



# LOG-RPE

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## Motadata

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## Log RPE Functional Information

Log RPE is implemented as separate log server. Log messages will be received in Master server and master server will then send log message to log RPE for log parsing and alert inspection. From master to log, RPE message will be sent through zmq server (9449). Log RPE is used for load balancing, logs forwarded on master server will be equally distributed to the number of log RPEs attached

Parsed log and inspected alert will be dumped in clickhouse server from log RPE only so, clickhouse connectivity from log RPE should persist. For full text search, log RPE will send message to master server via zmq server (9450) so the connectivity should be maintained.

This functionality should be disabled by default. Below configuration parameters should be used from *motadata-conf.yml*

*log-RPE-enabled: "no"*

*zmq-max-worker: 4*

*zmq-max-event-backlog: 100000*

*zmq-event-publisher-port: 9449*

*zmq-event-subscriber-port: 9450*

If you have master and RPE installation then set log-RPE-enabled to "yes" in master as well as in RPE server to enable log RPE. This configuration should be done before the registering RPE in master server.

Please do not change this parameter after registration of RPE server otherwise RPE (metric or log) will not work as expected.

Log collection messages and streaming message like trap will be parsed in master server only.

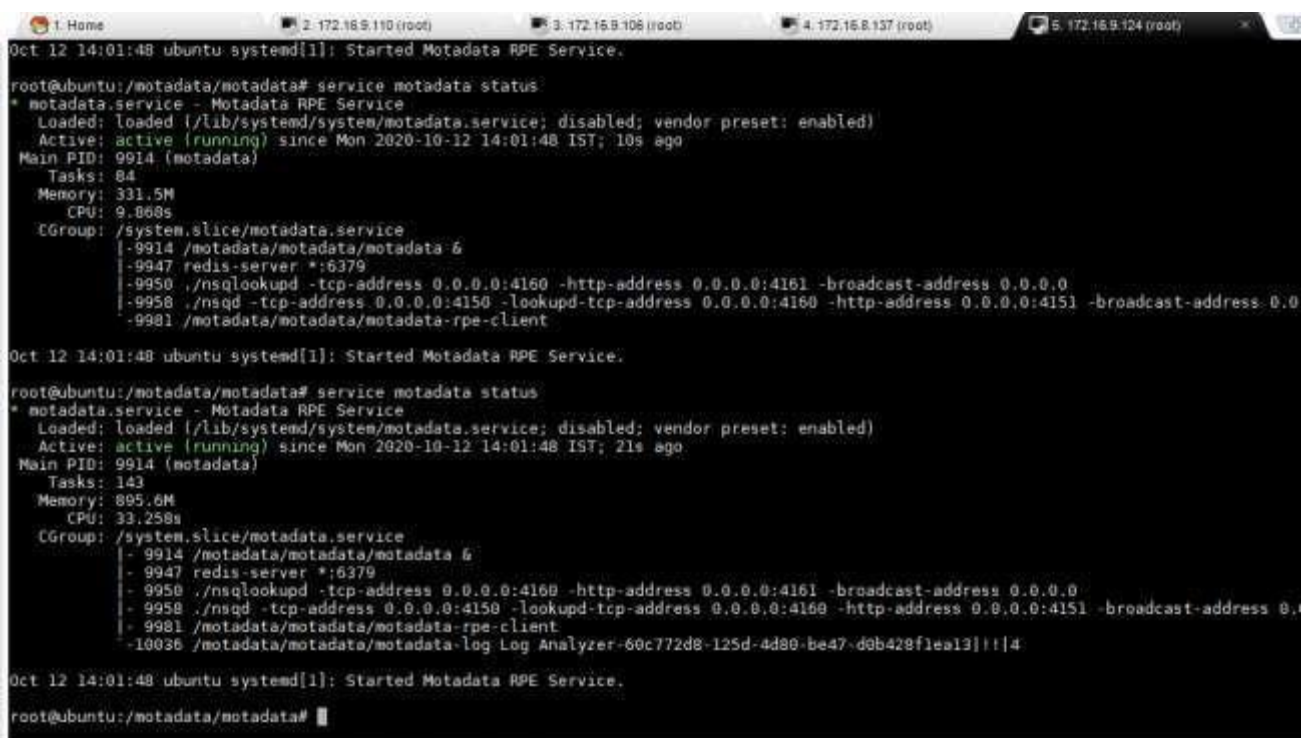
## Log RPE Configuration Steps

Log RPE and Master Motadata service should be off during below steps:

1. Install new RPE with latest available ISO and upgrade it to latest release version same as master if needed.
2. Make sure that universal log parser plugin in log RPE after upgrade is same as master.
3. Transfer the plugin-lib from master server to all attached log RPEs.
4. Transfer Log worker(motadata-log) and its configuration(motadata-log.config) from master (second Motadata directory /motadata/motadata) to log RPE.

