



This PDF is generated from authoritative online content, and is provided for convenience only. This PDF cannot be used for legal purposes. For authoritative understanding of what is and is not supported, always use the online content. To copy code samples, always use the online content.

iWD Deployment Guide

iWD History Node Database Schema Migration

5/11/2025

iWD History Node Database Schema Migration

There are two scenarios to note when you should perform database schema migration:

- Creating a database schema from scratch in the initial startup process.
- Updating the database schema when upgrading iWD History Node to a new version.

In both cases it works the same way. Complete either one of the following procedures:

- Enable automatic database schema migration by setting the value of Configuration Server option **[iWD]/migrate-schema** to true. This means that the application will check the current data schema at startup and update (or create) it if necessary. Note that default value of **[iWD]/migrate-schema** is false. Or;
- Migrate the schema manually using the command line as shown below:
 - **Linux**—`./iwd_history.sh -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db migrate`
 - **Windows**—`JavaServerStarter.exe -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db migrate`

Important

All commands like `./iwd_history.sh` and `JavaServerStarter.exe` should be executed from the directory where History Node has been installed.

Troubleshooting

Schema migration can sometimes get stuck in a loop that prevents History Node starting. When this happens, the following entries are written to the log file:

```
INFO [2017-05-26 10:10:57,497] com.genesyslab.iwd.history.HistoryApplication: Running database schema migration
INFO [2017-05-26 10:11:03,313] liquibase: Waiting for changelog lock...
INFO [2017-05-26 10:11:13,317] liquibase: Waiting for changelog lock...
...
```

To correct this, after stopping History Node application, do the following:

- On Linux

1. List any database locks.

```
./iwd_history.sh -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --list
```

2. Release the database locks.

```
./iwd_history.sh -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --force-release
```

- On Windows:

1. List any database locks.

```
JavaServerStarter.exe -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --list
```

2. Release the database locks.

```
JavaServerStarter.exe -host CFG_SRV_HOST -port CFG_SRV_PORT -app HN_APP db locks --force-release
```