

Install grafana on centos 7 :

Launch Terminal and login as root. Launch Terminal and login as root.

Step 1 – Disable SELinux

The first step is to check the SELinux status and disable it if it is enabled.

```
getenforce
```

Modify SELinux configurations as follows:

```
vim /etc/sysconfig/selinux
```

Change SELINUX=enforcing to SELINUX=disabled

Reboot system.

```
reboot
```

There are few methods to install Grafana on RPM-based Linux Distributions like Centos /Fedora. In today's tutorial, we are going to install from Grafana repository.

Step 2 – Installing Grafana via YUM Repository

Create a repo file.

```
vim /etc/yum.repos.d/grafana.repo
```

Add the following contents to file:

```
[grafana]
```

```
name=grafana
```

```
baseurl=https://packages.grafana.com/oss/rpm
```

```
repo_gpgcheck=1
```

```
enabled=1
```

```
gpgcheck=1
```

```
gpgkey=https://packages.grafana.com/gpg.key
```

```
sslverify=1
```

```
sslcacert=/etc/pki/tls/certs/ca-bundle.crt
```

Step 3 – Install Grafana

Enter the following command:

```
sudo yum install grafana
```

```
[root@localhost yum.repos.d]# yum install grafana
Loaded plugins: fastestmirror
base                                     | 3.6 kB  00:00:00
extras                                 | 3.4 kB  00:00:00
grafana/signature                      | 488 B  00:00:00
Retrieving key from https://packages.grafana.com/gpg.key
Importing GPG key 8x24098CB6:
  Userid   : "Grafana <info@grafana.com>"
  Fingerprint: 4e40 ddf6 d76e 284a 4a67 88e4 8c8c 34c5 2409 8cb6
  From      : https://packages.grafana.com/gpg.key
Is this ok [y/N]: Y
grafana/signature                      | 2.9 kB  00:00:32 !!!
updates                               | 3.4 kB  00:00:00
(1/3): extras//x86_64/primary.db       | 180 kB  00:00:00
(2/3): updates//x86_64/primary.db     | 2.4 MB  00:00:01
(3/3): grafana/primary.db              | 28 kB  00:00:01
Loading mirror speeds from cached hostfile
 * base: centos.excellmedia.net
 * extras: centos.excellmedia.net
 * updates: centos.excellmedia.net
Resolving Dependencies
--> Running transaction check
--> Package grafana.x86_64 0:6.0-1 will be installed
--> Processing Dependency: freetype = 2.8-7 for package: fontconfig-2.13.0-4.3.el7.x86_64
--> Processing Dependency: urw-fonts for package: grafana-6.0-1.x86_64
--> Running transaction check
--> Package fontconfig.x86_64 0:2.13.0-4.3.el7 will be installed
--> Processing Dependency: fontpackages-filesystem for package: fontconfig-2.13.0-4.3.el7.x86_64
--> Processing Dependency: dejavu-sans-fonts for package: fontconfig-2.13.0-4.3.el7.x86_64
--> Package urw-fonts.noarch 0:2.4-16.el7 will be installed
--> Processing Dependency: xorg-x11-font-utils for package: urw-fonts-2.4-16.el7.noarch
--> Running transaction check
--> Package dejavu-sans-fonts.noarch 0:2.33-6.el7 will be installed
--> Processing Dependency: dejavu-fonts-common = 2.33-6.el7 for package: dejavu-sans-fonts-2.33-6.el7.noarch
--> Package fontpackages-filesystem.noarch 0:1.44-8.el7 will be installed
--> Package freetype.x86_64 0:2.4.11-12.el7 will be updated
--> Package freetype.x86_64 0:2.8-12.el7 6.1 will be an update
--> Processing Dependency: libpng15.so.15(PW015 0)(64bit) for package: freetype-2.8-12.el7 6.1.x86_64
--> Processing Dependency: libpng15.so.15()(64bit) for package: freetype-2.8-12.el7 6.1.x86_64
--> Package xorg-x11-font-utils.x86_64 1:7.5-21.el7 will be installed
--> Processing Dependency: libfontenc-1.1.3-3.el7 for package: 1:xorg-x11-font-utils-7.5-21.el7.x86_64
--> Running transaction check
--> Package dejavu-fonts-common.noarch 0:2.33-6.el7 will be installed
--> Package libfontenc.x86_64 0:1.1.3-3.el7 will be installed
--> Package libpng.x86_64 2:1.5.13-7.el7_2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================================================
Package Arch Version Repository Size
=====================================================================================================================================
Installing:
grafana x86_64 6.0-1 grafana 53 M
Installing for dependencies:
dejavu-fonts-common noarch 2.33-6.el7 base 64 k
dejavu-sans-fonts noarch 2.33-6.el7 base 380 k
fontconfig x86_64 2.13.0-4.3.el7 base 59 M
fontpackages-filesystem noarch 1.44-8.el7 base 9.9 k
(6/10): dejavu-sans-fonts-2.33-6.el7.noarch.rpm | 1.4 MB 00:00:00
(7/10): xorg-x11-font-utils-7.5-21.el7.x86_64.rpm | 104 kB 00:00:00
(8/10): urw-fonts-2.4-16.el7.noarch.rpm | 3.0 MB 00:00:00
(9/10): freetype-2.8-12.el7 6.1.x86_64.rpm | 380 kB 00:00:00
warning: /var/cache/yum/x86_64/7/grafana/packages/grafana-6.0-1.x86_64.rpm: Header V4 RSA/SHA1 Signature, key ID 24098cb6: NOKEY===== | 4.7 MB/s | 59 MB 00:00:00 ETA
Public key for grafana-6.0-1.x86_64.rpm is not installed
(10/10): grafana-6.0-1.x86_64.rpm | 53 MB 00:00:15
-----
Total | 3.6 MB/s | 59 MB 00:00:16
Retrieving key from https://packages.grafana.com/gpg.key
Importing GPG key 8x24098CB6:
  Userid   : "Grafana <info@grafana.com>"
  Fingerprint: 4e40 ddf6 d76e 284a 4a67 88e4 8c8c 34c5 2409 8cb6
  From      : https://packages.grafana.com/gpg.key
Is this ok [y/N]: Y
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : fontpackages-filesystem-1.44-8.el7.noarch 1/11
  Installing : dejavu-fonts-common-2.33-6.el7.noarch 2/11
  Installing : dejavu-sans-fonts-2.33-6.el7.noarch 3/11
  Installing : libfontenc-1.1.3-3.el7.x86_64 4/11
  Installing : 2:libpng-1.5.13-7.el7_2.x86_64 5/11
  Updating : freetype-2.8-12.el7 6.1.x86_64 6/11
  Installing : fontconfig-2.13.0-4.3.el7.x86_64 7/11
  Installing : 1:xorg-x11-font-utils-7.5-21.el7.x86_64 8/11
  Installing : urw-fonts-2.4-16.el7.noarch 9/11
  Installing : grafana-6.0-1.x86_64 10/11
*** 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.service
*** You can start grafana-server by executing
sudo /bin/systemctl start grafana-server.service
Cleanup : freetype-2.4.11-12.el7.x86_64 11/11
POSTTRANS: Running script
  Verifying : urw-fonts-2.4-16.el7.noarch 1/11
  Verifying : fontconfig-2.13.0-4.3.el7.x86_64 2/11
  Verifying : 1:xorg-x11-font-utils-7.5-21.el7.x86_64 3/11
  Verifying : dejavu-fonts-common-2.33-6.el7.noarch 4/11
  Verifying : dejavu-sans-fonts-2.33-6.el7.noarch 5/11
  Verifying : freetype-2.8-12.el7 6.1.x86_64 6/11
  Verifying : grafana-6.0-1.x86_64 7/11
  Verifying : 2:libpng-1.5.13-7.el7_2.x86_64 8/11
  Verifying : libfontenc-1.1.3-3.el7.x86_64 9/11
  Verifying : fontpackages-filesystem-1.44-8.el7.noarch 10/11
  Verifying : freetype-2.4.11-12.el7.x86_64 11/11
Installed:
grafana.x86_64 0:6.0-1
Dependency Installed:
dejavu-fonts-common.noarch 0:2.33-6.el7 dejavu-sans-fonts.noarch 0:2.33-6.el7 fontconfig.x86_64 0:2.13.0-4.3.el7 fontpackages-filesystem.noarch 0:1.44-8.el7 libfontenc.x86_64 0:1.1.3-3.el7 libpng.x86_64 2:1.5.13-7.el7_2
urw-fonts.noarch 0:2.4-16.el7 xorg-x11-font-utils.x86_64 1:7.5-21.el7
Dependency Updated:
freetype.x86_64 0:2.8-12.el7 6.1
Complete!
[root@localhost yum.repos.d]#
```

