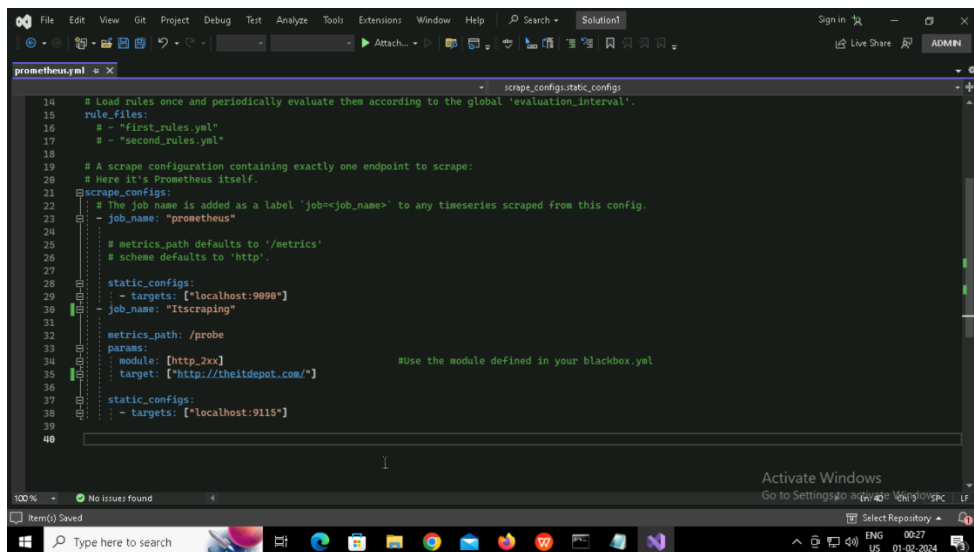


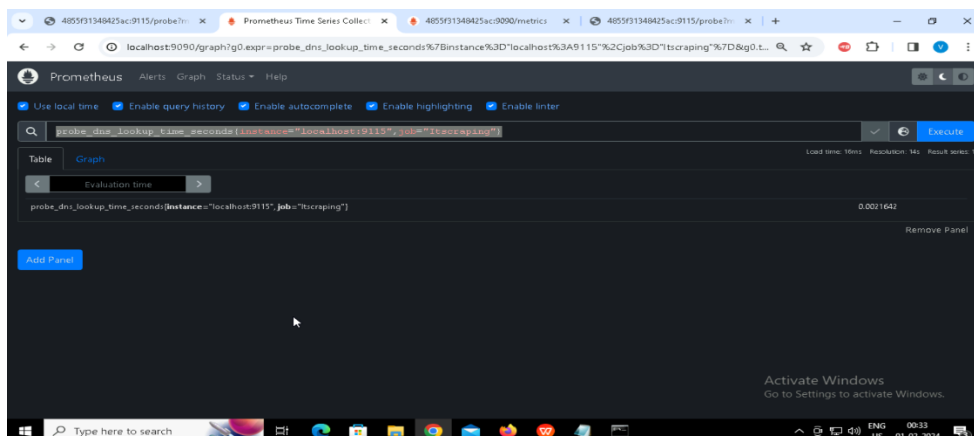
Prometheus Assignment detail explanation

Changing Prometheus Yml File

- The first step in Prometheus is that changing the yml file.
- In that yml file we must give Target, Module, Job etc.
- After Changing First Open Blackbox exporter.
- Then open Prometheus.
- Inside Prometheus we must execute query and check whether results return or not.
- In the below images show Yml files and Prometheus application.

