRC32, INNODB, STRICT_INNODB, NONE, STRICT_NONE] --innodb-log-checksum-algorithm=name The algorithm InnoDB uses for log checksumming. [CRC32, STRICT_CRC32, INNODB, STRICT_INNODB, NONE, STRICT_NONE] --innodb-undo-directory=name Directory where undo tablespace files live, this path can be absolute. --innodb-undo-tablespaces=# Number of undo tablespaces to use. --defaults-group=name defaults group in config file (default "mysqld"). --open-files-limit=# the maximum number of file descriptors to reserve with setrlimit(). --redo-log-version=# Redo log version of the backup. For --prepare only. --keyring-file-data=name The path to the keyring file. --server-id=# The server instance being backed up Variables (--variable-name=value) and boolean options {FALSE | TRUE} Value (after reading options) datadir /var/lib/mysql tmpdir /tmp paralle1

(No default value)

(No default value)

mysq1-bin

log log-bin

innodb

innodb-adaptive-hash-index TRUE innodb-autoextend-increment 8

innodb-buffer-pool-size 1073741824 innodb-checksums TRUE

innodb-data-file-path (No default value) innodb-data-home-dir (No default value)

innodb-doublewrite TRUE
innodb-io-capacity 200
innodb-file-io-threads 4
innodb-read-io-threads 8
innodb-write-io-threads 8
innodb-file-per-table TRUE
innodb-flush-log-at-trx-commit 1

innodb-flush-method (No default value)

innodb-force-recovery 0

innodb-log-arch-dir (No default value)

innodb-log-buffer-size 2097152 innodb-log-file-size 134217728

innodb-log-files-in-group 3

innodb-log-group-home-dir (No default value)

innodb-max-dirty-pages-pct 90
innodb-open-files 500
innodb-use-native-aio FALSE
innodb-page-size 16384
innodb-log-block-size 512
innodb-fast-checksum FALSE

innodb-doublewrite-file (No default value)
innodb-buffer-pool-filename (No default value)
debug-sync (No default value)

 $innodb-check sum-algorithm innodb\\ innodb-log-check sum-algorithm innodb$

innodb-undo-directory (No default value)

innodb-undo-tablespaces 0
defaults-group mysqld
open-files-limit 65535
redo-log-version 1

keyring-file-data (No default value)

server-id 1609201

Variables (--variable-name=value)

and boolean options {FALSE|TRUE} Value (after reading options)

version FALSE

 $target-dir \\ /root/xtrabackup_backupfiles/$

backup FALSE
stats FALSE
prepare FALSE
export FALSE
apply-log-only FALSE
print-param FALSE
use-memory 104857600

throttle 0

log (No default value)

log-copy-interval 1000

extra-lsndir (No default value) incremental-lsn (No default value) incremental-basedir (No default value) incremental-dir (No default value)

to-archived-1sn 0

tables (No default value) tables-file (No default value) databases (No default value) databases-file (No default value) tables-exclude (No default value) databases-exclude (No default value)

create-ib-logfile FALSE

stream (No default value) (No default value) compress

compress-threads 1 65536 compress-chunk-size NONE encrypt

encrypt-key (No default value) (No default value) encrypt-key-file

encrypt-threads 65536 encrypt-chunk-size FALSE compact rebuild-indexes FALSE rebuild-threads 1 incremental-force-scan FALSE close-files FALSE copy-back FALSE move-back FALSE galera-info FALSE slave-info FALSE no-lock FALSE safe-slave-backup FALSE rsync FALSE force-non-empty-directories FALSE no-version-check FALSE no-backup-locks FALSE decompress FALSE

(No default value) user (No default value) host

port

socket (No default value) (No default value) incremental-history-name incremental-history-uuid (No default value)

NONE

decrypt remove-original FALSE ftwrl-wait-query-type ALL SELECT kill-long-query-type 0 kill-long-queries-timeout ftwrl-wait-timeout 0 ftwrl-wait-threshold 60 debug-sleep-before-unlock 0 ${\tt safe-slave-backup-timeout}$ 300 binlog-info auto reencrypt-for-server-id 0 TRUE ssl-verify-server-cert FALSE

(No default value) ss1-ca (No default value) ss1-capath ss1-cert (No default value) ssl-cipher (No default value) (No default value) ssl-key ss1-cr1 (No default value) ss1-crlpath t1s-version server-public-key-path [root@BkpV5Mysq101 $^{\sim}$]#

(No default value)
TLSv1, TLSv1. 1, TLSv1. 2
(No default value)