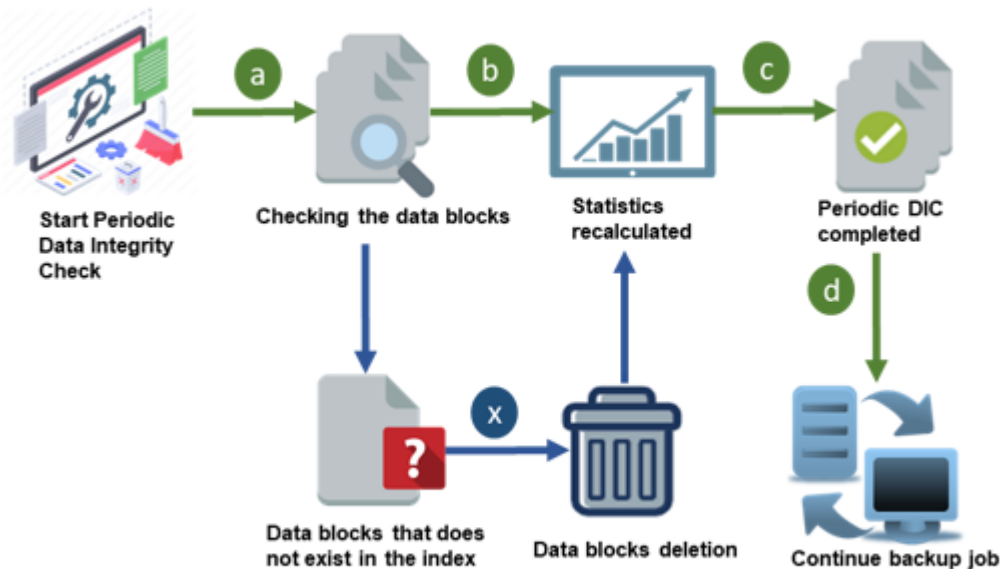


## 3. Overview of MS Exchange Mail Level Backup Process

The following steps are performed during an Exchange Mail Level backup job. For an overview of the detailed process for Steps 3, 5 and 10, please refer to A, B and C.



