

# Upgrading

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SonarQube Upgrade process is automated, and below 5.2 you can upgrade from any version to any version. But starting from SonarQube 5.2, the migration scripts are only available from the nearest LTS.

That means that if you want to move from an version prior to SonarQube 4.5 to 5.2, 5.3, 5.x, you must first migrate to at least SonarQube 4.5.x LTS. Examples:

- If you are running SonarQube 3.7 LTS, your migration path will be: 3.7 > 4.5.x > 5.2 **(with x>0)**
- If you are running SonarQube 4.2, your migration path will be: 4.2 > 4.5.x > 5.2 **(with x>0)**
- If you are running SonarQube 4.5, your migration path will be: 4.5 > 4.5.x > 5.2 **(with x>0)**
- **If you are running SonarQube 4.5.x, your migration path will be: 4.5.x > 5.2 (with x>0)**
- If you are running SonarQube 5.0, your migration path will be: 5.0 > 5.2

## How to Upgrade



### Please backup your database before upgrading

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

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

If you use external configuration, such as a script or Windows Service to control your server, you'll need to update it to point to *NEW\_SONARQUBE\_HOME*.



### 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 a 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 5.3 Upgrade Notes](#)
- [Release 5.2 Upgrade Notes](#)
- [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](#)
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- [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](#)