



influxDB

17. May 2024

Martin Johannes Brucker

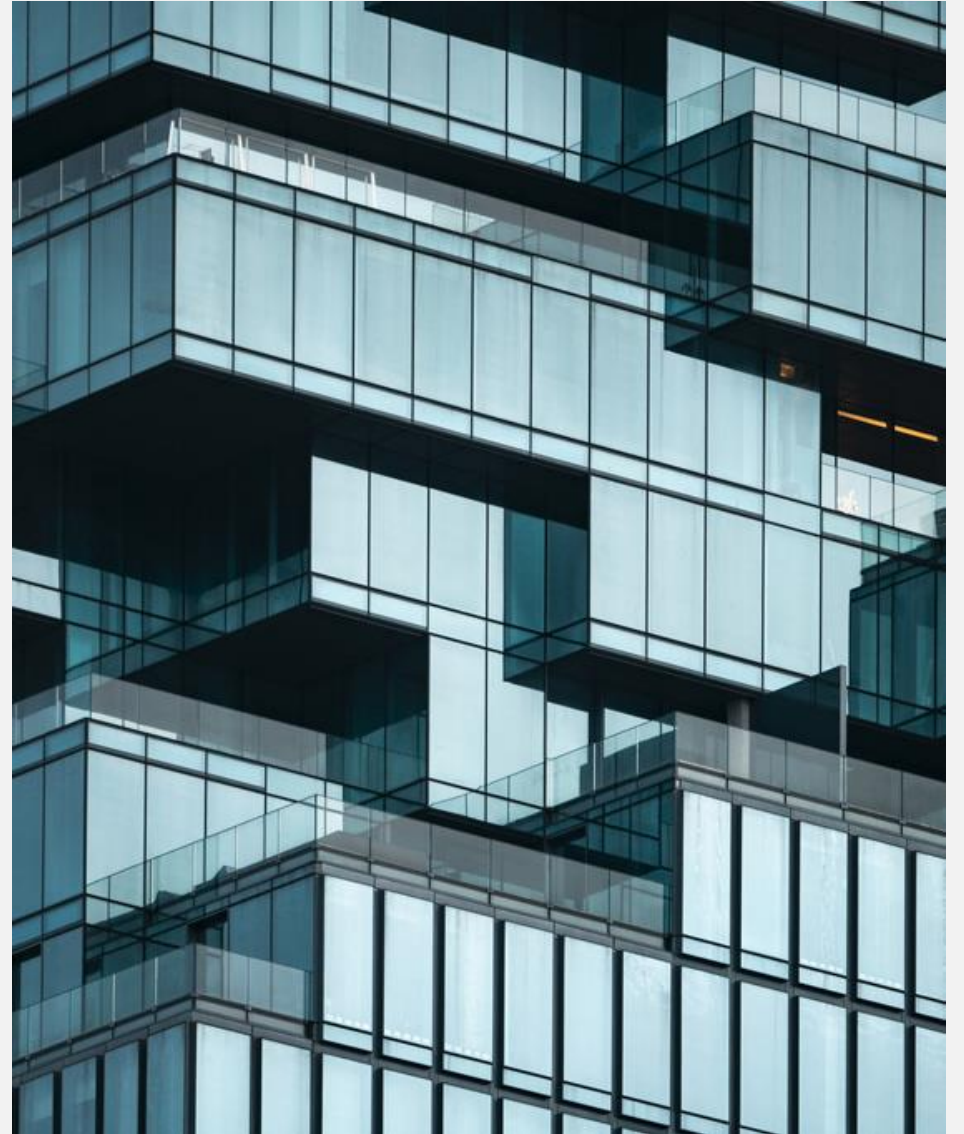
Agenda

- Time series data & databases
- Company
- Licensing
- Product portfolio
- Installation & Configuration
- programming

