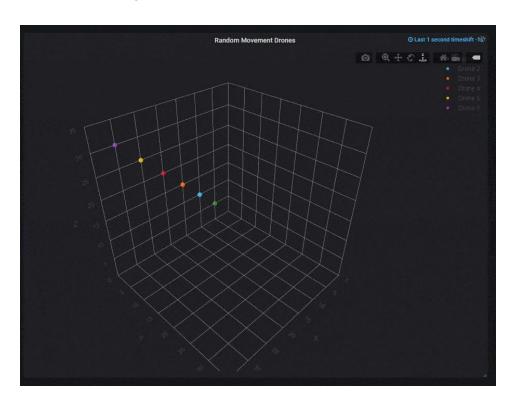
Configure Visualization Panel for Grafana/ Plotly 3D Scatterplot (Linux)

This panel will look something like this:



- 1. Enter Grafana (http://localhost:3000)
- 2. Install Plotly plugin



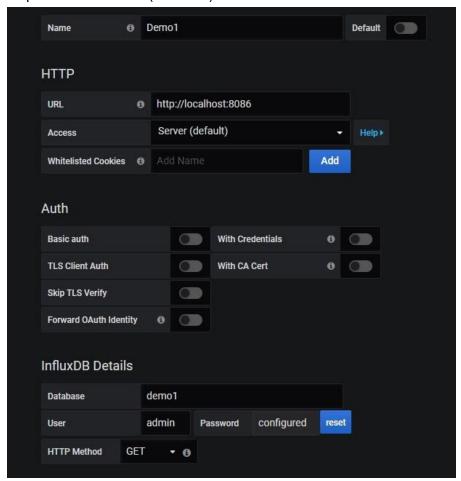
3. Go To Dashboard and Add Panel



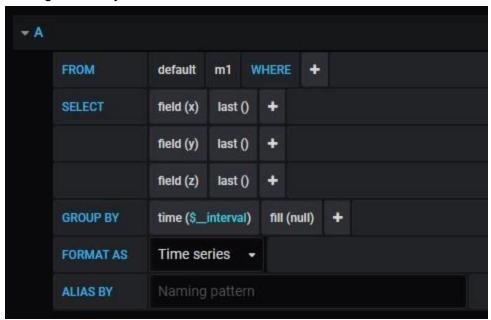
a. Click add Query or Choose Visualization and Follow the Remaining Steps

4. Configure Database Queries

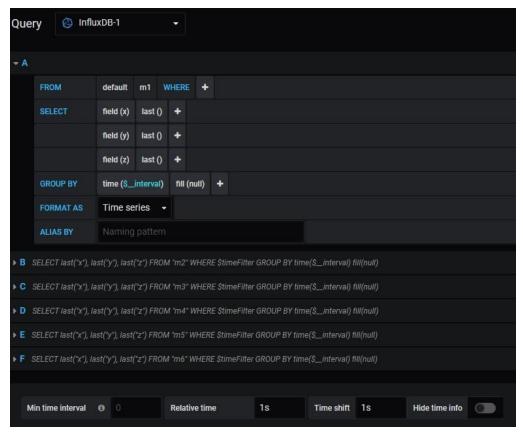
- a. The Query Process starts with adding a data source in Grafana (assuming you haven't done this already)
- b. Set up the Data Source (InfluxDB)



- i. Name it whatever you want, that's for your organization
- ii. Url is the port at which your datasource is, localhost:8086 is Influxdb's default
- iii. Choose the database that you are using
- iv. Put in your UserName and Password
- v. Test and Save
- c. Writing the Query



- i. Pick the datasource that you just created
- ii. Above is a template for a query for a single point/device
- iii. x,y,z here are integer values and are used for plotting the point



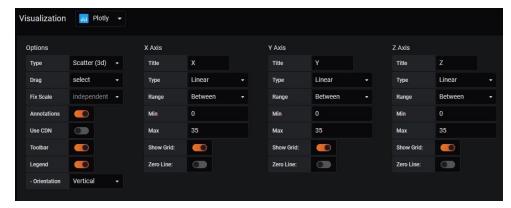
- iv. For this example, there are 6 devices each with its own query on a different measurement
- v. The six measurements are m1-m6 and you can duplicate the first query and just change the measurement name to be more efficient

5. Configure Visualization

a. Pick Plotly

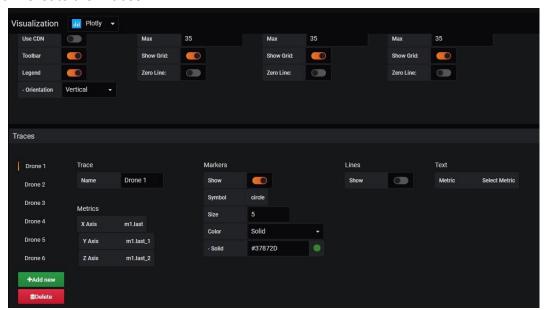


b. Configure the Plot



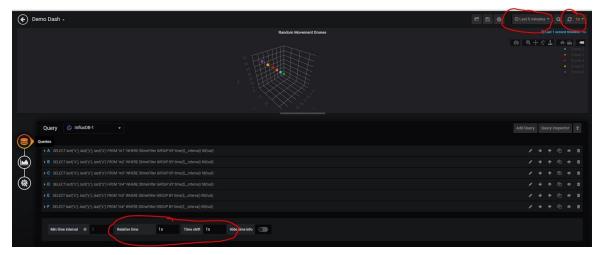
- i. Select Scatter(3D)
- ii. You can set the range of the axes, in this example every one is set between 0 & 35

c. Create the Traces



- i. Above is an example of a Trace for the plot
- ii. Name is irrelevant, except for you and the legend
- iii. x,y,z should match the values that you have for each measurement
- iv. For each other trace created, make sure that the metrics match the measurement that its representing
 - 1. i.e. Trace 2 should have m2 as the metric
 - 2. The metrics would be m2.last, etc

6. Set Refresh Time



- a. You can change the relative time of various panels to be different than the relative time of the whole dashboard
- b. For this script it is important that the relative time is 1s and the time shift is 1s for the display to work properly

7. Run Script