### Detailed Process of Periodic Data Integrity Check (PDIC)



**a** Check the data blocks (.bak files) located in the backup destination(s) if they exist in the index.

→ If YES, proceed to **b**

→ If NO, proceed to **X**

**X** Data blocks (.bak files) that do not exist in the index will be removed from the backup destination(s).

Proceed to **b**

**b** Data area and Retention area statistics are recalculated.

**c** Periodic Data Integrity Check is completed.

**d** Backup job continues.

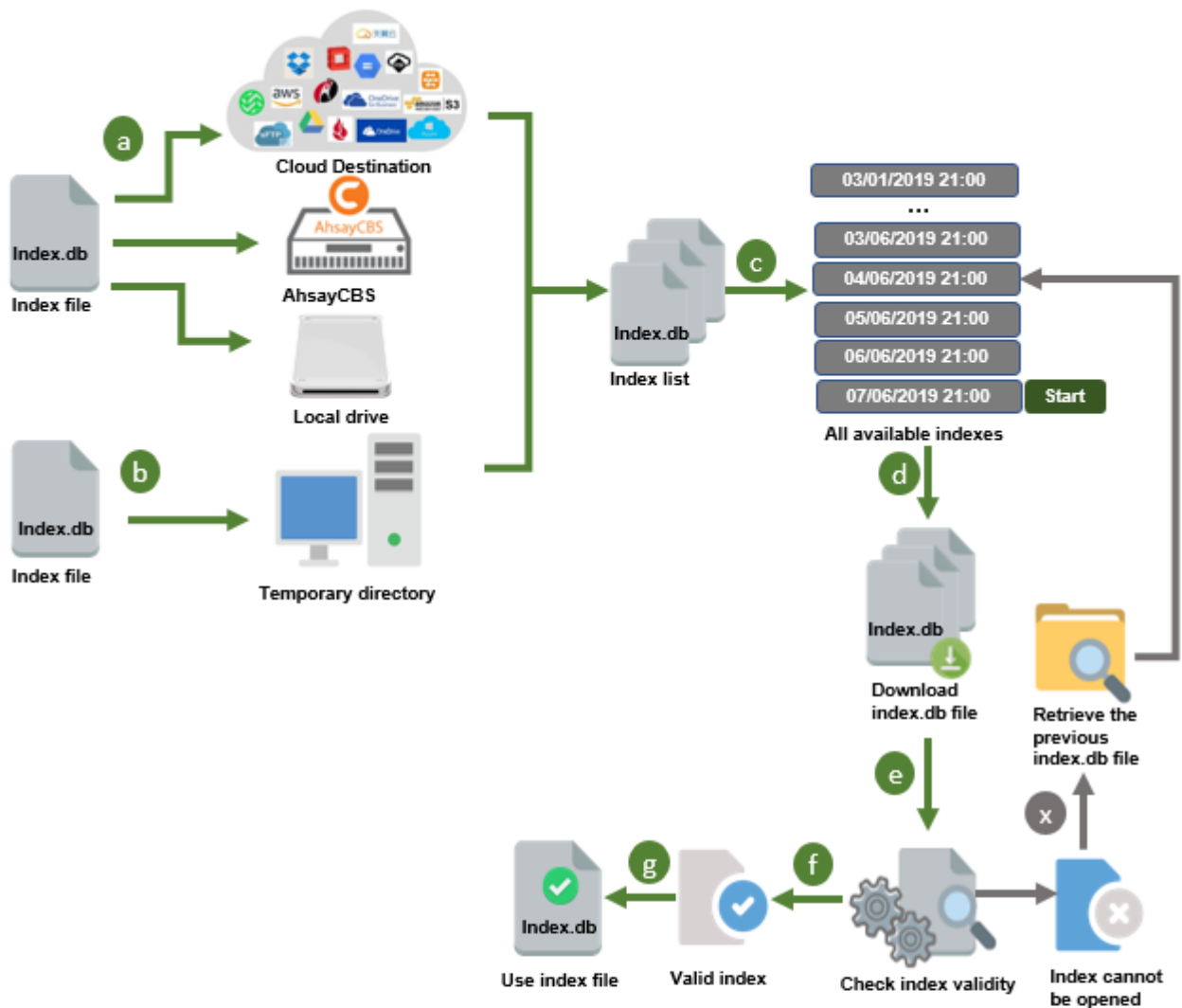
💡 Periodic Data Integrity Check (PDIC) will run under the following conditions:

- Can be triggered on a weekly basis, usually on the first run of backup job that falls on any one of these days: Friday, Saturday, or Sunday.
- or
- If there is no active backup job(s) running on Friday, Saturday, or Sunday, then the PDIC will be triggered on the next available backup job.

e.g. If the last PDIC job was run more than 7 days ago, then the subsequent PDIC job(s) will run 7 days from that day onwards.

Corrupted data blocks (.bak files) can only be deleted by manually running full Data Integrity Check (DIC) in the AhsayOBM client or AhsayCBS Web Console for Run-On Server (Office 365 and Cloud File Backup).