Note: Permission should be same for both files as in master.

5. Now, go to motadata config(/motadata/motadata/config) directory and copy *db-engine-conf.yml* file to same path of log RPE.
6. Now change parameter log-RPE-enabled: "no" to yes in both master and Log RPE servers in motadata-conf.yml file.
7. Update db-engine-conf.yml file with IP address of Clickhouse server in Log RPE.
8. Update redis-conf.yml host field with master IP in log RPEs.
9. Configure the RPEs with Master
10. Now, start Motadata service in Master first and then in RPE-Log



```

Oct 12 14:01:48 ubuntu systemd[1]: Started Motadata RPE Service.
root@ubuntu:/motadata/motadata# service motadata status
* motadata.service - Motadata RPE Service
   Loaded: loaded [/lib/systemd/system/motadata.service; disabled; vendor preset: enabled]
   Active: active (running) since Mon 2020-10-12 14:01:48 IST; 10s ago
     Main PID: 9914 (motadata)
        Tasks: 84
       Memory: 331.5M
          CPU: 9.866s
      CGroup: /system.slice/motadata.service
              └─ 9914 /motadata/motadata/motadata 6
                 └─ 9947 redis-server *:6379
                    └─ 9950 ./nsqlookupd -tcp-address 0.0.0.0:4160 -http-address 0.0.0.0:4161 -broadcast-address 0.0.0.0
                       └─ 9958 ./nsqd -tcp-address 0.0.0.0:4150 -lookupd-tcp-address 0.0.0.0:4160 -http-address 0.0.0.0:4151 -broadcast-address 0.0.0.0
                          └─ 9981 /motadata/motadata/motadata-rpe-client
                             └─ 9981 /motadata/motadata/motadata-rpe-client

Oct 12 14:01:48 ubuntu systemd[1]: Started Motadata RPE Service.
root@ubuntu:/motadata/motadata# service motadata status
* motadata.service - Motadata RPE Service
   Loaded: loaded [/lib/systemd/system/motadata.service; disabled; vendor preset: enabled]
   Active: active (running) since Mon 2020-10-12 14:01:48 IST; 21s ago
     Main PID: 9914 (motadata)
        Tasks: 143
       Memory: 895.6M
          CPU: 33.258s
      CGroup: /system.slice/motadata.service
              └─ 9914 /motadata/motadata/motadata 6
                 └─ 9947 redis-server *:6379
                    └─ 9950 ./nsqlookupd -tcp-address 0.0.0.0:4160 -http-address 0.0.0.0:4161 -broadcast-address 0.0.0.0
                       └─ 9958 ./nsqd -tcp-address 0.0.0.0:4150 -lookupd-tcp-address 0.0.0.0:4160 -http-address 0.0.0.0:4151 -broadcast-address 0.0.0.0
                          └─ 9981 /motadata/motadata/motadata-rpe-client
                             └─ 10036 /motadata/motadata/motadata-log Log Analyzer-60c772d8-125d-4d80-be47-d9b428f1ea13|||4

Oct 12 14:01:48 ubuntu systemd[1]: Started Motadata RPE Service.
root@ubuntu:/motadata/motadata#

```

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- RPEs will get register with master as log RPEs and entry will be available in separate table of H2 tbl\_log\_rpe

Run Run Selected Auto complete Clear SQL statement:

```
SELECT * FROM "tbl_log_rpe"
```

---

```
SELECT * FROM "tbl_log_rpe";
```

rpe_id	rpe_name	rpe_mac_address	rpe_ip_address
1001	172.16.9.90	00:50:56:BB:6B:FC	172.16.9.90

(1 row, 22 ms)

- Now turn on full text search or update full text search from admin module.

Note:

- Follow above steps for NMS v7.7.700 and above.
- For NMS v7.7.700 below do not add entry of master host in redis-conf.yml.
- For upgrading NMS running with attached Log-RPE from v7.7.700 or above version to v7.7.902 and above do update the redis-conf.yml host field entry to localhost.



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