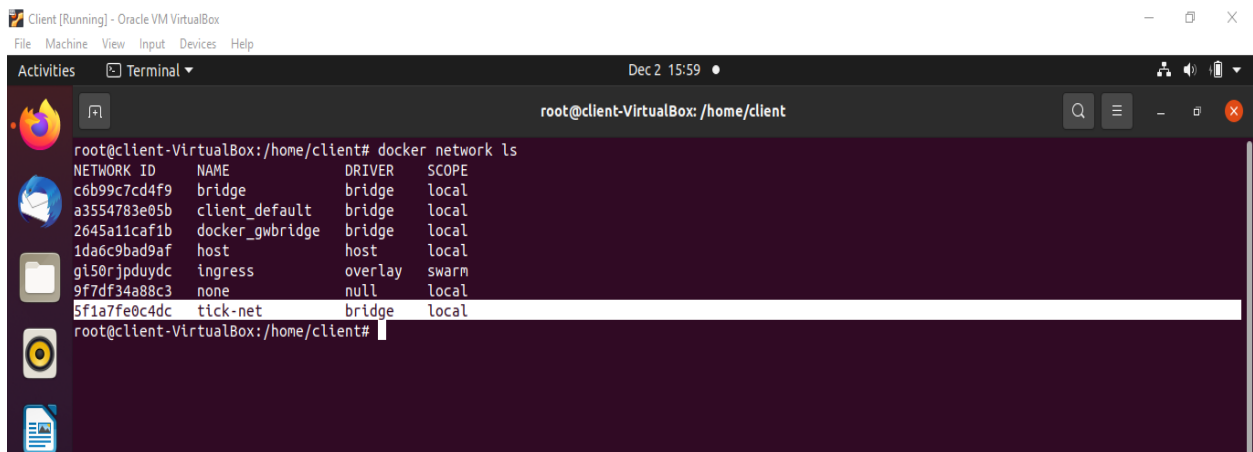


# Implementation of TICK Stack in a Dockerized Environment

## Stepwise description

### Step1: Install InfluxDB

- First create a network
  - docker network create tick-net
- Check the network
  - docker network ls



```
Client [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Dec 2 15:59
root@client-VirtualBox: /home/client
root@client-VirtualBox:/home/client# docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
c6b99c7cd4f9        bridge              bridge              local
a3554783e05b        client_default      bridge              local
2645a11caf1b        docker_gwbridge     bridge              local
1da6c9bad9af        host                host                local
gl50rjpdudydc       ingress             overlay             swarm
9f7df34a88c3        none                null                local
5f1a7fe0c4dc        tick-net            bridge              local
root@client-VirtualBox:/home/client#
```

- Create our InfluxDB Container.
  - docker run -d --name influxdb -p 8086:8086 --net=tick-net -v influxdb:/var/lib/influxdb influxdb:1.8

### Step2: Install telegraf

- Create a telegraf container.
  - docker run -d --name telegraf --net=container:influxdb telegraf

### Step3: Install Chronograf

- Create a chronograf container
  - `docker run -d --name chronograf -p 8888:8888 --net=tick-net chronograf --influxdb-url=http://influxdb:8086`

#### Step4: Install kapacitor

- Create a kapacitor container.
  - `docker run -d --name kapacitor --net=container:influxdb kapacitor`

