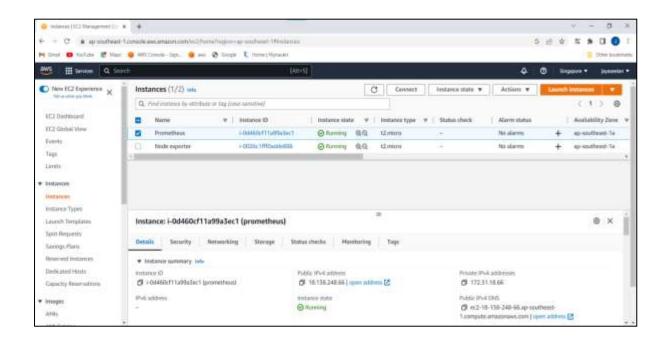
#### **PROMETHEUS**

Prometheus is a monitoring solution for storing time series data like metrics.

### **Steps To Create Prometheus**

#### Step1:create two EC2 Linux Server

2 servr name(prometheus and node exporter)--->security group(all traffic)---->storage(30 gb)---->launch instance

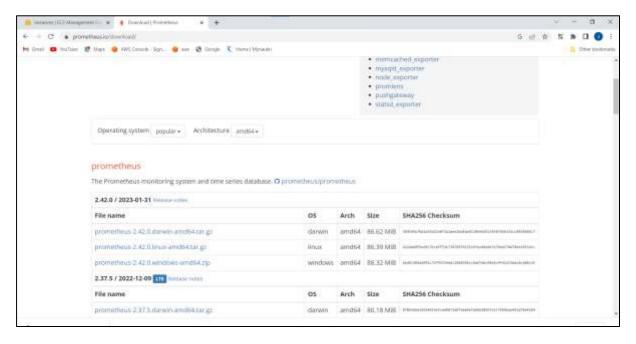


**Step2:**Login Prometheus server and give sudo –i

Wget (Prometheus download link)

Note:how to Prometheus link copy ---->google--->Prometheus.io--->download click --->Prometheus(linux link --->right click copy link address)

 $\label{lem:prometheus/prometheus/releases/download/v2.42.0/prometheus/releases/download/v2.42.0/prometheus-2.42.0.linux-amd64.tar.gz$ 



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Description to the product of the p
```

### Prometheus download in zip formate

### Now unzip

#tar -xvzf prometheus-2.42.0.linux-amd64.tar.gz

```
[root@ip-172-31-18-66 -] # 1s

| root@ip-172-31-18-66 -] # tar -xvzf prometheus-2.42.0.linux-amd64.tar.gz
| prometheus-2.42.0.linux-amd64/NOTICE|
| prometheus-2.42.0.linux-amd64/consoles/|
| prometheus-2.42.0.linux-amd64/consoles/|
| prometheus-2.42.0.linux-amd64/consoles/|
| prometheus-2.42.0.linux-amd64/consoles/|
| prometheus-2.42.0.linux-amd64/consoles/prometheus-overview.html
| prometheus-2.42.0.linux-amd64/consoles/prometheus-overview.html
| prometheus-2.42.0.linux-amd64/consoles/prometheus.html
| prometheus-2.42.0.linux-amd64/consoles/prometheus.html
| prometheus-2.42.0.linux-amd64/consoles/node-overview.html
| prometheus-2.42.0.linux-amd64/consoles/libraries/|
| prometheus-2.42.0.linux-amd64/console_libraries/|
| prometheus-2.42.0.linux-amd64/console_libraries/|
| prometheus-2.42.0.linux-amd64/console_libraries/|
| prometheus-2.42.0.linux-amd64/prometheus.yml
```

Now remove zip file

#rm -rf prometheus-2.42.0.linux-amd64.tar.gz

#cd (unzip file-->Prometheus )

#cd prometheus-2.42.0.linux-amd64

#ls --->shown Prometheus files

Now start Prometheus

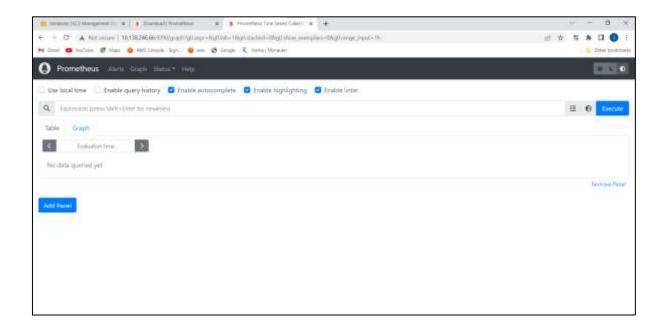
#./prometheus --config.file=prometheus.yml &