The Package does the following things:

- Installs binary to /usr/sbin/grafana-server
- Copies init.d script to /etc/init.d/grafana-server
- Installs default file to /etc/sysconfig/grafana-server
- Copies configuration file to /etc/grafana/grafana.ini
- Installs systemd service (if systemd is available) name grafana-server.service
- The default configuration uses a log file at /var/log/grafana/grafana.log

Step 4 – Install additional font packages

Continue with following commands to install the free type and urw fonts.

```
yum install fontconfig
```

```
yum install freetype*
```

```
yum install urw-fonts
```

Step 5 – Enable Grafana Service

Check the status of the service.

```
systemctl status grafana-server
```

If service is not active, start it using the following command:

```
systemctl start grafana-server
```

Enable Grafana service on system boot

```
systemctl enable grafana-server.service
```

Step 6 – Modify Firewall

Change firewall configuration to allow Grafana port. So run following command.

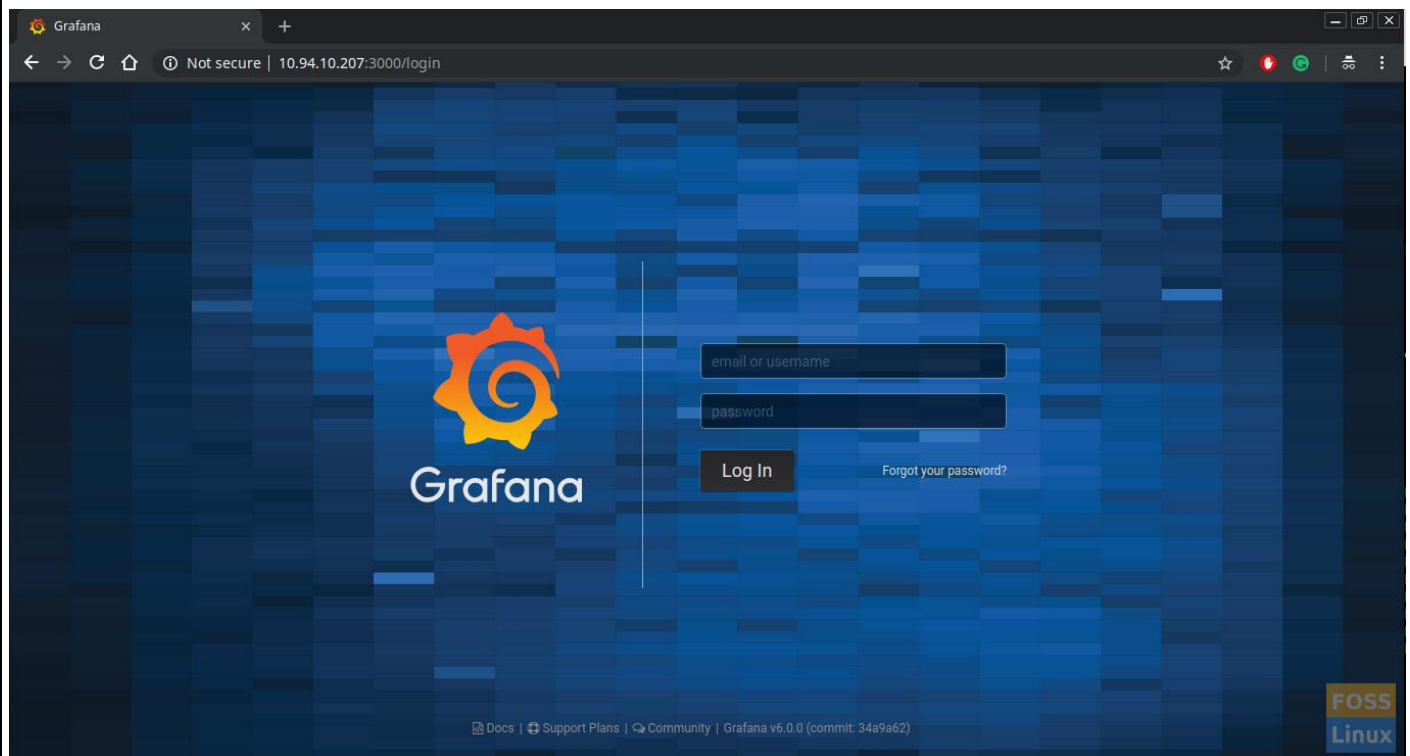
```
firewall-cmd --zone=public --add-port=3000/tcp --permanent
```

Reload firewall service.

```
firewall-cmd --reload
```

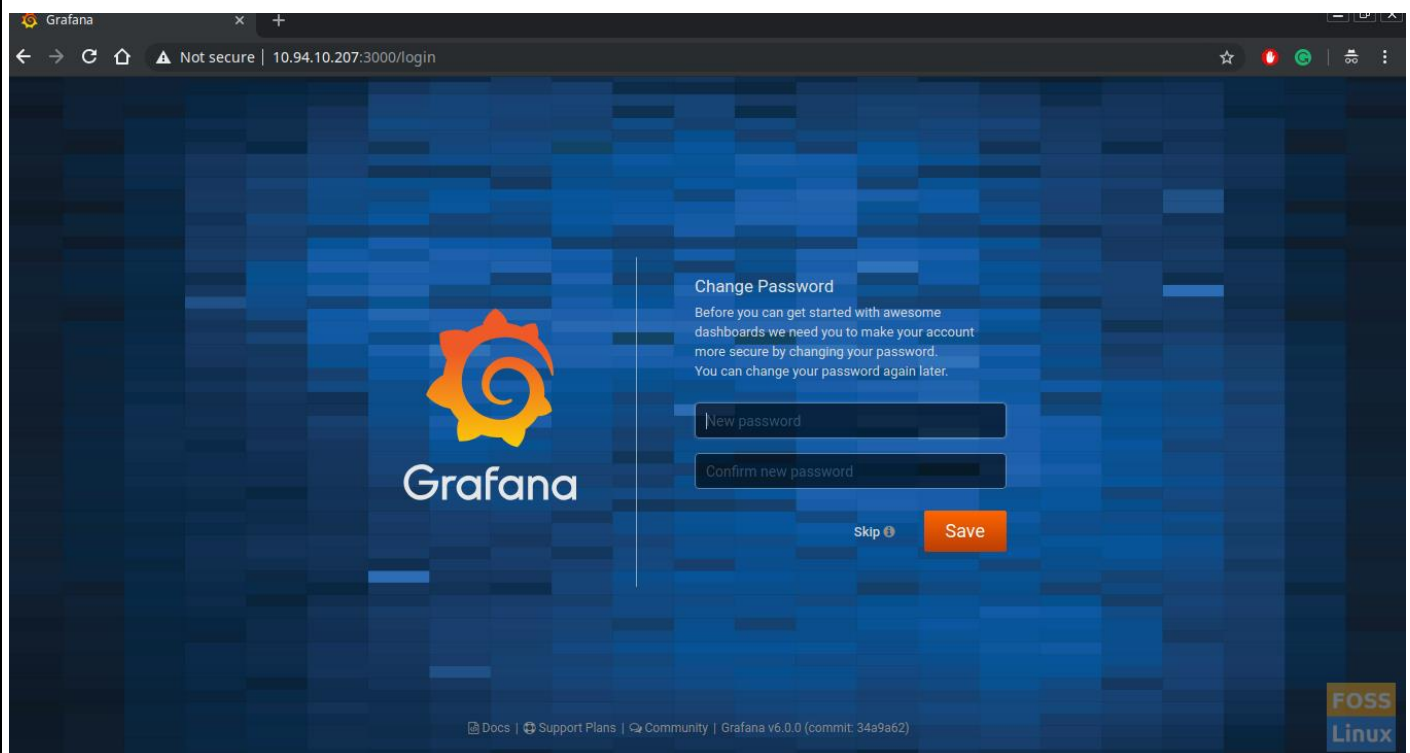
Step 7 – Browse Grafana

Use the following URL to access the Grafana web interface.