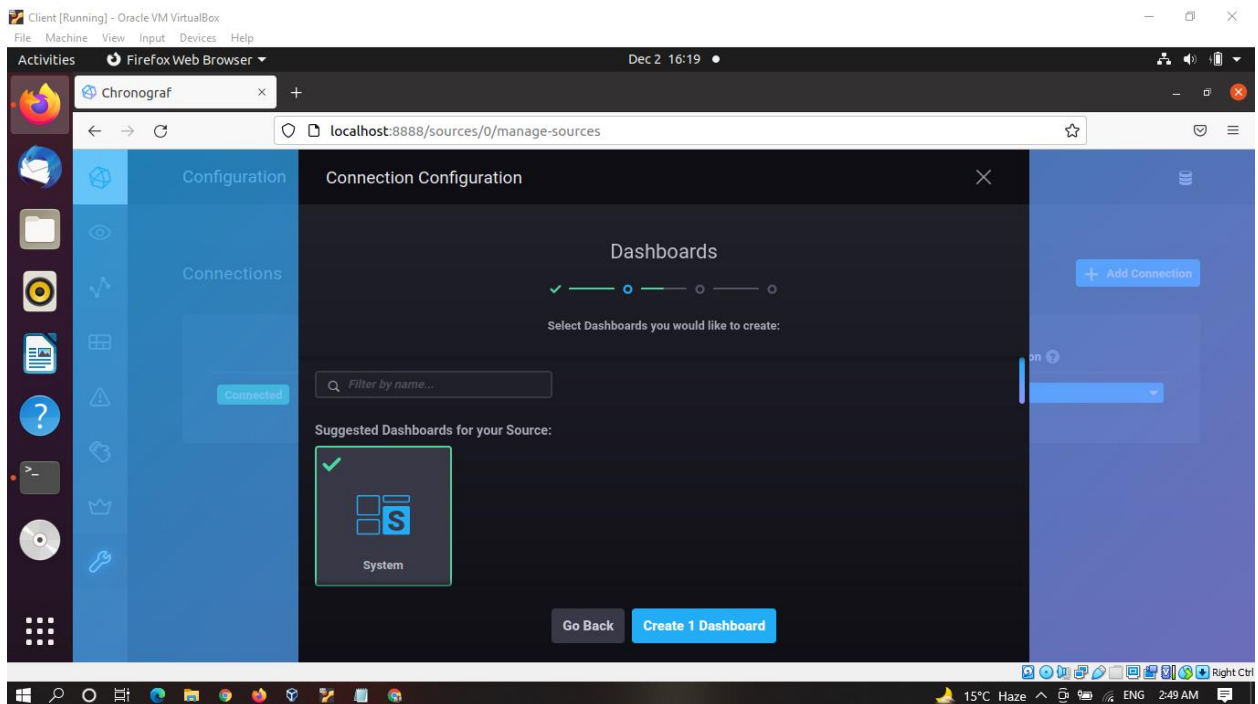
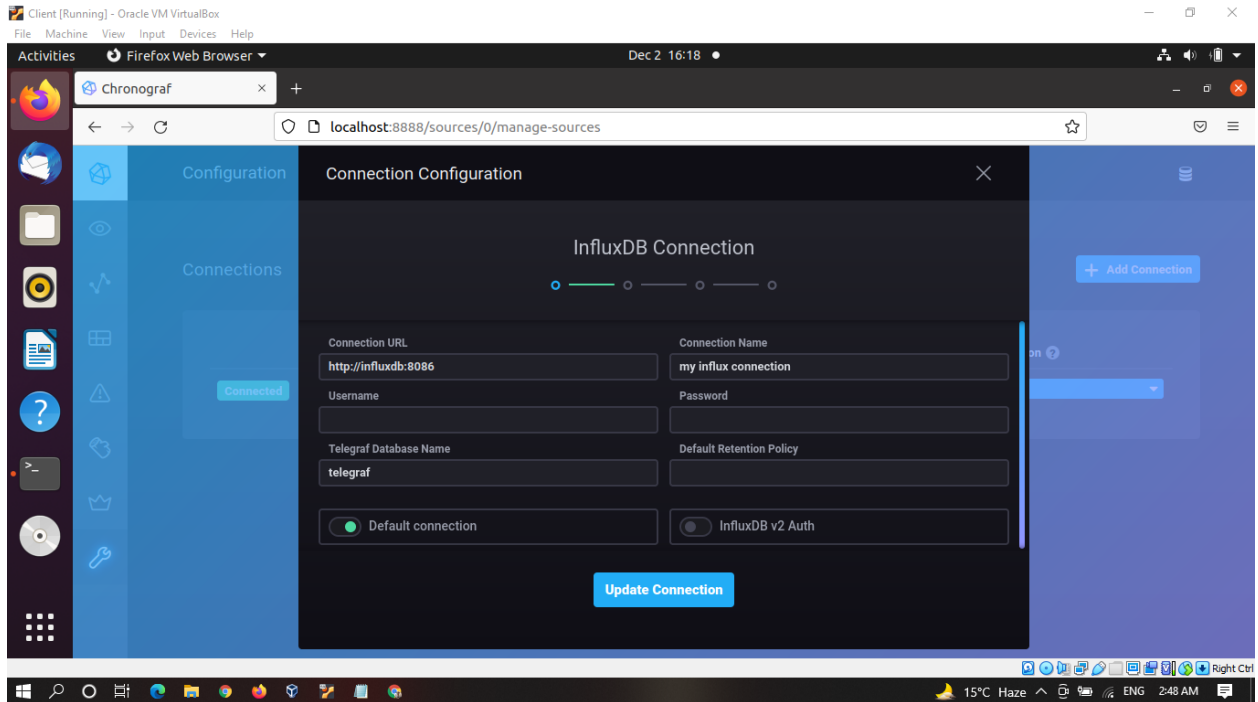
#### Step5: Showing all running containers

