

title: Ingest data in ClickHouse

description: Send data to a ClickHouse server using ClickHouse output plugin for Logagent, light-weight log shipper, filebeat, fluentd or rsyslog alternative with out of the box and extensible log parsing, on-disk buffering, secure transport, bulk indexing to Elasticsearch and Sematext logs management platform

Output Plugin: ClickHouse DB

This plugin sends data to Yandex ClickHouse DB.

Installation

To use the plugin, only Logagent must be installed.

```
sudo npm i -g @sematext/logagent
```

Configuration

Preparation for the example:

- Start ClickHouse DB

```
docker run -d --name clickhouse-server -p 8123:8123 -p 9000:9000 --ulimit nofile=262144:262144
```

- Login via ClickHouse client

```
docker run -it --rm --link clickhouse-server:clickhouse-server yandex/clickhouse-client --host clickhouse-server
```

- Run create table statemnt

```
CREATE TABLE logs(  
    message String,  
    severity String,  
    "@timestamp" UInt64) ENGINE = Log;
```

- Create a configuration file for Logagent

```
# Global options
```

```
options:
```

```
    includeOriginalLine: false
```

```
# note you can use any input plugin here
```

```
input:
```

```
    stdin: true
```

```
output:
```

```
    clickhouse:
```

```
        module: output-clickhouse
```

```
        url: http://127.0.0.1
```

```
        port: 8123
```

```
        # Authentication Options
```

```
# user: 'default'
# password: ''
# useGzip: true
# Set Database Name
# database: default
debug: true
table: default.logs
# Fields must be in the same order as specified in CREATE TABLE
fields:
  - 'severity'
  - 'message'
  - '@timestamp'
```

Stream log messages to Logagent and ClickHouse

```
cat test.log | logagent --config clickhouse.yaml
```