Migration 32bit to 64bit Appliance

Process A: Normal Steps

Process B: Steps that can be done in parallel while process A waits for database dump

Preparation: Both appliances need to be upgraded to the same GreenLight version. Upgrading to the latest version is highly recommended, but <u>identical versions on both sytems are mandatory</u>. After upgrading, it is important to log in on appliances and wait a few minutes for potential maintenance configuration updates to take place.

Download Links: (latest version)

for 32bit

http://update.panagenda.com/gl2pkg/greenlight-2.deb

for 64bit

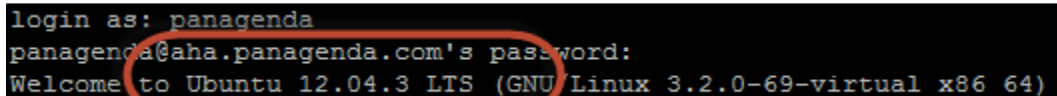http://update.panagenda.com/gl2pkg_amd64/greenlight-2.deb

Identifying your Environment (32 bit / 64 bit)

When you are running the 32 bit appliance box the welcome screen will appear in text mode. If you are running a 64 bit appliance you see a graphical login (left picture).

Identifying via Putty:

Check the Ubuntu Version Level.

If you see v12.x then you are on 64 bit.


```
login as: panagenda
panagenda@aha.panagenda.com's password:
Welcome to Ubuntu 12.04.3 LTS (GNU/Linux 3.2.0-69-virtual x86_64)
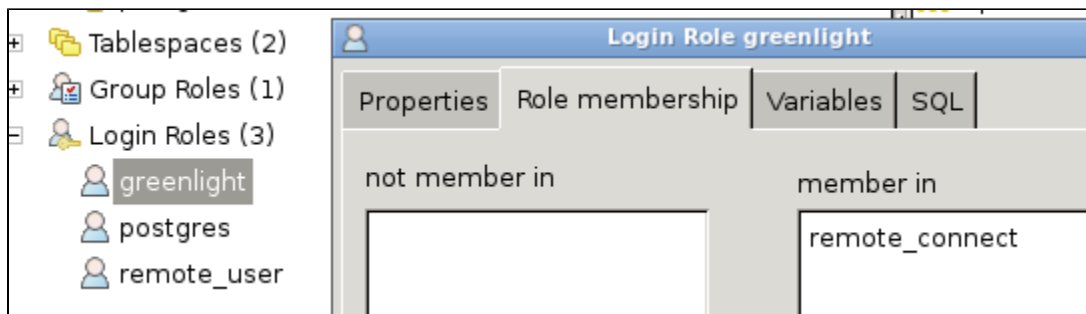```

If you see v8.x then it is an 32 bit appliance

# Migration Procedure

**A01 - 32bit: stop tomcat**

open terminal window:     **sudo /etc/init.d/tomcat stop**

**A02 - 32bit: PgAdmin - add role remote_connect to user greenlight**

on desktop:  right click – tools – database admin

**A03 - 64bit: sudo su - postgres**

**A04 - 64bit: pg_dump --host <ip of the 32bit appliance> --username greenlight -Fp --schema-only greenlight > gl32bit_schema.dump**

    Note: The dump will be stored in /var/lib/postgresql on the 64 bit appliance

    If you get a "connection refused" message then you need to adjust the "listenAddress line" withtin the postgresql.conf files so that it listens to 0.0.0.0 (not 127.0.0.1)

**A05 - 64bit: pg_dump --host <ip of the 32bit appliance> --username greenlight -Fc --data-only greenlight > gl32bit_data.dump**

    Note: The dump will be stored in /var/lib/postgresql on the 64 bit appliance

