

AerOn & PostgreSQL installation

Get informed:

Website: <http://www.aeronstudio.nl>
Helpdesk: <https://support.broadcastpartners.nl>
Solutions: <https://support.broadcastpartners.nl/support/solutions>
Info: <https://www.broadcastpartners.nl/aeron>
Community: [AerOn-community](#)

Get started:

The latest script version can be downloaded from
<http://update.aeronstudio.nl/files/release/install-postgresql-aeron.zip>

Online manual: <https://support.broadcastpartners.nl/support/solutions/articles/52000081691-Aeron-Installatie-PostgreSQL-Aeron-Studio>

The **PowerShell script, Install-Postgresql-Aeron.ps1**, creates all batch files needed for installation and downloads the installer binaries for PostgreSQL and AerOn. The script also creates batch files for database backup and restore.

Step 1 to 7 is automated, please **confirm each step** with **YES**.

Step 8 NexusDB database conversion to PostgreSQL database. New users can skip this step.

Step 9 Run the AerOn installer. From there follow the guidelines from **step 9 to 12**.
You may change script default parameters to your own configuration.

Run the script "Install-Postgresql-Aeron.ps1" by right click and select Run with PowerShell.

Available parameters in the Install-Postgresql-Aeron.ps1 script

Important Note: If you are upgrading to a higher PostgreSQL and already have an **existing database** and your database has a **schema** named **aeron** then change the **database schema parameter** - **pgDBSchema** value from public to **aeron**.

Description	Parameter	Default value
Postgres version	-pgVersion	16
Postgres install dir	-pgInstallDir	C:\Program Files\PostgreSQL\16
Postgres database dir	-pgDataDir	C:\Aeron Database\PostgreSQL\16\Database
Backup dir	-pgBackupDir	C:\Aeron Database\PostgreSQL\16\Backup
Hostname	-pgHostname	127.0.0.1
Port	-pgPort	5416
Database name	-pgDatabase	aeron_prod_db

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Database schema	-pgDBSchema	public
Super User	-pgSuperUser	postgres
Password	-pwdSuperUser	postgres
User	-AeronDBAdmin	aeron_dba
Password	-pwdAeronDBAdmin	aeron_dba
User	-AeronAppUser	aeron_vt_user
Password	-pwdAeronAppUser	aeron_vt_user
Postgres service name	-pgServiceName	postgresql-16-x64-aeron
Service account	-pgServiceUser	postgres
Password	-pgServicePassword	postgres
Boolean	-CreateServiceUser	true
Boolean	-OnlyDownload	false
Boolean	-RunDbConvert	false

Note: If you already have an existing database and your database has an **aeron schema** then change the **database schema parameter** value to **aeron**.

If you installed with schema **public** and your database has an **aeron** schema then your data will **not get visible**. Run the following SQL in pgAdmin to get your data visible in Aeron.

```
ALTER DATABASE aeron_prod_db SET search_path = "$users", aeron, public;
REVOKE CONNECT ON DATABASE aeron_prod_db FROM public;
```

Note: Adjust the database name above to the proper value

Supported PostgreSQL versions

PostgreSQL versions 12 and lower are EOL, use a higher version.

PostgreSQL major version 13 is officially supported from Aeron studio 1.14.9.13
 PostgreSQL major version 14 is officially supported from Aeron studio 1.15.10.28
 PostgreSQL major version 15 is officially supported from Aeron studio 1.16.3.17

Advised: PostgreSQL major version 16 is officially supported from Aeron studio 1.16.11.14

PostgreSQL major version 17 is not yet officially supported, but seems to work well. You can use version 17 for testing.

Database restore after installing a higher version PostgreSQL

If you switch from e.g. PostgreSQL 12 to PostgreSQL 16 you need to backup your PostgreSQL 12 database to file. Then you can backup and restore your database from file with the provided backup_database.bat and restore_database.bat in folder C:\Aeron Database\PostgreSQL\16\Backup. You just have to edit the parameters in these batch files to fit your situation.

Installation manual procedure

Automated steps:

- 1) Start PostgreSQL installer with use of optionfile postgresql_install.opt.
- 2) When PostgreSQL installation has finished goto PostgreSQL data folder and rename pg_hba.conf to pg_hba-ori.conf.
- 3) Copy contents of conf folder and paste into PostgreSQL data folder.
 - aeron.conf contains PostgreSQL settings.
 - pg_hba.conf contains PostgreSQL security access rules.
 - recovery.slave example file for streaming replication.
- 4) Add line at the bottom of Postgresql.conf: include_if_exists = 'aeron.conf'
- 5) Restart PostgreSQL service.
- 6) Run create_users_aeron_prod_db.bat. This script runs in a few steps several sql statements to create users and database.
- 7) Run script add_firewall_rule_postgresql.bat to allow access from network.