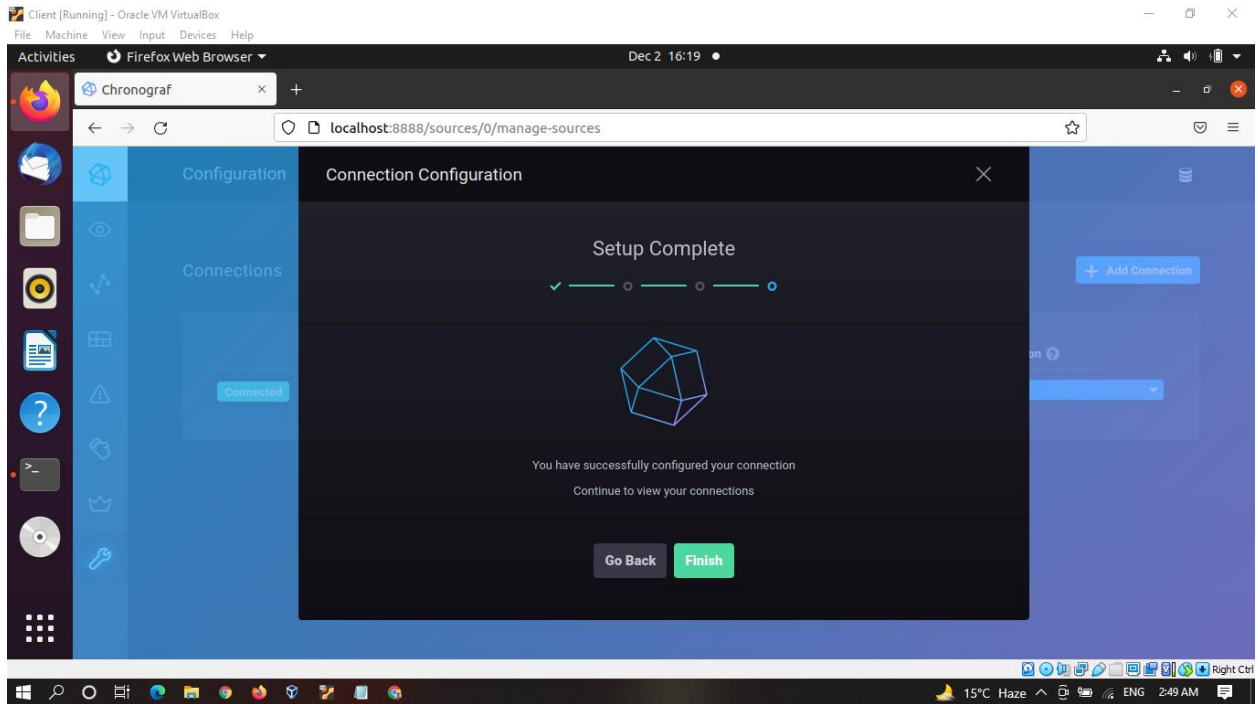
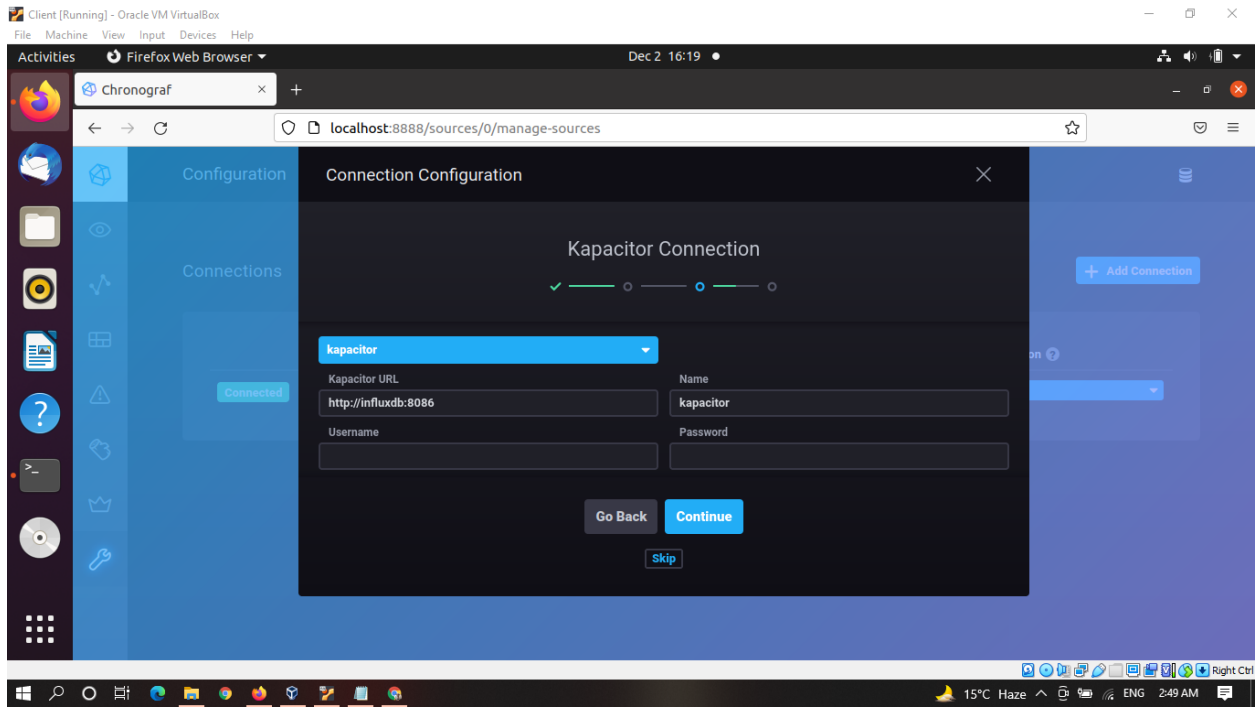
- Type following command
  - `docker ps`

