

FAQ: How to run a Data Integrity Check on AhsayOBM version 7 on Linux (CLI) machine

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Product Version:

AhsayOBM: 7.7.2.0 or above

OS: Linux / Unix

Description

This article offers a guideline on how run a data integrity check on AhsayOBM version 7 on Linux machine with Command Line Interface (CLI)

Steps

Data integrity check can be performed by running the RunDataIntegrityCheck.sh script file located in the installation bin folder.

By default, the Data Integrity Check script will:

- Perform the check for all backup sets
- Perform the check for all storage destinations
- Cyclic Redundancy Check (CRC) is disabled by default
- Rebuild index is disabled by default

Assumption:

AhsayOBM is installed in the following path /usr/local/obm

1. Login to the Linux machine with root.
2. Edit the the RunDataIntegrityCheck.sh script with a text editor.

```
# cd /usr/local/obm/bin  
# vi RunDataIntegrityCheck.sh
```

Modify the settings in the file according to your requirement.

```
##### RunDataIntegrityCheck.sh #####
# You can use this shell script to run any of your backup sets from the
# command line. Just customize the "User Defined Section" below with your
# values for your backup action.
#####
##### START: User Defined Section #####
# ----- SETTING_HOME (Optional) -----
# | Directory to your setting home.
# | Default to ${HOME}/.obm when not set.
# | e.g. SETTING_HOME="${HOME}/.obm"
# -----
SETTING_HOME=""

# ----- BACKUP_SET -----
# | The name or ID of the backup set that you want to run.
# | If backup set name is not in English, please use ID instead.
# | e.g. BACKUP_SET="1119083740107"
# | or BACKUP_SET="FileBackupSet-1"
# | You can use "ALL" to run data integrity check for all backup sets.
# | i.e. BACKUP_SET="ALL"
# |
# | You can leave this parameter blank if you have only 1 backup set.
# -----
BACKUP_SET="ALL"

# ----- BACKUP_DEST -----
# | The name or ID of the backup destination that you want to run.
# | If backup destination name is not in English, please use ID instead.
# | e.g. BACKUP_DEST="1740107119083"
# | or BACKUP_DEST="Destination-1"
# | You can use "ALL" to run data integrity check for all destinations.
# | i.e. BACKUP_DEST="ALL"
# |
# | You can leave this parameter blank if you have only 1 destination.
# | Remark: This option is ignored if BACKUP_SET="ALL"
# -----
BACKUP_DEST="ALL"

# ----- CRC_MODE -----
# | You can run Cyclic Redundancy Check (CRC) during data integrity check
# | Options available: ENABLE-CRC/DISABLE-CRC
# | i.e. CRC_MODE="ENABLE-CRC"
# | or CRC_MODE="DISABLE-CRC"
# -----
CRC_MODE="ENABLE-CRC"

# ----- REBUILD_MODE -----
# | You can run rebuild index
# | Options available: ENABLE-REBUILD/DISABLE-REBUILD
# | i.e. REBUILD_MODE="ENABLE-REBUILD"
# | or REBUILD_MODE="DISABLE-REBUILD"
# -----
REBUILD_MODE="DISABLE_REBUILD"

##### END: User Defined Section #####
```

Note:
The rebuild index option (REBUILD_MODE) is only available for AhsayOBM version 7.15.6.0 or above.

3. Start the data integrity check by running the RunDataIntegrityCheck.sh script file.

Note:
The following output is an example of a integrity check performed for a file backup set on DropBox storage destination:

```
# sh RunDataIntegrityCheck.sh
-
Using APP_HOME : /usr/local/obm
Using SETTING_HOME :
Using JAVA_HOME : /usr/local/obm/jvm
Using JAVA_EXE : /usr/local/obm/jvm/bin/java
Using JAVA_OPTS : -Xrs -Xms128m -Xmx768m -client -Dsun.nio.PageAlignDirectMemory=true
Using JNI_PATH : -Djava.library.path=.
Using CLASSPATH : ../cb.jar
-
Running data integrity check for backup set - 'ALL', destination - 'ALL' ...
log4j:WARN No appenders could be found for logger (org.apache.http.impl.conn.PoolingClientConnectionManager).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
[doStart] Start data integrity check on backup set "backupset_name(backupset_id)" all destination, crc enabled
[doDetail] Start processing data integrity check on backup set="backupset_name" destination=
"Dropbox4Business1TB"
[doLogProgress] Browsing "backupset_id/blocks/YYYY-MM-DD-hh-mm-ss"
[doLogProgress] Processing Job "Current", "/bin"
[doLogProgress] Verifying CRC of file "/usr/bin/a2p"
.
.
[doLogProgress] Processing Job "Current", "/usr/sbin"
[doLogProgress] Checking dangling backup file index entries...
[doInfo] Existing statistics of backup set= "backupset_name" destination= "Dropbox4Business1TB": Data area
compressed size: 57.48MB, Data area uncompressed size: 127.8MB, Data area file count: 1497, Retention area
compressed size: 0B, Retention area uncompressed size: 0B, Retention area file count: 0
[doInfo] Recalculated statistics of backup set= "backupset_name" destination= "Dropbox4Business1TB": Data area
compressed size: 57.48MB, Data area uncompressed size: 127.8MB, Data area file count: 1497, Retention area
compressed size: 0B, Retention area uncompressed size: 0B, Retention area file count: 0
[doInfo] The statistics of backup set= "backupset_name" destination= "Dropbox4Business1TB" is correct.
[doInfo] Saving encrypted backup file index to backupset_id/blocks at destination Dropbox4Business1TB...
[doDetail] Data integrity check on backup set= "backupset_name" destination= "Dropbox4Business1TB" is
completed
[doEnd][INFO] Finished data integrity check on backup set "backupset_name(backupset_id)" all destination, crc
enabled
[doInfo] Completed data integrity check on backup set "backupset_name(backupset_id)" all destination, crc enabled
```

Note:

The warning messages displayed can be safely ignored. The data integrity check is not affected by the warning ([Details](#)).

4. Integrity check logs can be found in the following path /root/.obm/system/IntegrityCheck

```
# cd /root/.obm/system/IntegrityCheck
# ls -la
total 36
drwxr-xr-x. 2 root root 4096 Jun 17 15:12 .
drwxr-xr-x. 5 root root 59 Jun 17 14:29 ..
-rw-r--r--. 1 root root 1600 Jun 17 14:29 2016-06-17-14-29-02.log
-rw-r--r--. 1 root root 271 Jun 17 14:56 2016-06-17-14-56-14.log
-rw-r--r--. 1 root root 1600 Jun 17 15:10 2016-06-17-15-10-26.log
```

Keywords

CRC, Linux, Unix, data integrity check, CLI

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