Postgres Commands

Access Postgres as SuperUser

Use this terminal command to access the local PostgreSQL instance as the postgres user:

```
sudo -u postgres psql
```

Setting Postgres (Superuser) Password

Normally, the postgres user (superuser) does NOT have a set password.
This is because the postgres user normally, is accessing locally, and through sudo.

But if you are wanting the superuser to have a password, you can set it, with this:

```
sudo -u postgres psql
ALTER ROLE postgres WITH PASSWORD 'Your$trongPassword';
\q
```

Now, the postgres user can log in, remotely, if the pg_hba.conf file allows.

To List Database Privileges

```
SELECT * FROM information_schema. table_privileges
where grantee = 'icore_client';
```

Good reference on how to do admin tasks from the command line: https://medium.com/coding-blocks/creating-user-database-and-adding-access-on-postgresql-8bfcd2f4a91e

Basically, this:

```
// Open a command line session with the postgres engine:
sudo -u postgres psql
// Create a database:
create database mydb;
// Create a user:
create user myuser with encrypted password 'mypass';
// Give the user access to the created database:
```

```
grant all privileges on database mydb to myuser;
```

To give a user privilege to create databases, use this:

```
ALTER USER postgresclient CREATEDB;
```

To give a user Super User privileges:

```
ALTER USER librarian WITH SUPERUSER;
```

Restoring Database from Command Line

Taken from here: https://simplebackups.com/blog/postgresql-pgdump-and-pgrestore-guide-examples/

Here’s a quick command to restore a database from a backup file:

```
pg_restore -U postgresclient -Ft -C -d dbProjectControls < /path-to-file/backupfilename.tar
```

Login and connect to a database:

```
// Do this to open a "postgres-#" session...
sudo -u postgres psql

// List databases with...
\l

// Switch databases with...
\c databasename
```

Admin Tasks

Good list of admin tasks: https://chartio.com/resources/tutorials/how-to-list-databases-and-tables-in-postgresql-using-psql/

Another good reference to digest: https://hasura.io/blog/top-psql-commands-and-flags-you-need-to-know-postgresql/

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