

# IBM ECM System Monitor V5.5.5.x - Prevent Corrupt Configuration Database

Changing parameters for Configuration Database to prevent  
database corruption

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# Introduction

## Overview

This guide describes in detail, which adjustments need to be taken to prevent a corruption of the configuration database in IBM ECM System Monitor (ESM) 5.5.5.x.

## Disclaimer

The content of this document is based on ESM in version 5.5.5.0 and IF01. The descriptions and guidelines in this document are for informational purposes only. Up-to-dateness, content completeness, appropriateness and validity for all possible scenarios cannot be guaranteed. All information is provided on an as-is basis. The author is not liable for any errors or omissions in this document or any losses, injuries and damages arising from its use.

If you are planning to setup or configure ESM or to adjust an existing installation, it is absolutely necessary to take into account current security whitepapers, release notes and announcements from the official IBM ECM System Monitor product documentation website.

## Description of the issue

In the latest versions of ESM more and more issues with corrupt configuration databases were reported. Most likely the issue could be seen in the karaf log or was shown in the browser when the software was started.

The error that was reported looked similar to this:

```
-----  
Version: 5.5.5.0|651ebc0491|2020-08-07  
---  
Database Initialization:  
de.cenit.phoenix.database.init.PatchDbInitializer has not been executed yet!  
  DataSources not available or an exceptions occurred during database  
  initialization. Please check karaf/data/log/karaf.log  
de.cenit.phoenix.init.DbInitializer has not been executed yet!  
  Persistence and/or MonitoringPersistence service not available.  
de.cenit.phoenix.reporting.ReportingTestDataInitializer has not been executed yet!  
de.cenit.phoenix.security.init.SecurityDbInitializer has not been executed yet!  
  Persistence service not available or JAAS configuration error.  
de.cenit.phoenix.server.services.agents.AgentBasicMonitoringInitializer has not  
been executed yet!  
---  
Database Configuration:  
Please check your internal datasource configuration:  
karaf/etc/org.ops4j.datasource-phoenix.cfg  
  dataSourceName=phoenix  
  url=jdbc:h2:./configuration;AUTO_SERVER=TRUE;AUTO_RECONNECT=TRUE  
  user=db  
  password=*****  
  osgi.jdbc.driver.class=org.h2.Driver  
-  
Please check your internal datasource configuration:  
karaf/etc/org.ops4j.datasource-monitoring.cfg  
  dataSourceName=monitoring  
  url=jdbc:h2:./monitoring;AUTO_SERVER=TRUE;AUTO_RECONNECT=TRUE  
  user=db  
  password=*****  
  osgi.jdbc.driver.class=org.h2.Driver  
-  
Services:  
  de.cenit.phoenix.agent.messaging: ACTIVE  
  de.cenit.phoenix.auditlog.repo.AuditLogRepoImpl: UNSATISFIED_REFERENCE  
    Persistence  
  de.cenit.phoenix.commons.jaas.JaasSecurityProvider: ACTIVE  
  de.cenit.phoenix.commons.reflect.ClassFinderImpl: ACTIVE  
  de.cenit.phoenix.commons.servlet.LogResourceHandler: ACTIVE  
  de.cenit.phoenix.commons.servlet.StatusServlet: ACTIVE  
  de.cenit.phoenix.commons.servlet.VersionResourceHandler: ACTIVE  
  de.cenit.phoenix.commons.version.Version: ACTIVE  
  de.cenit.phoenix.crypto.PasswordEncryptor: ACTIVE  
  de.cenit.phoenix.crypto.StringEncryptor: ACTIVE  
  de.cenit.phoenix.database.h2.H2Server: ACTIVE  
  de.cenit.phoenix.database.init.ConfigInitializer: ACTIVE  
  de.cenit.phoenix.database.init.MonitoringInitializer: ACTIVE  
  de.cenit.phoenix.database.init.PatchDbInitializer: FAILED_ACTIVATION  
  org.h2.jdbc.JdbcSQLNonTransientException: General error:  
"java.lang.IllegalStateException: Chunk 380269 not found [1.4.200/9]" [50000-200]  
  at org.h2.message.DbException.getJdbcSQLException(DbException.java:505)  
  at org.h2.message.DbException.getJdbcSQLException(DbException.java:429)  
-----  
-----
```

## Steps to be taken

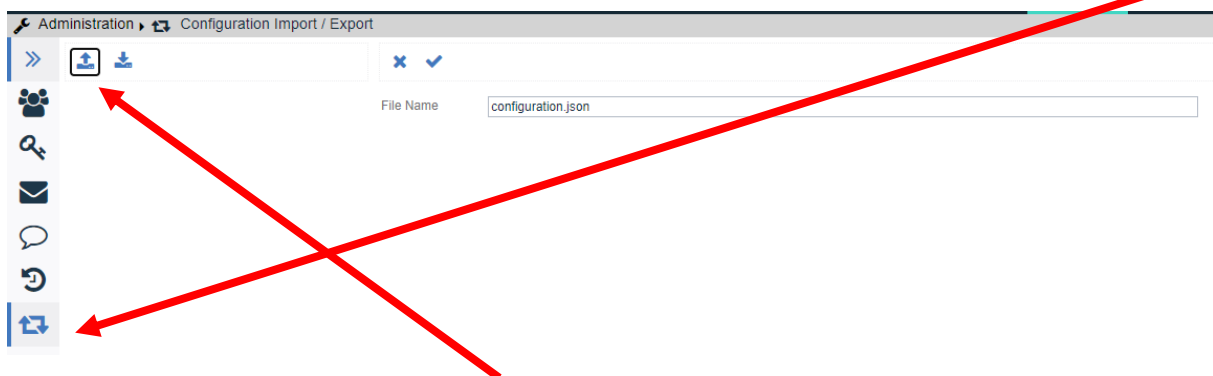
The following steps need to be performed to change the behavior of the in-built H2 database. Steps 2, 3 and 8 only need to be done, if an update was performed and a configuration within the software already exists.

