Added to Code Repo:

<https://www.youtube.com/watch?v=NOWoLfpY2kE>

Github: <https://github.com/shazforiot/How-To-Setup-Influxdb-Telegraf-And-Grafana-using-Docker-Compose/tree/main>

Github: Telegraf Input details : <https://github.com/influxdata/telegraf/tree/master/plugins/inputs>

Additional: <https://www.youtube.com/watch?v=xiV4MhL8bOQ&list=PLWSJgJmES26ljaEJJaaA5xx8vtK7sTXme&index=3>

* Telegraf Installation: <https://docs.influxdata.com/telegraf/v1.19/introduction/installation/>
* InfluxDb Installation: <https://docs.influxdata.com/influxdb/v2.1/install/?t=Windows>
  + Create ‘InfluxData’ folder as C:\Program Files\InfluxData\
  + Unzip the download
  + Rename unzipped folder ‘influxdb2-2.1.1-windows-amd64’ as ‘influxdb’

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* + Go to command prompt and run influxdb.exe
  + Browse : <http://localhost:8086/>
    - Setup Initial User:
      * Username: influxadmin
      * Pass: influxadmin
      * Orgname: codetogether
      * Bucketname: infuxbucket

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* + Loading Data Thru UI: <https://docs.influxdata.com/influxdb/v2.1/write-data/no-code/load-data/>
  + Once you are done, go to command prompt and press Ctrl + C.
* Grafana Download: <https://grafana.com/grafana/download?platform=windows>

Fundamentals:

* InfluxDB Fundamentals: <https://www.youtube.com/watch?v=xYnFVvRTlkQ>
* Grafana Fundamentals - <https://grafana.com/tutorials/grafana-fundamentals/?utm_source=grafana_gettingstarted>
* Grafana DataSources - <https://grafana.com/docs/grafana/latest/datasources/>
  + CloudWatch - <https://grafana.com/docs/grafana/latest/datasources/aws-cloudwatch/>
    - User: GrafanaUser
    - Pwd: codegrafana123#
    - AccountId: 013016973542
    - Policy: GrafanaCWPolicy
    - Access key ID: AKIAQGB67IDTAW26HBGH
    - Secret Access key: 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
    - Console Login: <https://013016973542.signin.aws.amazon.com/console>
    - <https://ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1>
  + Spin New Ec2
    - Connect with Putty –
      * Sudo su
      * While true; do echo; done

- Telegraf, InfluxDB & Grafana

- Telegraf

* Plugin-driven server agent for collecting and sending metrics and events from databases, systems, and IoT sensors.
* Written in Go Language
* Telegraf is InfluxData's 'data collection agent' for collecting and reporting metrics and events from databases, IoT Sensors
* Is an agent that is in charge of
  + collecting, processing, aggregating and sending metrics, that you want to monitor,
  + To various outputs like influxdb, graphite, kafka etc.
* Configure telegraf using telegraf.conf to send data to InfluxDb

- InfluxDB:

* + Open-source Time Series database
  + Metrics sent from Telegraf are stored in InfluxDB
  + Written in the Go programming language
  + Used for storage and retrieval of time series data in fields such as
  + operations monitoring, application metrics, Internet of Things sensor data, and real-time analytics.
  + Its a scalable datastore for metrics, events, and real-time analytics.

- Graphs using Grafana

* + Visual Metrics
  + Works OOB with Prometheus
  + Create Alerts
  + Open Source
  + Here you create Panels, Dashboard using data/metrics

Docker Commands:

* docker -v (check version)
* docker ps (list dockers)
* docker-compose up (Build and run your app with Compose)

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