

3.

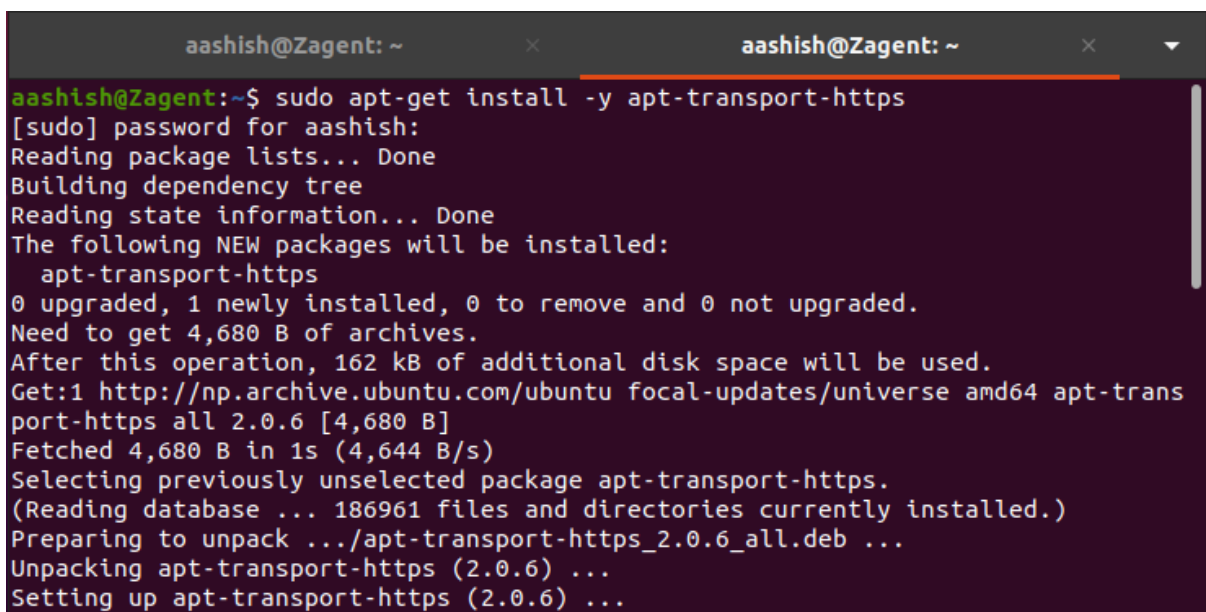
Install grafana server on same server as prometheus

- 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.

Answer:

To install the grafana server, first, we need to install apt-transport-https package as follows;

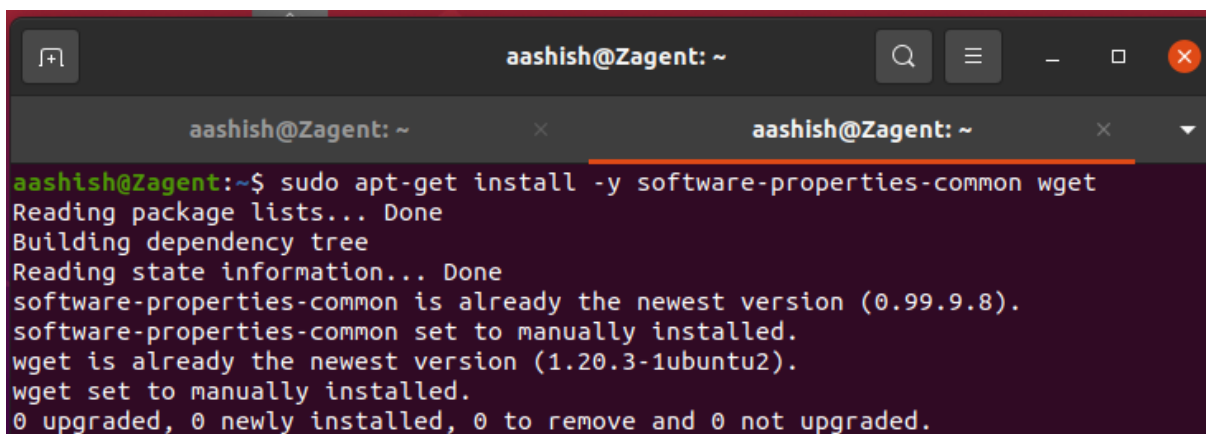
```
- sudo apt-get install -y apt-transport-https
```



```
aashish@Zagent: ~  
aashish@Zagent: ~  
aashish@Zagent:~$ sudo apt-get install -y apt-transport-https  
[sudo] password for aashish:  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  apt-transport-https  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 4,680 B of archives.  
After this operation, 162 kB of additional disk space will be used.  
Get:1 http://np.archive.ubuntu.com/ubuntu focal-updates/universe amd64 apt-transport-https all 2.0.6 [4,680 B]  
Fetched 4,680 B in 1s (4,644 B/s)  
Selecting previously unselected package apt-transport-https.  
(Reading database ... 186961 files and directories currently installed.)  
Preparing to unpack .../apt-transport-https_2.0.6_all.deb ...  
Unpacking apt-transport-https (2.0.6) ...  
Setting up apt-transport-https (2.0.6) ...
```

Next, we install software-properties-common package as follows;

