

GIS - Feature #10151

PG ADMIN installation on server

20/05/2020 18:34 - Giulio Di Anastasio

Status:	Resolved	Start date:	20/05/2020
Priority:	Normal	Due date:	
Assignee:	Philippe May	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
It would be good to have pgadmin installed on the server so that we can also connect from out-of-office			

History

#1 - 21/05/2020 16:17 - Philippe May

Make sure system (gisdb.csr.av) is updated to bullseye.

Add the apt repo:

```
root@gisdb:/etc/apt/sources.list.d# cat pgdg.list
deb http://apt.postgresql.org/pub/repos/apt/ bullseye-pgdg main
```

Install packages:

```
root@gisdb:/var/log/nginx# apt install pgadmin4 gunicorn nginx
```

Configure nginx:

```
root@gisdb:/var/log/nginx# cat /etc/nginx/sites-enabled/pgadmin
server {
    listen 9879;

    location / {
        include proxy_params;
        proxy_pass http://unix:/run/pgadmin.sock;
    }
}
```

Configure socket and service:

```
root@gisdb:/var/log/nginx# cat /etc/systemd/system/pgadmin.s*
[Unit]
Description=Gunicorn daemon (pgadmin)
Requires=pgadmin.socket
After=network.target

[Service]
Type=notify
# the specific user that our service will run as
User=www-data
Group=www-data
# another option for an even more restricted service is
# DynamicUser=yes
# see http://0pointer.net/blog/dynamic-users-with-systemd.html
RuntimeDirectory=gunicorn
WorkingDirectory=/usr/share/pgadmin4/web
ExecStart=/usr/bin/gunicorn --bind=unix:/run/pgadmin.sock --workers=1 --threads=5 pgAdmin4:app
ExecReload=/bin/kill -s HUP $MAINPID
```

```
KillMode=mixed
TimeoutStopSec=5
PrivateTmp=true

[Install]
WantedBy=multi-user.target

[Unit]
Description=gunicorn socket (pgadmin)

[Socket]
ListenStream=/run/pgadmin.sock
# Our service won't need permissions for the socket, since it
# inherits the file descriptor by socket activation
# only the nginx daemon will need access to the socket
User=www-data
# Optionally restrict the socket permissions even more.
# Mode=600

[Install]
WantedBy=sockets.target
```

Setup pgadmin4:

```
python3 /usr/share/pgadmin4/web/setup.py
```

Setup nginx on the main frontend (infra.csr.av), in /etc/nginx/sites-enabled/gisaf:

```
## PgAdmin
location /browser {
    proxy_set_header Host $host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header X-Forwarded-Proto https;
    proxy_redirect off;
    proxy_pass http://gisdb.csr.av:9879/browser;
    proxy_http_version 1.1;
}
```

Restart nginx.

The network is bad today (Aurinoco) - so i'll to finish this up later.
Leaving as

#2 - 21/05/2020 16:34 - Philippe May

Ref: https://www.pgadmin.org/docs/pgadmin4/latest/container_deployment.html#reverse-proxying

#3 - 23/05/2020 11:49 - Philippe May

- Project changed from Gisaf to GIS

Fix setup nginx on the main frontend (infra.csr.av), in /etc/nginx/sites-enabled/gisaf:

```
## PgAdmin
location /pgadmin/ {
    proxy_set_header Host $host;
    proxy_set_header X-Script-Name /pgadmin/;
    proxy_set_header X-Scheme $scheme;
    proxy_redirect off;
    proxy_pass http://gisdb.csr.av:9879/;
}
```

#4 - 23/05/2020 11:59 - Philippe May

The set up was working, except an annoying small bug: after providing user and password, the browser was redirected to "/" (Gisaf home page), instead of "/pgadmin/browser".

I applied a tweak in the code of PgAdmin, that needs to be re-applied when the Debian package "pgadmin4-common" is updated:

```
root@gisdb:/usr/share/pgadmin4/web# diff pgadmin/authenticate/__init__.py*
63,64c63
<     ## @Phil: redirect to /pgadmin/browser
<     return flask.redirect(get_post_logout_redirect())
---
>     return flask.redirect('/')
```

#5 - 23/05/2020 12:04 - Philippe May

- Status changed from New to Resolved

Closing this ticket: pgAdmin is up and running, available at: <https://gis.auroville.org.in/pgadmin/> .

I created users giulio and selvarani (i'll give the passwords orally). We might need to fine tune the usage for this multi-user/server mode of PgAdmin.