inBloom – *Environment Specification*

Release 1.12.88

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# Purpose

This document is intended to provide operations with information necessary to update from a previous release to a current release in the inBloom™ Production and Sandbox environments.

This document provides minimum deployment footprints for this release, as well as an estimated footprint necessary for 5M students, and the Sandbox developer environment.

This document assumes deployment and growth within an Amazon AWS environment.

# Migration Scripts

The sections that follow include instructions for running migration scripts when updating to this version.

## ApplicationAuthorization Collection Migration Script

A migration script is provided to update the "body.applicationId" index in the applicationAuthorization collection from the pre-1.10.88 release format to the 1.10.88 release format.  Before release 1.10.88, the "body.applicationId" index was not defined as unique, as a result,  two different applicationAuthorization records could potentially have the same application id.  In release 1.10.88, "body.applicationId" index in the applicationAuthorization collection has been updated to be unique.

This script performs the following steps:

* Scans the applicationAuthorization collection,  if two applicationAuthorization records (A and B) have same application id, then 1) merge "edorgs" array of A into B, 2) delete A and keep B in the collection. For each application id, make sure there is only one corresponding applicationAuthorization record in the collection.
* Checks if there is an existing "body.applicationId" index in the applicationAuthorization collection, if yes, drop the old index and then create a new one with option "unique=true"; if no, simply create a new index with option "unique=true".The script can be re-run.

The script can be re-run. Data that has already been consolidated will be ignored, indexes that have already been updated will be updated again.

Location: sli/sli/opstools/migration/88\_update\_index\_application\_authorization.rb

Usage: To migrate applicationAuthorization collection, give argument(s) as follows:

            --all                                 Migrate against all tenant dbs

            --OR--

           <tenant1> [<tenant2> ...]         Migrate only database(s) in the list

           myhost:myport                          Optional hostname and port defaults to localhost:27017

           For example:

           ruby opstools/migration/88\_update\_index\_application\_authorization.rb  --all mongo\_host:mongo\_port

           ruby opstools/migration/88\_update\_index\_application\_authorization.rb <tenant1> [<tenant2> ...]  mongo\_host:mongo\_port

# Infrastructure Configuration Changes

## MongoDB (Data Store Layer)

No changes.

## Ingestion

Each section of ingestion requirements covers one service or application that is part of the ingestion system.

### Landing Zones

No changes.

### GlusterFS

No changes.

### ActiveMQ

No changes.

### Ingestion servers

No changes.

## Portal

No changes.

## API

No changes.

## Data Browser

No changes.

## Admin Tools

No changes.

## Simple IDP

No changes.

## Search

No changes.

# Suggested Base Configuration Changes

The configuration examples provided below detail a running system.  Email addresses and URLs that are imbedded in the configuration should be validated prior to go-live.

## sli.properties

No changes.

## Portal Application sli.properties

No changes.

## portal-ext.properties

No changes.

## Admin config.yml

No changes.

## Data browser config.yml

No changes.

## Apache Tomcat

No changes.

## ActiveMQ

No changes.