```
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```

Prometheus port number ---->9090

Now Prometheus server public ip:9090 --->put chrome --->Prometheus home page open

#### 18.138.248.66:9090

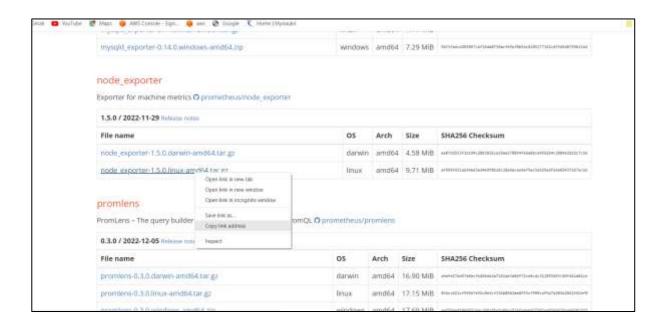


### Step3:Login node exporter server and give sudo -i

Wget (node exporter download link)

Note:how to Prometheus link copy ---->google--->Prometheus.io--->download click --->node exporter(linux link --->right click copy link address)

#wget https://github.com/prometheus/node\_exporter/releases/download/v1.5.0/node\_exporter-1.5.0.linux-amd64.tar.gz



```
Sets and action action
```

Node exporter download in zip formate

Now unzip

```
#tar -xvzf node_exporter-1.5.0.linux-amd64.tar.gz
```

Now remove zip file

```
\#rm - \!rf \ node\_exporter - 1.5.0.linux - amd 64.tar.gz
```

```
#cd (unzip file--> node_exporter )
```

#cd node\_exporter-1.5.0.linux-amd64

#ls --->shown node\_exporter files

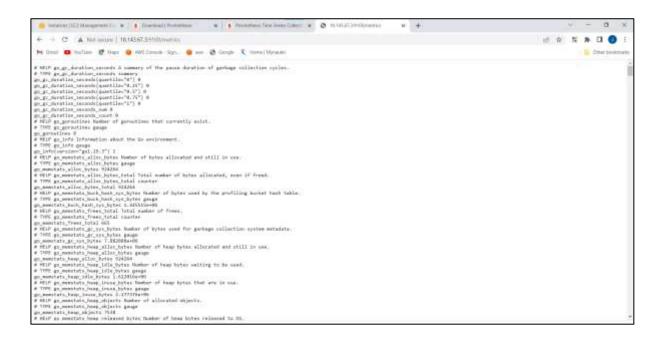
Now start node\_exporter

#./ node\_exporter &

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| Company | Comp
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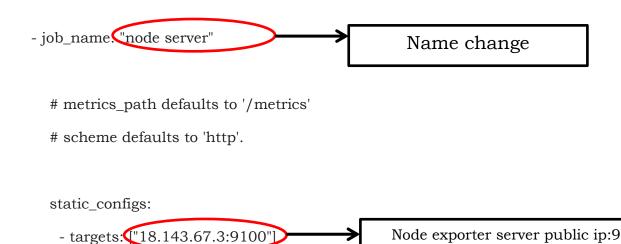
node\_exporter port number ---->9100

Now node\_exporter public ip:9100 --->put chrome --> node\_exporter home page open



**Step4:**configure node exporter server into Prometheus server

Prometheus server --->#vi prometheus.yml

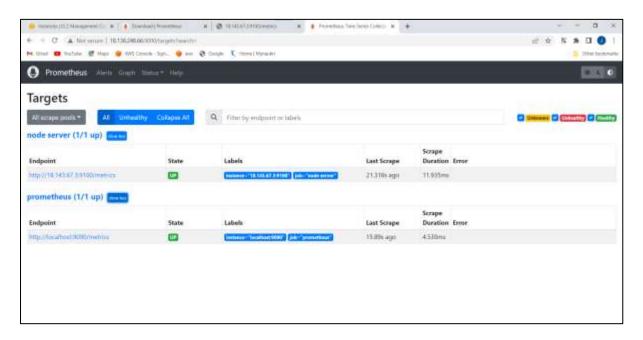


Node exporter server public ip:9100

Now check Prometheus process ip ---># ps -ef | grep Prometheus Kill Prometheus process--->kill -9 (process ip)-->#kill -9 3431

Now again start Prometheus ----->

# ./prometheus --config.file=prometheus.yml &



Prometheus home --->status---->it will shown both Prometheus and node server status

### **GRAFANA**

Grafana allows to visualize the data stored in Prometheus (and other sources).

