

# InfluxDB - A time series database

## Summary

InfluxDB is a time series database mostly used for sensor data. It supports APIs for data storing, querying and processing.

## Installation

The easiest way to initialize influxdb is by running a docker run command with environment variables to initialize the folder structure. Don't forget to create the folder for the volumes first.

```
docker run -p 8086:8086 \
  -v /PATH/TO/FOLDER/influxdb/data:/var/lib/influxdb2 \
  -v /PATH/TO/FOLDER/config:/etc/influxdb2 \
  -e DOCKER_INFLUXDB_INIT_MODE=setup \
  -e DOCKER_INFLUXDB_INIT_USERNAME=USERNAME \
  -e DOCKER_INFLUXDB_INIT_PASSWORD=PASSWORD \
  -e DOCKER_INFLUXDB_INIT_ORG=ORGANISATION \
  -e DOCKER_INFLUXDB_INIT_BUCKET=BUCKET \
  influxdb:2.0
```

After the initialization you need to delete the docker container again. Then you can start the normal container via docker-compose.

```
version: "2"

services:
  influxdb:
    image: influxdb:2.0
    ports:
      - "8086:8086"
    restart: always
    volumes:
      - /PATH/TO/FOLDER/data:/var/lib/influxdb2
      - /PATH/TO/FOLDER/config:/etc/influxdb2
```

## Data deletion

If you inserted some data wrongfully or want to delete data for any other reason, you need to execute a command in the influxdb container. Either run it via docker exec or just connect into the container shell via portainer. Then you can delete measurements with the following command:

```
influx delete --org ORGANIZATION --bucket BUCKET --start 1970-01-01T00:00:00Z --stop $(date +"%Y-%m-%dT%H:%M:%SZ") --predicate '_measurement="MEASUREMENT"'
```

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