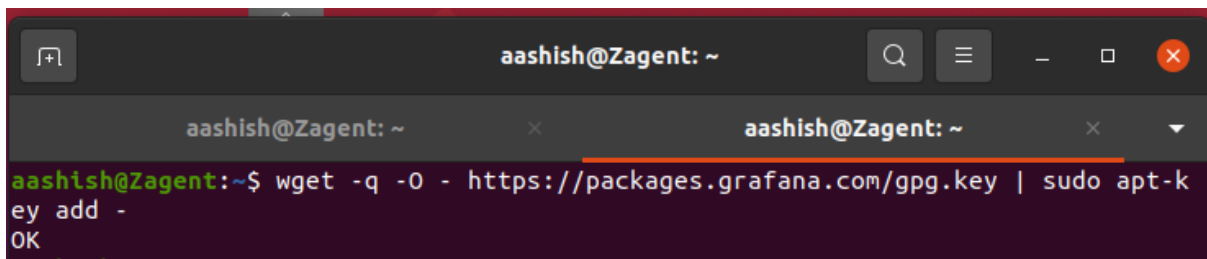
```
- sudo apt-get install -y software-properties-common wget
```



```
aashish@Zagent: ~  
aashish@Zagent: ~  
aashish@Zagent:~$ sudo apt-get install -y software-properties-common wget  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
software-properties-common is already the newest version (0.99.9.8).  
software-properties-common set to manually installed.  
wget is already the newest version (1.20.3-1ubuntu2).  
wget set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
```

Next, we install the public signing key as follows;

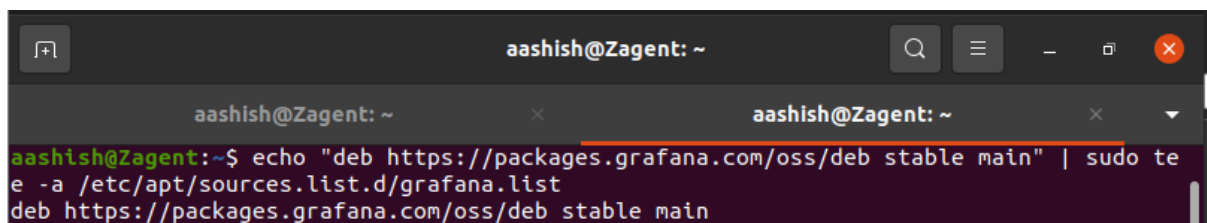
```
- wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
```



```
aashish@Zagent: ~  
aashish@Zagent: ~  
aashish@Zagent:~$ wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -  
OK
```

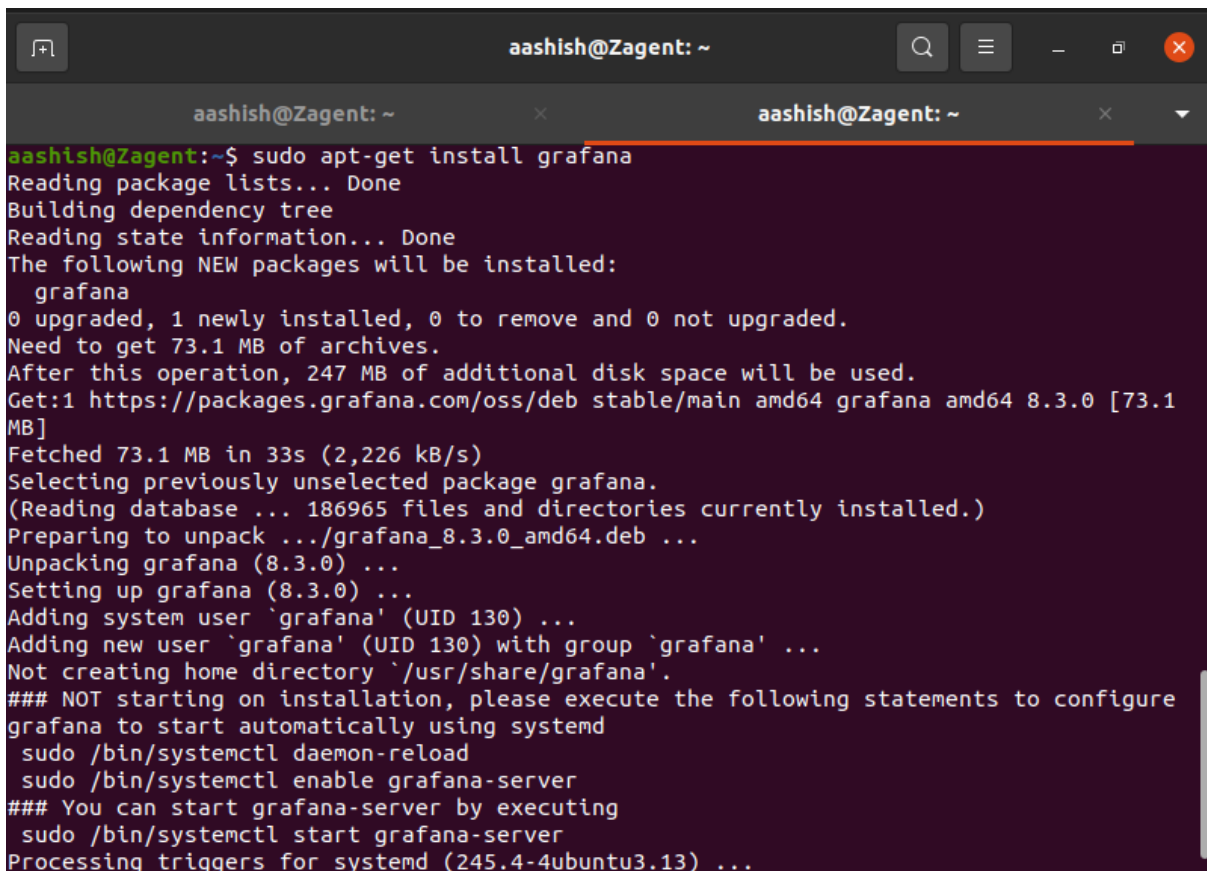
Next, we add the grafana repositories to the custom APT repositories as follows;

```
- echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a /etc/apt/sources.list.d/grafana.list
```



```
aashish@Zagent: ~  
aashish@Zagent: ~  
aashish@Zagent:~$ echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a /etc/apt/sources.list.d/grafana.list  
deb https://packages.grafana.com/oss/deb stable main
```

