# Infraestructura Tecnológica

The TICK stack is a collection of products from the developers of the time-series database InfluxDB. It is made up of the following[1)]

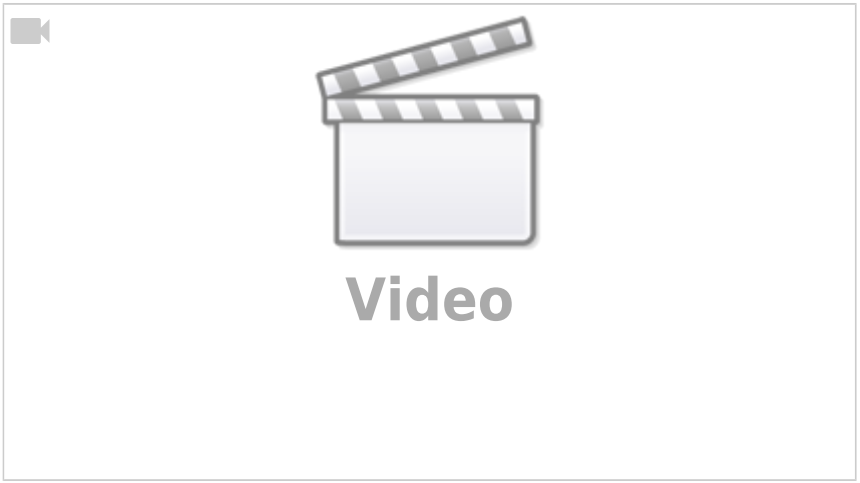
components:

- **Telegraf** collects time-series data from a variety of sources.
- **InfluxDB** stores time-series data.
- **Chronograf** visualizes and graphs the time-series data.
- **Kapacitor** provides alerting and detects anomalies in time-series data.

You can use each of these components separately, but if you use them together, you'll have a scalable, integrated open-source system for processing time-series data.

In this tutorial you'll set up and use this platform as an open-source monitoring system. You'll generate a bit of CPU usage and receive an email alert when the usage gets too high.

https://www.influxdata.com/blog/building-iot-time-series-demo/




https://www.youtube.com/watch?v=woepS38F_90
https://www.influxdata.com/time-series-platform/
https://forums.docker.com/t/docker-and-iptables-configuration-startup/904
https://github.com/CWempe/rest2influxdb/blob/master/rest2influxdb.sh
http://blog.sequenceiq.com/blog/2014/08/12/docker-networking/
https://www.digitalocean.com/community/tutorials/how-to-configure-the-linux-firewall-for-docker-swarm-on-ubuntu-16-04

## MQTT

http://platformio.org/lib/show/89/PubSubClient/examples https://pubsubclient.knolleary.net/

http://platformio.org/lib/show/346/AsyncMqttClient https://github.com/marvinroger/async-mqtt-client
http://marvinroger.viewdocs.io/async-mqtt-client/

**influx data format** → https://docs.influxdata.com/influxdb/v1.3/write_protocols/line_protocol_tutorial/
https://docs.influxdata.com/influxdb/v1.3/concepts/glossary/#timestamp

timestamp tiene una formato definido por la precisión, para ajustarlo se hace por medio de un parámetro
https://docs.influxdata.com/influxdb/v1.3/tools/api/#write

https://support.influxdb.com/hc/en-us/articles/205177928-What-time-formats-are-allowed-

| Query String Parameter | Optional/Required | Description |
|---|---|---|
| precision=[ns,u,ms,s,m,h] | Optional | |

https://docs.influxdata.com/influxdb/v1.3/concepts/schema_and_data_layout/

1)

https://www.digitalocean.com/community/tutorials/how-to-monitor-system-metrics-with-the-tick-stack-on-ubuntu-16-04

From:
https://wiki.unloquer.org/ -

Permanent link:
**https://wiki.unloquer.org/personas/brolin/proyectos/agentes_calidad_aire/infraestructura_iot?rev=1511115323**

Last update: **2017/11/19 18:15**