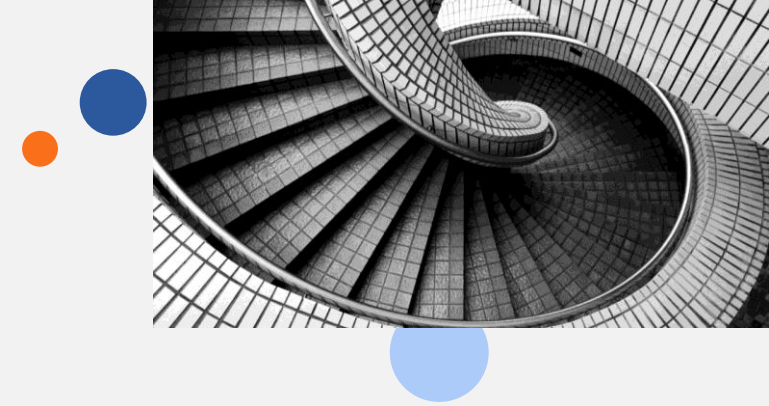


Time series data

Time series data is a sequence of data points indexed in time order. It is also called time-stamped data, as it is data collected at different points in time. Time series data is used to track change over time and has a natural temporal ordering.



Company



InfluxData

- **Headquarters:** Strategically located in **San Francisco**, a hub for innovation and technology.
- **Customer Base:** Robust portfolio of **1,900 commercial customers**, showcasing trust and reliability in our services.
- **Usage:** Impressive 750,000 active instances, indicating widespread adoption and operational scale.
- **Revenue Stream:** A significant **50% of revenue** generated through **InfluxDB Cloud**, reflecting our strong cloud presence and customer preference for our cloud solutions.

Source <https://www.influxdata.com/blog/influxdata-closes-series-e-round-and-raises-81-million/>

Licensing

- Serverless & Dedicated Plans
- **Pay-as-you-go:** Data In: \$0.0025/MB | Query: \$0.012/100 | Storage: \$0.002/GB-hr | Data Out: \$0.09/GB
- Scale discounts on annual plans
- 24/7 infrastructure monitoring
- End-to-end encryption & optional SAML/SSO

Source <https://www.influxdata.com/influxdb-cloud-pricing/>

Product portfolio

Edge

Open source
Not yet released

Community

Free to use

InfluxDB

Paid licence

Clustered

Self managed, anual
subscription

Cloud Serverless

Multi-tenant, usage
billing

Cloud Dedicated

Single tenant, resource
billing



Installation

Use the cloud service no installation required

Using Docker:

```
docker run \
-p 8086:8086 \
-v "$PWD/data:/var/lib/influxdb2" \
-v "$PWD/config:/etc/influxdb2" \
influxdb:2
```

Hardware requirement for a single node

vCPU or CPU	RAM	IOPS	Writes per second	Queries* per second	Unique series
2-4 cores	2-4 GB	500	< 5,000	< 5	< 100,000
4-6 cores	8-32 GB	500-1000	< 250,000	< 25	< 1,000,000
8+ cores	32+ GB	1000+	> 250,000	> 25	> 1,000,000

Installation

Using the web gui to setup the DB

Default port for the webui is 8086

Setup Initial User

You will be able to create additional Users, Buckets and Organizations later

Username

Password

Confirm Password

Initial Organization Name ?

An organization is a workspace for a group of users.

Initial Bucket Name ?

A bucket is where your time series data is stored with a retention policy.

Welcome

Initial User Setup

Complete

You are ready to go!



Make sure to copy your operator API token now.

This token enables superuser privileges like creating users, orgs, etc. You won't be able to see it again!

`0fZG9KzV4G-G-vzFBdWdCfQ0LtCKVtqSF_EDdtxhEiWh6boC7JIYYcNelsif6SQDB8aRUB5UVL_dNIOU_9APGA==`

COPY TO CLIPBOARD

Your InfluxDB has 1 organization, 1 user, and 1 bucket.

Programming

Using the python lib:

```
pip install influxdb_client
```

Initialize:

```
client = influxdb_client.  
    InfluxDBClient(  
        url=url,  
        token=token,  
        org=org)
```