**B01 - 64bit: remove the following references from gl32bit_schema.dump with text editor (e.g. vim or leafpad)**

- sudo vim gl32bit_schema.dump
- delete the lines from....

        -- Name: furigana(text); Type: FUNCTION; Schema: public; Owner: postgres

    Up to(including)

        ALTER FUNCTION public.ts_ja_start(internal, integer) OWNER TO postgres;

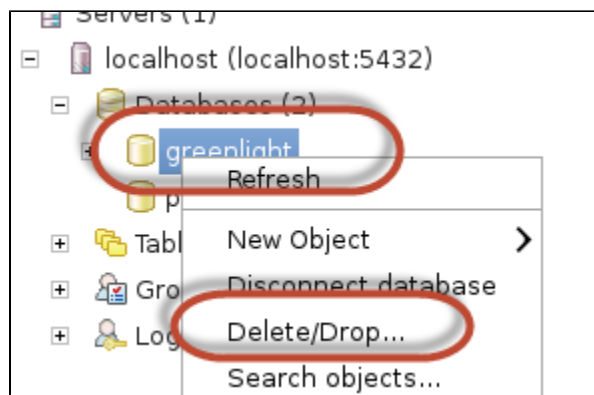--> so "web_query" is the first line

**B02 - 64bit: stop tomcat**

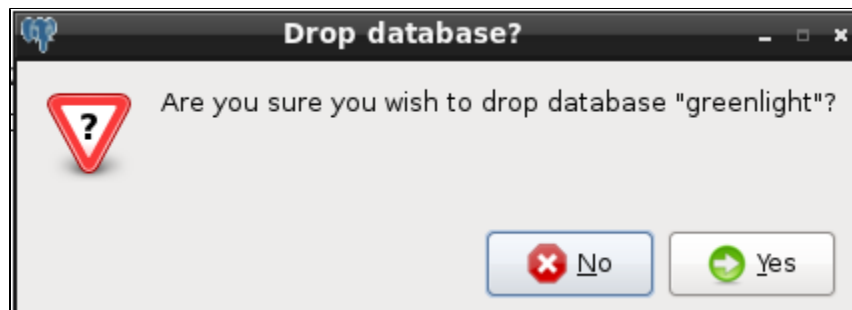    open terminal window:   sudo service tomcat stop



**B03 - 64bit: PgAdmin - drop DB greenlight**

    open PgAdmin

    drop greenlight DB

click on yes

**B04 - 64bit: PgAdmin - recreate DB greenlight (owner greenlight)**

| Properties | Definition | Variables |
|---|---|---|
| Name | greenlight | |
| OID | | |
| Owner | greenlight | |
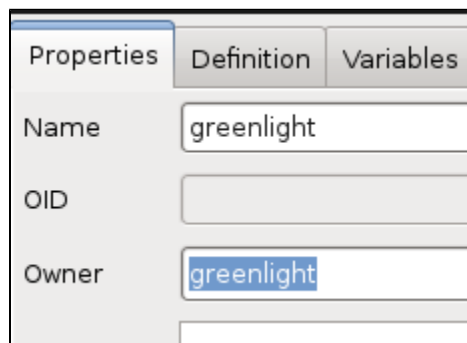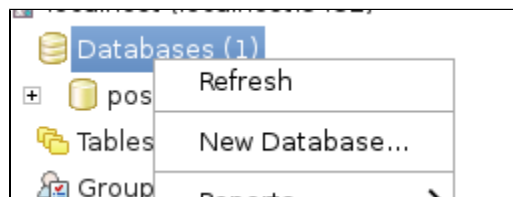
**B05 - 64bit: Import 32bit Schema Dump** (if fails, back to B03)

psql greenlight -f gl32bit_schema.dump

```
postgres@greenlight:~$ psql greenlight -f gl32bit_schema.dump
```

B06 - 32bit: copy notes related files

- cd /lotus/notes/data
- scp names.nsf panagenda@<ip address of the 64bit box>:.
  please make sure that you have the **colon** and the **point** at the end of the command!

    enter: yes

    enter the password: panagenda

```
admin@GreenLight2:~/lotus/notes/data$ scp names.nsf panagenda@192.168.240.142:.
The authenticity of host '192.168.240.142 (192.168.240.142)' can't be establishe
d.
RSA key fingerprint is 10:eb:78:46:4d:25:07:dc:4e:62:a3:cd:97:69:7e:81.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.240.142' (RSA) to the list of known hosts.
panagenda@192.168.240.142's password:
names.nsf                                     100% 5888KB   5.8MB/s   00:00
admin@GreenLight2:~/lotus/notes/data$
```

- scp user.id panagenda@<ip address of the 64bit box>:.

