Connecting to PostgreSQL on Linux for the first time

Note

This section uses the command line utility psq1 and optionally the graphical utility pgAdmin. These tools may not automatically present, depending on the type of installation of OpenGeo Suite. Please see the *Installation* section for information on how to install these tools for your platform.

On Windows and OS X, PostgreSQL is configured to be accessed immediately. No further configuration is required. The user name is postgres and password is postgres.

However, on Linux, both on Ubuntu and Red Hat-based systems, additional work needs to be undertaken. This is beca the default PostgreSQL configuration on both Ubuntu and Red Hat-based systems has connections turned off for the postgres user by default.

So after install of OpenGeo Suite, if you try to connect to PostgreSQL via the **psql**command-line utility or through pgAc you will get the following connection error:

```
psql: FATAL: peer authentication failed for user "postgres"
```

There are two steps to allow connections to PostgreSQL:

- Set a password for the postgres user
- Allow local connections to PostgreSQL

For more information, please see the Ubuntu documentation on PostgreSQL.

Setting a password for the postgres user

On Windows and OS X, the default password is postgres. But on Linux systems, there is no default password set.

To set the default password:

1. Run the **psql** command from the **postgres** user account:

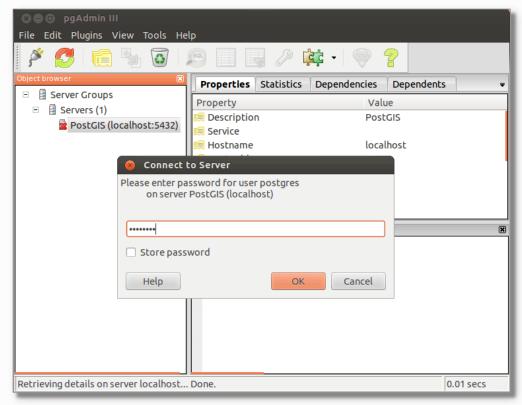
```
sudo -u postgres psql postgres
```

2 Sat the neceword.

	\password postgres 3. Enter a password.				
3.					
4.	Close psql .				
	\q				
A	llowing loca	ıl connectior	าร		
The	e file pg_hba.conf go	overns the basic constr	aints underlying connection	ı to PostgreSQL. By default,	these settings
ver	y conservative. Specifi	cally, local connections	are not allowed for the po	stgres user.	
To a	allow this:				
1.	As a super user, open	/etc/postgresql/9	.3/main/pg_hba.conf (U	buntu)	
			f (Red Hat) in a text edito	·	
2.	Scroll down to the line that describes local socket connections. It may look like this:				
	local all	all		peer	
3.	Change the peer me	ethod to md5.			
	Note				
	For more information	n on the various options	s, please see the PostgreS	QL documentation on pg_hl	oa.conf.
4.	To allow connections (using pgAdmin, find the	line that describes local lo	opback connections over IP	v6:
	host all	all	::1/128	ident	
5.	Change the ident n	method to md5.			
6.	Save and close the file	e.			
7.	Restart PostgreSQL:				
	sudo service postgresql restart				
8.	To test your connectio	on using psql , run the fo	ollowing command:		

and enter your password when prompted. You should be able to access the psql console.

9. To test your connection using **pgAdmin**, connect to the database at localhost:5432 using the user name postgres and the password supplied.



Testing the connection in pgAdmin

If you encounter errors, make sure that the postgres password is set correctly, and that the correct line was edited in pg_hba.conf, as many look alike.

Allowing remote connections

Often the system running psq1 will be different from the system running the database. This is especially true if you w to run **pgAdmin** from your system.

In order to allow connections from remote systems, some slightly different configuration will be necessary.

The details are similar to that of allowing local connections, with some slight differences.

- As a super user, open /etc/postgresq1/9.3/main/pg_hba.conf (Ubuntu) or /var/lib/pgsq1/9.3/data/pg_hba.conf (Red Hat) in a text editor.
- 2. Scroll down to the line that describes local socket connections. It may look like this:

local all peer

host all 0.0.0.0/0 trust

Warning

This is a potential security risk, and you may wish to customize this further. For more information on the various options, please see the PostgreSQL documentation on pg_hba.conf.

- 4. Save and close the file.
- 5. In the same directory, open postgresql.conf.
- 6. Under the section on **Connection Settings**, add or replace the line that starts with <code>listen_addresses</code> to respo to all requests:

listen_addresses = '*'

Note

Make sure the line is uncommented.

- 7. Save and close the file.
- 8. Restart PostgreSQL:

sudo service postgresql restart

9. To test your connection using **pgAdmin**, connect to the database at the IP address or host name of the system tha hosts the database. Enter the user name postgres and the password supplied.

Note

Make sure that port 5432 is open on this system.