- 3. Install grafana server on same server as prometheus
- Add prometheus data source to grafana, should be connected through basic auth
- Screenshot of working data source config
- Import & apply dashboard for node exporter
- Screenshot of dashboard of nodes with live metrics shown.

```
Installing latest OSS grafana on the same host where Prometheus service is
installed(192.168.1.147)
sudo apt-get install -y apt-transport-https
sudo apt-get install -y software-properties-common wget
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list
sudo apt-get update
   bibek@prometheus:/etc/prometheus$ wget -q -0 - https://packages.grafana.com/gpg.
   key | sudo apt-key add -
  bibek@prometheus:/etc/prometheus$ echo "deb <a href="https://packages.grafana.com/oss/deb">https://packages.grafana.com/oss/deb</a> stable main" | sudo tee -a /etc/apt/sources.list.d/grafana.list deb <a href="https://packages.grafana.com/oss/deb">https://packages.grafana.com/oss/deb</a> stable main
   bibek@prometheus:/etc/prometheus$ sudo apt-get update
Hit:1 http://np.archive.ubuntu.com/ubuntu focal InRelease
   Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:3 https://artifacts.elastic.co/packages/7.x/apt stable InRelease
Get:4 http://np.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:5 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]
   Get:6 http://np.archive.ubuntu.com/ubuntu focal InRelease [57.7 kB]

Get:6 http://np.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]

Get:7 https://packages.grafana.com/oss/deb stable InRelease [12.1 kB]

Get:8 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadat
sudo apt-get install grafana
 (Reading database ... 179896 files and directories currently installed.)
Preparing to unpack .../grafana_8.3.0_amd64.deb ...
Unpacking grafana (8.3.0) ...
Setting up grafana (8.3.0) ...
Adding system user `grafana' (UID 135) ...
Adding new user `grafana' (UID 135) with group `grafana' ...
Not creating home directory `/usr/share/grafana'.
### NOT starting on installation, please execute the following statements to figure grafana to start automatically using systemd sudo /bin/systemctl daemon-reload sudo /bin/systemctl enable grafana-server ### You can start grafana-server by executing
  ### You can start grafana-server by executing sudo /bin/systemctl start grafana-server
  Processing triggers for systemd (245.4-4ubuntu3.13) ...
```

### Starting Grafana service

#### sudo systemctl start grafana-server.service

sudo systemctl status grafana-server.service

Grafana is installed and running

Configuring grafana in prometheus job

#### sudo vi /etc/prometheus/prometheus.yml

```
- job_name: 'grafana'
scrape_interval: 5s
static_configs:
- targets:
- 192.168.1.147:3000
basic_auth:
username: admin
password: 123456
```

#### Save and exit

#### Restarting the prometheus service

#### sudo systemctl restart prometheus.service

```
bibek@prometheus:/etc/prometheus$ sudo systemctl restart prometheus.service bibek@prometheus:/etc/prometheus$ sudo systemctl status prometheus.service

prometheus.service - Prometheus

Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; vendor pr>
Active: active (running) since Fri 2021-12-03 22:00:46 +0545; 8s ago

Main PID: 20909 (prometheus)

Tasks: 7 (limit: 2299)

Memory: 62.1M

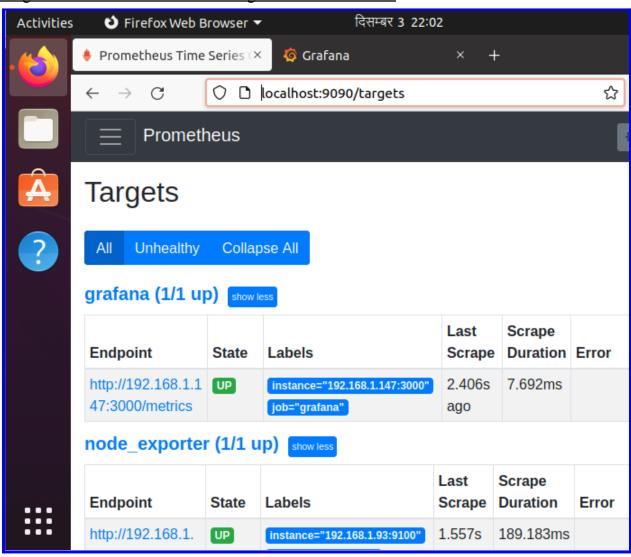
CGroup: /system.slice/prometheus.service

-20909 /usr/local/bin/prometheus --config.file /etc/prometheus/pr>

Rat par 03 22:00:52 prometheus prometheus[20909]: ts=2021-12-03T16:15:52.999Z ca>
Rat par 03 22:00:53 prometheus prometheus[20909]: ts=2021-12-03T16:15:53.087Z ca>
```

