

# Sonarr Configuring PostgreSQL Database

Configuring Sonarr with a Postgres Database

## Sonarr and Postgres

This document will go over the key points of migrating and setting up Postgres support in Sonarr.



Sonarr v4.0.0.615 or newer required

This guide was been created by the amazing [Roxedus](#)



Postgres databases are NOT backed up by Sonarr, any backups must be implemented and maintained by the user

## Setting up Postgres

First, we need a Postgres instance. This guide is written for usage of the `postgres:14` Docker image.



Do not even think about using the `latest` tag!

```
1 docker create --name=postgres14 \  
2   -e POSTGRES_PASSWORD=qstick \  
3   -e POSTGRES_USER=qstick \  
4   -e POSTGRES_DB=sonarr-main \  
5   -p 5432:5432/tcp \  
6   -v /path/to/appdata/postgres14:/var/lib/postgresql/data \  
7   postgres:14
```

## Creation of database

Sonarr needs two databases, the default names of these are:

- ▶ `sonarr-main` This is used to store all configuration and history
- ▶ `sonarr-log` This is used to store events that produce a logentry



Sonarr will not create the databases for you. Make sure you create them ahead of time

Create the databases mentioned above using your favorite method - for example [pgAdmin](#) or [Adminer](#) .

You can give the databases any name you want but make sure `config.xml` file has the correct names. For further information see [schema creation](#).

## Schema creation

We need to tell Sonarr to use Postgres. The `config.xml` should already be populated with the entries we need:

```
1 | <PostgresUser>qstick</PostgresUser>
2 | <PostgresPassword>qstick</PostgresPassword>
3 | <PostgresPort>5432</PostgresPort>
4 | <PostgresHost>postgres14</PostgresHost>
```

If you want to specify a database name then should also include the following configuration:

```
1 | <PostgresMainDb>MainDbName</PostgresMainDb>
2 | <PostgresLogDb>LogDbName</PostgresLogDb>
```

Only **after creating** both databases you can start the Sonarr migration from SQLite to Postgres.

## Migrating data




If you do not want to migrate a existing SQLite database to Postgres then you are already finished with this guide!



Migrating an existing sqlite3 database is unsupported, and this script may not work without modifications which we cannot assist you with. We support only new installs using postgres.

To migrate data we can use [PGLoader](#) . It does, however, have some gotchas:

- ▶ By default transactions are case-insensitive, we use `--with "quote identifiers"` to make them sensitive.
- ▶ The version packaged in Debian and Ubuntu's apt repo are too old for newer versions of Postgres (Roxodus has not tested packages in other distros).

Roxedus [built a binary](#)  to enable this support (no code modification was needed, simply had to be built with updated dependencies).



Do not drop any tables in the Postgres instance

Before starting a migration please ensure that you have run Sonarr against the created Postgres databases **at least once** successfully. Begin the migration by doing the following:

1. Stop Sonarr
2. Open your preferred database management tool and connect to the Postgres database instance
3. Run the following commands:

```
1 | DELETE FROM "QualityProfiles";
2 | DELETE FROM "QualityDefinitions";
3 | DELETE FROM "DelayProfiles";
4 | DELETE FROM "Metadata";
5 | DELETE FROM "Config";
6 | DELETE FROM "VersionInfo";
7 | DELETE FROM "ScheduledTasks";
```

1. Start the migration by using either of these options:



```
1 | pgloader --with "quote identifiers" --with "data only" sonarr.db 'postgresql
```



```
1 | docker run --rm -v /absolute/path/to/sonarr.db:/sonarr.db:ro --network=host !
```



If you experience an error using pgloader it could be due to your DB being too large, to resolve this try adding `--with "prefetch rows = 100" --with "batch size = 1MB"` to the above command



With these handled, it is pretty straightforward after telling it to not mess with the scheme using `--with "data only"`

