

DevOps Monitoring Mini Project | Grafana Github Project

SECURITY GROUP PORT TO BE OPENED

Inbound rulesOutbound rulesSharing - newVPC associations - newTags

Inbound rules (5)

Manage tagsEdit inbound rules

Q Search

< 1 > ⚙

<input type="checkbox"/>	Name	Security group rule ID	IP version	Type	Protocol	Port range
<input type="checkbox"/>	-	sgr-09c70d278167f61d1	IPv4	SSH	TCP	22
<input type="checkbox"/>	-	sgr-0871a4b54bd14974f	IPv4	Custom TCP	TCP	1000 - 11000
<input type="checkbox"/>	-	sgr-08ae42f0edc552f9c	IPv4	Custom TCP	TCP	500 - 1000
<input type="checkbox"/>	-	sgr-0dd1c4fb2ad9103d4	IPv4	HTTPS	TCP	443
<input type="checkbox"/>	-	sgr-0cd6bdecdf9bb7173	IPv4	HTTP	TCP	80

INSTANCE CONFIGURATION

UBUNTU 24.04 LTS

T2 MEDIUM

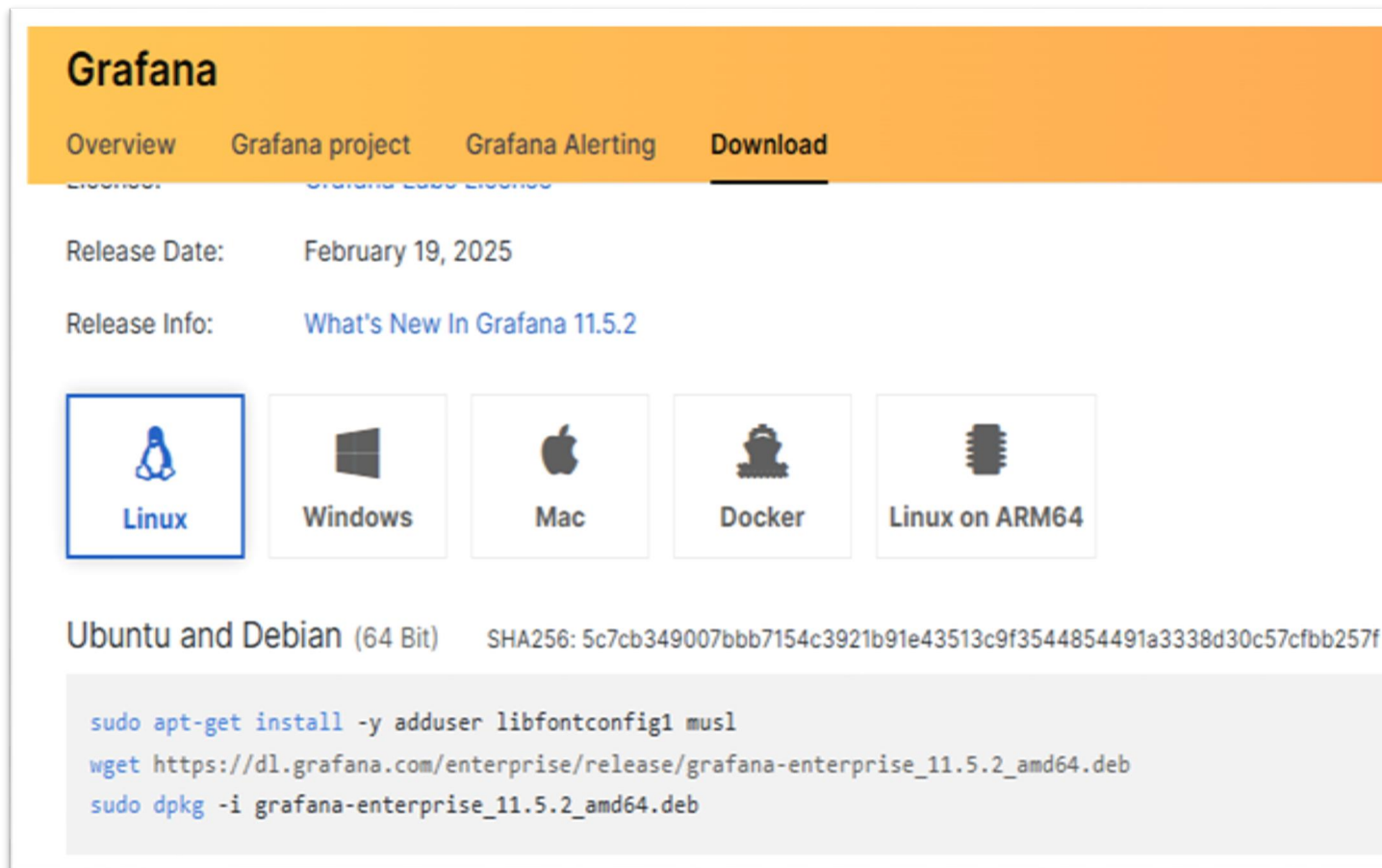
25 GB STORAGE

After launching an instance, we need to install **Grafana** for monitoring.

Managing **100 to 1000 repositories** manually is nearly impossible, making it difficult to track changes efficiently. By integrating **Grafana with a data source**, we can **monitor and track changes across multiple repositories** in SCM tools like **GitHub or GitLab**.

In this project, we'll set up **Grafana** and configure it with a **data source** to enable seamless repository tracking and monitoring

