# **Bridge Intake**

The Bridge Intake Service provides data pulled down from the Duracloud Bridge App a path into Chronopolis. It currently handles bagging of snapshots, which includes validating files from the manifest given by Duracloud.

# Links

- Gitlab: Bridge-Intake
- Github:Bridge-Restore-2

# Installation

# **Prereqs**

- Running Duracloud Bridge App to connect to
- Staging area for creating bags

## **RPM**

Installation can be done through the provided rpm. This offers builds for both RHEL6 and RHEL7.

#### Installation Notes

#### Installed Files For RHEL6

```
/etc/init.d/bridge-intake
/usr/local/chronopolis/intake/dc
/usr/local/chronopolis/intake/dc/application.yml
/usr/local/chronopolis/intake/dc/bridge-intake.jar
```

#### Installed Files For RHEL7

```
/usr/lib/systemd/system/bridge-intake.service
/usr/local/chronopolis/intake/dc
/usr/local/chronopolis/intake/dc/application.yml
/usr/local/chronopolis/intake/dc/bridge-intake.jar
/usr/local/chronopolis/intake/dc/bridge-prepare
```

When running, the service will check for the following directories and create/apply permissions if they do not match:

- System Logging: /var/log/chronopolis/
- Journal data: /var/lib/chronopolis/data/

# Configuration

## application.yml

```
# Cron timer for how often the bridge is polled
bridge:
   poll: 0 0 0 * * *

# General chron configuration
## chron.node: obsolete;
## chron.workDirectory: directory for storing information used for ongoing operations, e.g. file csv
## chron.stage.bags.posix.id: the id of the bag staging area for this service
## chron.stage.bags.posix.path: the path on disk to the bag staging area for this service
chron:
   node: chron
   workDirectory: /tmp/chronopolis
   stage.bags:
   posix.id: 4
```

```
posix.path: /scratch0/bags
# Chronopolis Ingest API Configuration
## ingest.api.endpoint: the http endpoint of the Ingest Server
## ingest.api.username: the username to connect to the Ingest Server with
## ingest.api.password: the password to connect to the Ingest Server with
ingest.api:
 endpoint: http://localhost:8000/
 username: admin
 password: admin
# ACE IMS Configuration
## ace.ims.endpoint: the fqdn of the ims
## ace.ims.port: the port to connect to the ims on; one of: 80, 443
ace.ims:
 endpoint: localhost
 port: 80
 waitTime: 6000
# Duracloud Bridge Configuration
# The storage areas the bridge app writes in to
# Connection information to query the bridge
## duracloud.bridge.name: an identifier for the bridge
## duracloud.bridge.snapshots: the path on disk to the snapshots directory
## duracloud.bridge.restores: the path on disk to the restores directory
## duracloud.bridge.username: the username to use when querying the bridge
## duracloud.bridge.password: the password to use when querying the bridge
## duracloud.bridge.password: the http endpoint of the bridge
duracloud:
 bridge:
   - name: bridge-0
     snapshots: /bridge-0/snapshots/
     restores: /bridge-0/restore/
     username: replace-me
     password: replace-me
     endpoint: http://localhost:8080/
    - name: bridge-1
     snapshots: /bridge-1/snapshots/
      restores: /bridge-1/restore/
     username: replace-me
     password: replace-me
      endpoint: http://localhost:8081/
# Logging configuration
 file: /var/log/bridgeintake/intake.log
 level:
   org.springframework: ERROR
   org.hibernate: ERROR
   org.chronopolis: debug
   org.chronopolis.intake.duracloud.config: trace
# Extraneous settings
  disable SNI on https connections - false is the default and recommended value
disableSNI: false
```

## Release Notes

## Release 3.0.1

09 April, 2019

• Bug Fix: Resolve error with startup failing to configure our beans

## Release 3.0.0

#### 21 March, 2019

- Remove deprecated DPN workflow
- · Update .gitlab-ci.yml to cache maven artifacts

#### Release 2.4.3

#### 21 March, 2019

· Update Chronopolis and chron-test dependencies to latest

#### Release 2.4.2

#### 23 January, 2019

- Bump Chronopolis dependency version
- Bug Fix: Fix csv upload to create the MultiPart data correctly

#### Release 2.4.1

#### 22 January, 2019

• Bump Chronopolis dependency version

#### Release 2.4.0

#### 11 January, 2019

- · Bridge consolidation work to bring multiple bridge querying to a single service
- Update notification of missing Depositors to fire only once for the lifetime of the bridge
- Fix Bug resulting in successive snapshot runs not being processed if a check against the Depositor fails
- Update ChronopolisIngest for 3.0.0 workflow

#### Release 2.3.2

#### 09 August, 2018

- Fixed bug which was preventing deserialization of certain classes
- Temporarily disabled HttpFilter because of bug in Ingest Server

#### Release 2.3.1

#### 07 August, 2018

• Updated logic for appending a prefix to a depositor so that it is used in every operation

## Release 2.3.0

#### 10 July, 2018

- Code licensed under BSD-3
- Use separate thread pools when executing Ingestion tasks
  - Long IO operations bagging, cleaning, etc
  - Short IO operations HTTP requests
- Bring tokenization process up to date with Chronopolis Core code
- Test that a depositor exists before attempting to push a Bag to Chronopolis or DPN

## Release 2.2.1

#### 18 May, 2018

- Fix bug where constraint for bag size was checked incorrectly
- Fix bug where tokens were not being created because a dependency was missing

## Release 2.2.0

#### 14 May, 2018

- Fix bug where we could potentially create the wrong number of replications
- Add constraint satisfaction when creating DPN Replications
- Refactor code for Chronopolis and DPN Ingest to better facilitate working on snapshots concurrently
  - O Break up DPN Ingestion steps into multiple classes

O Use standard lib interfaces instead of spring-batch for tasks

#### Release 2.1.0

#### 8 February, 2018

- · Actively clean storage upon completion of data replicating
  - For chronopolis: Ingest reports PRESERVED
  - o For DPN: All replications completed
- · Mark staging as inactive in Ingest for completed replications in Chronopolis

## Release 2.0.3

## 29 November, 2017

• Query on Bags we created when running Tokenization

#### Release 2.0.2

#### 9 November, 2017

Remove creation of /var/log/chronopolis from rpm and instead create it on application startup

#### Release 2.0.1

#### 8 November, 2017

• Use correct properties when creating Ingest Requests to Chronopolis

## Release 2.0.0

#### 30 October, 2017

- Integrate Chronopolis 2.0.0 Changes
  - Import tokenization module in order to create ACE Tokens for incoming data
  - Use new properties classes for configuration of storage and api communication
  - Capture basic metrics when creating bags
  - Update ingest flow to create bag and fixity
- Updates to build and init scripts
  - Support EL6 and EL7
  - O Quality of life changes to the sysv init script based on rpmlint

## Release 1.5.1

## 30 June, 2017

• Fix bug that caused replications to be created for each node in DPN

## Release 1.5.0

## 26 June, 2017

- Add a prefix for chronopolis bound collections
- When creating replications for dpn, choose replicating nodes in a deterministic manner per snapshot so that all bags in a snapshot end up at the same DPN nodes.