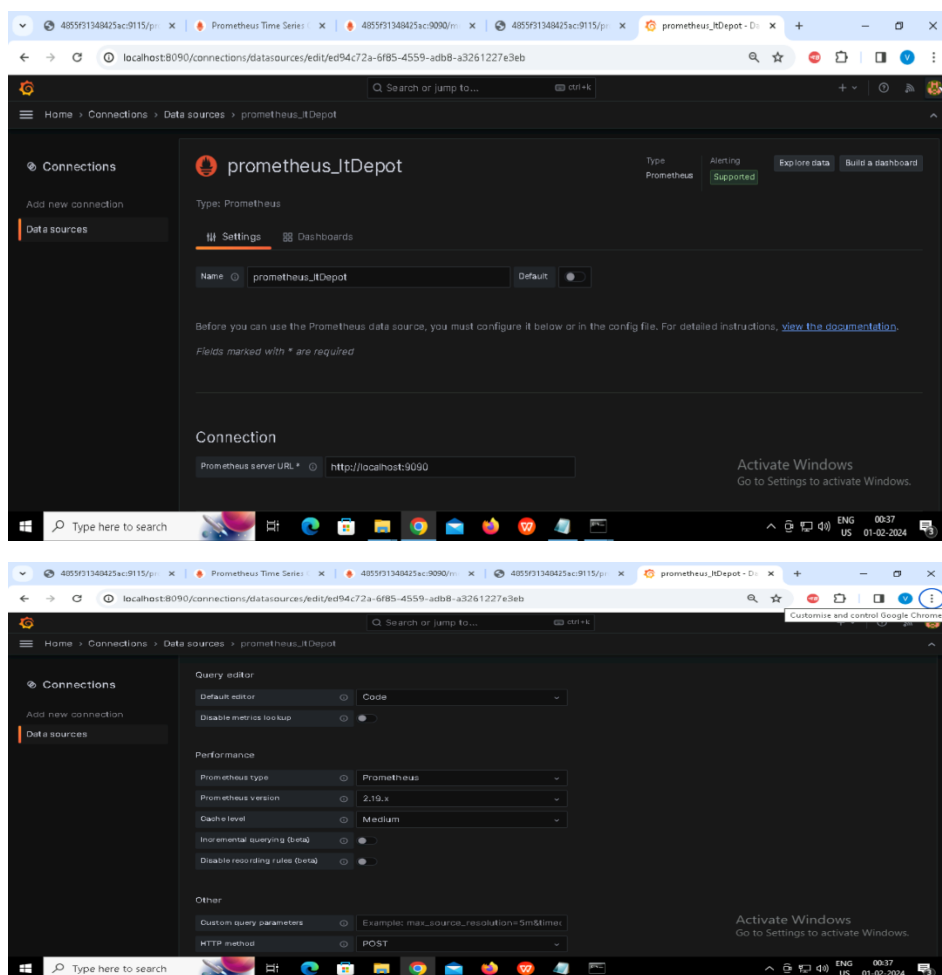


```
14 # Load rules once and periodically evaluate them according to the global 'evaluation_interval'.
15 rule_files:
16   - "first_rules.yml"
17   - "second_rules.yml"
18
19 # A scrape configuration containing exactly one endpoint to scrape:
20 # Here it's Prometheus itself.
21 scrape_configs:
22   # The job name is added as a label 'job=job_name' to any timeseries scraped from this config.
23   - job_name: "prometheus"
24
25     # metrics_path defaults to '/metrics'
26     # scheme defaults to 'http'.
27
28     static_configs:
29       - targets: ["localhost:9090"]
30   - job_name: "itscraping"
31
32     metrics_path: /probe
33     params:
34       module: [http_2xx] #Use the module defined in your blackbox.yml
35       target: ["http://theitdepot.com/"]
36
37     static_configs:
38       - targets: ["localhost:9115"]
39
40
```