DIRECT GO TO GRAFANA DOWNLOAD PAGE WE WILL FIND THIS



The screenshot shows the Grafana download page. At the top, there's a navigation bar with 'Overview', 'Grafana project', 'Grafana Alerting', and 'Download' (which is highlighted). Below the navigation bar, there's a section for 'Release Date: February 19, 2025' and 'Release Info: What's New In Grafana 11.5.2'. Underneath, there are five buttons for different operating systems: Linux (highlighted with a blue border), Windows, Mac, Docker, and Linux on ARM64. Below these buttons, there's a section for 'Ubuntu and Debian (64 Bit)' with a SHA256 hash. At the bottom, there's a code block with three lines of terminal commands for installing Grafana on Ubuntu/Debian.

Grafana

Overview Grafana project Grafana Alerting **Download**

Release Date: February 19, 2025

Release Info: [What's New In Grafana 11.5.2](#)

Linux Windows Mac Docker Linux on ARM64

Ubuntu and Debian (64 Bit) SHA256: 5c7cb349007bbb7154c3921b91e43513c9f3544854491a3338d30c57cfbb257f

```
sudo apt-get install -y adduser libfontconfig1 musl
wget https://dl.grafana.com/enterprise/release/grafana-enterprise_11.5.2_amd64.deb
sudo dpkg -i grafana-enterprise_11.5.2_amd64.deb
```