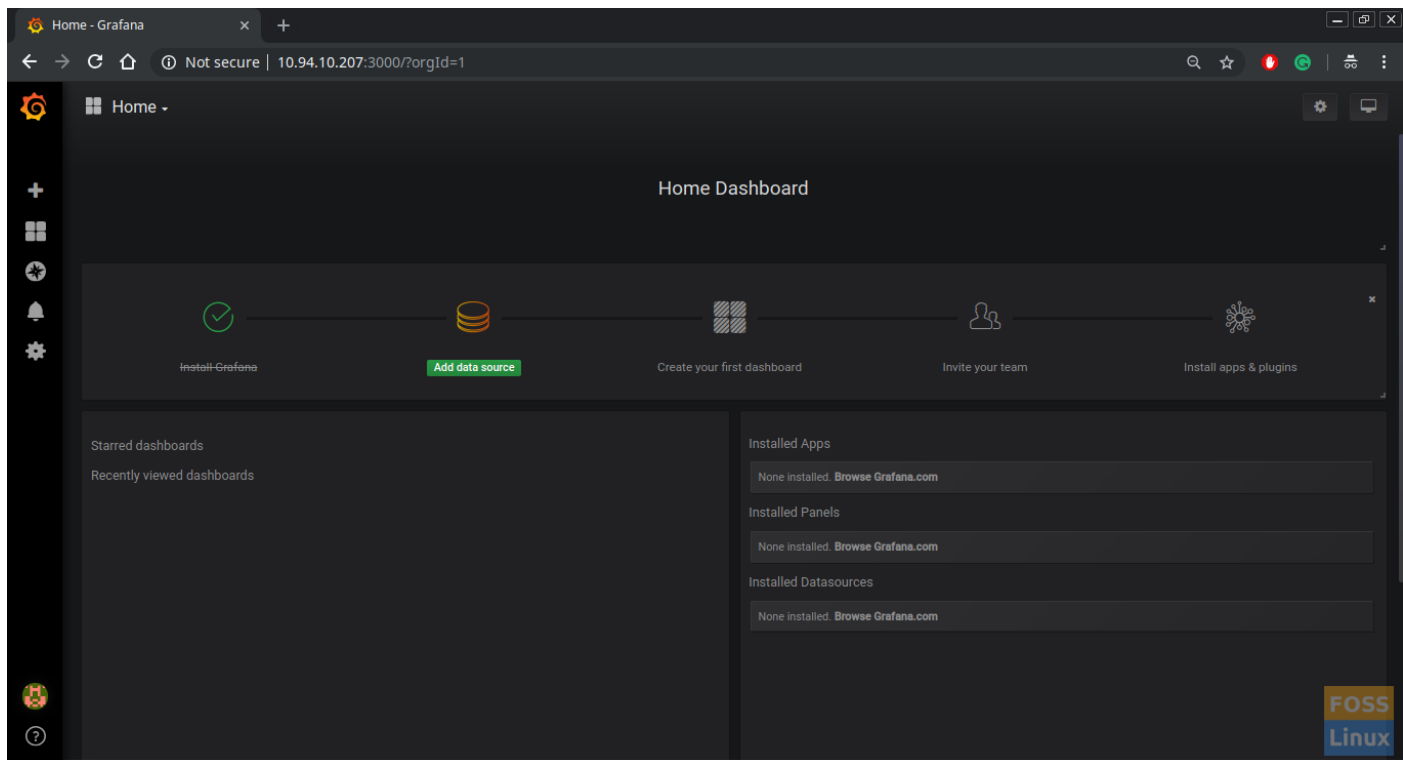


`http://Your Server IP or Host Name:3000/`

Enter “admin” in the login and password fields for first-time use; then it should ask you to change the password.



It should redirect to the Dashboard.



In the previous article, we learned [how to install Zabbix](#). So here we are going to add Zabbix Plugin to Grafana.

Step 8 – Install Plugins

To Install Zabbix plugin run following command:

```
grafana-cli plugins install alexanderzobninin-zabbix-app
```

Default plugin installation directory is /var/lib/grafana/plugins. Restart Grafana Service.

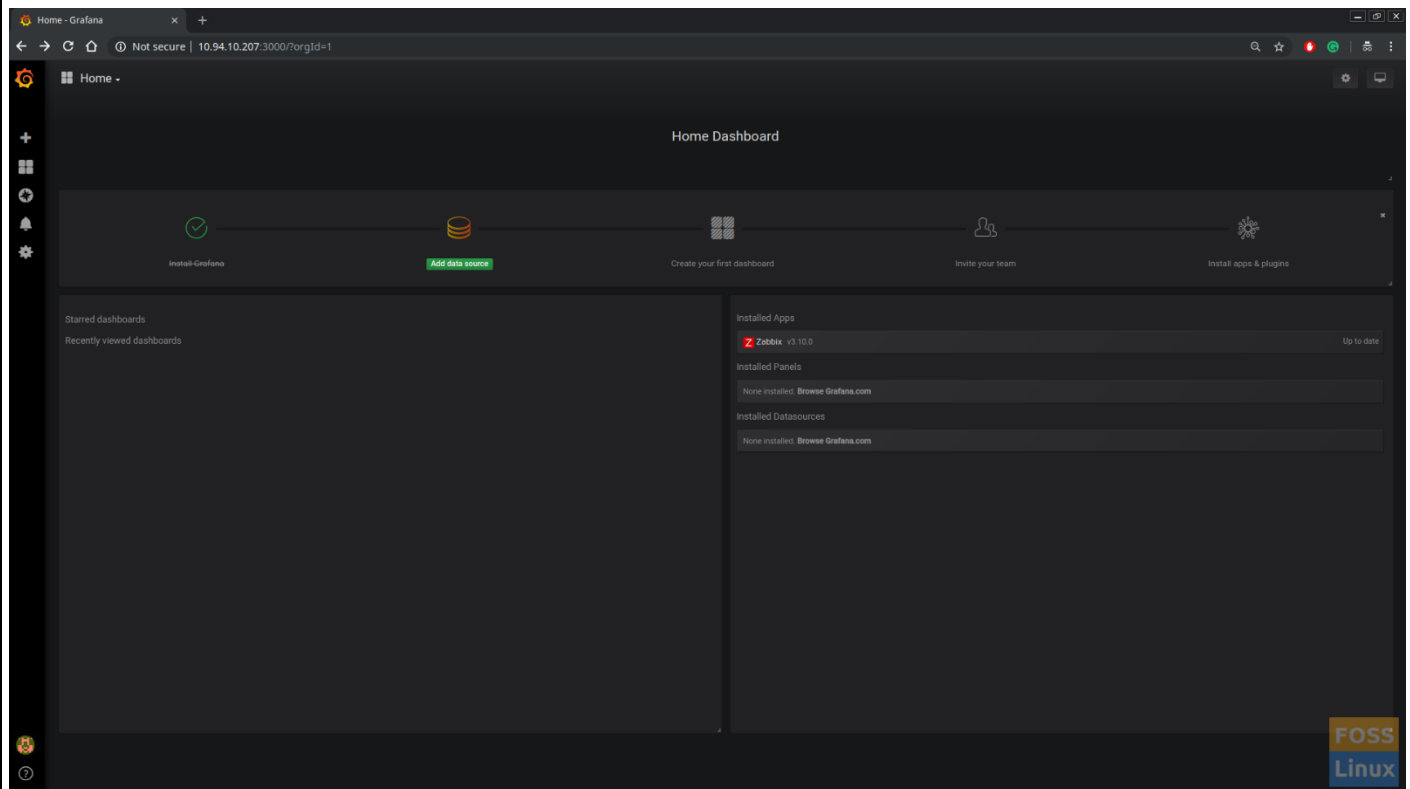
```
systemctl restart grafana-server
```

Refresh Grafana Dashboard to see Zabbix plugin. Click “Enable Now.”