## Backup Set Index Handling Process



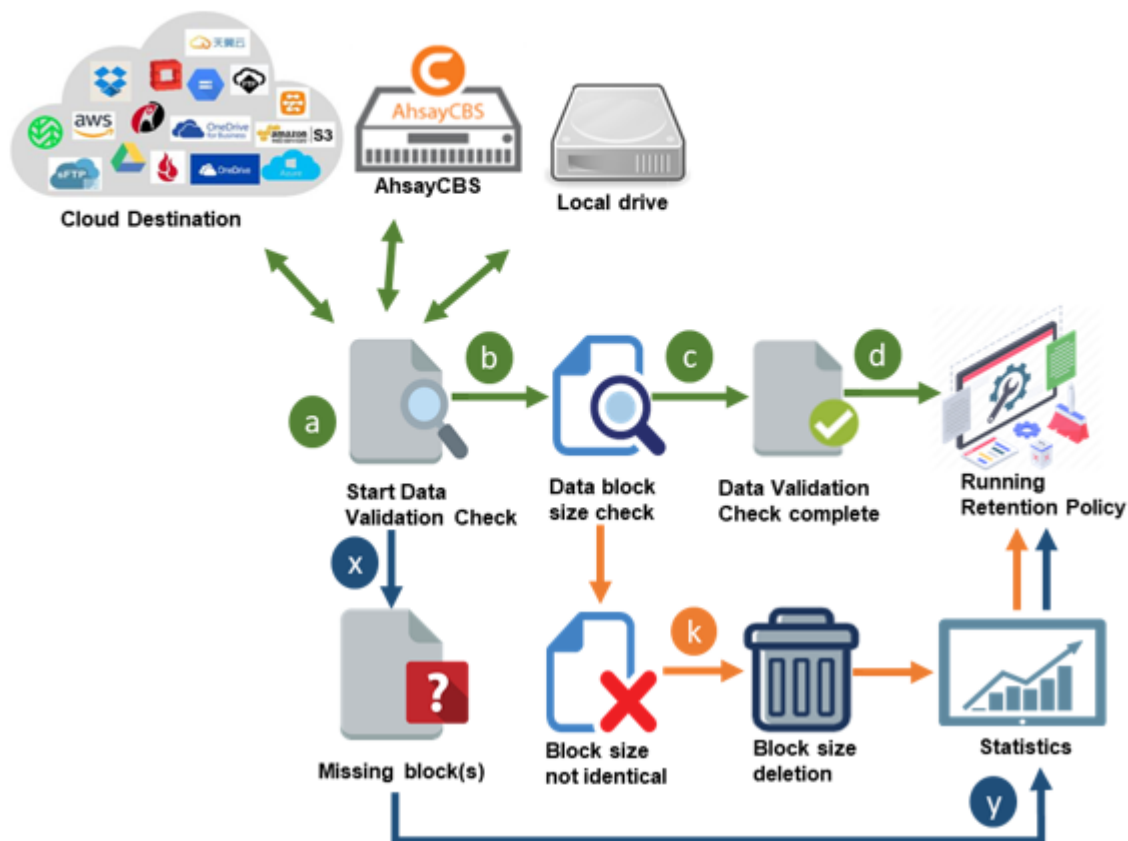
- a** Index file(s) will be listed in the current directory (e.g. cloud destination, AhsayCBS, local drive, FTP or SFTP).
- b** If the local temporary directory contains index.db file which has a later modified date and time, then the current directory (e.g. cloud destination, AhsayCBS, local drive, FTP or SFTP) will also be added to the list.
- c** All available indexes will be sorted according to the modified date and time.

- d** Latest index file in the list will be downloaded according to the most current modified date and time.
- e** Index file will be checked to see if it can be opened.
  - If YES, proceed to **f**
  - If NO, proceed to **x**
- f** If it can be opened, the index will be used for the current backup job.
- g** Use the index.db file to compile file list for backup.

- x** If it cannot be opened, it will proceed to the previous index.db file in the list until it finds a valid index that can be opened.

**For index.db files found to be corrupted and its associated data blocks will no longer be restorable. They will not be removed automatically from the destination(s) and can only be removed by manually running the data integrity check on the AhsayOBM or AhsayACB client.**

## Detailed Process of Data Validation Check



- a** Check the number of 16 or 32 MB data blocks in the backup destination(s) is identical to the number of blocks transferred.  
 → If YES, proceed to **b**  
 → If NO, proceed to **x**
- b** Check the individual sizes of each data block in the backup destination(s) is identical to the sizes of each block transferred.  
 → If YES, proceed to **c**  
 → If NO, proceed to **k**
- c** Data validation check is complete.
- d** Retention policy will run (if enabled).
- x** Files in the missing block(s) will be removed from the index.db file.
- y** Statistics will be updated according to the files removed.  
 Proceed to **d**
- k** Block size that are not identical will be removed from the backup destination(s).  
 Proceed to **y** then  
 Proceed to **d**

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