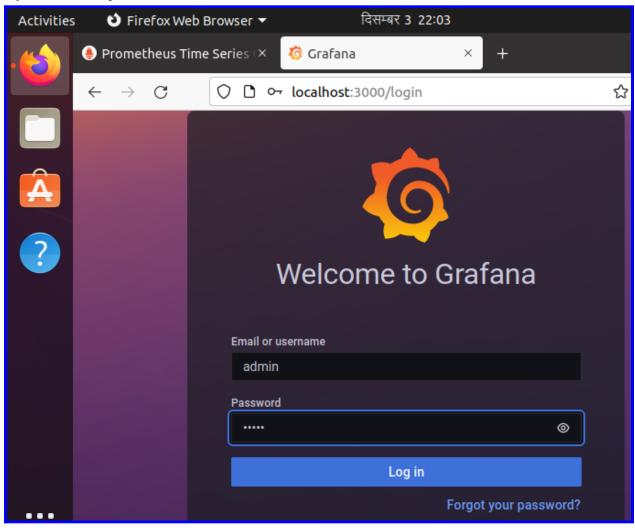
Prometheus service is running

Target of Prometheus which shows grafana is in UP state

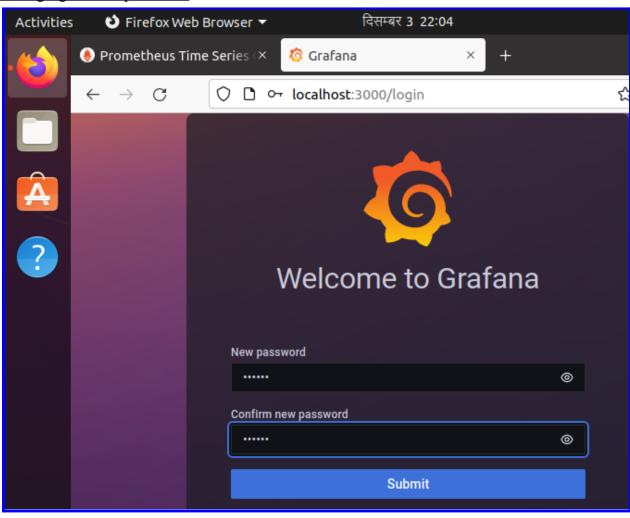


## Opening Grafana at port 3000

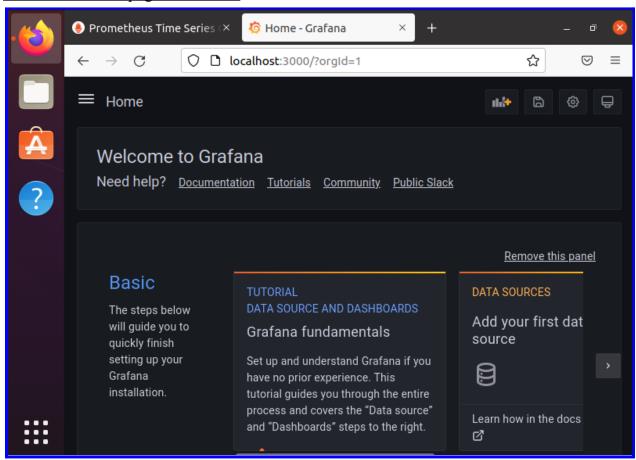
Default username password is admin