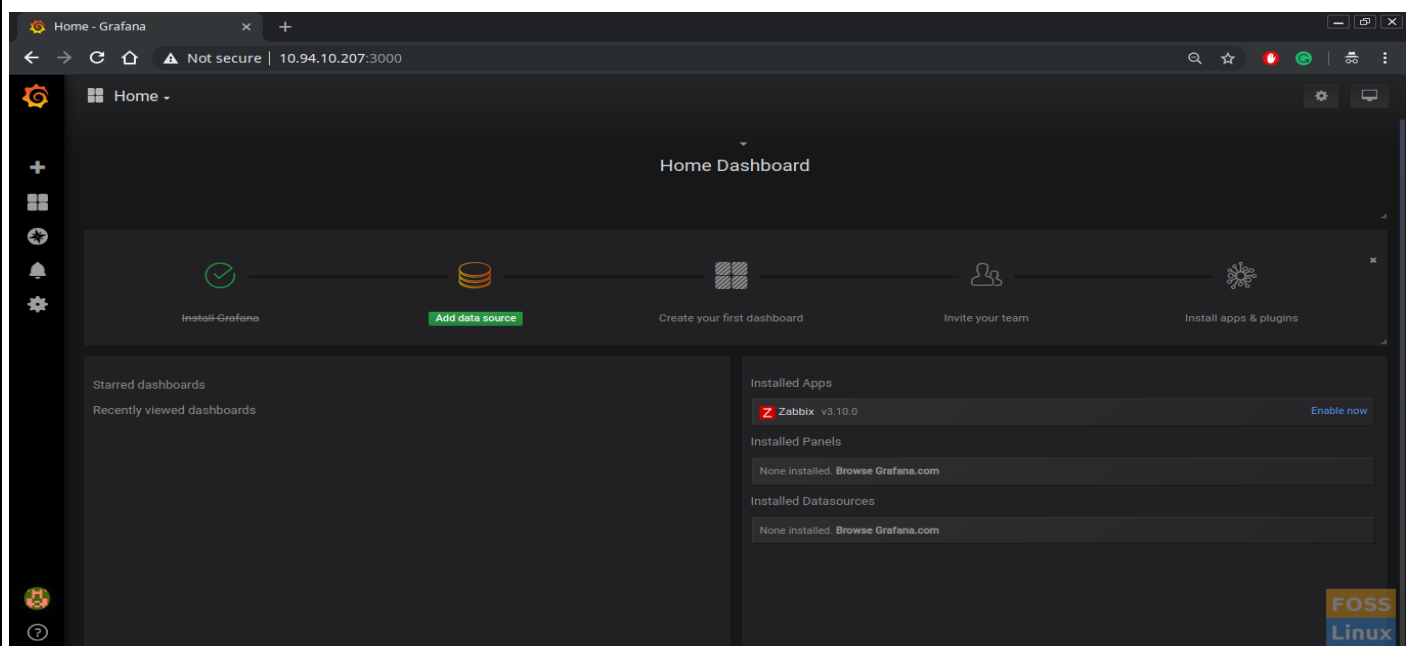
The dashboard should show that the Zabbix plugin is up to date.

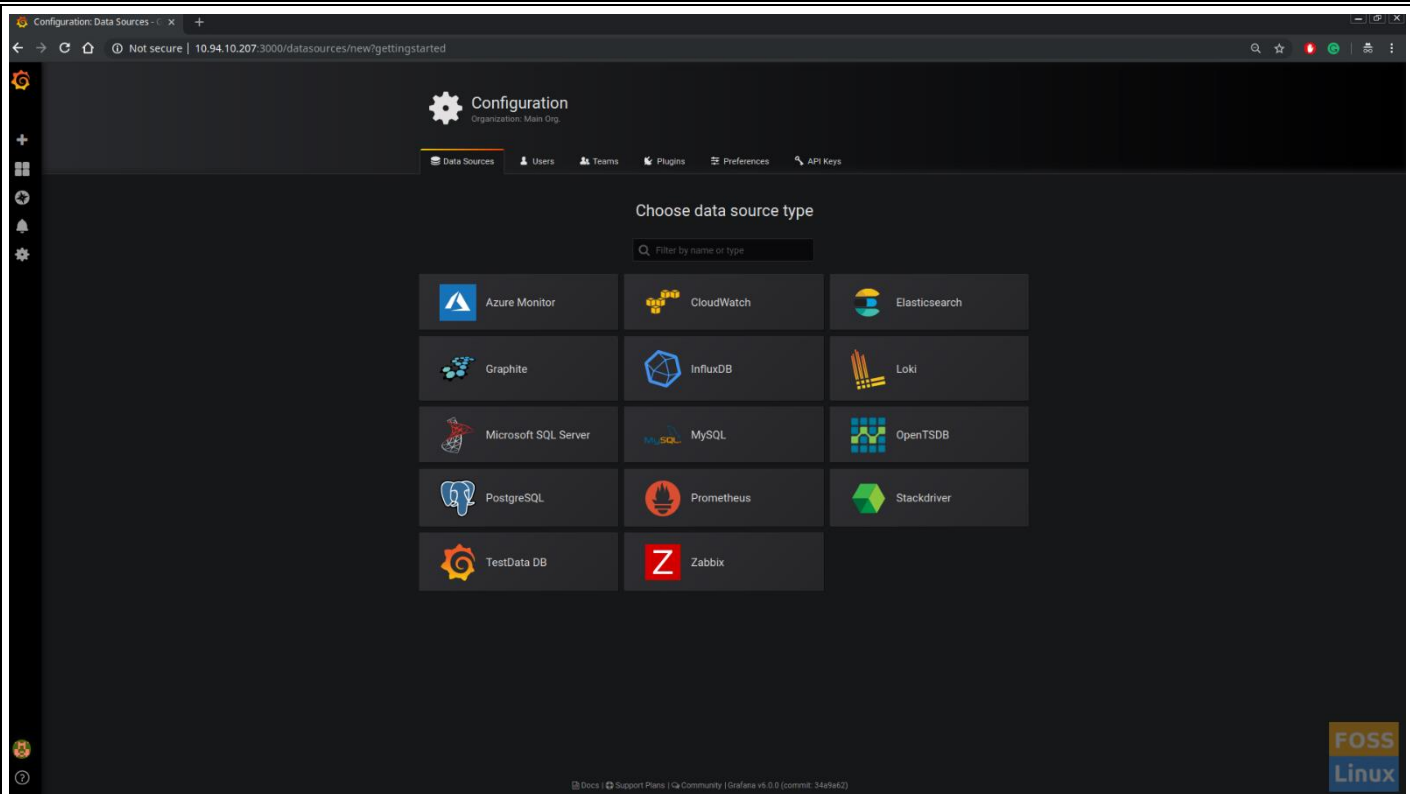
Step 9 – Configure Zabbix Plugin

Click on “Add data Source.”