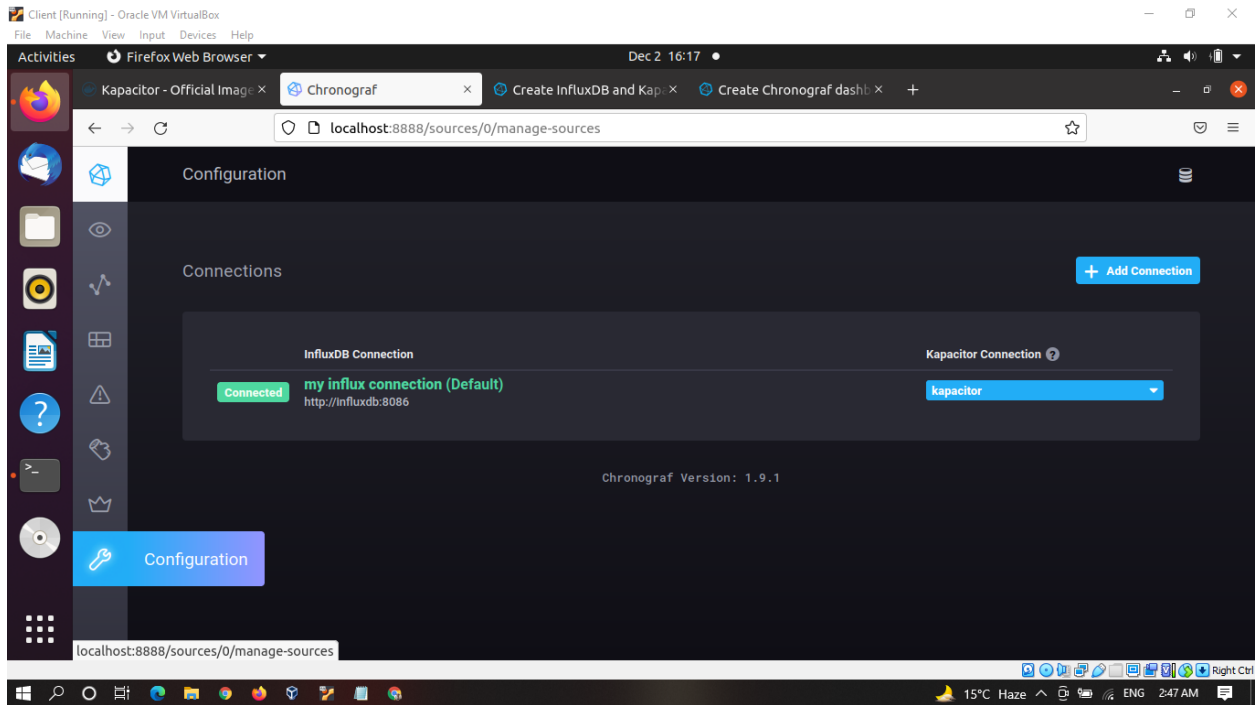
```

root@client-VirtualBox: /home/client# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS                               NAMES
c0cec1852323   chronograf    "/entrypoint.sh --ln..." 2 hours ago Up 35 minutes    0.0.0.0:8888->8888/tcp, :::8888->8888/tcp    chronograf
48c029e9f32f   kapacitor     "/entrypoint.sh kapa..." 2 hours ago Up 34 minutes    0.0.0.0:8888->8888/tcp, :::8888->8888/tcp    kapacitor
b9b59152bd1e   telegraf     "/entrypoint.sh tele..." 2 hours ago Up 35 minutes    0.0.0.0:8086->8086/tcp, :::8086->8086/tcp    telegraf
7ec1332546ce   influxdb:1.8  "/entrypoint.sh infl..." 2 hours ago Up 35 minutes    0.0.0.0:8086->8086/tcp, :::8086->8086/tcp    influxdb
root@client-VirtualBox: /home/client#
  
