Hedgehog Upgrade Guide: 2.0.0 to 2.1.0rc1 (install from packages)

This document describes how to upgrade a server from release 2.0.0 to release 2.1.0.rc1 of Hedgehog where 2.1 is installed from Ubuntu packages

> 2.0.0rc2 and 2.0.0 do not differ and therefore this guide can also be used to upgrade from 2.0.0rc2 to 2.1.0rc1

Back up the old installation

If desired, back up the existing installation (the directory structure in the User Guide is a useful reference) and database.

1. Pre-installation

1.1 Install new dependancies

```
sudo R
install.packages("plyr")
q()
```

1.2 Cron jobs

Stop refile and grok cron job running:

```
sudo -u hedgegho crontab -e
# Import XML data every 15 mins
00,15,30,45 * * * * <prefix>/bin/refile_and_grok.sh -c >>
/var/log/hedgehog/refile_and_grok_xml_to_db.sh.log 2>&1
```

Comment out any other jobs that are about to run. If the dsc-extractor process is running wait for it to finish before continuing.

1.3 Disable web front end

It is recommended to disable the web front end during upgrade e.g by enabling a holding page.

2. Installation

2.1 Install packages

- Refer to section 2.1 of the 'Hedgehog Installation from Ubuntu Packages Guide' to install the required packages.

2.2 Update the database

2.2.1 Update config

Run as super user of hedgehog database (e.g. postgres)

```
sudo -u <super-user> psql hedgehog -c "CREATE EXTENSION ip4r SCHEMA
dsc;"
sudo -u <super-user> psql hedgehog -c "CREATE EXTENSION plpythonu SCHEMA
pg_catalog;"
```

Update the database configuration fire `/etc/postgresql/9.3/main/postgresql.conf` by commenting and setting:

```
extra_float_digits = 1
```

Restart postgres

```
sudo service postgresql restart
```

2.2.2 Run DDL files and new database scripts

Run this either as super user of hedgehog database (e.g. postgres) if using peer authentication, or otherwise by additionally specifying a password on the command line

```
sudo -u <super-user> /usr/lib/hedgehog/DDL_updates/000010_ddl_python -U
<super-user>
```

Run the following 5 commands as the DB write user (e.g. hedgehog). The geoip update can take a while:

```
sudo -u <DB_OWNER> /usr/lib/hedgehog/DDL_updates/000011_ddl_new_graphs
sudo -u <DB_OWNER>
/usr/lib/hedgehog/DDL_updates/000012_ddl_lower_key_index
sudo -u <DB_OWNER> /usr/bin/hedgehogctl database_update_geoip
sudo -u <DB_OWNER> /usr/bin/hedgehogctl database_update_tlds
sudo -u <DB_OWNER> /usr/bin/hedgehogctl database_update_tlds_from_zone
2>/dev/null
```

Run the manage partitions script for the current month:

```
sudo -u <DB_OWNER> /usr/bin/hedgehogctl database_manage_partitions -m
<YYYY-MM>
```

2.3 Cater for different directory structure

Installing from a package places some files in a different directory structure compared to installing from code.

- **Data** - if it is desired to retain existing data (XML files, cached plots and RSSAC reports) then the existing *<prefix>/var/hedgehog* dir ectory should be copied or linked (e.g. symbolically or via re-mounting) to the new location shown below
    - If this is not required then simply run the */usr/bin/hedgehogctl database_update_nodes* script again to create the directory structure for upload of XML data in the new location AFTER completing all of step 2

- **Configuration** - the format of some configuration files has changed in 2.1. It is recommended to manually update the files in */etc/he dgehog* based on the previously used configuration files and the 2.1 samples available in */usr/share/doc/hedgehog/example*s. Note:
    - *hedgehog_gui.yam*l (*default_node_grouping* and *support_url* parameters added in 2.1)
    - *nodes.csv* (format extended)

> The format of the nodes.csv file has been and extended in 2.1 to support several additional fields to for additional grouping options for nodes and also IP addresses to be used when collecting zone related RSSAC statistics.

- **Tools and scripts -** those installed in 2.0 under <*prefix*> in *bin* and *libexec/hedgehog* are installed in 2.1 by the packages under */usr /* as shown below. Update any cron jobs or scripts accordingly.

2.0 location	2.1 location	Contents
<prefix>/etc/hedgehog/	/etc/hedgehog/	Hedgehog configuration files (yaml and nodes)
<prefix>/etc/hedgehog/*.sample	/usr/share/doc/hedgehog/examples/*.sample	Sample Hedgehog configuration files
<prefix>/var/hedgehog/	/var/lib/hedgehog/	'data' directory containing XML data 'www' directory containing cached plots and rssac reports
<prefix>/bin/hedgehogctl	/usr/bin/hedgehogctl	Wrapper script for Hedgehog tools
<prefix>/bin/refile_and_grok	/usr/bin/refile_and_grok	refile_and_grok script
<prefix>/libexec/hedgehog/	/usr/lib/hedgehog/	Hedgehog tools scripts and DDL updates

3. Post-install

3.1 Test web front end

Re-enable and test the web front end. Make sure to restart apache.

```
sudo service apache2 reload
```

3.2 Re-enable cron jobs

Note that 2 new optional cron jobs are suggested for 2.1 for updating the TLD and geoIP databases. Refer to the Installation Guide for a full list of suggested cron jobs.

> Remember to use the new script names and syntax when re-enabling the cron jobs

Restart refile and grok cron job running:

```
sudo -u hedgehog crontab -e
# Import XML data every 15 mins
00,15,30,45 * * * * /usr/bin/hedgehog/bin/refile_and_grok -c >>
/var/log/hedgehog/refile_and_grok_xml_to_db.log 2>&1
```

Re-enable any other jobs that were disabled for the upgrade.

3.3 Configure rssacd

Refer to section 4.3 of the Installation from Packages Guide for how to configure the *rssacd* demon to collect RSSAC zone-size and load-time statistics.