# Steps To Create Grafana

Step1:login Prometheus server

#cd .. ---->root

#wget grafana linux url

Note:how to grafana linux link copy ---->google--->grafana.com--->download grafana click ---> linux---> Standalone Linux Binaries(64 Bit)--->link copy

wget https://dl.grafana.com/enterprise/release/grafana-enterprise-9.3.6.linux-amd64.tar.gz

```
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```

grafana download in zip formate

Now unzip

#tar -xvzf grafana-enterprise-9.3.6.linux-amd64.tar.gz

Now remove zip file

 $\#rm - \!rf \ grafana - enterprise - 9.3.6.linux - amd 64.tar.gz$ 

#cd (unzip file)--># cd grafana-9.3.6

#ls --->bin

```
| Posting | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16 | 1-16
```

#cd bin

#ls ---> grafana-server

Start grafana ---->#./ grafana-server &

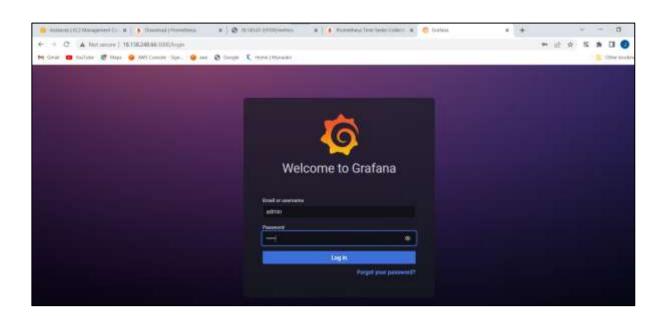
```
grafana-9.3.6/scripts/trigger_docker_build.sh
grafana-9.3.6/scripts/trigger_windows_build.sh
grafana-9.3.6/scripts/trigger_windows_build.sh
grafana-9.3.6/scripts/validate-devenv-dashboards.sh
[root@ip-172-31-18-66 -]# ls
grafana-9.3.6 grafana-enterprise-9.3.6.linux-and64.tar.gz prometheus-2.42.0.linux-and64
[root@ip-172-31-18-66 -]# m -rf grafana-enterprise-9.3.6.linux-and64.tar.gz
[root@ip-172-31-18-66 -]# ls
grafana-9.3.6 prometheus-2.42.0.linux-and64
