DIAS-GDELT Installation + Launch

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Step 1. Setup DIAS Logging System

The output of the DIAS-GDELT system is stored in a PostgreSQL database, that must be setup in order for DIAS-GDELT to function correctly.

Installation of the database, that contains the output of the logging, is simple. The *DIAS-Logging-System* requries a running PostgreSQL database, that we will install in the first step just below.

1.1 Download the DIAS Logging System

```
git clone https://github.com/epournaras/DIAS-Logging-System
```

1.2 Install postgres database

- Note that this will also start the database service

```
# on an Ubuntu system (Ubuntu 14 or higher)
sudo apt-get update
sudo apt-get install postgresql
```

1.3 Create a database

- Login into PostgreSQL, using your favorite SQL editor or *psql*
- Choose any name, in this case we choose the name *dias*
    - If you change the database name, you will also need to update the file conf/daemon.conf accordingly

```
CREATE DATABASE dias;
```

1.4 Finally, create the tables that will store the logging information

- The source SQL can be found here:
    - DIAS-Logging-System/sql/definitions
        - eventlog.sql
        - memlog.sql
        - rawlog.sql
        - pss.sql
    - DIAS-Development/sql/definitions

- aggregation.sql
- aggregation_plot.sql
- aggregation_event.sql
- aggregation_event_rrd.sql
- DIAS-visualization-db.sql
- msgs.sql
- sessions.sql

Step 2. Setup DIAS

Here are the steps to install a generic version of DIAS.

```
git clone https://github.com/epournaras/DIAS-Development.git

git checkout pilot.2017.f
```

Step 3. Setup DIAS-GDELT

We will now install the specific GDELT use case.

```
git clone https://github.com/epournaras/DIAS-GDELT
```

Step 4. Launch DIAS-GDELT

4.1 Launch the *DIAS-Logging-System*, by launching the *persistence daemon (*that listens for messages to be logged and writes them to the database).

```
cd DIAS-Logging-System
./start.daemon.sh deployments/gdelt
```

4.2 Launch Protopeer Bootstrap server and DIAS Gateway server

```
cd DIAS-Development
./start.servers.sh deployments/gdelt
```

4.3 Launch 28 DIAS Peers, one per country; no need for carrier nodes

```
cd DIAS-Development
./start.aggregation.peers.sh deployments/gdelt 28 1 1
```

4.4 Start GDELT subscription

```
cd DIAS-GDELT/python/gdeltv2.count
./auto.update.sh
```

4.5 start 28 GDELT Mock devices

```
cd DIAS-GDELT
./start.mock.devices.sh deployments/gdelt 28
```