GIS - Support #10291

Vacuum DB at reboot

08/06/2020 12:09 - Philippe May

Status:	In Progress	**Start date:**	08/06/2020
Priority:	Normal	**Due date:**	
Assignee:	Philippe May	**% Done:**	0%
Category:		**Estimated time:**	0.00 hour
Target version:		**Spent time:**	0.00 hour

Description

There are several reboots of the server due to power cuts.

Gisaf requires that the Postgres database is vacuumed.

There's an autovacuum process running (default), unfortunately it seems that it doesn't detect broken databases and doesn't run at start.

History

#1 - 08/06/2020 12:11 - Philippe May

Trying to install a service:

```
root@gisdb:~# cat /etc/systemd/system/gisdb_vacuum.service
[Unit]
Description=Vacuum gisaf DB
After=postgresql@12-main.service

[Install]
WantedBy=postgresql@12-main.service

[Service]
ExecStart=/usr/bin/vacuumdb avgis
User=postgres
Group=postgres
```

```
root@gisdb:~# systemctl enable gisdb_vacuum.service
Created symlink /etc/systemd/system/postgresql@12-main.service.wants/gisdb_vacuum.service → /etc/systemd/syste
m/gisdb_vacuum.service.
```

Will check after the next crash (shouldn't last long) if it's effective.

#2 - 29/10/2021 11:32 - Philippe May

- Status changed from New to In Progress

After today's boot (after power failure), observed the message for the failed gisdb_vacuum.service:

```
could not connect to database avgis: FATAL:  the database system is starting up
```

So, i still cannot make After=postgresql@12-main.service work as i expected.

Let's try something else: retry the vacuum service, found
https://stackoverflow.com/questions/39284563/how-to-set-up-a-systemd-service-to-retry-5-times-on-a-cycle-of-30-seconds .

Setting retry 5 times, with a 30s interval:

```
root@gisdb:~# cat /etc/systemd/system/gisdb_vacuum.service
[Unit]
Description=Vacuum gisaf DB
After=postgresql@12-main.service
StartLimitInterval=200
StartLimitBurst=5

[Install]
WantedBy=postgresql@12-main.service

[Service]
ExecStart=/usr/bin/vacuumdb avgis
User=postgres
Group=postgres
Restart=always
RestartSec=30
```

#3 - 29/10/2021 11:44 - Philippe May

Tried restarting the service: was restarted after success. Try with Restart=on-failure instead, seems to fix this new problem:

```
root@gisdb:~# cat /etc/systemd/system/gisdb_vacuum.service
[Unit]
```

```
Description=Vacuum gisaf DB
After=postgresql@12-main.service
StartLimitInterval=200
StartLimitBurst=5

[Install]
WantedBy=postgresql@12-main.service

[Service]
ExecStart=/usr/bin/vacuumdb avgis
User=postgres
Group=postgres
Restart=on-failure
RestartSec=30
```

Description=Vacuum gisaf DB
After=postgresql@12-main.service
StartLimitInterval=200
StartLimitBurst=5

[Install]
WantedBy=postgresql@12-main.service