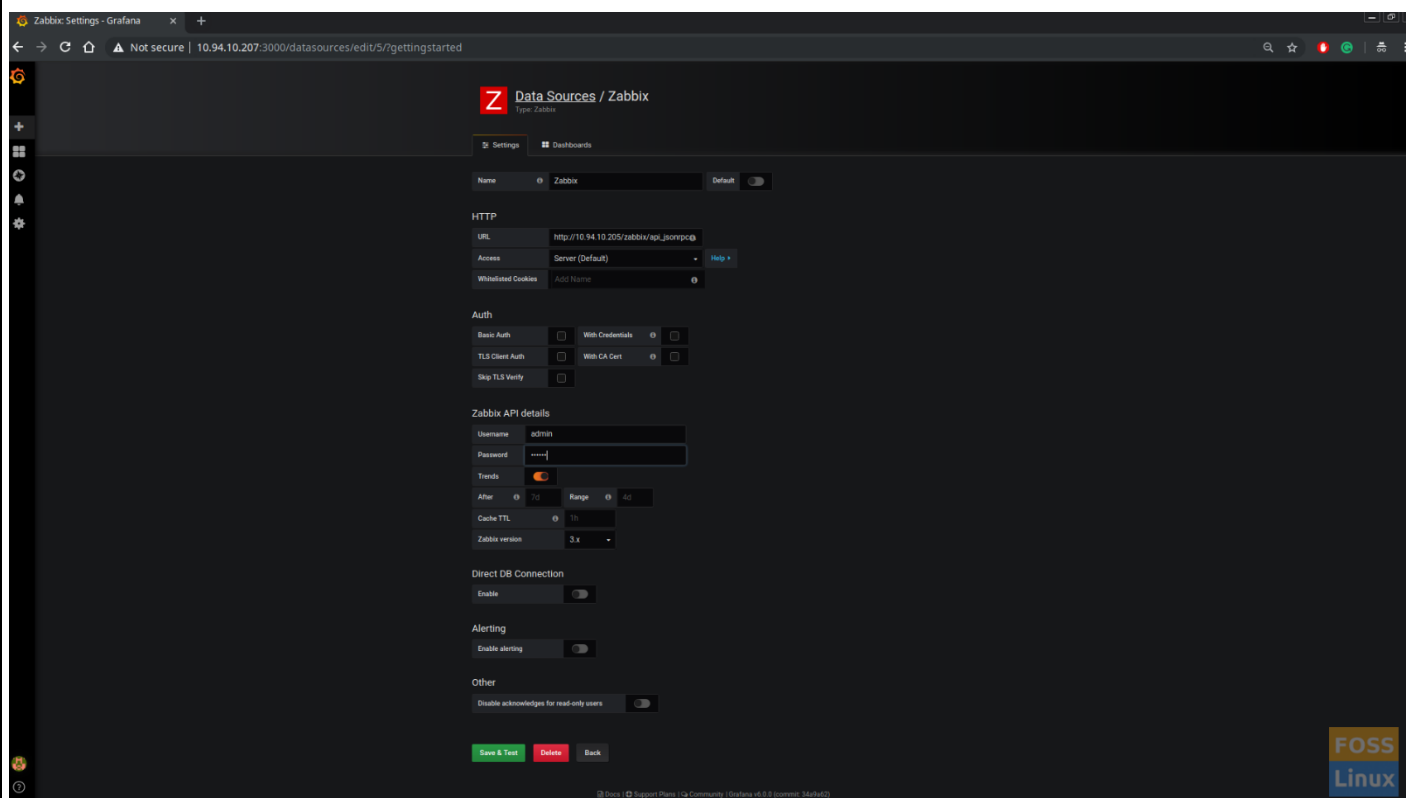


You should see various kind of data sources. Select Zabbix from it.





Next, you should see the configuration page.



Under HTTP modify URL, add Zabbix Server User Name and Password under Zabbix API details:

`http://Your-Zabbix-ServerIP/zabbix/api_jsonrpc.php`

Enable Trends. Click Save and Test.

Zabbix API details

Username admin

Password

Trends



After



7d

Range



4d

Cache TTL



1h

Zabbix version

4.x



Direct DB Connection

Enable



Alerting

Enable alerting



Other

Disable acknowledges for read-only users



Zabbix API version: 4.0.4

Save & Test

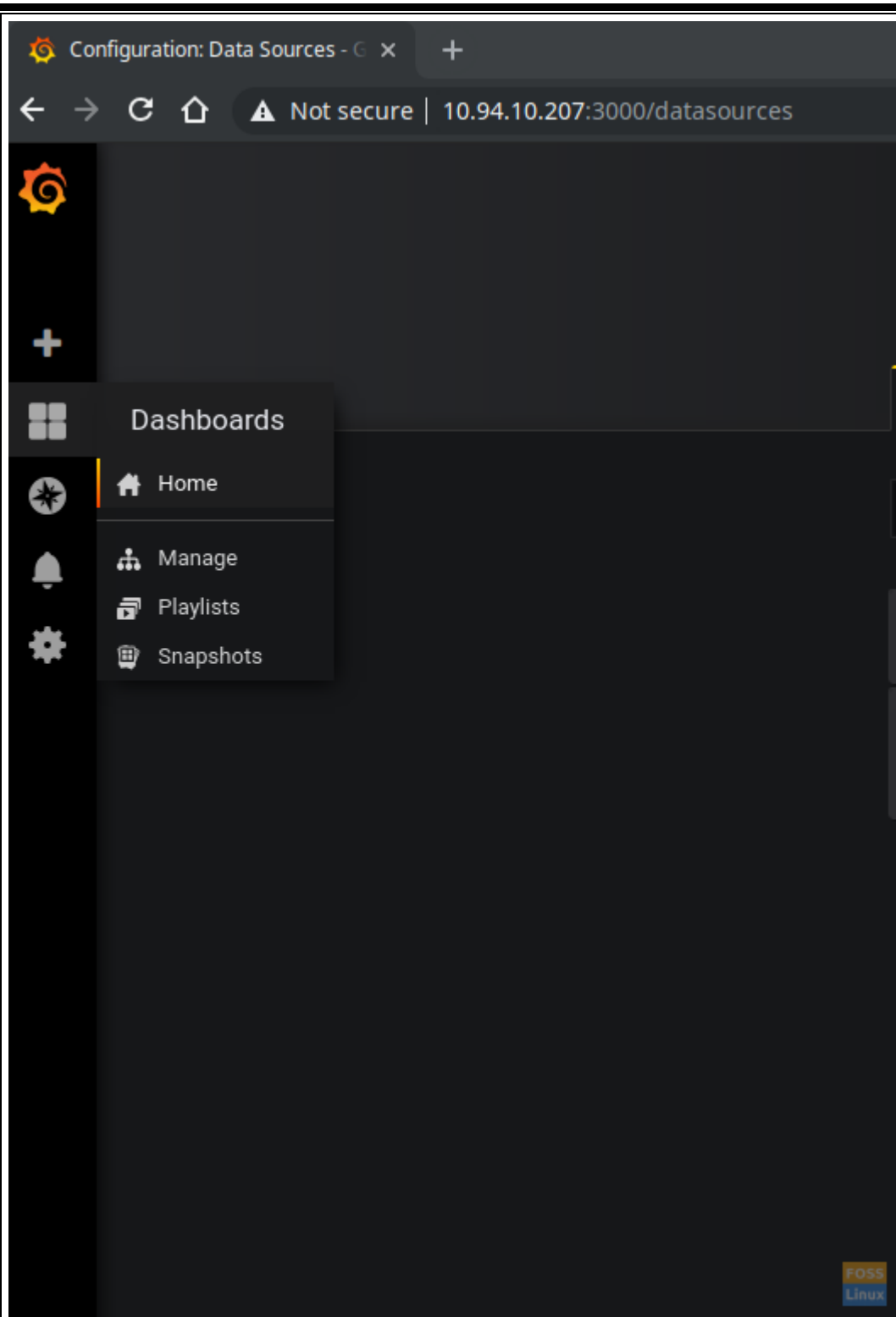
Delete

Back

[Docs](#) | [Support Plans](#) | [Community](#) | Grafana v6.0.0 (commit: 34a9a62)