2. For those having the issues POST-MIGRATION from SQLite run the following:

```

1 select setval('public."AutoTagging_Id_seq"',(SELECT MAX("Id")+1 FROM "AutoTagg
2 select setval('public."Blacklist_Id_seq"',(SELECT MAX("Id")+1 FROM "Blocklist"
3 select setval('public."Commands_Id_seq"',(SELECT MAX("Id")+1 FROM "Commands"))
4 select setval('public."Config_Id_seq"',(SELECT MAX("Id")+1 FROM "Config"));
5 select setval('public."CustomFilters_Id_seq"',(SELECT MAX("Id")+1 FROM "Customl
6 select setval('public."CustomFormats_Id_seq"',(SELECT MAX("Id")+1 FROM "Customl
7 select setval('public."DelayProfiles_Id_seq"',(SELECT MAX("Id")+1 FROM "DelayP
8 select setval('public."DownloadClientStatus_Id_seq"',(SELECT MAX("Id")+1 FROM
9 select setval('public."DownloadClients_Id_seq"',(SELECT MAX("Id")+1 FROM "Downl
10 select setval('public."DownloadHistory_Id_seq"',(SELECT MAX("Id")+1 FROM "Downl
11 select setval('public."EpisodeFiles_Id_seq"',(SELECT MAX("Id")+1 FROM "Episodel
12 select setval('public."Episodes_Id_seq"',(SELECT MAX("Id")+1 FROM "Episodes"))
13 select setval('public."ExtraFiles_Id_seq"',(SELECT MAX("Id")+1 FROM "ExtraFile
14 select setval('public."History_Id_seq"',(SELECT MAX("Id")+1 FROM "History"));
15 select setval('public."ImportListExclusions_Id_seq"',(SELECT MAX("Id")+1 FROM
16 select setval('public."ImportListStatus_Id_seq"',(SELECT MAX("Id")+1 FROM "Imp
17 select setval('public."ImportLists_Id_seq"',(SELECT MAX("Id")+1 FROM "ImportLi
18 select setval('public."IndexerStatus_Id_seq"',(SELECT MAX("Id")+1 FROM "Indexe
19 select setval('public."Indexers_Id_seq"',(SELECT MAX("Id")+1 FROM "Indexers"))
20 select setval('public."MetadataFiles_Id_seq"',(SELECT MAX("Id")+1 FROM "Metada
21 select setval('public."Metadata_Id_seq"',(SELECT MAX("Id")+1 FROM "Metadata"))
22 select setval('public."NamingConfig_Id_seq"',(SELECT MAX("Id")+1 FROM "NamingC
23 select setval('public."NotificationStatus_Id_seq"',(SELECT MAX("Id")+1 FROM "N
24 select setval('public."Notifications_Id_seq"',(SELECT MAX("Id")+1 FROM "Notifi
25 select setval('public."PendingReleases_Id_seq"',(SELECT MAX("Id")+1 FROM "Pend
26 select setval('public."QualityDefinitions_Id_seq"',(SELECT MAX("Id")+1 FROM "Q
27 select setval('public."QualityProfiles_Id_seq"',(SELECT MAX("Id")+1 FROM "Qual
28 select setval('public."RemotePathMappings_Id_seq"',(SELECT MAX("Id")+1 FROM "R
29 select setval('public."RootFolders_Id_seq"',(SELECT MAX("Id")+1 FROM "RootFold
30 select setval('public."SceneMappings_Id_seq"',(SELECT MAX("Id")+1 FROM "SceneM
31 select setval('public."ScheduledTasks_Id_seq"',(SELECT MAX("Id")+1 FROM "Sched
32 select setval('public."Series_Id_seq"',(SELECT MAX("Id")+1 FROM "Series"));
33 select setval('public."SubtitleFiles_Id_seq"',(SELECT MAX("Id")+1 FROM "Subtit
34 select setval('public."Tags_Id_seq"',(SELECT MAX("Id")+1 FROM "Tags"));
35 select setval('public."Users_Id_seq"',(SELECT MAX("Id")+1 FROM "Users"));

```

### 3. Start Sonarr