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Sharding configuration

QoE Stor can work in sharding mode: horizontal cluster scaling, in which parts of the same database are placed on different shards (nodes). Through sharding, you can: 1. Distribute the load on the IPFIX inserts from several DPIs, spreading it over the nodes. 2. At times speed up the construction of reports by increasing the machine resources-nodes: the construction of reports is performed in parallel and glued into the final report.

1 Create a cluster

To create a QoE Stor cluster, you must specify the cluster node settings on each node in the file `/etc/clickhouse-server/config.d/qoestor-cluster-config.xml`

Edit file on 1st node

```
1  <?xml version="1.0"?>
2  <yandex>
3      <remote_servers>
4          <qoestor_cluster>
5              <shard>
6                  <replica>
7                      <host>127.0.0.1</host>
8                      <port>9000</port>
9                  </replica>
10             </shard>
11             <shard>
12                 <replica>
13                     <host>127.0.0.2</host>
14                     <port>9000</port>
15                 </replica>
16             </shard>
17             <shard>
18                 <replica>
19                     <host>127.0.0.3</host>
20                     <port>9000</port>
21                 </replica>
22             </shard>
23         </qoestor_cluster>
24     </remote_servers>
25 </yandex>
26
```

For each shard, you must specify the host IP or its name. Save your changes.

Copy the file to the rest of the cluster nodes.

Restart the database with the

```
fastor-db-restart
```

command on each node. The cluster is ready to run.

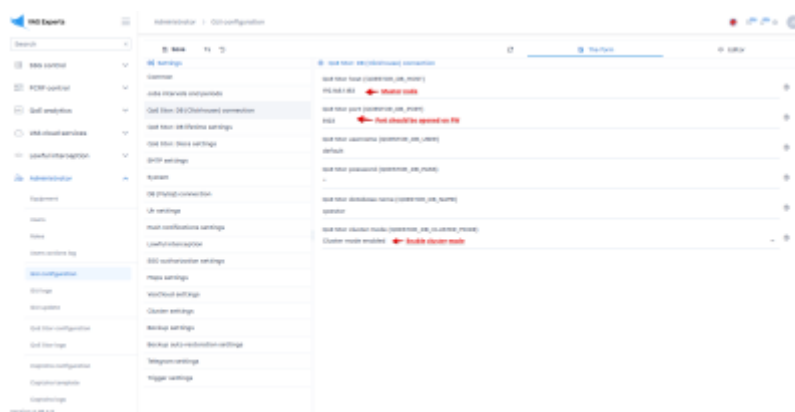


Port 9000 must be open on all firewall cluster nodes in the internal network between the cluster nodes.

2 Adding a cluster to the GUI

1 Master node connection

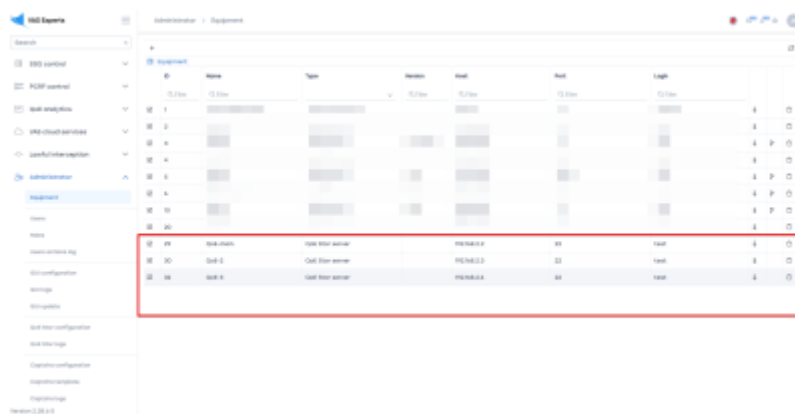
Choose which node you will use as the master. Enable it in the GUI settings. Enable cluster mode. See screenshot below.



Port 8123 must be open on all cluster nodes.

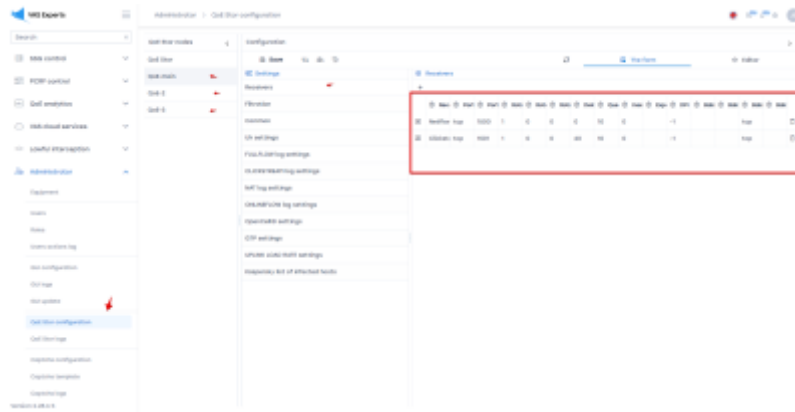
2 Управление через SSH

В разделе GUI Администратор / Оборудование добавить все узлы для управления по SSH.



3 Настройка IPFIX ресиверов

В конфигурации QoE Stor настроить ресиверы для каждого узла.



Перенастроить DPI для отправки IPFIX на соответствующие узлы кластера QoE.



Распределяйте нагрузку равномерно. Один или несколько DPI должны отправлять IPFIX на один узел QoE Stor.



Не отправляйте IPFIX от одного DPI на несколько узлов QoE Stor.