

B&R command-line tools

General usage

hbase backup COMMAND [command-specific arguments]

where **COMMAND** is one of:

- create** create a new backup image
- delete** delete an existing backup image
- describe** show the detailed information of a backup image
- history** show history of all successful backups
- progress** show the progress of the latest backup request
- set** backup set management
- repair** repair backup system table
- merge** merge backup images

Run **hbase backup COMMAND -h** to see help message for each command

Create command

hbase backup create <type> <backup_path> [options]

- type** "full" to create a full backup image
"incremental" to create an incremental backup image
- backup_path** Full path to store the backup image;

Options:

- w** Number of parallel MapReduce tasks to execute
- b** Bandwidth per task (MapReduce task) in MB/s
- s** Backup set to backup, mutually exclusive with -t (table list)
- t** Table name list, comma-separated
- d** Run in DEBUG mode
- q** Yarn queue name to run backup create command on

Restore command

hbase restore <backup_path> <backup_id> [options]

- backup_path** Path to a backup destination root
- backup_id** Backup image ID to restore
- table(s)** Comma-separated list of tables to restore

Options: all from the old version + new one:

- q** Yarn queue name to run backup restore command on

Progress command

hbase backup progress <backup_id>

backup_id Backup image id (optional). If no id specified, the command will show progress for currently running backup session

Describe command

hbase backup describe <backup_id>

backup_id Backup image id

History command

hbase backup history [options]

Options:

- n** Number of records of backup history. Default: 10
- p** Backup destination root directory path
- s** Backup set name
- t** Table name. If specified, only backup images, which contain this table will be listed

Delete command

hbase backup delete <backup_id>

backup_id Backup image id;

Backup set management

Has not changed since v1 of documentation

Merge command

Run merge command to merge **incremental** backup images into a single incremental backup image. The most recent backup image will be overwritten by resulting merged image, all other images will be deleted

hbase backup merge [backup_ids]

backup_ids Comma separated list of backup image ids

Repair command

Sometimes, in case of unexpected failure of a backup command, backup system may not be able to restore consistency correctly. In this case, next time, user will try to run create, delete, merge command, he (she) will be asked to run repair tool.

hbase backup repair

B&R configuration

Required:

hbase.backup.enable=true

hbase.master.logcleaner.plugins=YOUR_PLUGINS,
org.apache.hadoop.hbase.backup.master.BackupLogCleaner

hbase.procedure.master.classes=YOUR_CLASSES,
org.apache.hadoop.hbase.backup.master.LogRollMasterProcedureManager

hbase.procedure.regionserver.classes=YOUR_CLASSES,
org.apache.hadoop.hbase.backup.regionserver.LogRollRegionServerProcedureManager

hbase.coprocessor.region.classes=YOUR_CLASSES,
org.apache.hadoop.hbase.backup.BackupObserver

Optional:

hbase.backup.system.ttl - in seconds (default - FOREVER). TTL for data in backup system tables

hbase.backup.attempts.max - Number of attempts to perform in case of table snapshot failures. Default: 10

hbase.backup.attempts.pause.ms - pause (in ms) between attempts. Default: 10000