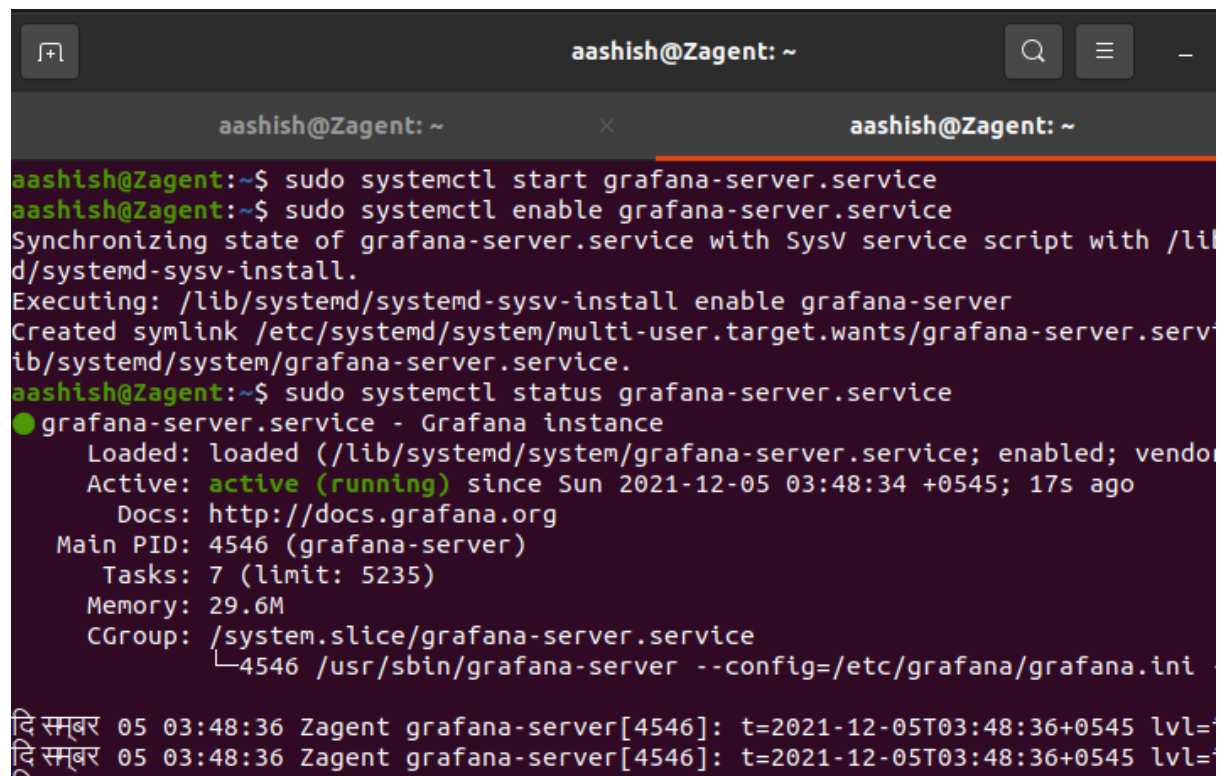
Next, we install **grafana** as follows;



```
aashish@Zagent: ~  
aashish@Zagent: ~  
aashish@Zagent:~$ sudo apt-get install grafana  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following NEW packages will be installed:  
  grafana  
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.  
Need to get 73.1 MB of archives.  
After this operation, 247 MB of additional disk space will be used.  
Get:1 https://packages.grafana.com/oss/deb stable/main amd64 grafana amd64 8.3.0 [73.1 MB]  
Fetched 73.1 MB in 33s (2,226 kB/s)  
Selecting previously unselected package grafana.  
(Reading database ... 186965 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 130) ...  
Adding new user `grafana' (UID 130) with group `grafana' ...  
Not creating home directory `/usr/share/grafana'.  
### NOT starting on installation, please execute the following statements to configure grafana to start automatically using systemd  
  sudo /bin/systemctl daemon-reload  
  sudo /bin/systemctl enable grafana-server  
### You can start grafana-server by executing  
  sudo /bin/systemctl start grafana-server  
Processing triggers for systemd (245.4-4ubuntu3.13) ...
```

