**Conclusion about the Migration Process**

**Upgrading from the Ginkgo.2 Release to the Ironwood.master via the Hawthorn.2 in the Production Setup**

**Date: 6th July 2021**

**Duration:** 11 Days

**Machines:**

* Single instance Hawthorn.2 machine 10.80.0.100.
* Ironwood distributed machines (MySQL 10.10.3.151, 10.10.3.153; Mongo 10.10.3.145; etc).

The steps for upgrading the data from **Gingko.2** to **Ironwood.master** via **Hawthorn.2** which has been done in two steps:

Step 1: Upgrading from Gingko.2 to Hawthorn.2.

Step 2: Upgrading from Hawthorn.2 to Ironwood.master.

**Gingko.2 to Hawthorn.2.:**

It is a single instance upgradation.

About discovery Database:

discovery is a new database with 103 tables of “utf8” character set for the Ginkgo release, but we found 96 tables with "latin1" character set. we observed that it didn't have user data.

Action taken: We replaced the discovery database of the Ginkgo.2 with the Fresh discovery database of Ginkgo.2 release.

Extra database:

“edx\_notes\_api” is an extra MySQL database which was not present in the development environment and it is not part of the upgradation process.

Blank databases:

Analytics-api and dashboard are the blank databases in the restored data.

**Hawthorn.2 to Ironwood.master.**

It is a distributed upgradation in which three servers has been used to store the data.

Extra database:

“Credentials” and “iitbombayx29122017” are extra MySQL database which were not present in the development environment and they are not part of the upgradation process.

Absent databases:

Analytics-api and dashboard are absent in the MySQL databases.

**Overall Conclusion:** The production data of Ginkgo.2 release is upgraded to the Ironwood.master successfully.

**Step 1: Upgrading from Gingko.2 to Hawthorn.2.**

| **Database** | **Fresh Hawthorn** | **Restored Hawthorn with the Ginkgo.2 Production data** | **Reset the Restored Hawthorn with the Ginkgo.2 Production data** | **Migrated**  **Hawthorn** | **Comment , if any.** |
| --- | --- | --- | --- | --- | --- |
| analytics-api | 12 |  |  | 12 |  |
| dashboard | 23 |  |  | 23 |  |
| discovery | 103 | 96 | 103 | 103 | Character set of all tables are “latin1” in the restored database. |
| ecommerce | 131 | 139 |  | 131 |  |
| edxapp | 361 | 357 |  | 371 |  |
| edxapp\_csmh | 2 | 2 |  | 2 |  |
| edx\_notes\_api |  | 10 |  | 10 |  |
| programs |  |  |  |  |  |
| reports |  |  |  |  |  |
| xqueue | 11 | 11 |  | 11 |  |

**Step 2:** Upgrading from Hawthorn.2 to Ironwood.master.

| **Database** | **Fresh Ironwood.master** | **Restored Ironwood.master with the Ginkgo.2 Production data** | **Migrated**  **Ironwood.master** | **Comment , if any.** |
| --- | --- | --- | --- | --- |
| analytics-api | - | - |  |  |
| credentials | 41 | 41 | 41 |  |
| dashboard | - | - |  |  |
| discovery | 123 | 103 | 123 |  |
| ecommerce | 133 | 131 | 133 |  |
| edxapp | 375 | 371 | 379 | 391, after celery table restored in the production. |
| edxapp\_csmh | 2 | 2 | 2 |  |
| edx\_notes\_api | - | 10 | 10 |  |
| programs | - |  |  |  |
| reports | - |  |  |  |
| xqueue | 11 | 11 | 11 |  |

**Gingko.2 to Hawthorn.2.:**

It is a single instance upgradation.

About discovery Database:

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Analytics-api and dashboard are the blank databases in the restored data.

**Hawthorn.2 to Ironwood.master.**

It is a distributed upgradation in which three servers are used to store the data.

Extra database:

“Credentials” and “iitbombayx29122017” are an extra MySQL database which is not present in the development environment and it is not part of the upgradation process.

Analytics-api and dashboard are absent in the MySQL databases.

**Overall Conclusion:** The production data of Ginkgo.2 release is upgraded to the Ironwood.master successfully.