```

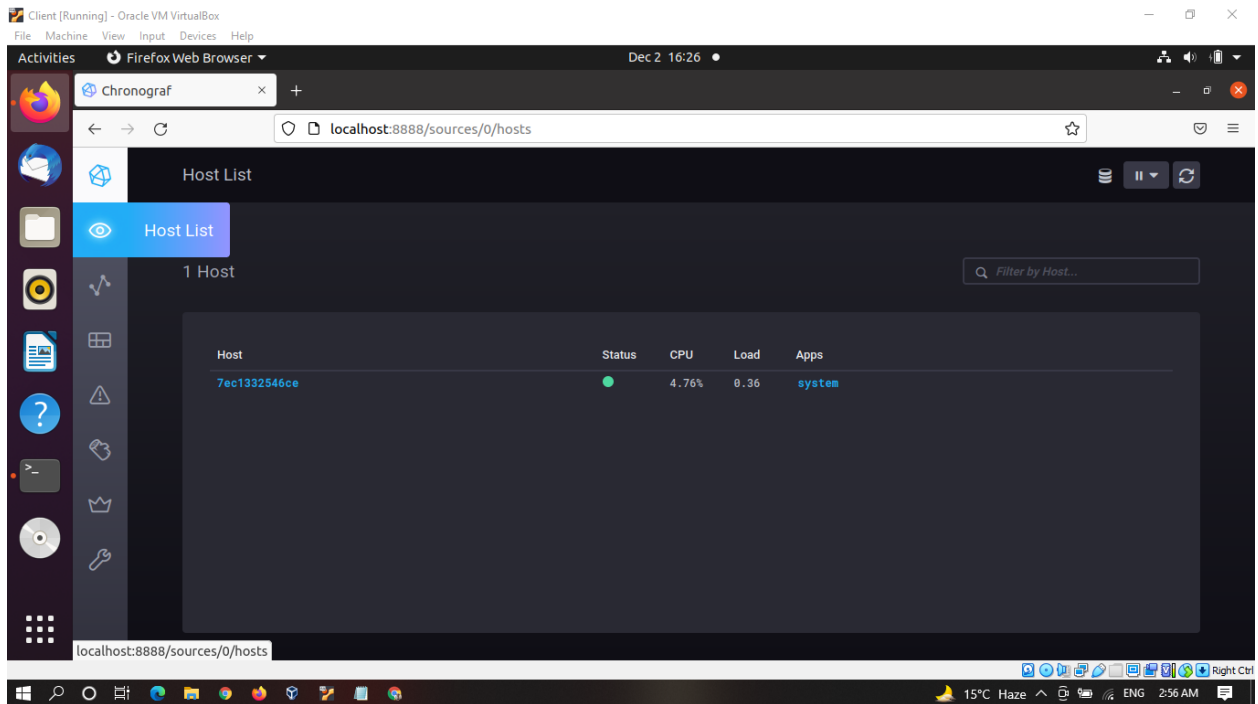
## Step6: Showing the Connections configuration from Chronograf UI.

