Entrada version 2.0.3 installation

This version use docker container.

**Requirement :**

* install docker
  + sudo yum install docker
  + sudo systemctl enable docker.service
  + sudo systemctl start docker.service
* install docker-compose
  + sudo curl -L "https://github.com/docker/compose/releases/download/1.24.1/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
  + sudo chmod +x /usr/local/bin/docker-compose
  + sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose
  + check if docker-compose is working (docker-compose --version)

you should get docker-compose version 1.24.1, build 1110ad01

* install postgresql database
  + try to install the postgresql in different device
  + you can use the postgresql of cloudera but make sure it is last version
  + create database call it entrada
  + enable the connection to the postgresql from the device that have entrada
  + #edit pg\_hba.conf by adding

host all all <ip\_of\_device>/32 trust

**Installation :**

1. copy the file .../entrada/docker-compose/docker-compose-postgresql-hadoop.yml to separate folder like ~/Desctop/docker-entrada/docker-compose-postgresql-hadoop.yml and change the name to docker-compose.yml .
2. Create these folders inside **docker-entrada**
   * input
   * output
   * archive
   * log
   * work
   * conf
3. copy core-site.xml and hdfs-site.xml to the conf dir , these are the configurations of cloudera
4. you need to change the configuration to be met for the system

**!!use ipes only, don’t use names like namenode.entrada.om because it will not work!!**

**Important configuration**

* ENTRADA\_NAMESERVERS=DNS1-PRI,DNS1-SEC,DNS2-PRI,DNS2-SEC
* SPRING\_DATASOURCE\_USERNAME=<user of postgresql: you can use **postgres**>
* SPRING\_DATASOURCE\_PASSWORD=<password of postgres>
* SPRING\_DATASOURCE\_URL=postgresql://<host\_or\_ip>:5432/entrada
* HDFS\_NAMESERVICE\_HOST=<ip of HDFS>
* IMPALA\_DAEMON\_HOST=<ip of impala>
* ENTRADA\_LOCATION\_OUTPUT=hdfs://<ip of HDFS>:8020/user/entrada/database

also you need to enable graphite because it is disabled by default

* MANAGEMENT\_METRICS\_EXPORT\_GRAPHITE\_ENABLED=true
* MANAGEMENT\_METRICS\_EXPORT\_GRAPHITE\_HOST=<graphite host>

for more configurations detail see <https://entrada.sidnlabs.nl/about/configuration/>

**Start Entrada:**

1. go to the directory where docker-compose.yml is located and run the following command

* sudo docker-compose up

1. solve the problems if any
2. start feeding entrada
   * create folder for each server in input directory
     + DNS1-PRI,DNS2-PRI,….
   * Send pcap files to these folders with this name format to avoid any problem

SERVER\_year-month-day\_hour:min.pcap (DNS1-PRI\_2019-5-10\_20:55.pcap )

**Graphite docker:**

* There is graphite docker image, you can install docker image instead of local graphite

sudo docker run -d\

--name graphite\

--restart=always\

-p 8080:80\

-p 2003-2004:2003-2004\

-p 2023-2024:2023-2024\

-p 8125:8125/udp\

-p 8126:8126\

-v "/opt/graphite/conf:/opt/graphite/conf"\

-v "/opt/graphite/storage:/opt/graphite/storage"\

graphiteapp/graphite-statsd

* To restart graphite
  + sudo docker start -a graphite

**Grafana docker:**

* There is grafana docker image, you can install docker image instead of local Grafana

sudo docker run \

-d \

-p 3000:3000 \

--name=grafana \

--restart=always\

-e "GF\_INSTALL\_PLUGINS=grafana-clock-panel,grafana-simple-json-datasource,grafana-worldmap-panel" \

grafana/Grafana

* To restart Grafana
  + docker start -a grafana