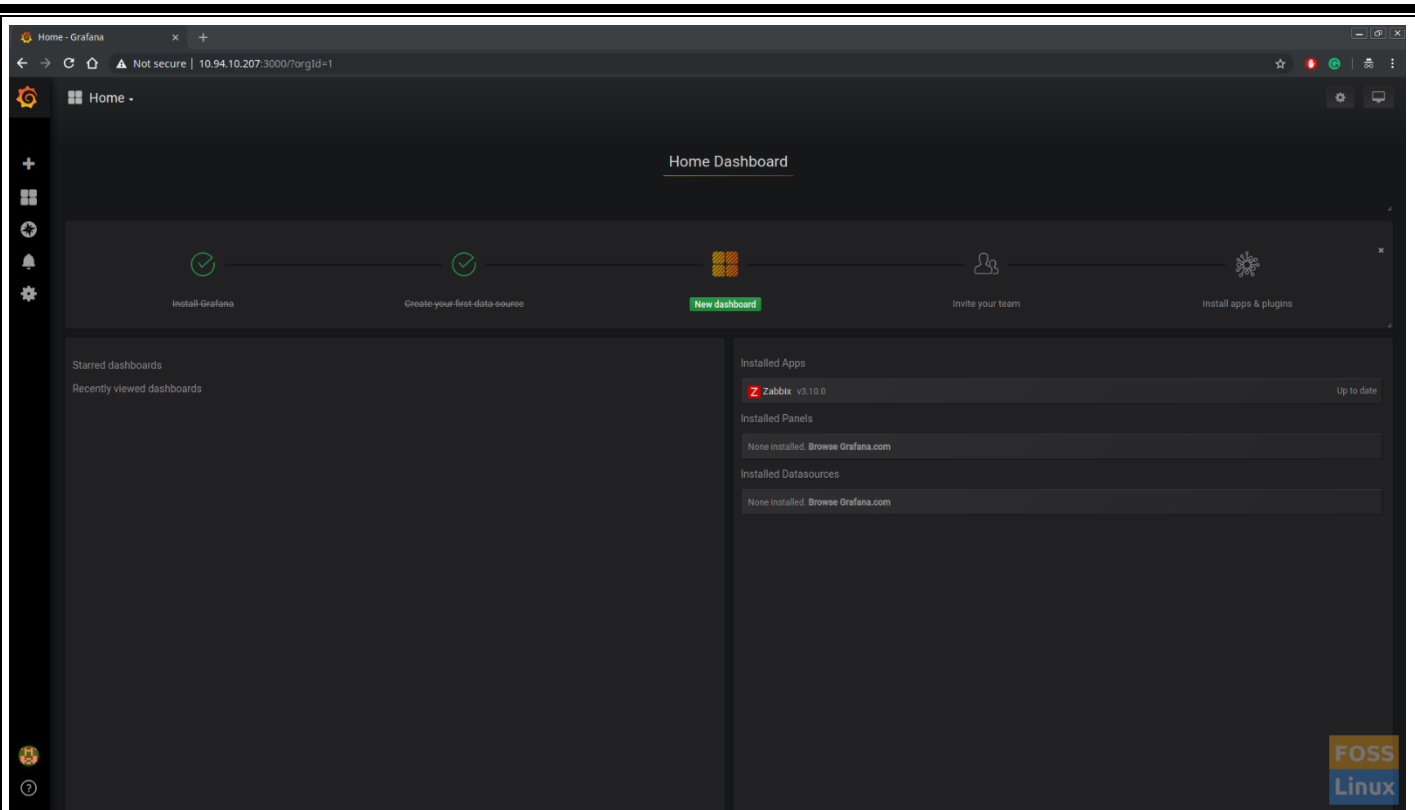


Go home clicking Dashboards -> Home.