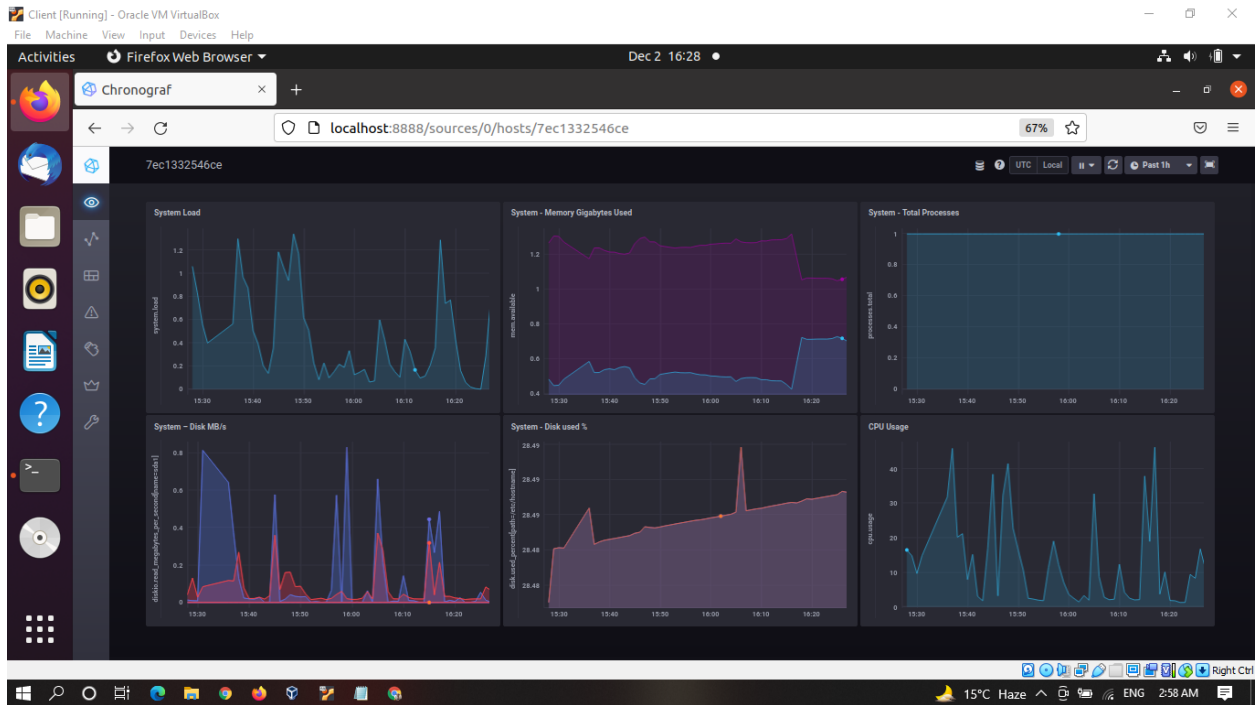




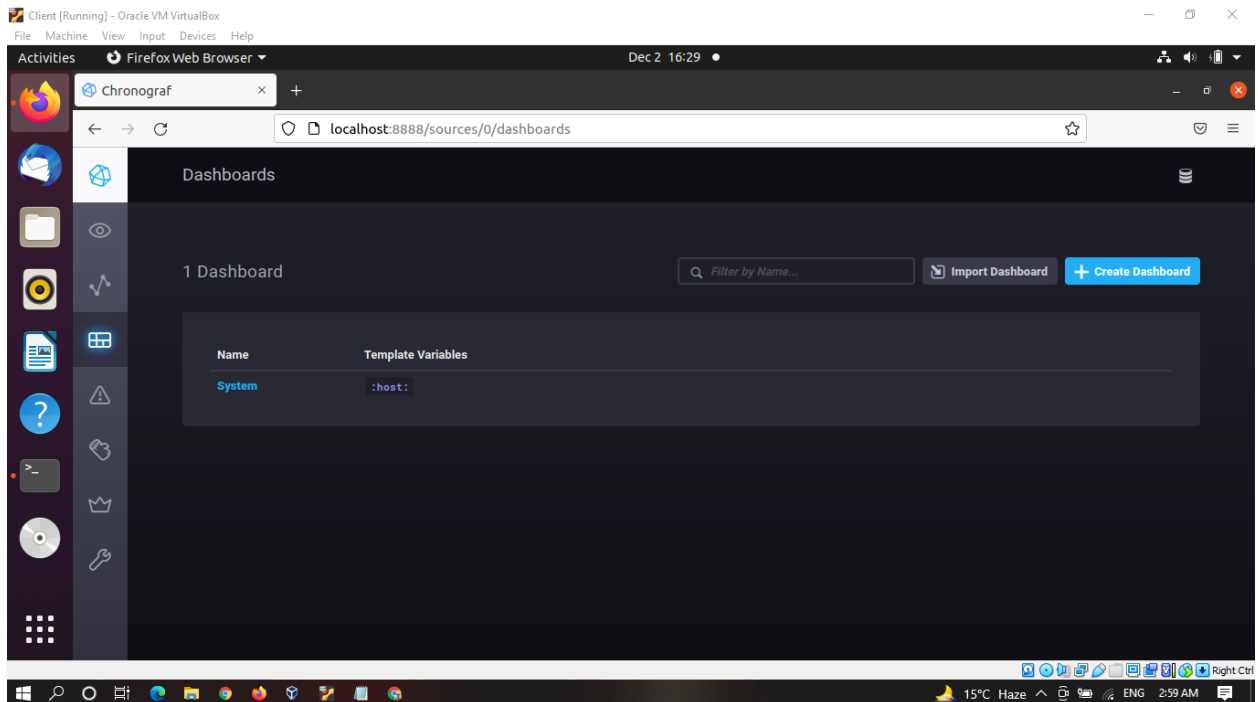


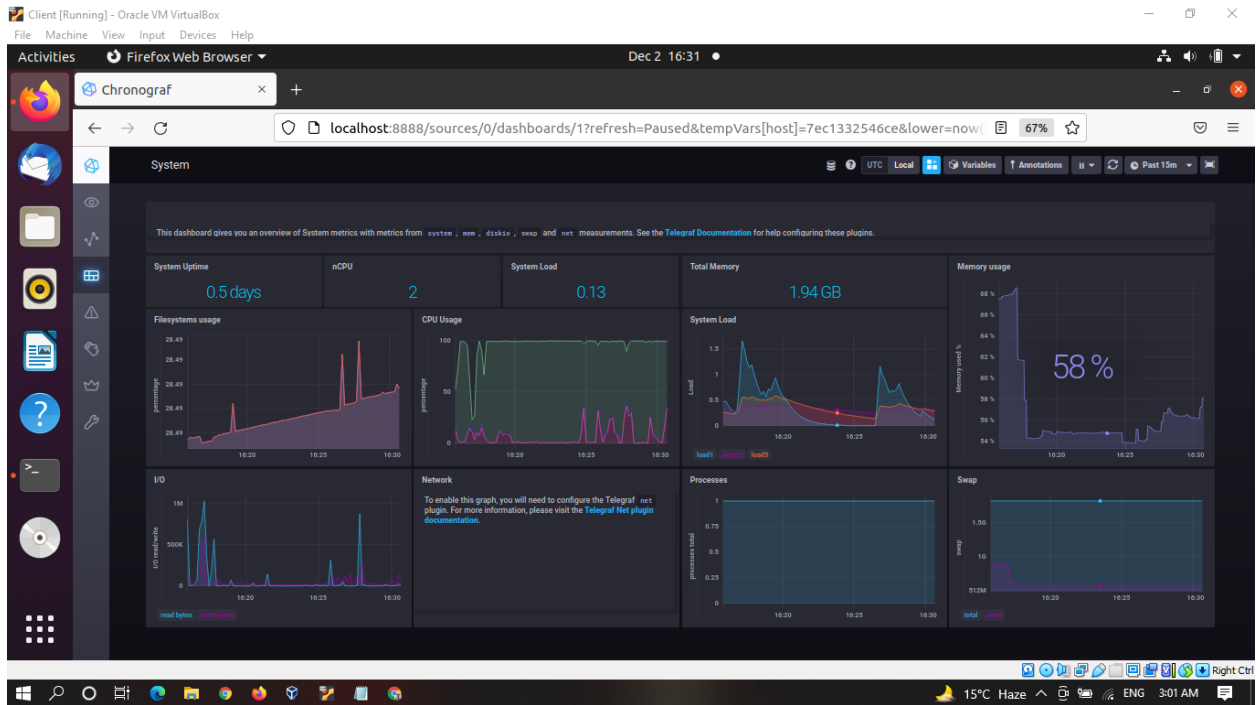
## Step7: Showing Host List



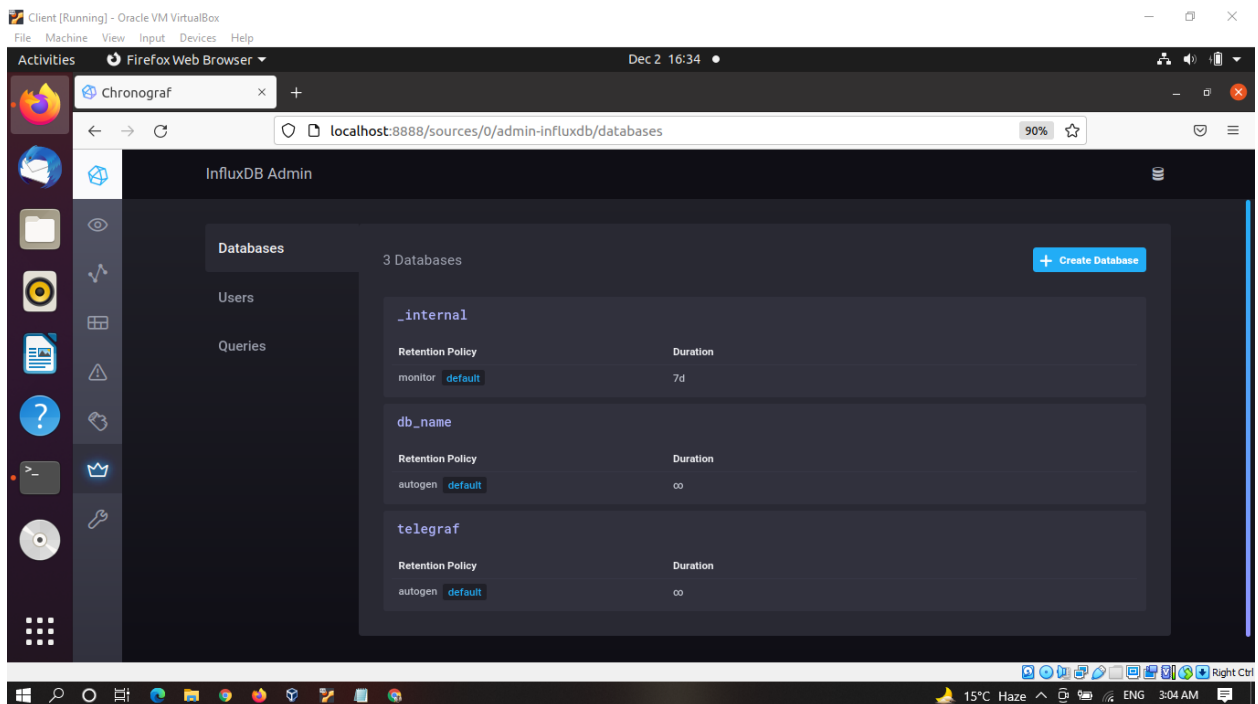


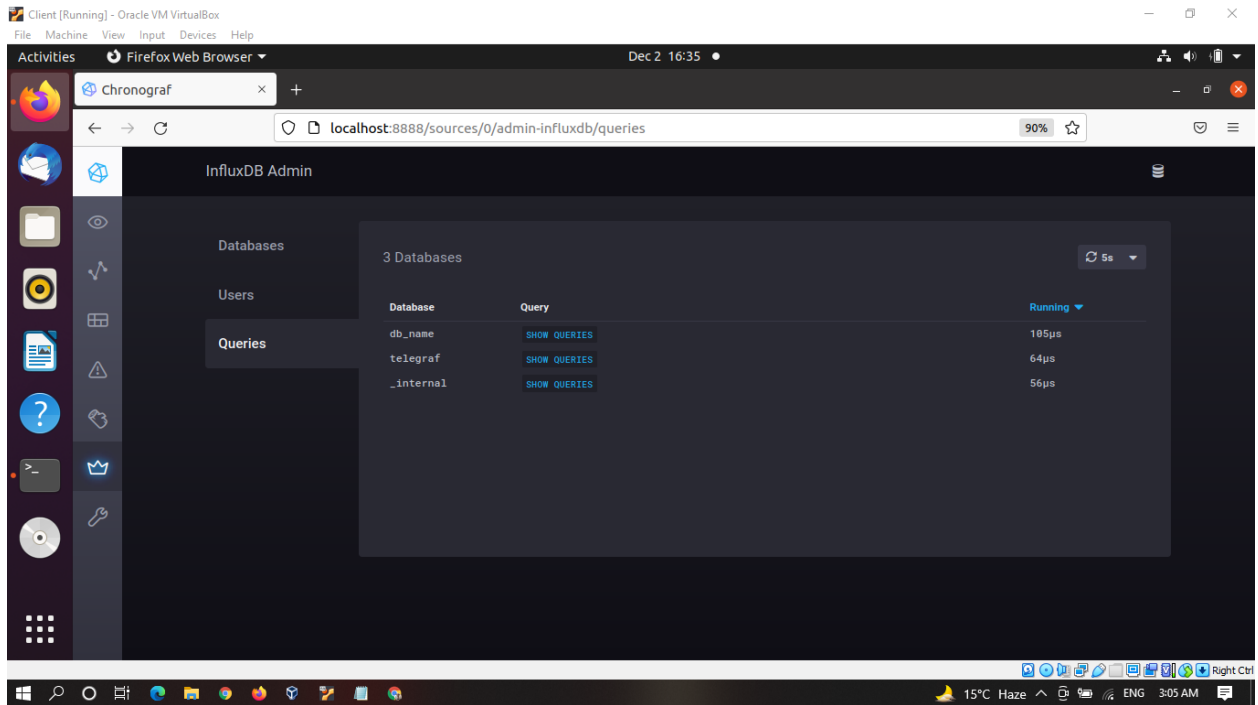