```
names.nsf                                     100% 5888KB   5.8MB/s   00:00
admin@GreenLight2:~/lotus/notes/data$ scp user.id panagenda@192.168.240.142:.
panagenda@192.168.240.142's password:
user.id                                       100% 8108    7.9KB/s   00:00
admin@GreenLight2:~/lotus/notes/data$
```

B07 - 64bit: copy names.nsf to its final destination

cp names.nsf /lotus/notes/data

Note: user.id will not be copied (it will be uploaded via the GL frontend!)

B08 - 64bit: remove old Log files

sudo rm /opt/tomcat/logs/*

```
panagenda@greenlight:~$ sudo rm /opt/tomcat/logs/*
panagenda@greenlight:~$
```

B09 - 64bit: optimize postgresql and tomcat

make sure postgresql.conf and /etc/defaults/tomcat are optimized to RAM --> link to tuning page

A06 - 64bit: restore data

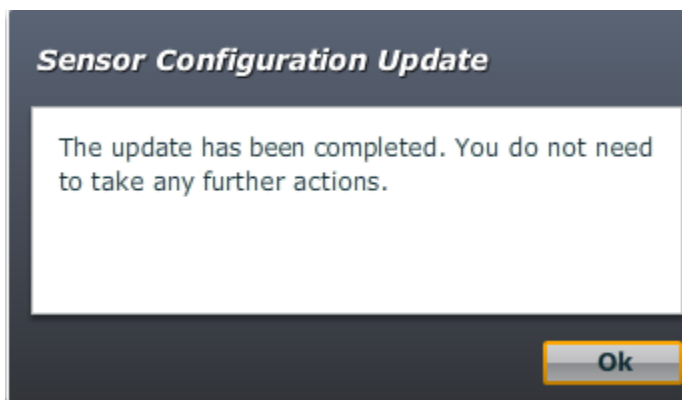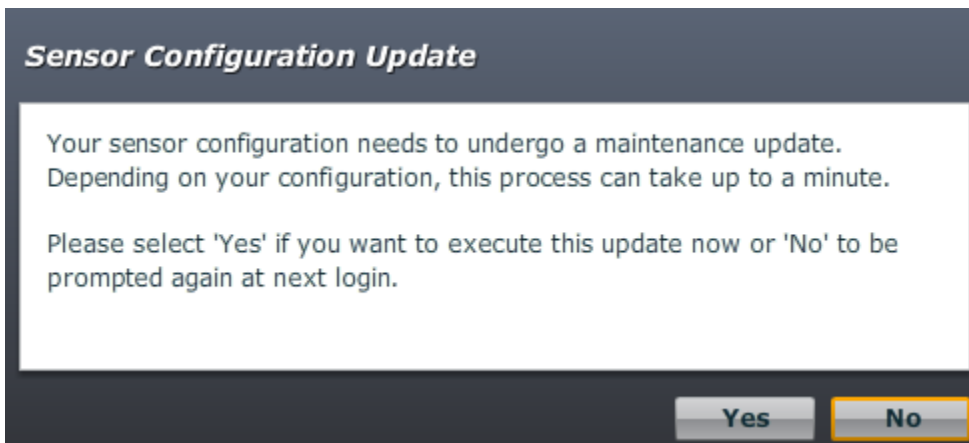pg_restore -d greenlight gl32bit_data.dump

```
postgres@greenlight:~$ pg_restore -d greenlight gl32bit_data.dump
postgres@greenlight:~$
```

A07 - 64bit: start tomcat

open terminal window: sudo service tomcat start

A08 - 64bit: login to GreenLight Webinterface

- upload license
- upload id file
- the following pop up messages will appear - please click on YES

Sensor Configuration Update

Your sensor configuration needs to undergo a maintenance update. Depending on your configuration, this process can take up to a minute.

Please select 'Yes' if you want to execute this update now or 'No' to be prompted again at next login.

[Yes] [No]

Sensor Configuration Update

The update has been completed. You do not need to take any further actions.

[Ok]

A09 - 64bit: reboot appliance