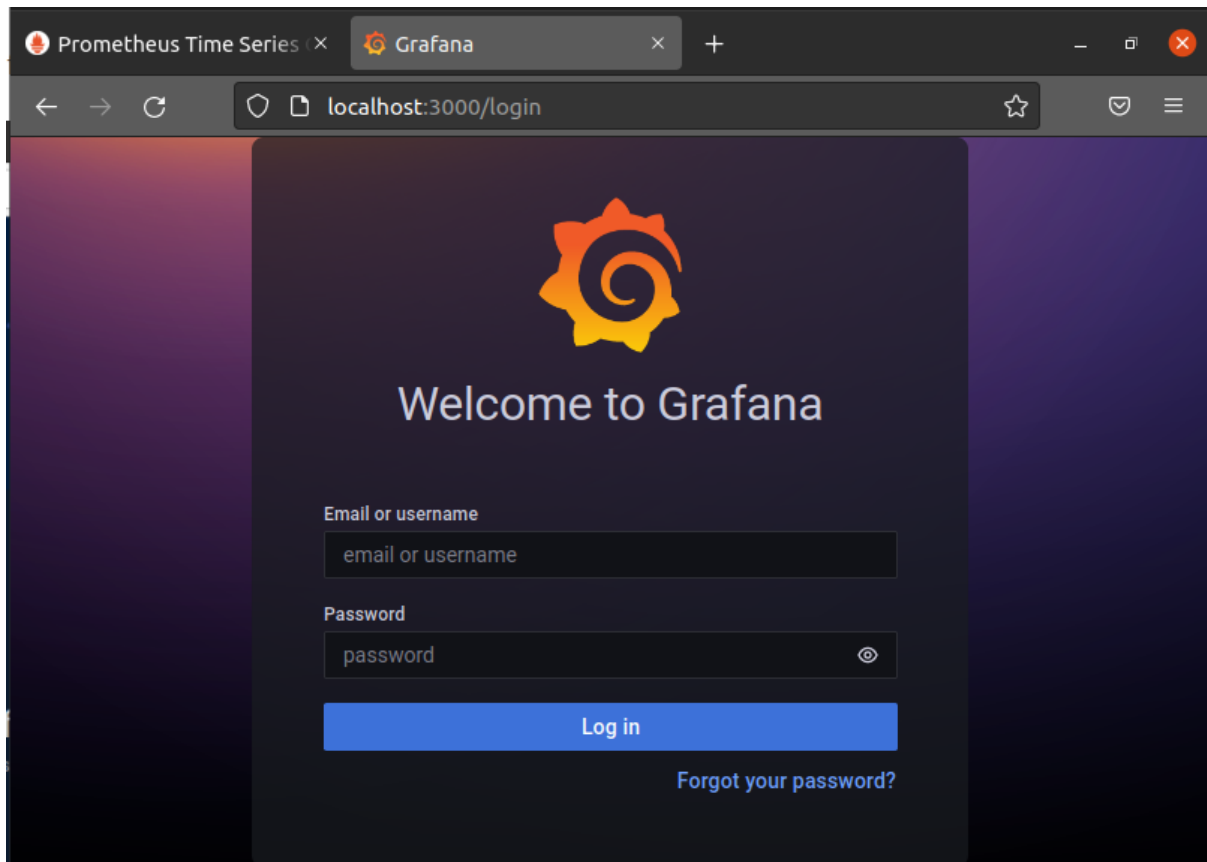
Then, we start, enable and check the status of grafana server as follows;

- **sudo systemctl start grafana-server.service**
- **sudo systemctl enable grafana-server.service**
- **sudo systemctl status grafana-server.service**

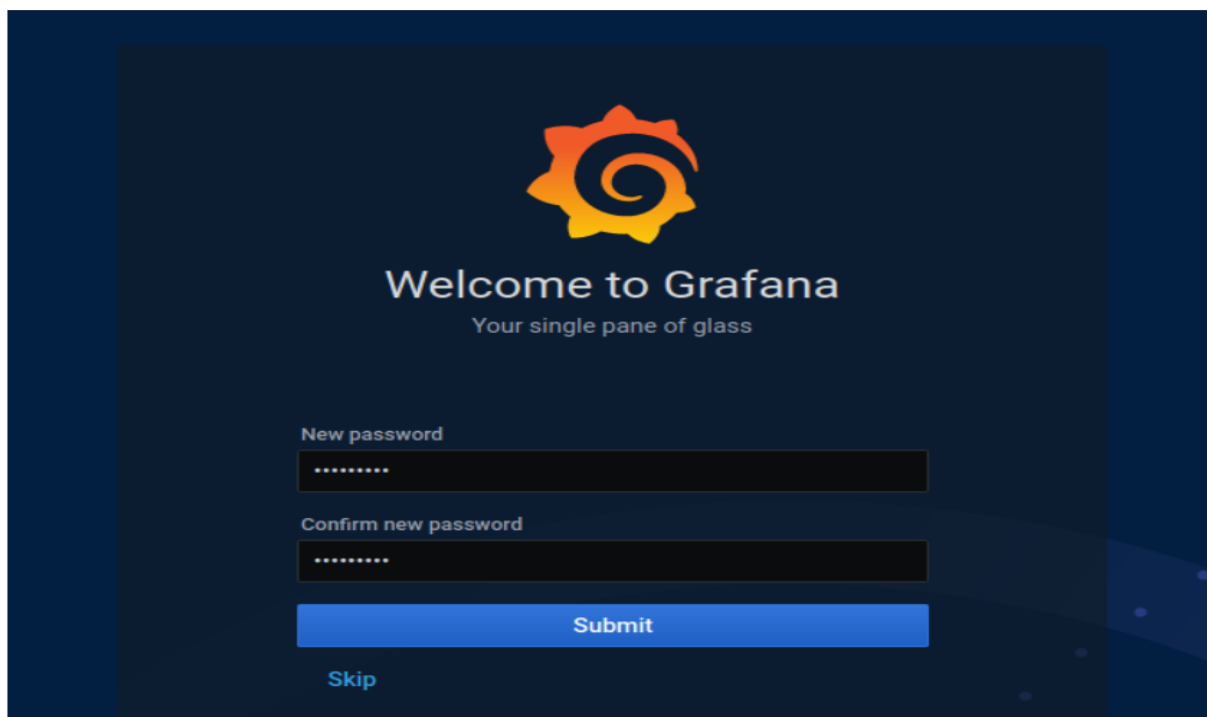


```
aashish@Zagent: ~  
aashish@Zagent: ~  
aashish@Zagent:~$ sudo systemctl start grafana-server.service  
aashish@Zagent:~$ sudo systemctl enable grafana-server.service  
Synchronizing state of grafana-server.service with SysV service script with /lib/systemd/sd-sysv-install.  
Executing: /lib/systemd/systemd-sysv-install enable grafana-server  
Created symlink /etc/systemd/system/multi-user.target.wants/grafana-server.service.  
aashish@Zagent:~$ sudo systemctl status grafana-server.service  
● grafana-server.service - Grafana instance  
   Loaded: loaded (/lib/systemd/system/grafana-server.service; enabled; vendor preset: enabled)  
   Active: active (running) since Sun 2021-12-05 03:48:34 +0545; 17s ago  
     Docs: http://docs.grafana.org  
  Main PID: 4546 (grafana-server)  
    Tasks: 7 (limit: 5235)  
   Memory: 29.6M  
    CGroup: /system.slice/grafana-server.service  
            └─4546 /usr/sbin/grafana-server --config=/etc/grafana/grafana.ini  
दि सप्तर 05 03:48:36 Zagent grafana-server[4546]: t=2021-12-05T03:48:36+0545 lvl=error  
दि सप्तर 05 03:48:36 Zagent grafana-server[4546]: t=2021-12-05T03:48:36+0545 lvl=error
```

