

FreeBSD Administration - Feature #676

Common PostgreSQL Commands on FreeBSD

10/17/2015 01:01 PM - Daniel Curtis

Status:	Closed	Start date:	10/18/2015
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Database Server	Estimated time:	0.50 hour
Target version:	FreeBSD 9	Spent time:	1.00 hour

Description

- Login to postgresql locally:

```
su - postgres
psql -d template1
```

- Or connect remotely:

```
psql -h pg.example.com -d somedb -U someuser -W
```

Database Commands

- Determine system tables:

```
select * from pg_tables where tableowner = 'postgres';
```

- List databases:

```
\l
```

- Describe a table:

```
\d sometable
```

- Quit psql shell:

```
\q
```

- Switch postgres database:

```
\connect someotherdb
```

- Show all tables:

```
\dt
```

- List all Schemas:

```
\dn
```

- Show database version:

```
SELECT version();
```

- Create a database with an owner:

```
CREATE DATABASE somedb OWNER someuser;
```

- Change database owner:

```
alter database somedb owner to someuser;
```

- Copy a database:

```
CREATE DATABASE newdb WITH TEMPLATE somedb;
```

- View database connections:

```
SELECT * FROM pg_stat_activity;
```

- View show data directory:

```
show data_directory;
```

- Show run-time parameters:

```
show all;  
select * from pg_settings;
```

Backup/Restore Commands

- Backup database into file:

```
pg_dump -W -U someuser -h pg.example.com somedb > somedb_dump.sql
```

- Load data into postgresql:

```
psql -W -U someuser -h pg.example.com -d somedb < somedb_dump.sql
```

- Restore postgresql dump file:

```
pg_restore --verbose --clean --no-acl --no-owner -h localhost -U myuser -d mydb latest.dump
```

- To backup all databases to a file:

```
pg_dumpall > full-pg.sql
```

- And restore the dumped file to another postgresql server:

```
psql -f full-pg.sql
```

User Commands

- List all users:

```
\du
```

- Create new user from the postgresql shell:

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

- Or from the command line

```
sudo -u postgres createuser someuser -W
```

- Change user password:

```
ALTER USER someuser WITH PASSWORD 'NewSecretPassword';
```

- Grant user createdb privilege:

```
ALTER USER someuser WITH createdb;
```

- Create a superuser user from the postgresql shell:

```
create user somesuperuser with password 'SuperSecretPassword' SUPERUSER
```

- or with more privileges:

```
create user somesuperuser with password 'SuperSecretPassword' SUPERUSER CREATEDB CREATEROLE INHERIT LOGIN REPLICATION;
```

- or from the command line

```
sudo -u postgres createuser somesuperuser -W -s
```

- Upgrade an existing user to superuser:

```
alter user somesuperuser with superuser;
```

- or with more privileges

```
alter user somesuperuser with SUPERUSER CREATEDB CREATEROLE INHERIT LOGIN REPLICATION
```

- Grant readonly privileges to all tables for someuser

```
grant select on all tables in schema public to someuser;
```

- Grant all privileges on table1, table2, and table3 to myuser

```
grant all privileges on table1, table2, table3 to myuser;
```

Resources

- <http://jazstudios.blogspot.com/2010/06/postgresql-login-commands.html>

History

#1 - 10/17/2015 01:03 PM - Daniel Curtis

- Status changed from *New* to *In Progress*

- Start date changed from 10/17/2015 to 10/18/2015

- % Done changed from 0 to 50

#2 - 10/17/2015 07:58 PM - Daniel Curtis

- Description updated

#3 - 10/17/2015 08:22 PM - Daniel Curtis

- Description updated

#4 - 10/18/2015 08:43 PM - Daniel Curtis

- Status changed from *In Progress* to *Resolved*

- % Done changed from 50 to 100

#5 - 11/18/2015 10:45 AM - Daniel Curtis

- Description updated

#6 - 11/27/2015 03:54 PM - Daniel Curtis

- Status changed from *Resolved* to *Closed*