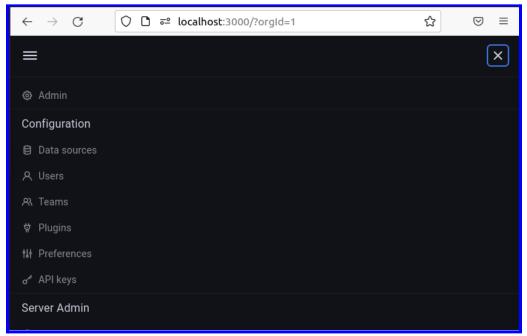
# Changing default password



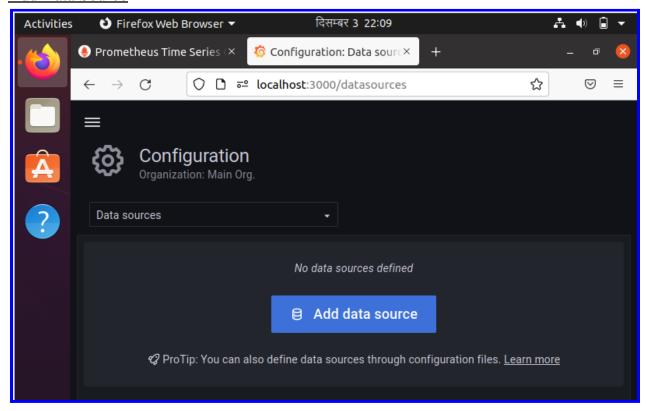
#### Default Welcome page of Grafana



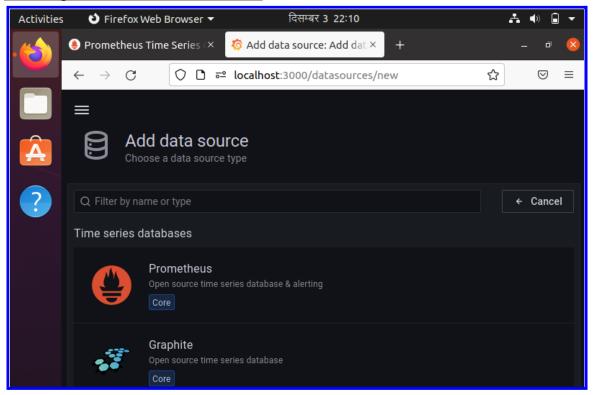
# <u>Adding Datasource Prometheus to Grafana (configuration >> Datasources)</u>