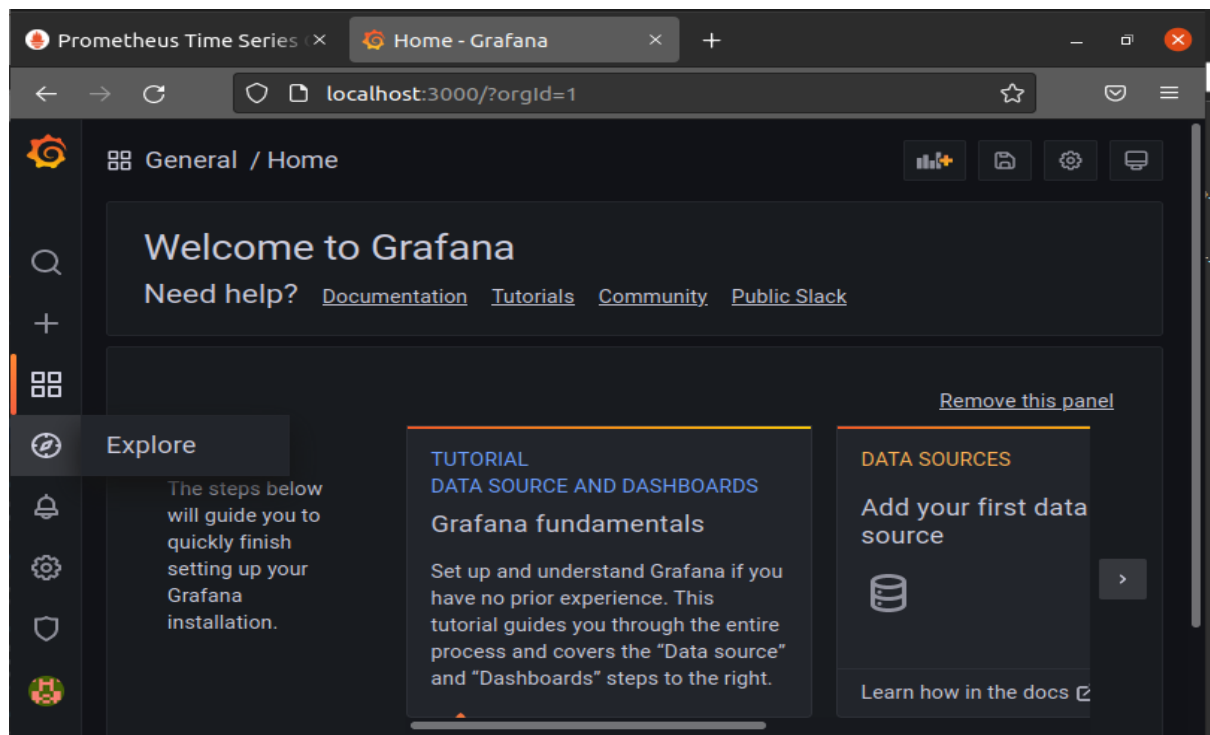
Then, we open the **grafana** via web browser as follows;



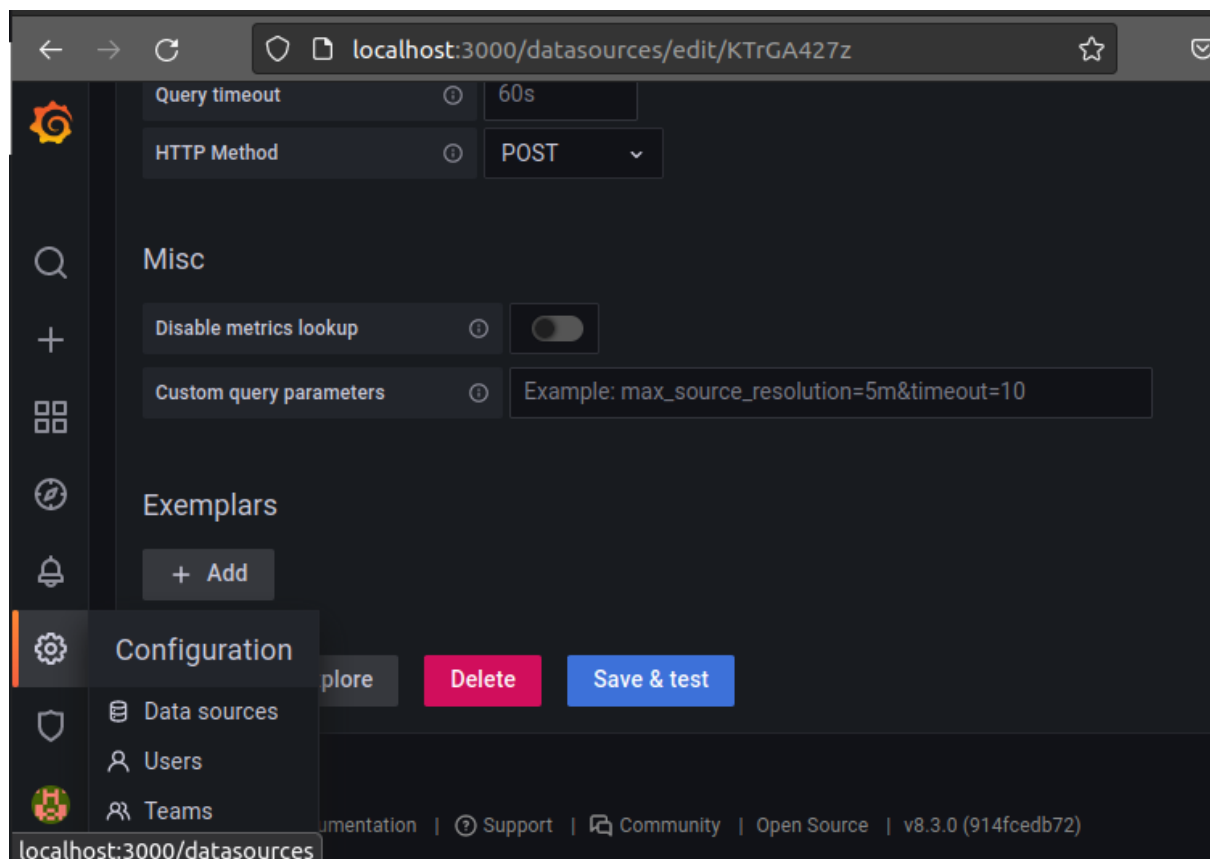
We use default login credentials i.e. username=**admin** and password=**admin**.
Then, we need to set a new password after logging in using the default credentials.