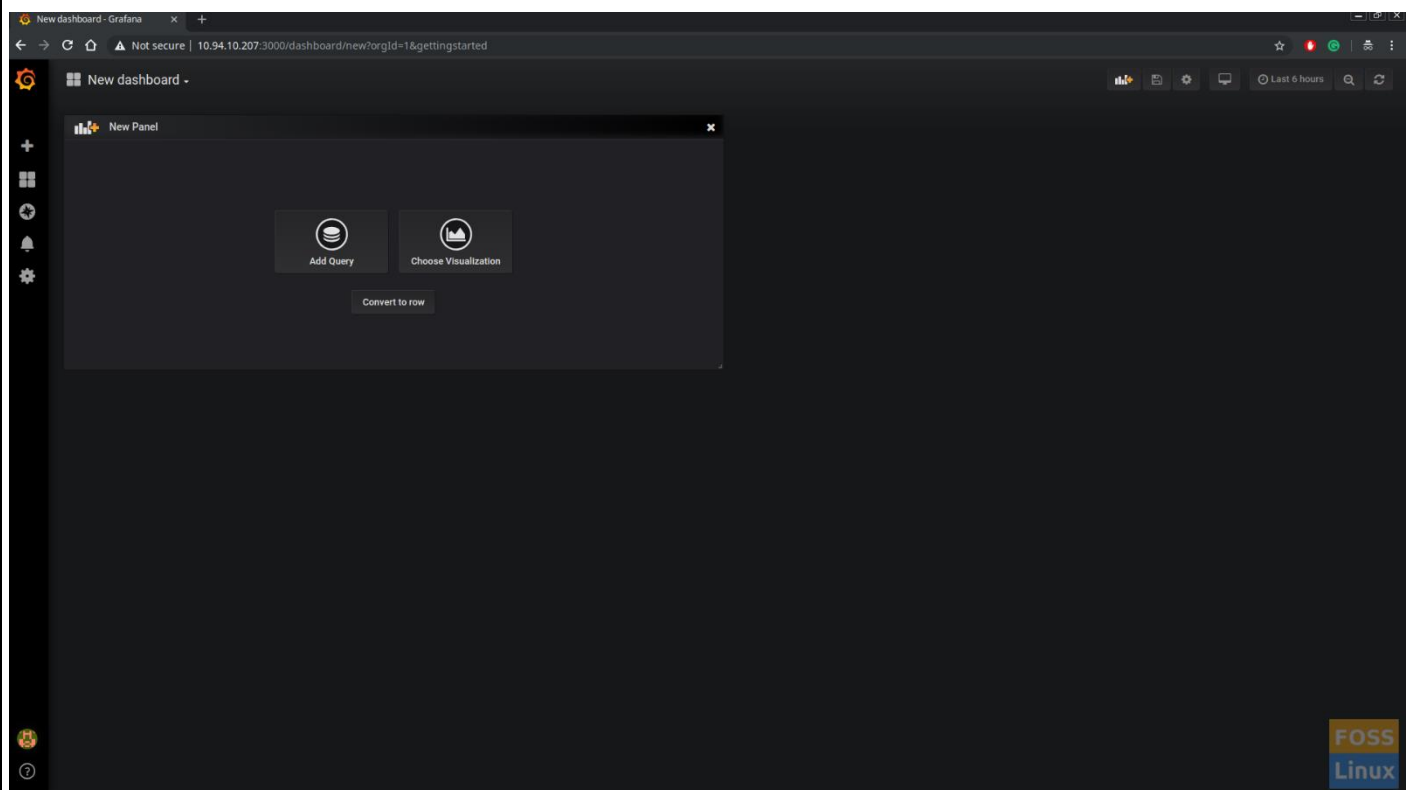


Step 10 – Create a Dashboard

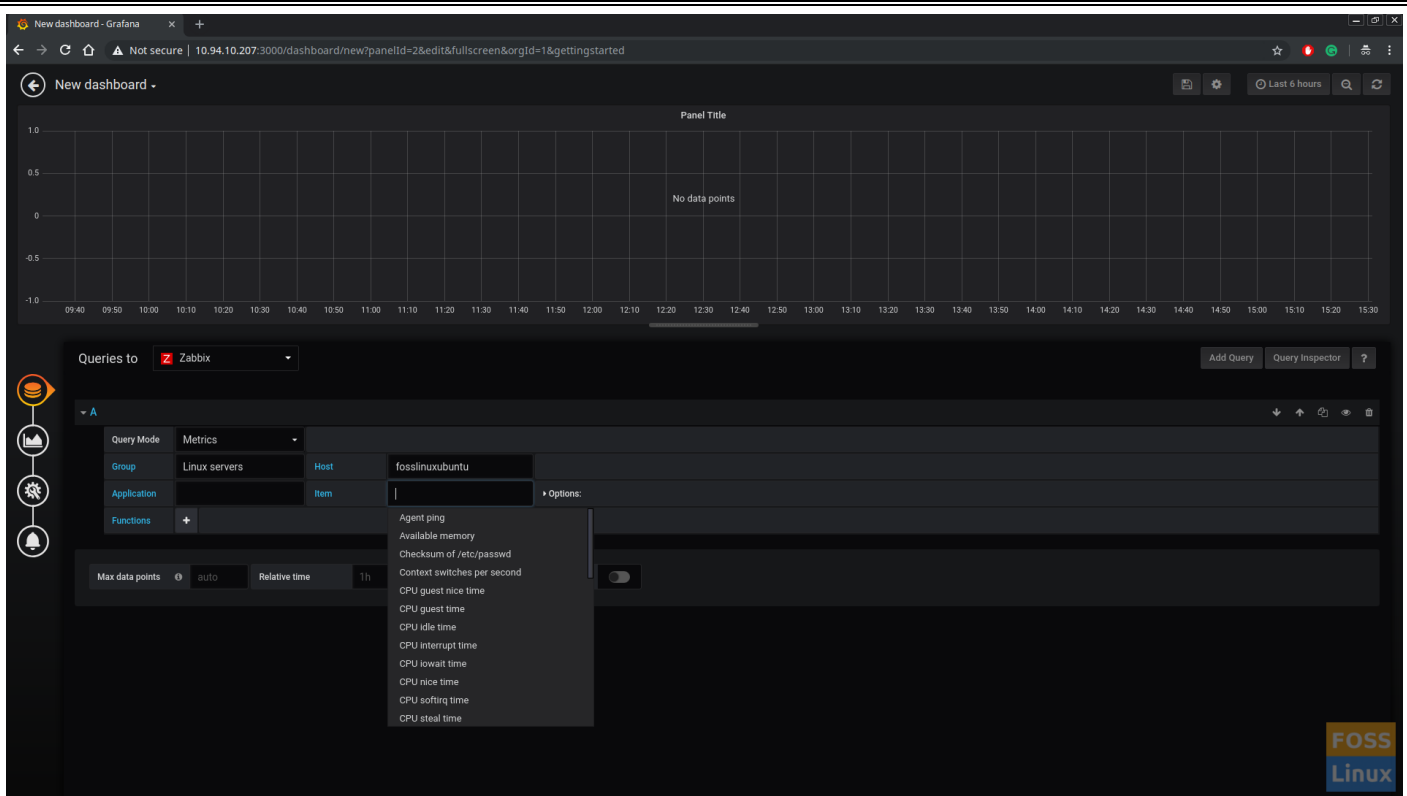
Click on “New dashboard ” to create.



Click on “Add Query”.

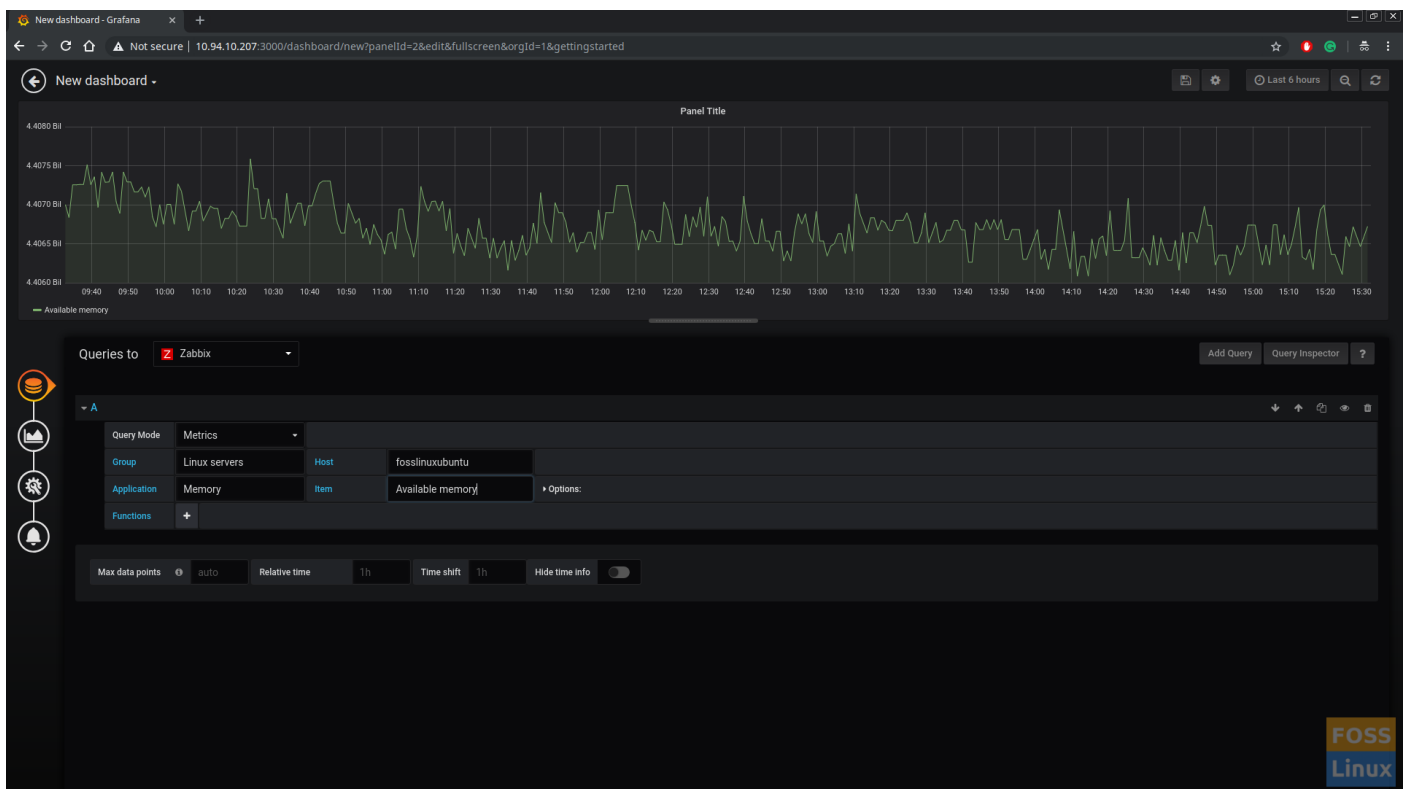


You should see the Query window.