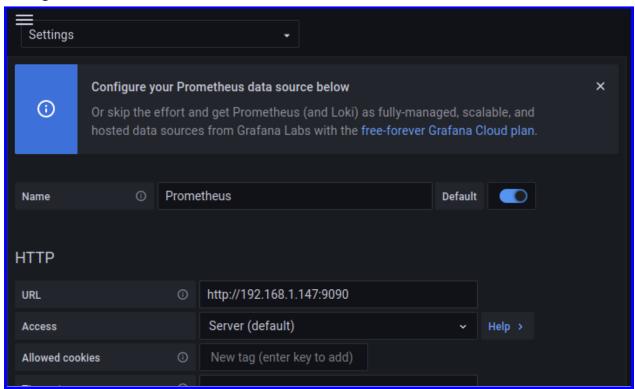
#### Add Data Source



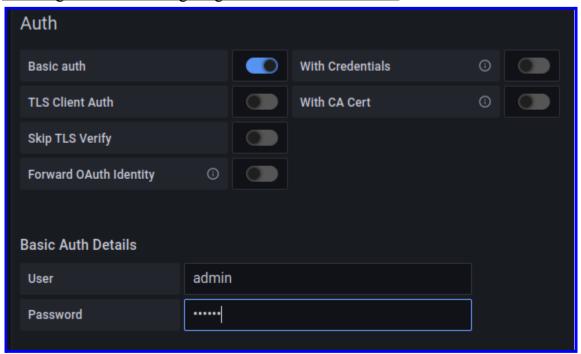
# Selecting Prometheus as Data Source



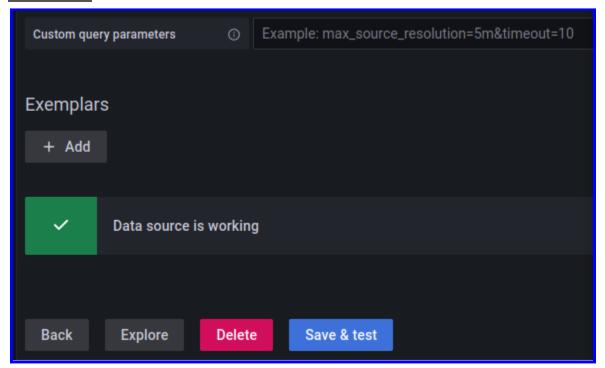
## Giving the URL of Prometheus <IP:Port>



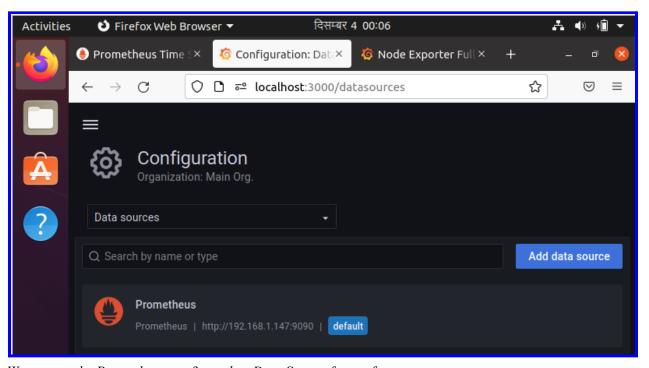
### Enabling Basic Auth and giving user name and Password



## Save & Test

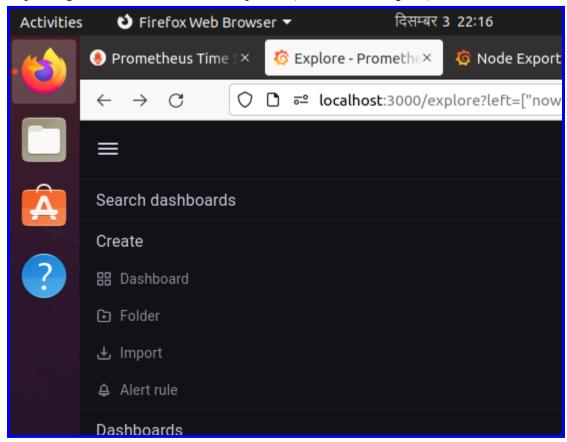


Data Source is working...

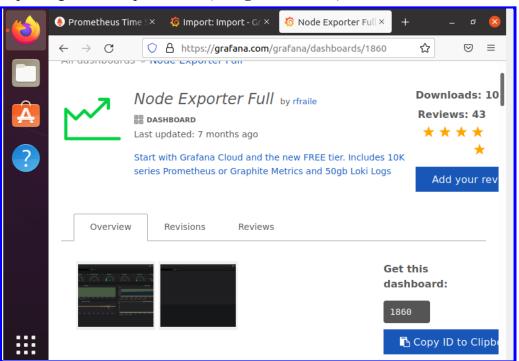


We can see the Prometheus configured as Data Source for grafana

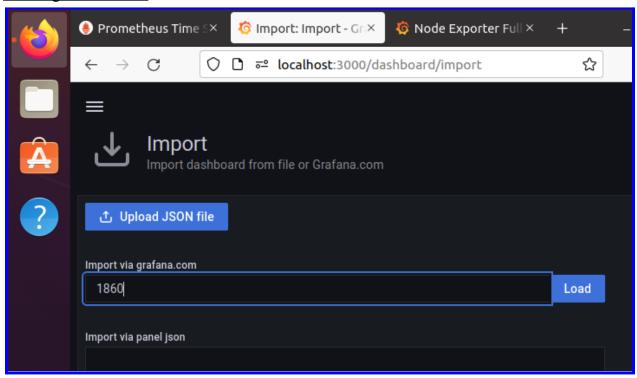
## Importing Dashboard for Node-Exporter (Create >> Import)