### 1. Update or Install ESM

Update to or Install ESM Version 5.5.5.0 IF01 or later. Follow exactly the steps described in the readme document.

### 2. Export the configuration (for Update only)

The whole configuration can be exported into a json file. During the export the situations will all be marked as inactive, so after an import they do not run directly. For exporting the configuration switch to the administration dashboard and select the Configuration Export / Import feature on the left:



On the top you see two buttons. The left button is for the export. After clicking on it the export editor will open where you can specify a configuration file name. Once you click on the save button either the file is stored automatically to your preferred download directory or you are asked where the file should be stored. That depends on your browser setting.

### 2. Stop the ESM Server

Stop the ESM Server software.

### 3. Edit file for disabling automated basic monitoring (for Update only)

Edit the file "de.cenit.phoenix.server.services.agents.AgentBasicMonitoringInitializer.cfg". The file is located in <Installation-Root>/karaf/etc of the ESM Server.

Change the content from

```
disable=false
```

to

```
disable=true
```

Automatic enablement of basic monitoring is stopped due to this change.

#### 4. Adjust JDBC URL for configuration Database

Edit the file “org.ops4j.datasource-phoenix.cfg”. The file is located in <Installation-Root>/karaf/etc of the ESM Server.

Change the line that reads

```
url=jdbc:h2:./configuration;AUTO_SERVER=TRUE;AUTO_RECONNECT=TRUE
```

to

```
url=jdbc:h2:./configuration;AUTO_SERVER=TRUE;AUTO_RECONNECT=TRUE;MV_STORE=FALSE
```

#### 5. Backup configuration database file and delete it

Backup the file configuration.mv.db from <Installation-Root>/karaf/ on the ESM Server to any other location. Delete the file afterwards.

#### 6. Start the ESM Server

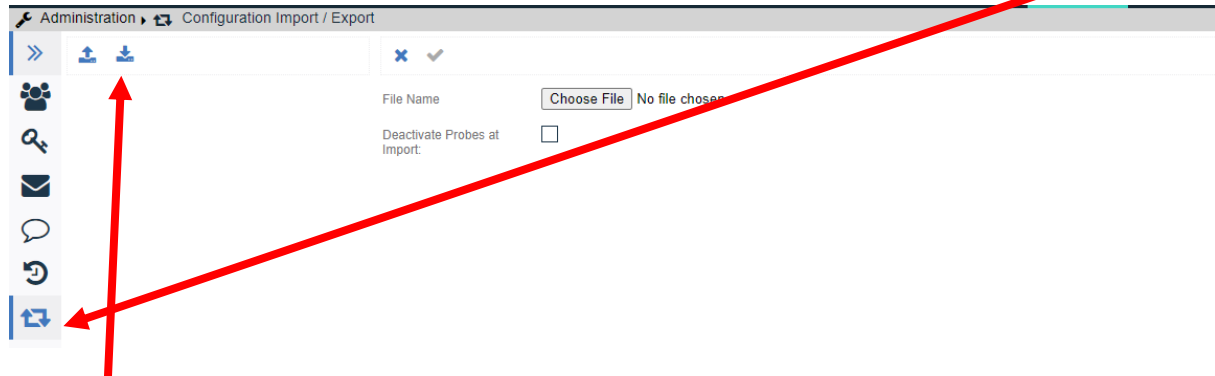
Start the ESM Server. A new configuration database file will be created within a short period. The file is named configuration.h2.db now.

#### 7. Login to console

Open the ESM console and log in. You have to use admin/admin at this time, since the database was newly created.

## 8. Import (for Update only)

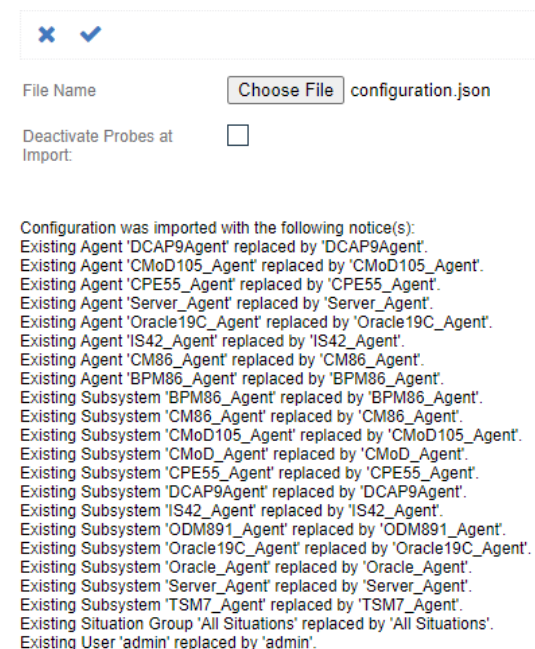
The configuration can be imported into any other ESM server. For importing the configuration switch to the administration dashboard of the target ESM server and select the Configuration Export / Import on the left:



The right button is for the import. After clicking on it the import editor will open where you can select the configuration file that you want to import via the Choose File button. Also you can specify whether the probes should be deactivated or not after the import. Please have them activated (unchecked). Click on the Choose File button, the browsers file explorer opens and you can search for the correct file.

Click on the Save button at the top to start the import.

Note: The console is not showing any information until the import is completed, so please be patient and wait a moment. Information about the successful import is listed in the browser window.



## 9. End

Your ESM server is back in business now.