

GNU/Linux Administration - Support #671

Install Galaxy Project on Debian

10/08/2015 06:28 PM - Daniel Curtis

Status:	Suspended	Start date:	10/08/2015
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	30%
Category:		Estimated time:	3.00 hours
Target version:	Debian	Spent time:	2.00 hours

Description

This is a guide on installing the Galaxy Project along with Nginx and PostgreSQL on Debian 8.

Prepare the Environment

- Make sure the system is up to date:

```
apt-get update && apt-get upgrade
```

- Add the Galaxy user

```
adduser galaxy
```

- Install a few dependencies:

```
apt-get install git gcc autoconf automake libtool bison sqlite3 cmake
```

Install Galaxy Project

- Switch to the galaxy user:

```
su - galaxy
```

- Download the latest source code:

```
git clone -b master https://github.com/galaxyproject/galaxy/  
cd galaxy
```

- Create a config file from the sample config:

```
vi /home/galaxy/galaxy/config/galaxy.ini.sample /home/galaxy/galaxy/config/galaxy.ini
```

- And modify the following:

```
host = 0.0.0.0  
database_connection = postgresql://galaxyuser:SuperSecretPassword@localhost/galaxydb
```

- Setup and run test run galaxy:

```
sh run.sh
```

Install PostgreSQL

- Install postgresql

```
apt-get install postgresql postgresql-client libpqxx-dev
```

- Edit `pg_hba.conf` to enable database access via the local socket:

```
nano /etc/postgresql/9.4/main/pg_hba.conf
```

- Replace peer with **trust**

```
local all all trust
```

- Edit the main postgresql config:

```
nano /etc/postgresql/9.4/main/postgresql.conf
```

- And change the `listen_addresses` parameter:

```
listen_addresses = '*'
```

- Then append a rule to enable network access from a given subnet:

```
echo "host all all 192.168.0.0/24 trust" >> /etc/postgresql/9.4/main/pg_hba.conf
```

- And restart postgresql:

```
service postgresql restart
```

Create a database and user

- Connect to the default database:

```
su - postgres  
psql
```

- Set a password for the postgres user:

```
\password postgres
```

- Create the **galaxyuser** user, the postgres admin console will show `postgres=#`:

```
CREATE USER galaxyuser WITH PASSWORD 'SuperSecretPassword';
```

- And a create the **galaxydb** database:

```
CREATE DATABASE galaxydb OWNER galaxyuser;
```

- Quit from the database

```
\q
```

- Exit from the postgres user

```
exit
```

- Connect as somepguser to the new database:

```
su - galaxy  
psql -d galaxydb -U galaxyuser  
\q
```

Resources

- <https://wiki.galaxyproject.org/Admin/GetGalaxy>
- <https://wiki.galaxyproject.org/Admin/Config/Performance/ProductionServer>

History

#1 - 10/08/2015 06:29 PM - Daniel Curtis

- Status changed from New to In Progress

- % Done changed from 0 to 30

#2 - 03/15/2016 01:10 PM - Daniel Curtis

- Status changed from In Progress to Suspended