Open Grafana

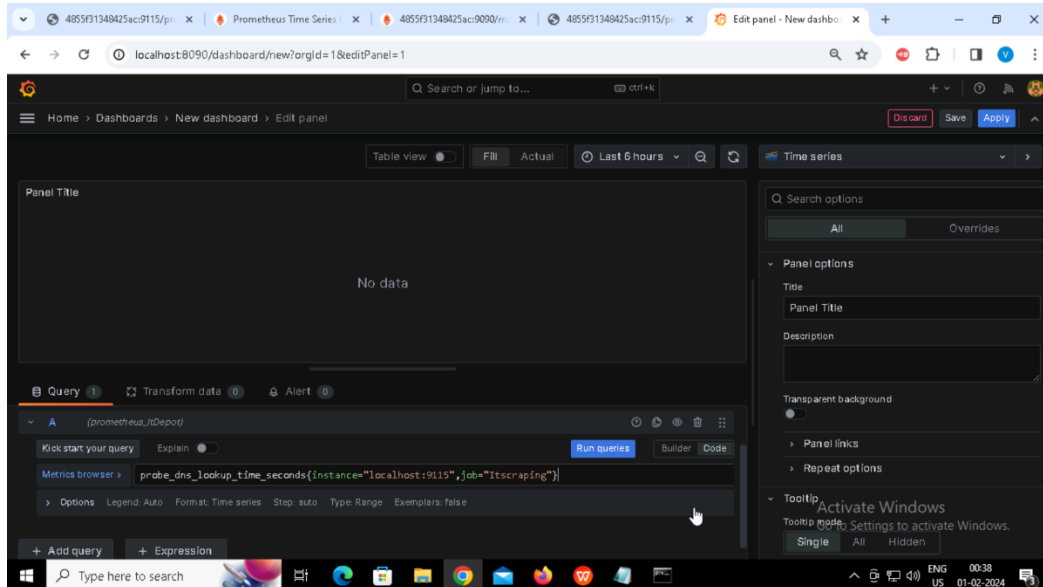
- Next step is that open Grafana then Add data source Connection.
- In That data source connection choose Prometheus data source.
- Then create new data source of Prometheus.
- The mandatory step in data source creation is that choose Prometheus version that we are used and cache level choose as medium.
- Click create.



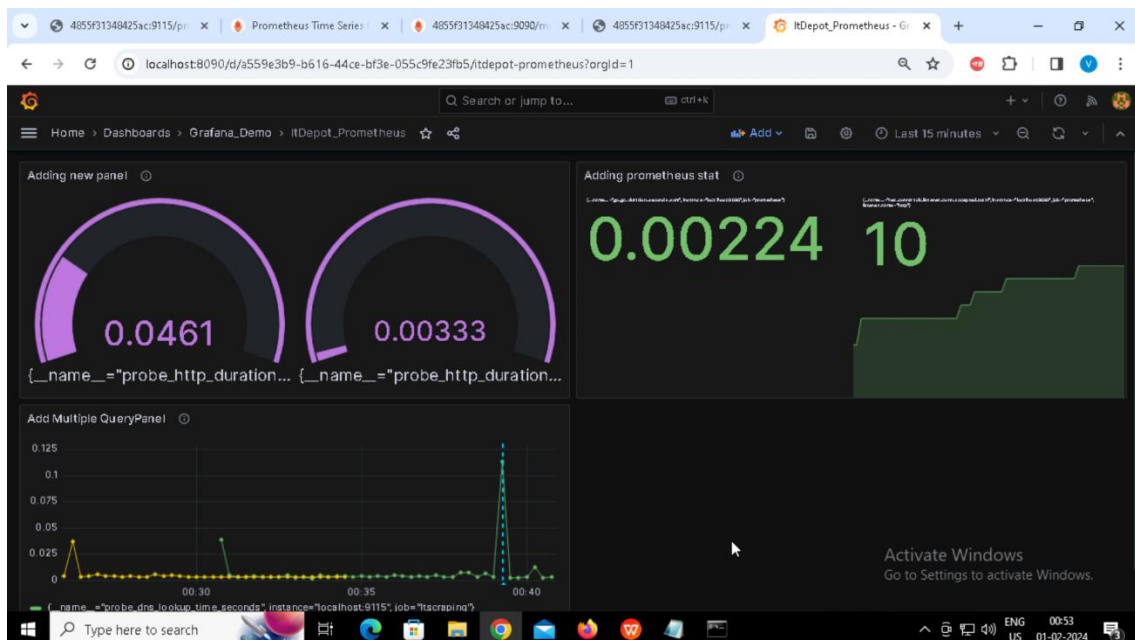
Build Dashboard

- In build Dashboard we have to set panel
- In that panel creation below that there is a option builder and code.

