Setup PostgreSQL on Arch Linux

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Setup PostgreSQL

Installation

Install the `postgresql` package:

```
$ sudo pacman -Sy postgresql
```

Create a new database cluster:

```
$ sudo -u postgres -i initdb --locale $LANG -E UTF8 -D /var/lib/postgres/data
```

Start and enable `postgresql.service`:

```
$ sudo systemctl start postgresql.service
$ sudo systemctl enable postgresql.service
```

Create new user and database

Switch to the `postgres` user:

```
$ sudo -u postgres -i
```

Create user `octoprint`:

```
[postgres]$ createuser --interactive -P

Enter name of role to add: octoprint
Enter password for new role:
Enter it again:
Shall the new role be a superuser? (y/n) n
Shall the new role be allowed to create databases? (y/n) n
Shall the new role be allowed to create more new roles? (y/n) n
```

Create database `octoprint_filamentmanager`:

```
[postgres]$ createdb -O octoprint octoprint_filamentmanager
```

Configure PostgreSQL for local network

Per default PostgreSQL only accepts connections from `localhost`. To make the database server available in your network you have to modify two config files.

In the `/var/lib/postgres/data/postgresql.conf` change the `listen_addresses` to

```
listen_addresses = '*'
```

Then append the following line to `/var/lib/postgres/data/pg_hba.conf`

```
host octoprint_filamentmanager octoprint 192.168.178.0/24 md5
```

Adapt the IP address to your network, e.g. if your server has the IP `192.168.0.25` use `192.168.0.0/24` instead. This allows all clients in your network to access the database.

The final step is to restart the PostgreSQL service:

```
$ sudo systemctl restart postgresql.service
```

Configure FilamentManager

Install dependencies

In order to use PostgreSQL with the FilamentManager you need to manually install the `psycopg2` package as an additional dependency to your virtualenv. If you followed the guide from the OctoPrint wiki your virtualenv is located under `~/OctoPrint/venv`, otherwise modify the path accordingly.

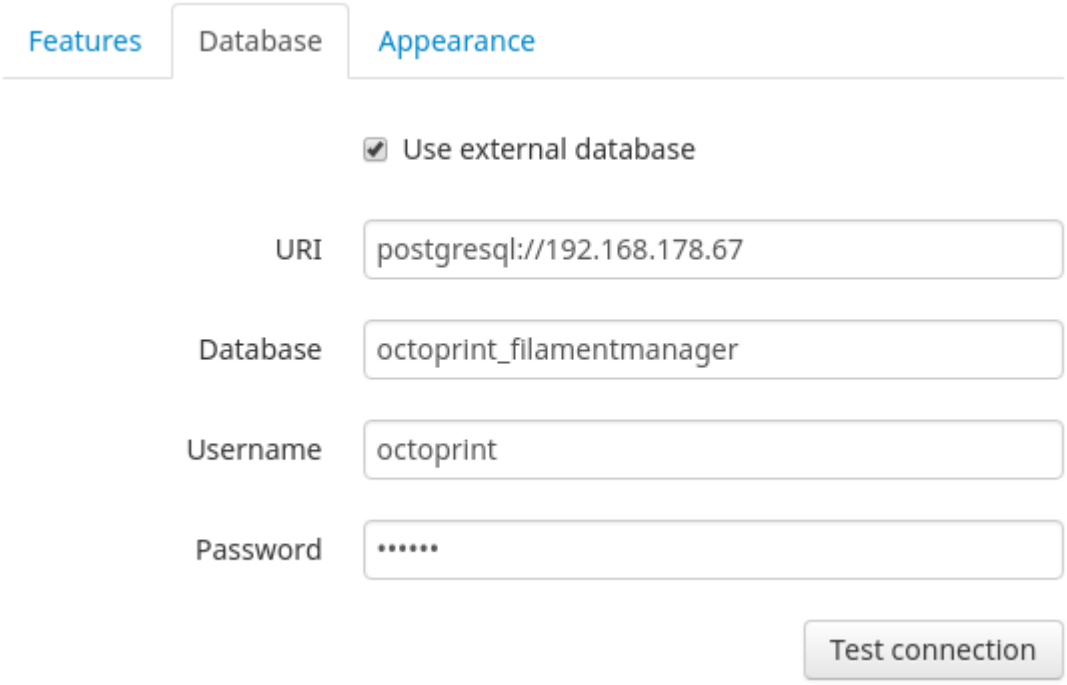
```
$ ~/OctoPrint/venv/bin/pip install psycopg2
```

If you ran into issues ensure `postgresql-libs` is installed.

```
$ sudo pacman -Sy postgresql-libs
```

Plugin settings

After restarting your OctoPrint instance you can now configure the PostgreSQL settings. You can find them in the plugin settings dialog under the `Database` tab. Enter your user credentials, database name, etc. like shown below.



Finally you can test your connection by clicking `Test connection`. If the button turns green everything is OK and ready to go. Restart OctoPrint again and you are done.