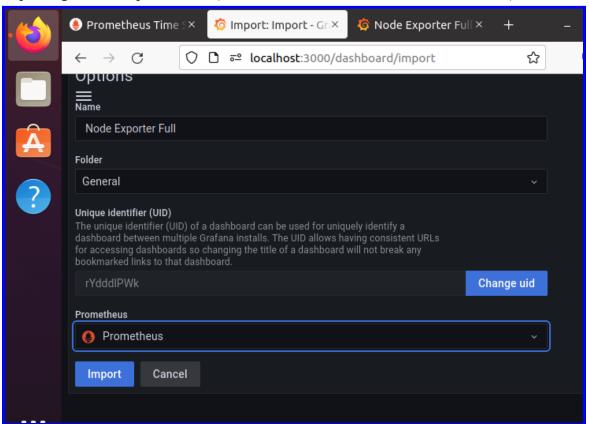
# Importing Node-Exporter full (using its ID 1860)



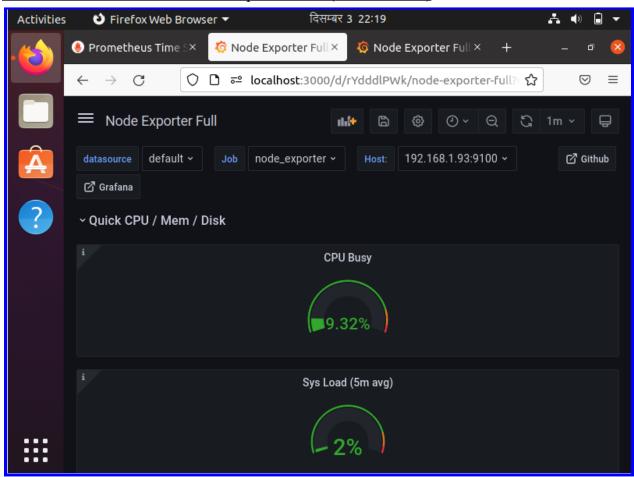
#### Loading the ID 1860



# Importing Node-Exporter Full (Default folder - General, Default UUID)



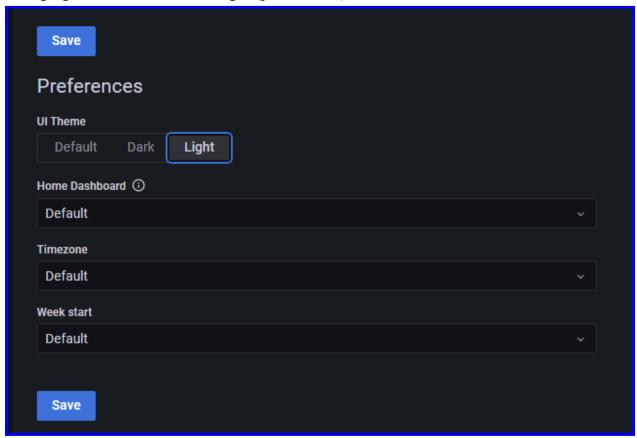
#### We can see the Metrics of Node Exporter Host (192.168.1.93)



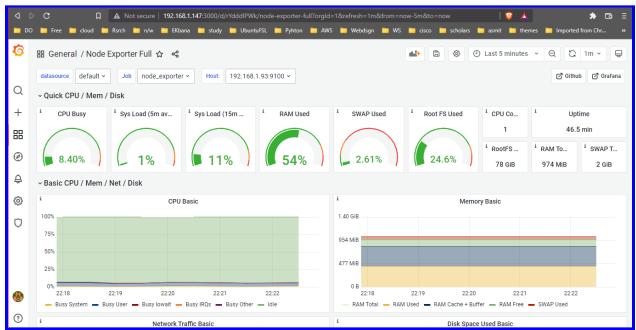
## Metrics opened in Full screen on Windows host Via Host IP



## Changing the theme colour to Light (preferences)



# Screenshots of Metrics we got of the Node-Exporter Host (192.168.1.93)



### **Screenshots**

