

Upgrading

Table of Contents

- [How to Upgrade](#)
- [How to Roll Back](#)
- [Release Upgrade Notes](#)

How to Upgrade



Please backup your database before upgrading

This is very important that you backup your database (step #7 in the guideline below) in case anything unexpected happens during the migration.

Note that you can upgrade directly from any version to one with a higher version number and all database migrations will be handled automatically during the upgrade process. For example, you can upgrade directly from version 3.1 to version 3.5, without first upgrading to version 3.2, then to version 3.3, and so on.

1. Read the upgrade notes below for each version
2. Stop the SonarQube server
3. [Download](#) and unzip the new SonarQube distribution in a **fresh** directory, let's say *NEW_SONARQUBE_HOME*.
4. Update the content of the *sonar.properties* and *wrapper.conf* files located in the *NEW_SONARQUBE_HOME/conf* directory with the content of the related files in the *OLD_SONARQUBE_HOME/conf* directory (web server URL, database settings, etc.). Do not copy-paste the old files.
5. Copy the *OLD_SONARQUBE_HOME/extensions/plugins* directory into *NEW_SONARQUBE_HOME/extensions/plugins*.
 - ⚠ Check the [Compatibility Matrix](#) for plugins compatibility and **manually upgrade the plugins if necessary**.
6. If a custom JDBC driver is used, copy it into *NEW_SONARQUBE_HOME/extensions/jdbc-driver/<dialect>*.
7. ⚠ **Back up your database.**
8. ⚠ If an *es* directory exists under *data*, **remove the es directory** (such a directory should not exist if step 3, above, was followed).
9. Start the web server
10. Browse to <http://localhost:9000/setup> (replace "localhost:9000" by your own URL) and follow the setup instructions.
11. Analyze your projects to get fresh measures.



NOTE

The time to complete an upgrade will vary based on the size of the projects portfolio.

From 5.0 forward, upgrade time can be significantly impacted by the recreation of the Elasticsearch indices, which could take one or more hours, again depending on the size of the projects portfolio.

You can monitor the progress of both the database upgrade and the ES index creation by watching the server log: *NEW_SONARQUBE_HOME/logs/sonar.log*

An upgrade is complete when an analysis has been run on project. Only then will you see the new functionality.

How to Roll Back

If, for some reasons, your upgrade failed, you can roll back by:

1. Restoring your backed up database
2. Updating the *OLD_SONARQUBE_HOME/conf/sonar.properties* configuration file to link to the restored database
3. Restarting the previous version of the web server

Release Upgrade Notes

Usually the SonarQube releases come with some specific recommendations for upgrading from the previous version. You have to read the upgrade notes for all versions between your current version and the target version.

- [LTS \(3.7.x\) to LTS \(4.5.x\) Migration](#)
- [Release 5.1 Upgrade Notes](#)
- [Release 5.0 Upgrade Notes](#)
- [Release 4.5 Upgrade Notes](#)
- [Release 4.4 Upgrade Notes](#)

- [Release 4.3 Upgrade Notes](#)
- [Release 4.2 Upgrade Notes](#)
- [Release 4.1 Upgrade Notes](#)
- [Release 4.0 Upgrade Notes](#)
- [Release 3.7 Upgrade Notes](#)
- [Release 3.6 Upgrade Notes](#)
- [Release 3.5 Upgrade Notes](#)
- [Release 3.4.1 Upgrade Notes](#)
- [Release 3.4 Upgrade Notes](#)
- [Release 3.3 Upgrade Notes](#)
- [Release 3.2 Upgrade Notes](#)
- [Release 3.1 Upgrade Notes](#)
- [Release 3.0 Upgrade Notes](#)
- [Release 2.14 Upgrade Notes](#)
- [Release 2.13 Upgrade Notes](#)
- [Release 2.12 Upgrade Notes](#)
- [Release 2.11 Upgrade Notes](#)
- [Release 2.10 Upgrade Notes](#)
- [Release 2.9 Upgrade Notes](#)
- [Release 2.8 Upgrade Notes](#)
- [Release 2.7 Upgrade Notes](#)
- [Release 2.6 Upgrade Notes](#)
- [Release 2.5 Upgrade Notes](#)
- [Release 2.4 Upgrade Notes](#)
- [Release 2.3 Upgrade Notes](#)
- [Release 2.2 Upgrade Notes](#)
- [Release 2.1 Upgrade Notes](#)
- [Release 2.0 Upgrade Notes](#)