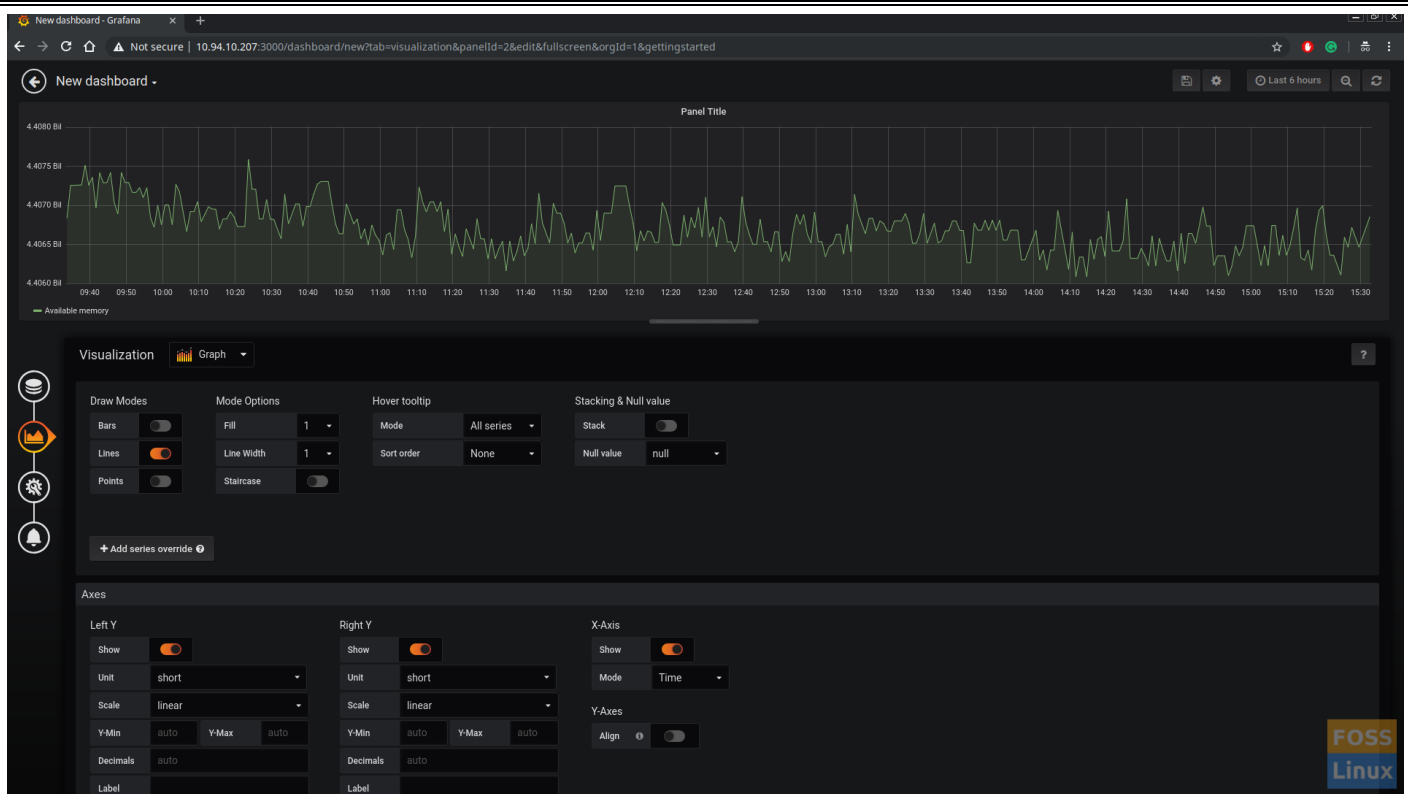


Select Queries to “Zabbix”. Set Query Mode to “Metrics”.

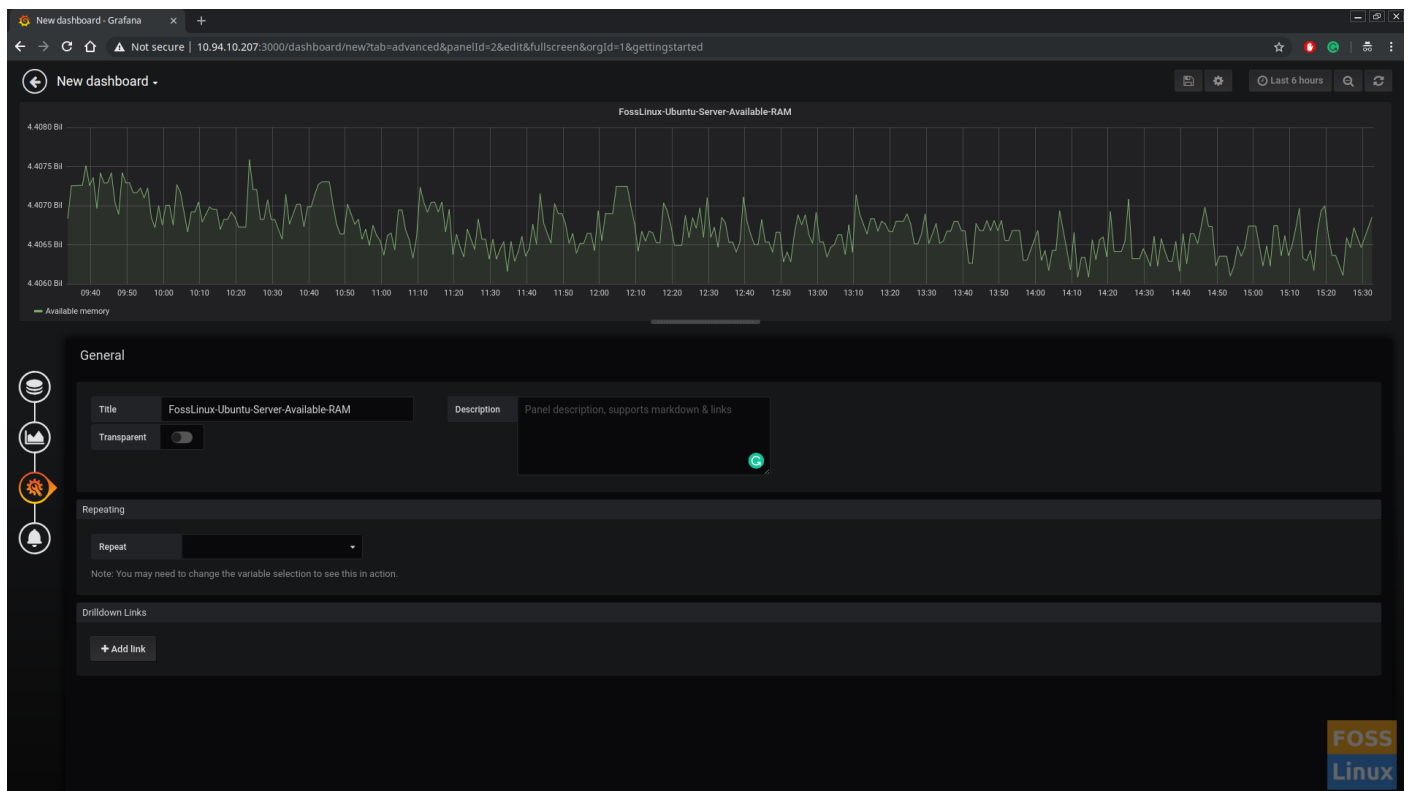
Select “Group”, “Host”, “Application”, “Item” from drop-down menu. (These data comes from Zabbix server).



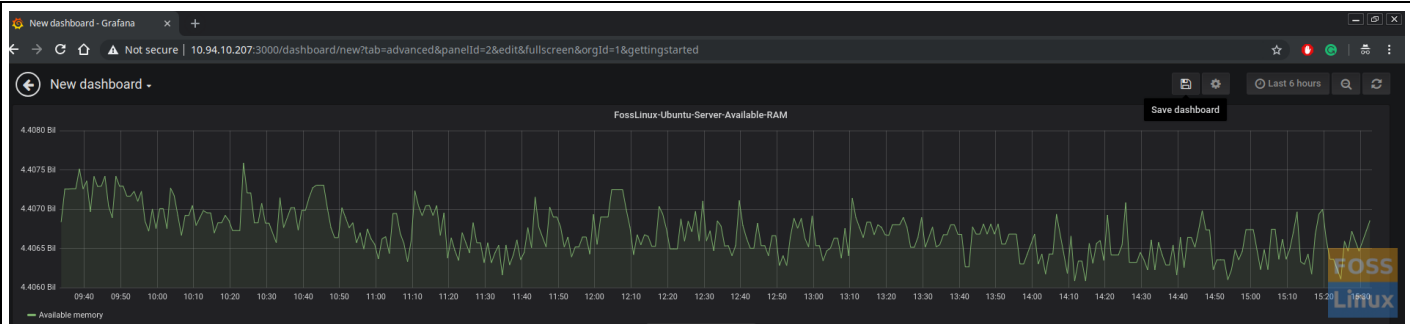
Click on Visualization to configure Graph. Select Visualization type from the drop-down menu.



Then click general and add a title to the dashboard.



Finally, you can save the Dashboard and give any name.



You can view your newly created Graph!



Congratulations, you have successfully installed and configured Grafana with visualization. There are loads of plugins further to explore, and with Grafana able to support various kind of data sources, it's up to you on how you want to configure those data sources and plugins to suit your needs.

<https://www.fosslinux.com/8328/how-to-install-and-configure-grafana-on-centos-7.htm>