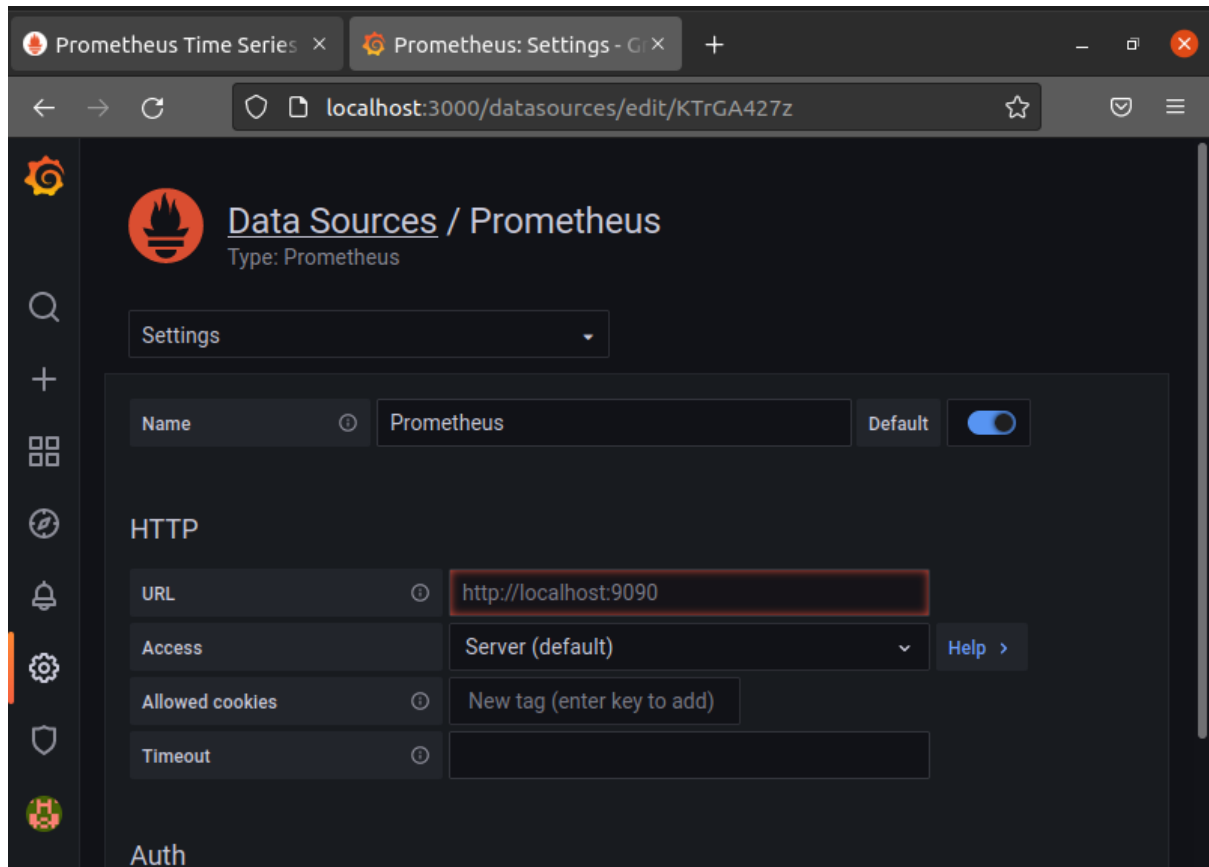
Grafana dashboard accessed successfully.