Manual steps:

8) Convert AerOn NexusDB database to PostgreSQL:

Only for Aeron NexusDB users: Users who migrate from AerOn NexusDB need to convert their database to PostgreSQL. Just run the NexusDB database conversion program and connect to PostgreSQL database as user aeron_dba.

The PostgreSQL database connect options pop-up in a notepad textfile **"ConnectOptions.txt"**.

Further on you will find more information about the database conversion program.

The NexusDB database conversion can run while Aeron NexusDB is still Live, this way downtime is minimized.

9) Install AerOn. Run the Aeron Studio installer and follow directions from the installer.

10) Copy AerOn NexusDB settings file.

Only for Aeron NexusDB users: To retain AerOn NexusDB installation do install AerOn PostgreSQL into a different software folder e.g. 'AeronPostgres' and also select a different data folder.

If AerOn Postgres is installed with a different data folder then do copy the settings file **Aeron.ini** from the AerOn NexusDB data folder and paste this Aeron.ini into the AerOn Postgres data folder. Users who are new to AerOn can skip this step.

11) First run Aeron Postgres.

Connect to PostgreSQL database as user aeron_dba. Check if everything works.

12) Grant usage of PostgreSQL database to aeron_app_role/aeron_vt_user

Run 'grant_tables_to_aeron_app_role.bat'. After running this batch, user 'aeron_vt_user' get's permission to take usage of the database. This user is intended to be used for **external voicetrackers** to connect AerOn to PostgreSQL database. You don't have to give them the admin user aeron_dba.

Note: aeron_vt_user is not permitted and **can not modify hourformats**. If you want to edit and change hourformats, you have to connect AerOn to the PostgreSQL database with user **aeron_dba**.

Solve execution problems:

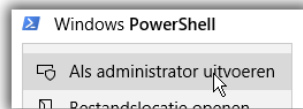
What if the PowerShell script doesn't run?

PowerShell Execution policy

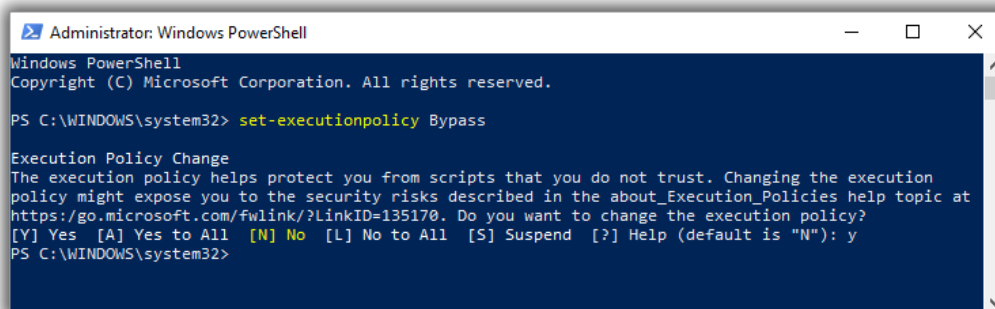
If *Install-Postgresql-Aeron.ps1* doesn't run you might need to allow PowerShell script execution and change execution policy from Restricted to Bypass. If PowerShell doesn't prompt for a policy change then follow the steps below.

Steps to adjust execution policy

Run PowerShell as Administrator.



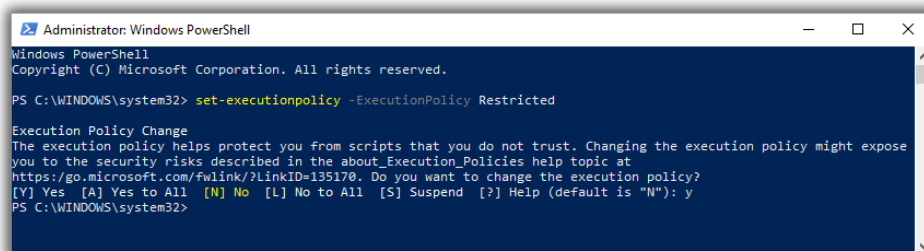
Run command: `set-executionpolicy Bypass` and type `Yes`



After installation is completed then rollback the execution policy for security

For **security reasons** you want to **disallow** PowerShell script **execution** again when installation via *Install-Postgresql-Aeron.ps1* has **finished**.

Run command: `set-executionpolicy -ExecutionPolicy Restricted` and type `Yes`



File access rights

If the PowerShell script is not permitted to create or access the source files, then place the script in a public folder or in your user folder.

If needed consult the Microsoft Docs.

[Installing Windows PowerShell - PowerShell | Microsoft Docs](#)

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Database conversion (only for AerOn NexusDB users)

Users who migrate from **AerOn NexusDB** to **AerOn Postgres** need to **convert** their database.

Press **Change** on the left panel to select the AerOn NexusDB database. Press **Change** on the right panel to enter PostgreSQL connect options as shown in ConnectOptions.txt.

Press **Start** to convert your AerOn NexusDB database to an AerOn PostgreSQL database.

