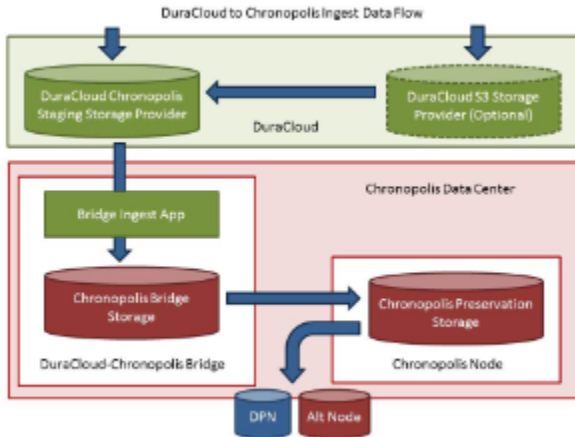


Snapshot Ingest Process - DuraCloud to Chronopolis



Ingest Process Steps

1. DuraCloud exposes Chronopolis Staging Storage Provider
2. User transfers content into a space in Chronopolis staging storage provider
3. User selects option to create a Chronopolis snapshot from space contents
 - a. User is asked for and provides necessary snapshot metadata
4. DuraCloud creates snapshot properties file and stores it in snapshot space
5. DuraCloud makes space read-only (based on presence of snapshot properties file)
6. DuraCloud makes a call to Bridge Ingest App running on Chronopolis hardware indicating that a snapshot should be taken
 - Information provided on snapshot call: DuraCloud host and port, Store ID, Space ID, Snapshot ID
7. The Bridge Ingest app:
 - Creates a directory for the snapshot on a local mounted file system (bridge storage)
 - Pulls all content from the space to /data directory under the snapshot directory
 - Moves the snapshot properties file from the /data directory to the snapshot directory
 - Stores the properties for all content items in a json file, also in the snapshot directory
 - Creates an MD5 manifest of all content items, adding each item after the MD5 has been verified to match the DuraCloud checksum
 - Creates a SHA-256 manifest of all content
8. The Bridge Ingest app notifies Chronopolis (email to start) that a snapshot is ready for ingest, and provides the snapshot ID and the path of the snapshot directory
9. Chronopolis pulls all content from bridge storage into Chronopolis preservation storage.
 - Chronopolis verifies content against manifest
 - Chronopolis creates DPN bags for the content
10. Chronopolis notifies DuraCloud that Snapshot creation is complete
11. DuraCloud removes all content from bridge storage and from staging storage
 - DuraCloud makes space in staging provider available for writes again
12. DuraCloud displays the snapshot and the content it contains in a Chronopolis Storage Provider
13. Chronopolis creates additional copies of snapshot in secondary nodes and DPN

Note: Terms are defined in the [Bridge Term Glossary](#)

Note: [Bridge App REST API](#) listed here