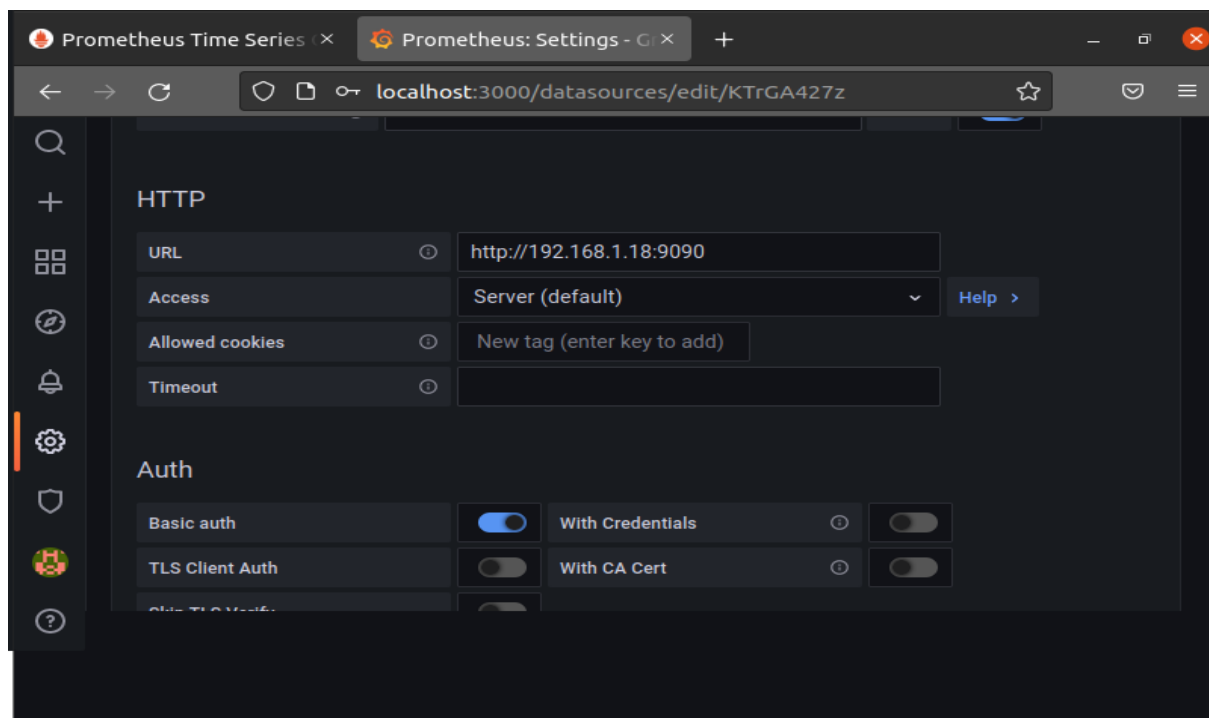
Next, we click on **Configuration -> Data sources** as follows;



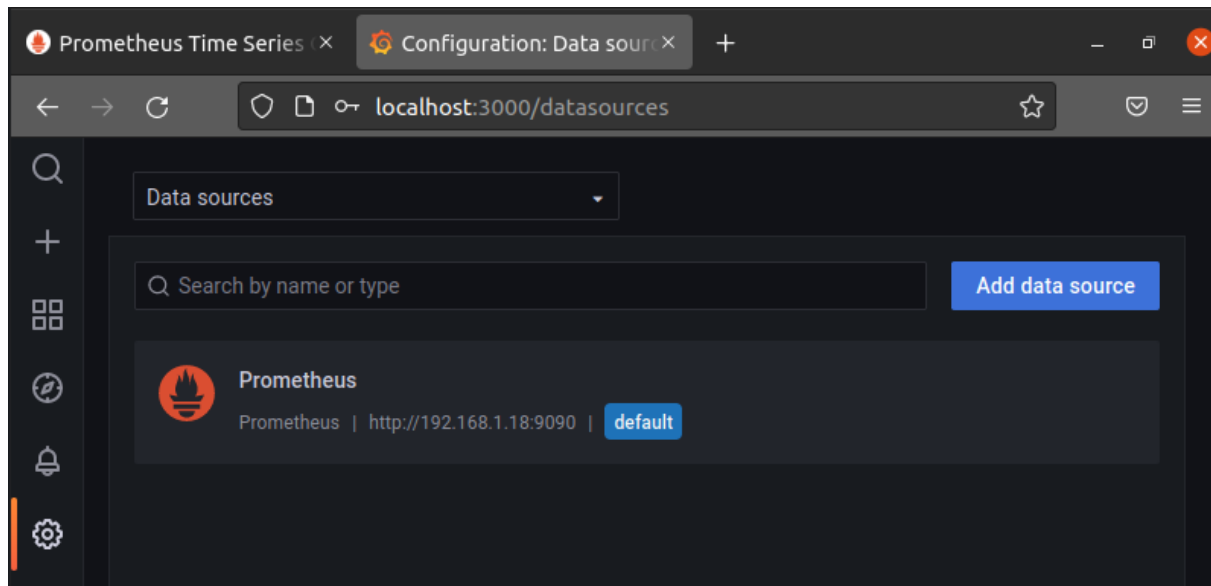
Next, we added prometheus as the data source in grafana data source configuration. Then we set name, URL and basic authentication as follows;



Prometheus configured successfully as data sources in grafana server as follows;




We save it and check the datasource by clicking on **setting -> datasource** as follows;



Now, we import the dashboard from <https://grafana.com/grafana/dashboards/> for **window_exporter** as follows;

All dashboards » Windows Exporter Node



Windows Exporter Node

by [janakverma](#)

DASHBOARD

General stats dashboard with node selector, uses metrics from windows_exporter

Last updated: 6 months ago

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Downloads: 268





Reviews: 0

[Add your review!](#)

Overview

Revisions

Reviews



To use this dashboard you will require Prometheus, windows_exporter as of May 2021.

Link for windows_exporter : https://github.com/prometheus-community/windows_exporter

Get this dashboard:

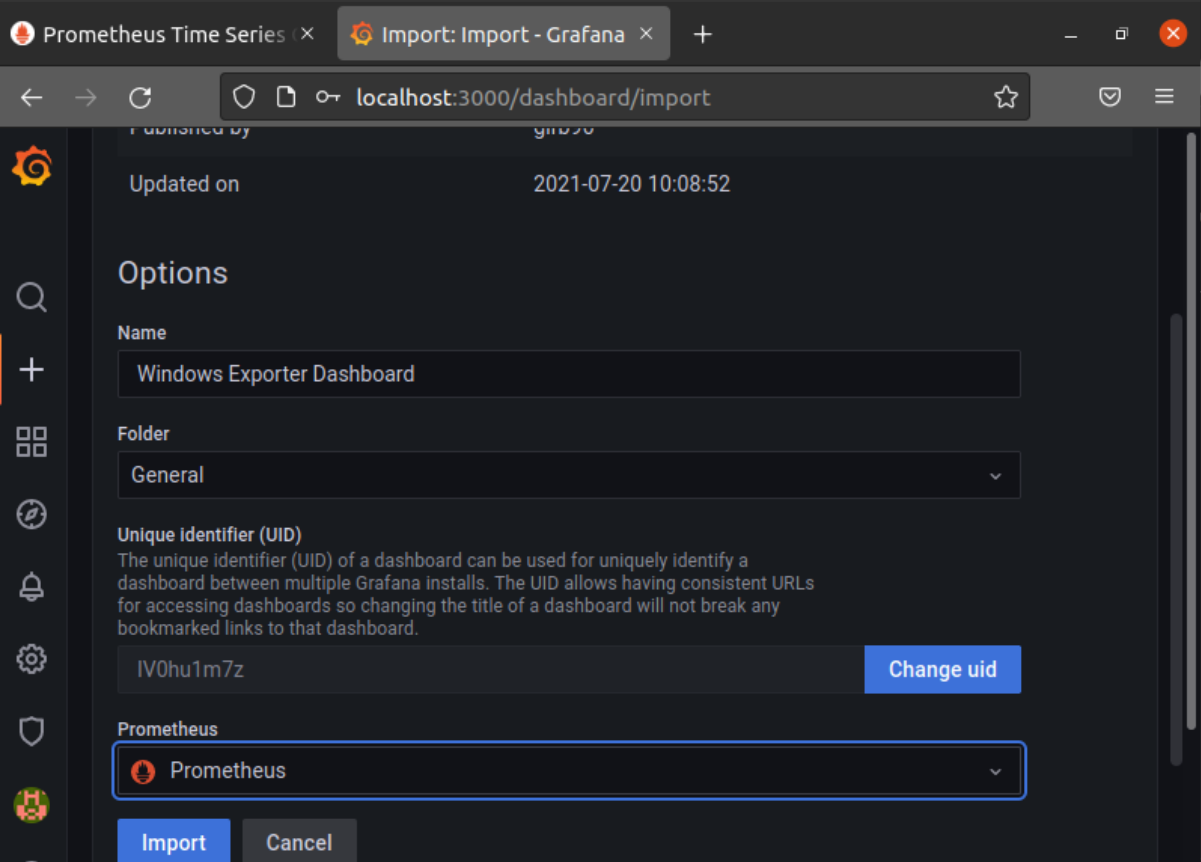
14510

[Copy ID to Clipboard](#)

[Download JSON](#)

[How do I import this dashboard?](#)

The import id is **14510**, so, we enter the import id and click on load button which will redirect to importing dashboard page as follows;



Published by gmsv

Updated on 2021-07-20 10:08:52

Options

Name

Windows Exporter Dashboard

Folder

General

Unique Identifier (UID)
The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard.

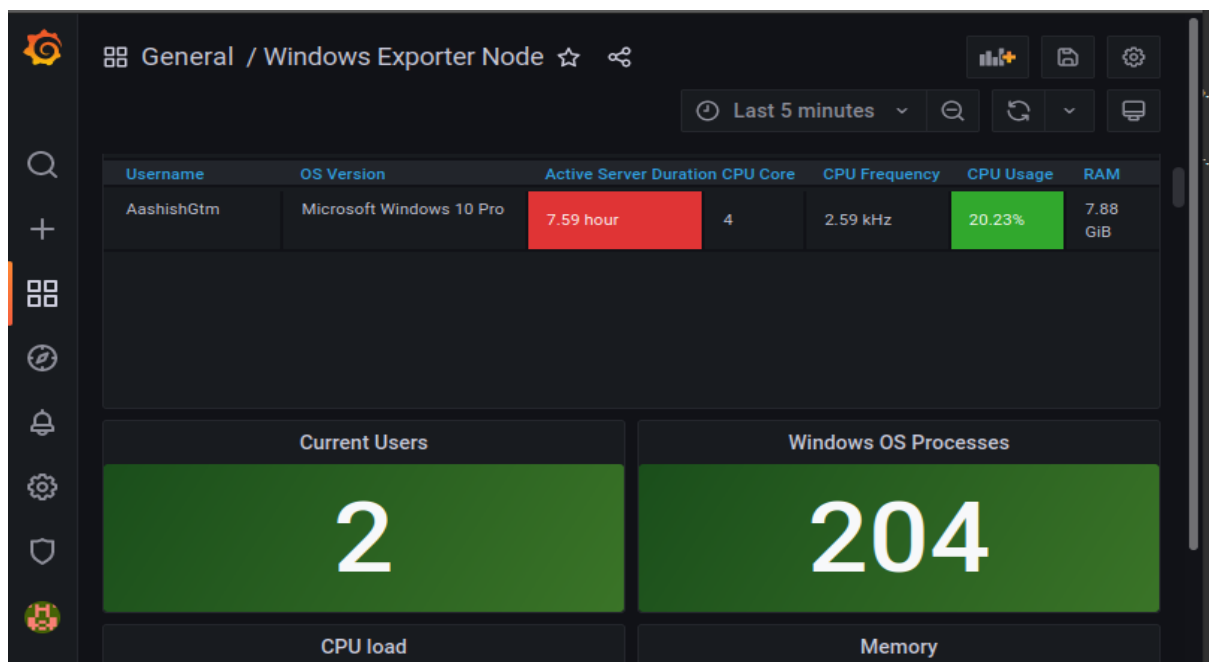
IV0hu1m7z [Change uid](#)

Prometheus

Prometheus

[Import](#) [Cancel](#)

Next, we check the **window_exporter** node dashboard as follows;



Live metrics dashboard of **window_exporter** node;