## Step8: Showing Dashboard



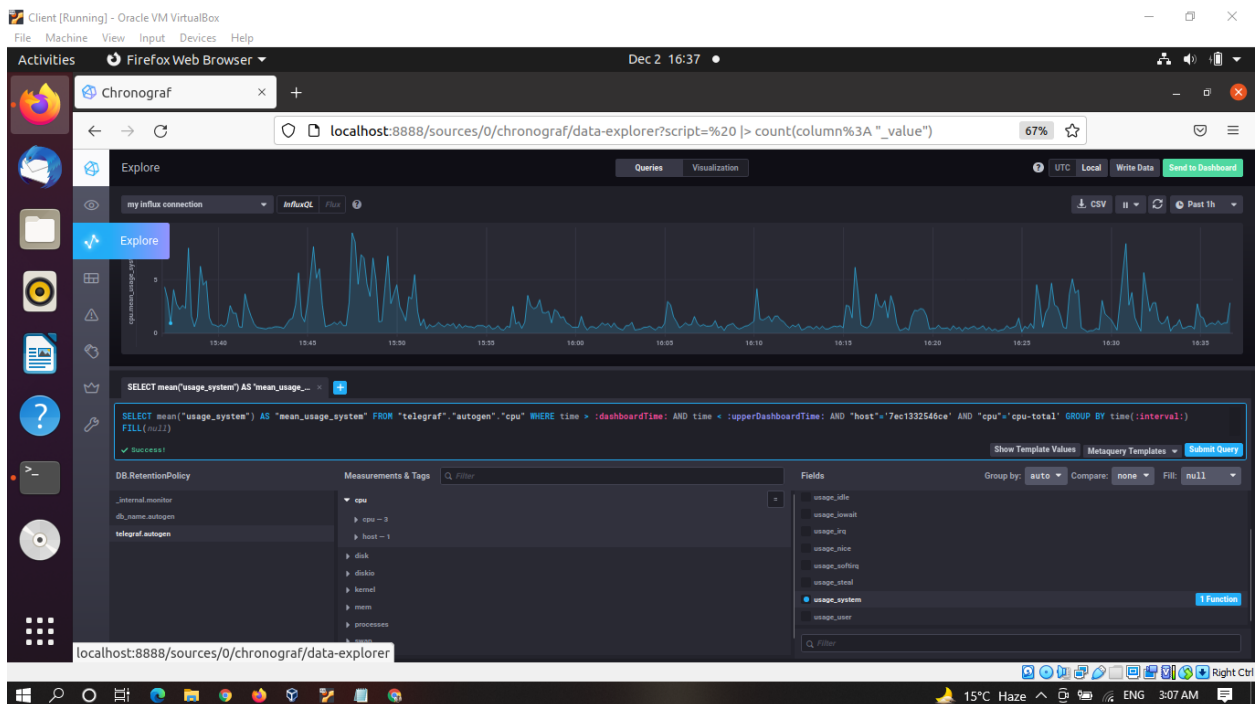


## Step9: Showing InfluxDB Admin panel.





Step10: Showing the Explore panel by running some query.





Video link : <https://youtu.be/HaNNnDUS5YE>

## References

1. <https://docs.influxdata.com/chronograf/v1.9/>
2. <https://docs.influxdata.com/kapacitor/v1.6/administration/configuration/>
3. <https://docs.influxdata.com/chronograf/v1.9/administration/creating-connections/>
4. <https://medium.com/codingtown/influxdb-tick-stack-part1-28bd04d10a18>
5. <https://www.youtube.com/watch?v=NGv7LeCaPtc>