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Data export

If necessary, you can create your own reports and export data in any format — CSV, JSON, or TabSeparated — without additional tools.

Data is stored in four main logs:

- qoestor.fullflow – full netflow log, default retention period: 2 hours
- qoestor.clicksteam – full clickstream log, default retention period: 2 hours
- qoestor.fullflow_agg – pre-aggregated netflow log, default retention period: 14 days
- qoestor.clicksteam_agg – pre-aggregated clickstream log, default retention period: 14 days

The command format is as follows:

```
clickhouse-client --database=qoestor  --query="your SQL here"
```

By default, data is exported in **TabSeparated** format.

Example: The client requested a connection log with a specific host in CSV format.

```
clickhouse-client --database=qoestor --query="select * from fullflow
prewhere flow_start_date = '2018-10-04' where (source_ipv4 = '10.64.66.100'
or destination_ipv4 = '10.64.66.100') and host = 'google.com' ORDER BY
flow_start_time limit 10 format CSV"
```

For detailed information on ClickHouse SQL, see https://clickhouse.com/docs/ru/sql-reference/statements/select.

Exporting large QoE reports via CLI

Data export is performed using the `fastor-report-cli` script.

The script and the following commands must be executed on the QoE master server.

Example usage:

1. Create a folder for storing and editing SQL queries:

   ```
   mkdir -p /tmp/reports_sql
   ```

2. Create a folder for storing report results:

   ```
   mkdir -p /tmp/reports_results
   ```

3. Copy a prepared SQL query template into the folder created in step 1:

   ```
   cp /var/qoestor/backend/app_bash/export/reports_cli/top_hosts_ips.sql
   ```

```
/tmp/reports_sql
```

In this example, the query for TOP IP hosts — `top_hosts_ips.sql` — is copied.

4. Edit the query: set the period and add filters.
5. Execute the query on all nodes with the command

```
fastor-report-cli -r top_hosts_ips.sql -d /tmp/reports_results -w
/tmp/reports_sql
```

where

- `-w /tmp/reports_sql` — working directory containing your queries
- `-r top_hosts_ips.sql` — your query file
- `-d /tmp/reports_results` — directory where report files will be saved

6. To cancel a query:
    1. Press Ctrl-Z
    2. Check in the GUI whether the query remains in the processes list

Warning! These queries have no time limit. If you do not verify that a query has completed, it may continue running indefinitely.