# Setting up InfluxDB Server in Google Cloud Instance

[InfluxDB 2.0 - Complete Guide to Getting Started with InfluxDB 2 - YouTube](https://www.youtube.com/watch?v=-gF-Jsk85bQ)

1. Create appropriate VM instance in Google cloud – Currently using e2-medium.
2. gcloud compute ssh --zone "asia-southeast1-b" "instance-1" --project "x-summit-385305"
3. sudo apt-get update -y
4. sudo apt install docker.io && sudo apt install docker-compose
5. sudo docker ps (verify if docker successfully installed)
6. git clone <https://github.com/devopsjourney1/influxdb-2-dockercompose.git>
   1. Contains config file (.yml)
7. sudo docker-compose up (Rerun this command if server shuts down)
   1. cd to directory containing config file and run command.
8. Configure Firewall Rules: Allow TCP connection to port 8086.
9. Set up Telegraf
10. Access UI via <http://35.240.148.191:8086/>
    1. User: admin, password: changemepls

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Figure 1. After running docker-compose up, InfluxDB instance should be running.

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Figure 2. Using another terminal, SSH into another console to verify if InfluxDB server running using the sudo docker ps command. Expected output above.

# Configuring Firewall Rules (May need to limit source range to trusted IP)

gcloud compute --project=x-summit-385305 firewall-rules create influxdb-firewall-rule --description="enables access to port:8086" --direction=INGRESS --priority=1000 --network=default --action=ALLOW --rules=tcp:8086 --source-ranges=0.0.0.0/0

# Setting Up Telegraf in InfluxDB Server

1. sudo apt-get install wget
2. wget -q https://repos.influxdata.com/influxdata-archive\_compat.key
3. echo '393e8779c89ac8d958f81f942f9ad7fb82a25e133faddaf92e15b16e6ac9ce4c influxdata-archive\_compat.key' | sha256sum -c && cat influxdata-archive\_compat.key | gpg --dearmor | sudo tee /etc/apt/trusted.gpg.d/influxdata-archive\_compat.gpg > /dev/null
4. echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdata-archive\_compat.gpg] https://repos.influxdata.com/debian stable main' | sudo tee /etc/apt/sources.list.d/influxdata.list
5. sudo apt-get update && sudo apt-get install telegraf

## Creating Example Telegraf System Monitoring

1. Export API Key to Server
2. Start Telegraf in Server

A screenshot of a computer

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Graphical user interface, text

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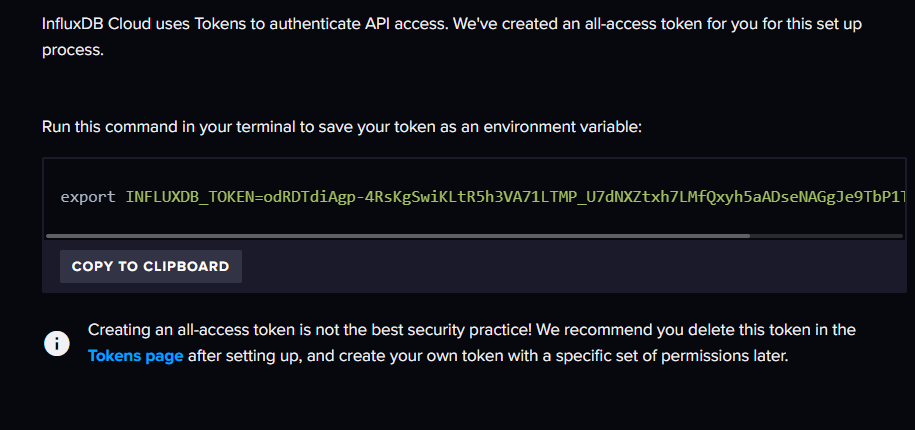
A screenshot of a computer

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Figure 3. Shows the Telegraf system monitoring for uptime.

# Setting Up InfluxDB Client - Python

1. pip3 install influxdb-client.
2. Obtain token (Not sure if this changes each time).

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Figure 4.Example of Writing to InfluxDB

1. Visualize Data

A screenshot of a computer

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