

# OP-8894 PostgreSQL password protection

## NPrinting Database Password

For versions prior to Qlik NPrinting February 2020, the PostgreSQL password inserted by the administrator while installing NPrinting Server was saved in plain-text in several files:

- “%programfiles%\NPrintingServer\NPrinting\Repo.EmptyDb\repo.config”,
- “%programfiles%\NPrintingServer\NPrinting\Repo.UpgradeDb\repo.config”,
- “%programfiles%\NPrintingServer\NPrinting\Scheduler\scheduler.config”,
- “%programfiles%\NPrintingServer\NPrinting\WebEngine\webengine.config”,
- “%programfiles%\NPrintingServer\Tools\Manager\repo.config”.

Starting from Qlik NPrinting February 2020, for security reasons the PostgreSQL password is saved enciphered on these files.

This encryption process is transparent for the end-user and it is done both in the case of clean installations and upgrades to February 2020 and newer versions. In other words, at the end of the installation/upgrade of Qlik NPrinting Server February 2020 the field “pg-password” within these config files will be enciphered and so not readily available to an end-user nor to Qlik Support.

To being able to protect the password while making possible for Qlik Support and NPrinting administrators to view/modify it when needed, we have added a couple of commands to Qlik.NPrinting.Manager.exe (normally installed under “%programfiles%\NPrintingServer\Tools\Manager\”, if you move it you can have malfunctions):

- show-password: while used on the computer on which NPrinting is installed, this command will show the password in clear text on Command prompt (the password won't be written in any NPrinting log files);
- change-password: while used on the computer on which NPrinting is installed, it will update all config files with a new (enciphered) password (see the example below). Please notice that this command does NOT modify PostgreSQL server configuration with the new password (procedure that must be manually done by an administrator), just NPrinting configuration files. Pay attention that if the PostgreSQL server password and the pg-password written in the NPrinting configuration files (encrypted or not) are not aligned, Qlik NPrinting services won't being able to connect to the database, failing at service start.

## Examples

Show-password command is used like follows:

1. Open an administrative command prompt (cmd.exe, launched as a windows administrator);
2. Go to “%programfiles%\NPrintingServer\Tools\Manager\” folder;
3. Run “Qlik.NPrinting.Manager.exe show-password” to see the PostgreSQL password as plain-text written on the console.

Change-password command is used like follows:

1. Open an administrative command prompt (cmd.exe, launched as a windows administrator);
2. Go to “%programfiles%\NPrintingServer\Tools\Manager\” folder;
3. Run “Qlik.NPrinting.Manager.exe change-password --new-pg-password NewAwesomePassword” to update the config files reported above with the new password “NewAwesomePassword” (enciphered);
4. Manually update PostgreSQL server configuration with the new password accordingly;
5. Restart Qlik NPrinting services.

## NPrinting Audit Database password

Starting from Qlik NPrinting November 2020, NPrinting comes with an Audit trail feature to monitor operations performed on and by Qlik NPrinting. Audit trail data are saved within a separate PostgreSQL database that has a specific password.

The PostgreSQL audit password is saved (enciphered) in files:

- “%programfiles%\NPrintingServer\NPrinting\Audit\repo.config”,
- “%programfiles%\NPrintingServer\NPrinting\WebEngine\webengine.config”,
- “%programfiles%\NPrintingServer\Tools\Manager\repo.config”.

To manage NPrinting Audit database enciphered password you can use Qlik.NPrinting.Manager.exe (normally installed under “%programfiles%\NPrintingServer\Tools\Manager\”, if you move it you can have malfunctions) with the following options:

- show-audit-password: while used on the computer on which NPrinting is installed, this command will show the audit database password in clear text on Command prompt (the password won't be written in any NPrinting log files);
- change-audit-password: while used on the computer on which NPrinting is installed, it will update all config files with a new (enciphered) audit password (see the example below). Please notice that this command does NOT modify PostgreSQL server configuration with the new audit password (procedure that must be manually done by an administrator), just NPrinting configuration files. Pay attention that if the PostgreSQL server password and the audit-pg-password written in the NPrinting configuration files (encrypted or not) are not aligned, Qlik NPrinting Audit service won't being able to connect to the database, failing at service start.

## Examples

Show-audit-password command is used like follows:

1. Open an administrative command prompt (cmd.exe, launched as a windows administrator);
2. Go to “%programfiles%\NPrintingServer\Tools\Manager\” folder;
3. Run “Qlik.NPrinting.Manager.exe show-audit-password” to see the PostgreSQL audit password as plain-text written on the console.

Change-audit-password command is used like follows:

1. Open an administrative command prompt (cmd.exe, launched as a windows administrator);
2. Go to “%programfiles%\NPrintingServer\Tools\Manager\” folder;
3. Run “Qlik.NPrinting.Manager.exe change-audit-password --new-pg-password NewAwesomeAuditPassword” to update the config files reported above with the new audit password “NewAwesomeAuditPassword” (enciphered);
4. Manually update PostgreSQL server configuration with the new password accordingly;
5. Restart Qlik NPrinting services.