IN THIS INSTALLATION PROCESS IS GOING ON BY USING THIS COMMAND

```
Selecting previously unselected package libfontconfig1:amd64.
Preparing to unpack .../libfontconfig1_2.15.0-1.1ubuntu2_amd64.deb ...
Unpacking libfontconfig1:amd64 (2.15.0-1.1ubuntu2) ...
Selecting previously unselected package musl:amd64.
Preparing to unpack .../musl_1.2.4-2_amd64.deb ...
Unpacking musl:amd64 (1.2.4-2) ...
Setting up fonts-dejavu-mono (2.37-8) ...
Setting up fonts-dejavu-core (2.37-8) ...
Setting up musl:amd64 (1.2.4-2) ...
Setting up fontconfig-config (2.15.0-1.1ubuntu2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for sgml-base (1.31) ...
Setting up libfontconfig1:amd64 (2.15.0-1.1ubuntu2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

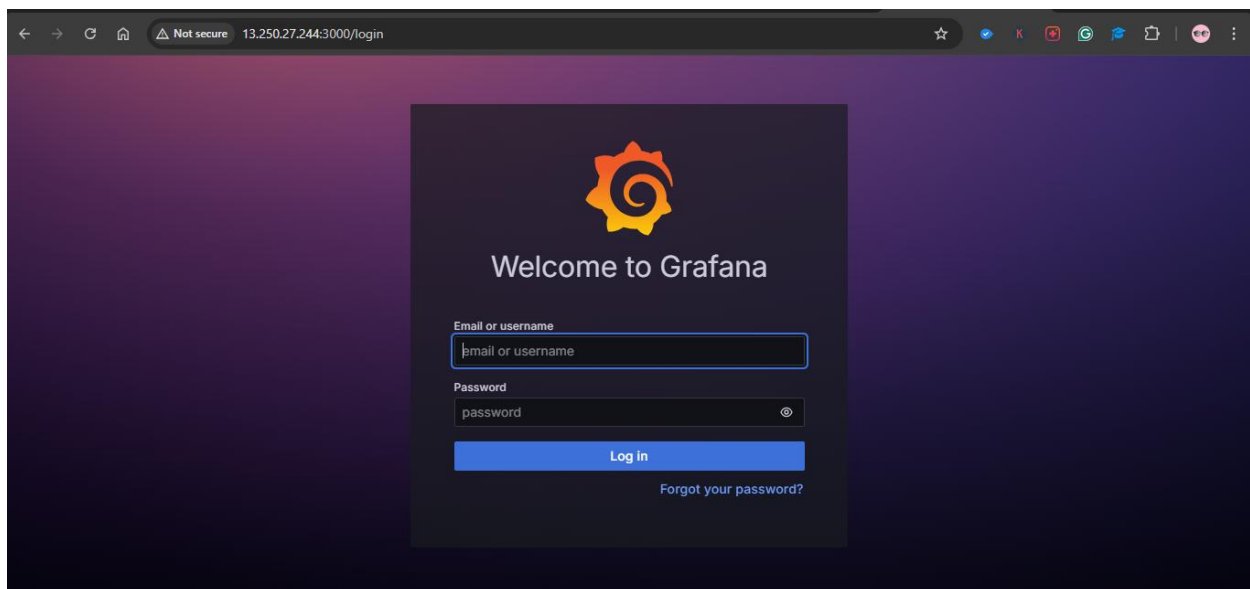
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-34-217:~$ wget https://dl.grafana.com/enterprise/release/grafana-enterprise_11.5.2_amd64.deb
--2025-03-16 12:07:41-- https://dl.grafana.com/enterprise/release/grafana-enterprise_11.5.2_amd64.deb
Resolving dl.grafana.com (dl.grafana.com)... 146.75.94.217, 2a04:4e42:7a::729
Connecting to dl.grafana.com (dl.grafana.com)|146.75.94.217|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 145024678 (138M) [application/octet-stream]
Saving to: 'grafana-enterprise_11.5.2_amd64.deb'

grafana-enterprise_11.5.2_amd64.de  2%[>          ] 3.37M   203KB/s   eta 11m 18ss
grafana-enterprise_11.5.2_amd64.de  3%[==>       ] 4.86M   202KB/s   eta 11m 12ss
grafana-enterprise_11.5.2_amd64.de  8%[====>    ] 12.19M  200KB/s   eta 10m 37s
```

AFTER starting the command `sudo systemctl start grafana server` we can access it through instance

