Содержание

Disk Space Configuration

QoE Stor uses several folders for data storage:

- /var/qoestor/backend/dump – stores temporary data received by receivers. After loading into the database, this data is deleted.
- /var/lib/clickhouse/ – the so-called DEFAULT disk. Stores the database schema and data (raw and aggregated logs).
- /var/lib/clickhouse-hot/ – the so-called HOT disk.
- /var/lib/clickhouse-cold/ – the so-called COLD disk.

HOT and COLD disks are used to reduce storage costs.

The DEFAULT disk must be super fast (for example, NVMe SSD) to receive data from DPI, save it to the database as raw logs, and perform aggregation (creating aggregated logs).

The HOT disk can store aggregated logs for 1–2 weeks. It should also be an SSD to allow fast report generation.

The COLD disk can store older data. The COLD disk may be a SATA HDD, as reports on older data are rarely generated and can be stored on slower drives.

For information on how to physically separate directories by disks, see the section below on Storage setup on a separate disk.

Storage setup on a separate disk

By default, all data is stored in the /var directory.

Suppose we have connected a separate disk mounted at /storage.

1. Work as the root user

   ```
   sudo su
   ```

2. Stop receivers and the database

   ```
   fastor-stop
   fastor-db-stop
   ```

3. Create directories under /storage

   ```
   mkdir /storage/qoestor
   mkdir /storage/qoestor/clickhouse
   mkdir /storage/qoestor/clickhouse-hot
   mkdir /storage/qoestor/clickhouse-cold
   mkdir /storage/qoestor/dump
   ```

4. Copy data to the new disk

```
cp -r /var/lib/clickhouse/* /storage/qoestor/clickhouse
cp -r /var/lib/clickhouse-hot/* /storage/qoestor/clickhouse-hot
cp -r /var/lib/clickhouse-cold/* /storage/qoestor/clickhouse-cold
cp -r /var/qoestor/backend/dump/* /storage/qoestor/dump
```

5. Change ownership of the /storage/qoestor directories

```
chown -R clickhouse:clickhouse /storage/qoestor/clickhouse
chown -R clickhouse:clickhouse /storage/qoestor/clickhouse-hot
chown -R clickhouse:clickhouse /storage/qoestor/clickhouse-cold
```

6. Remove old directories

```
rm -rf /var/lib/clickhouse
rm -rf /var/lib/clickhouse-hot
rm -rf /var/lib/clickhouse-cold
rm -rf /var/qoestor/backend/dump
```

7. Create symbolic links

```
ln -s /storage/qoestor/clickhouse /var/lib/clickhouse
ln -s /storage/qoestor/clickhouse-hot /var/lib/clickhouse-hot
ln -s /storage/qoestor/clickhouse-cold /var/lib/clickhouse-cold
ln -s /storage/qoestor/dump /var/qoestor/backend/dump
```

8. Verify links

```
readlink -f /var/lib/clickhouse
readlink -f /var/lib/clickhouse-hot
readlink -f /var/lib/clickhouse-cold
readlink -f /var/qoestor/backend/dump
```

9. Start the database

```
fastor-db-restart
```

10. Start receivers

```
fastor-restart
```