[root@ip-172-31-18-66 -]# cd grafana-9.3.6
[root@ip-172-31-18-66 grafana-9.3.6]# ls
bin conf LICENSE NOTICE.md plugins-bundled public README.md scripts VERSION
[root@ip-172-31-18-66 bin]# ls
grafana-cli grafana-cli.nd5 grafana-server.md5
[root@ip-172-31-18-66 bin]# ./grafana-server.md5
[root@ip-172-31-18-66 bin]# ./grafana-server.md5
```

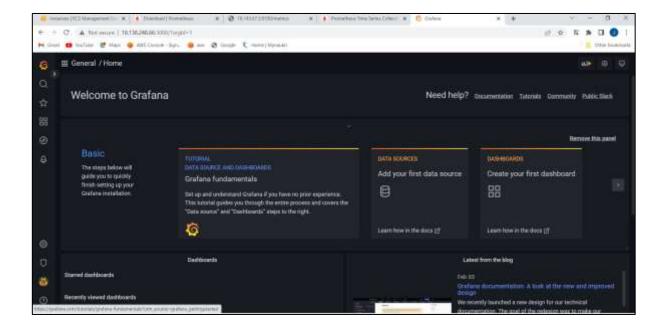
```
| Control of the complete allows | Control of the c
```

# Grafana port number ---->9100

Now prometheus public ip:3000 --->put chrome --> grafana home page open--->login(username & password ---->admin)

Ask to set new password set --->admin

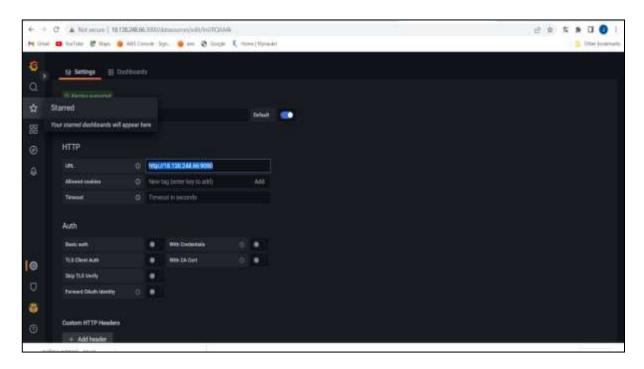


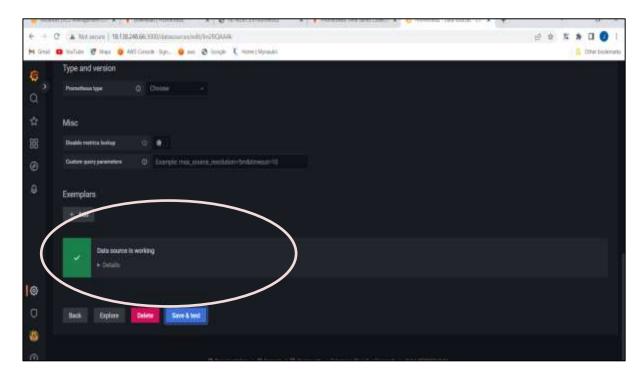


### Now configure Prometheus server

Setting --->data source--->add data source--->Prometheus---->
url---> <a href="http://18.138.248.66:9090">http://18.138.248.66:9090</a> prometheus server public ip

#### save & test

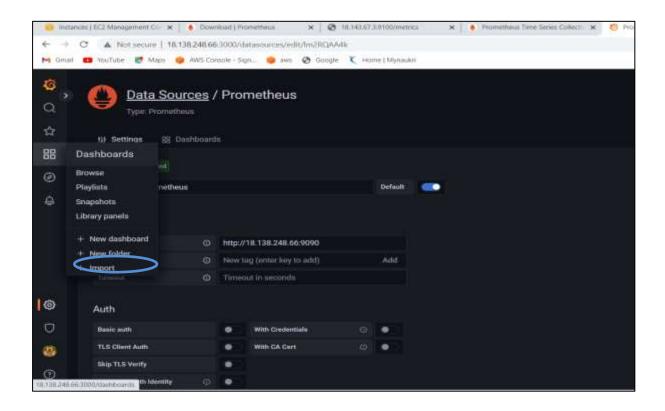




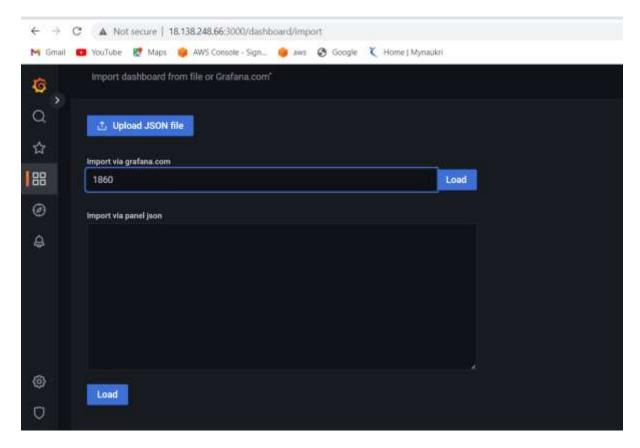
Data source is working..

# Now configure dashboard

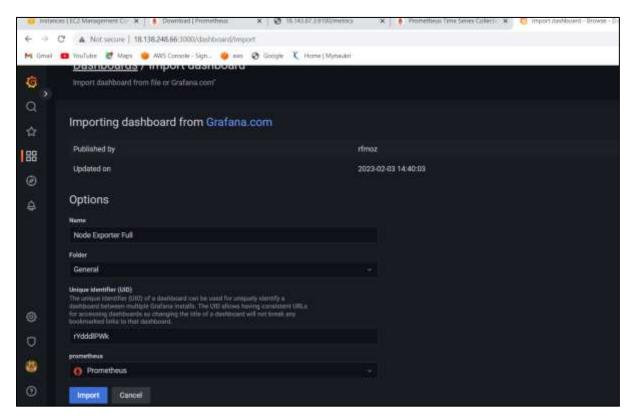
dashboard ---->import--->1860(graph id)--->load--->Prometheus select---->import

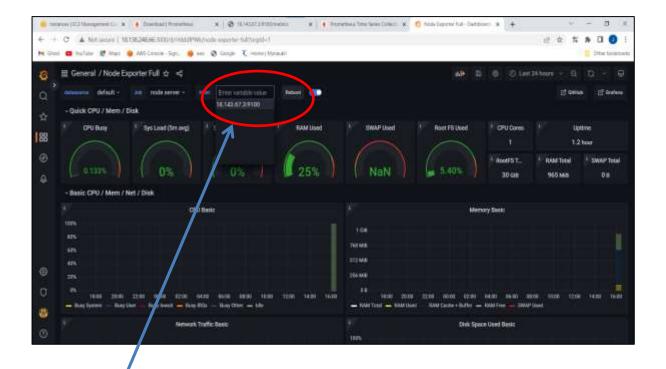


### 1860(graph id)



# Select premetheus and import





Which server is moniter that ip shown