

### Hero

**Timeseries Historian** 









We are living in the world of Data







## Without a systematic way to start and keep data clean, bad data will happen.

— Donato Diorio, Principal Consultant, DataZ



94 %

Of companies experience severe data loss do not recover

**51** %

Of these companies close within 2 years of the data loss

43%

Of these companies do not reopen again



## 5,000,000\$





### We are team Herodotus

We are here to provide the solution of a storage system for time series data.





# HERO

How does it work?



## Key feature

- Scalability
- Availability
- Write Throughput / Fast Persistency
- Cloud-Independence
- Efficient Storage Consumption
- High Read Query Performance
- Better User Experience





#### Collecting data







Collecting data

## 1 second





#### Collecting data

Scalability
Availability
Write Throughput / Fast Persistency
Cloud- Independence
Efficient Storage Consumption
High Read Query Performance
Better User Experience

#### What is happening in a second?

- Millions of datapoints
- Millisecond resolution
- Terabytes of data

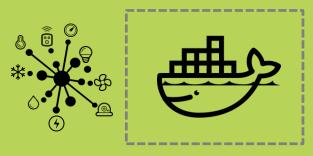






- 67% of data loss is caused by hardware or system failure
- 14% of data loss is caused by human error





#### Docker based containerization

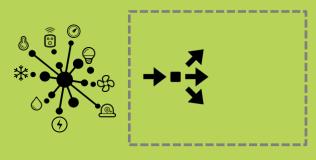
#### Why?

- Light weight
- Rapid deployment

Scalability
Availability
Write Throughput / Fast Persistency
Cloud- Independence
Efficient Storage Consumption
High Read Query Performance
Better User Experience







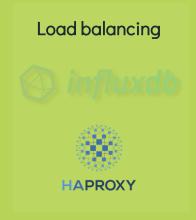
Load-balance with HA Proxy

#### Why?

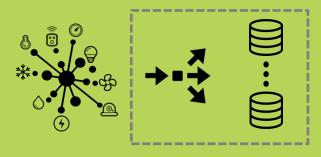
- Zero-downtime maintenance
- Event driven architecture

#### Scalability Availability

Write Throughput / Fast Persistency Cloud- Independence Efficient Storage Consumption High Read Query Performance Better User Experience







#### Introduce a right database to system

#### Why?

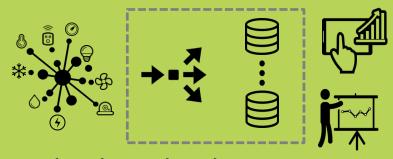
- Time-series data platform
- High availability
- Data compression

#### Scalability

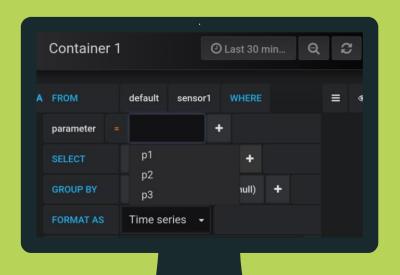
Availability
Write Throughput / Fast Persistency
Cloud- Independence
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#### Read and visualize data





#### Why?

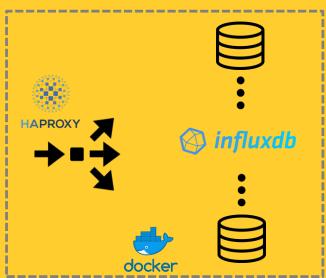
Direct plugin to InfluxDB





### **Architecture**













#### DEM

