Steps for setting up Alpine Miner in Greenplum database server

Follow the steps below to set up Alpine Miner in Greenplum database server. It is assumed that Greenplum/Postgres database is already installed.

1. Copy the setup/Greenplum folder with its content onto the Greenplum database master host. (e.g. /home/gpadmin/alpine_miner/setup). The Greenplum database administrator must possess the ownership of the `setup` directory and all the content in it. Issue the `chown` command as root user to reassign the ownership if necessary. For example:

   ```
   chown -R gpadmin /home/gpadmin/alpine_miner/setup
   ```

2. Login to the system as Greenplum database administrator (e.g. gpadmin) on the Greenplum database master host.

   ```
   $ su gpadmin
   ```

3. Change to the `setup/sharedLib` directory

   ```
   $ cd /home/gpadmin/alpine_miner/setup/sharedLib
   ```

   If you are running Greenplum Version 4.1, please refer to the directory sharedLib/4.1 instead of sharedLib.

4. Depending on the operating system of the Greenplum database, find appropriate `alpine_miner.xxxxx.so` file (under the directory sharedLib or sharedLib/4.1) and rename it to `alpine_miner.so`. Copy the renamed files to the `$GPHOME/lib/postgresql/` directories on every Greenplum host machines. (Master and all the segment hosts)

   ```
   [gpadmin@gpmaster setup]$ cp /home/gpadmin/alpine_miner/setup/sharedLib/alpine_m
   iner.centos_32bit.so /home/gpadmin/alpine_miner/setup/sharedLib/alpine_miner.so

   [gpadmin@gpmaster setup]$ cp /home/gpadmin/alpine_miner/setup/sharedLib/alpine_m
   iner.so $GPHOME/lib/postgresql/
   ```

   If you are running Greenplum Version 4.1, please refer to the directory sharedLib/4.1 instead of sharedLib.

5. Change the file access permission of alpine_miner.so
   chmod 755 alpine_miner.so

6. Change to the setup directory on the master host and issue the following command.

```
psql -d template1 -c "CREATE PROCEDURAL LANGUAGE plpgsql;"
psql -d template1 -f alpine_miner_setup.sql
```

Steps for setting up the demo database

Follow the steps below to set up the Alpine Miner demo database. The Alpine Miner demo database is required to run the samples. It is assumed that Greenplum/Postgres database is already installed.

1. Execute the following command.
   (Assume the Greenplum administrator account as 'gpadmin')

   ```
   psql -d template1 -U gpadmin -f create_demo_db.sql
   ```

   The command will run the create_demo_db.sql script and will create a role 'miner_demo' and the demo database 'miner_demo' and assign all database object to the role 'miner_demo'

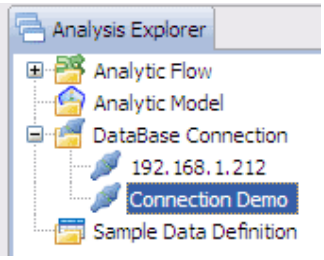
2. Modify the pg_hba.conf file. Add the following lines to the end.

   ```
   local    miner_demo  miner_demo     trust
   host     miner_demo  miner_demo     192.168.1.0/24 password
   ```

3. Issue the following command to re-load the Greenplum parameters to activate the changes made.

   ```
   gpstop -u
   ```

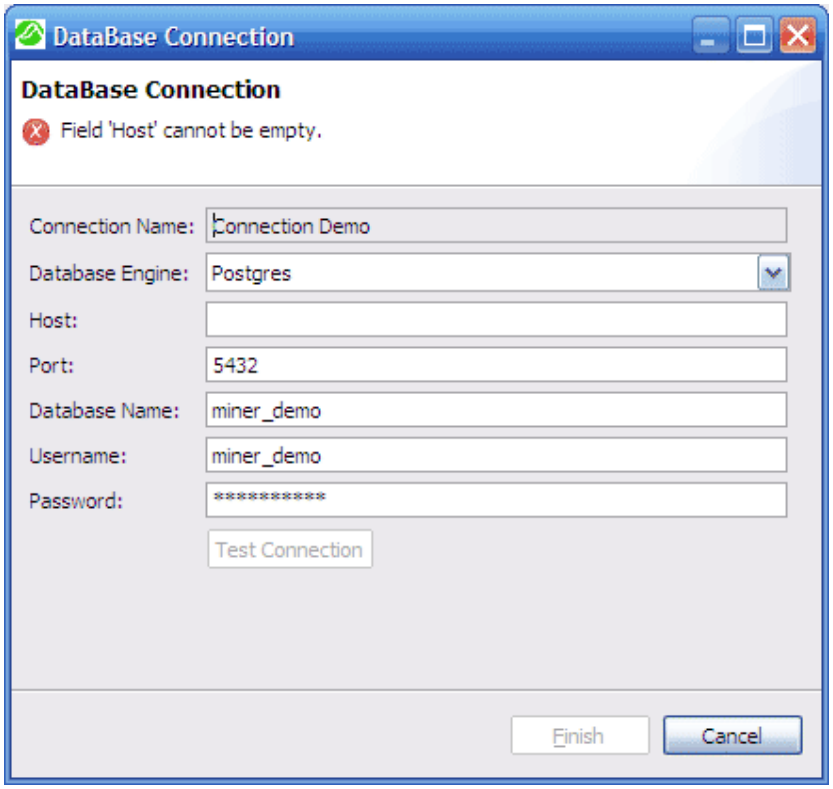
4. Open the Alpine Miner, open the 'Database Connection' from the Analytic Explorer and double-click the connection 'Connection Demo' to open the 'Database Connection' dialog.



5. Fill in the correct parameters for the connection. Most of the parameters have already been filled for the user.

   - **Connection Name**: Connection Demo

- **Database Engine**: Postgres
- **Host**: <IP to the Greenplum Master>
- **Port**: <Port no. used in the Grenplumn DB, default: 5432>
- **Database Name**: miner_demo
- **User Name**: miner_demo
- **Password**: miner_demo



6. Click on the 'Test Connection' button to test the connection.
7. Click the 'Finish' button if connection can be established.