- Choose anyone. Here I am choosing the option one by one.
- Then add our Prometheus query then run query so the data will visualize in Grafana panel and save it.

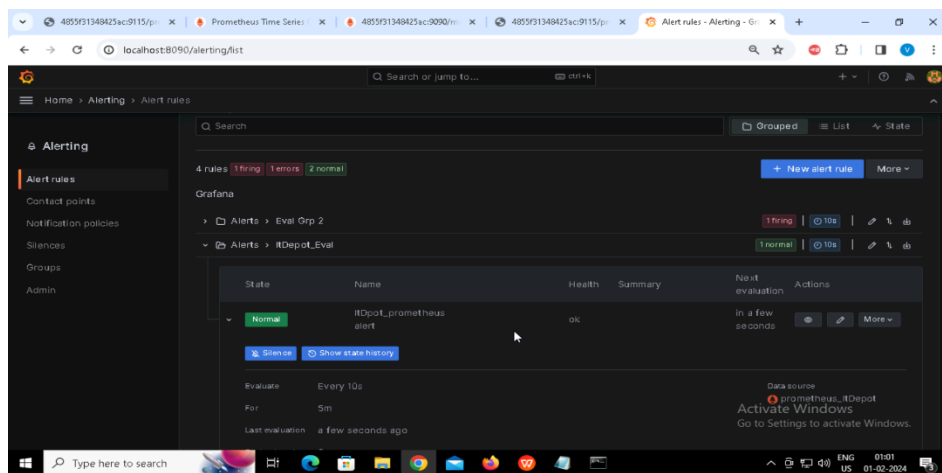
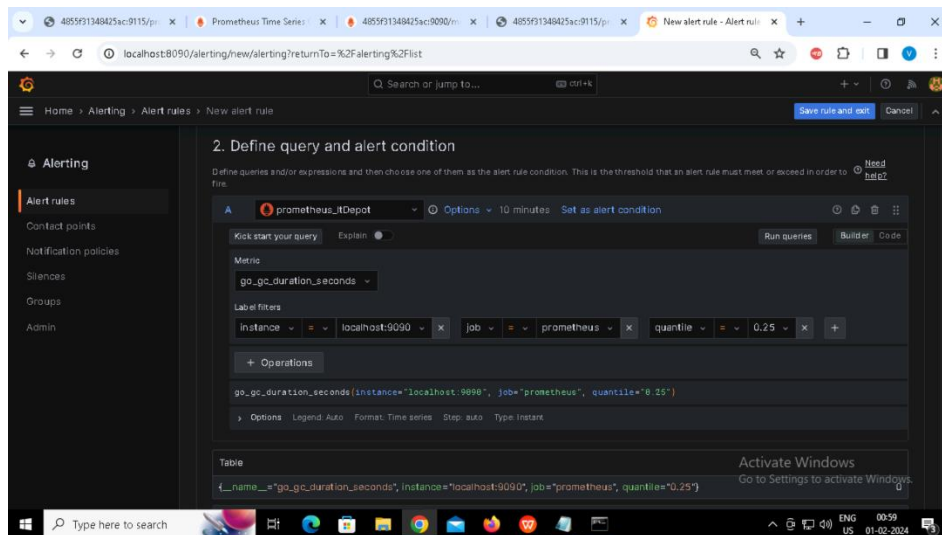


- After clicking run query the data visualization appears.
- The below images show multiple panel visualization.



Alert Creation In Grafana

- For creating alert go to Grafana alert rule add new alert rule.
- Choose the data source that we have used in Prometheus.
- Then add the query and execute.
- Then there is an option B section in that choose above condition.
- Mention the above condition according to our Grafana data visualization value.



Thank You