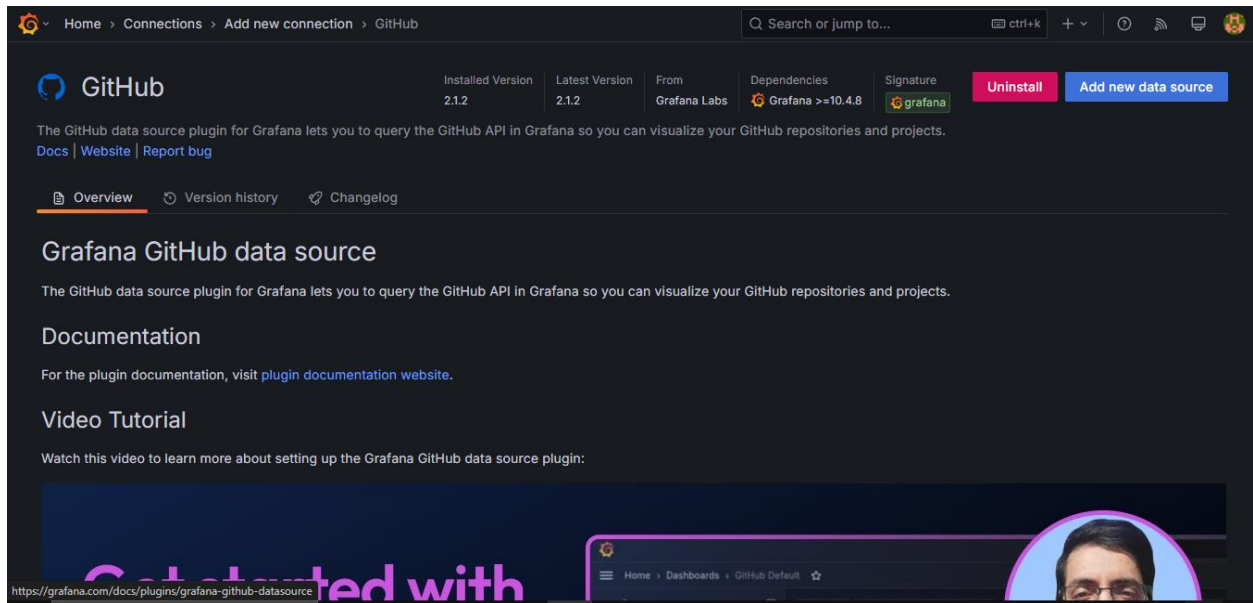
Ip:9000 we can access grafana server



User name: admin

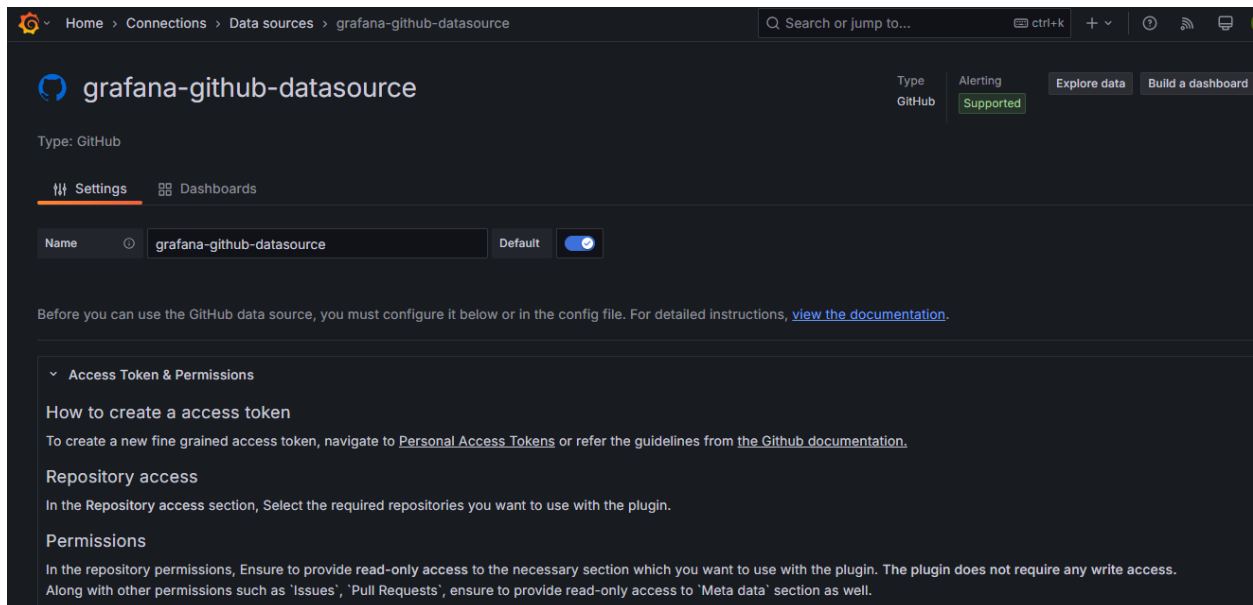
Password :admin

After that we will see the home page of grafana



We have to install github plugin and in the security credential for accessing our github profile

We have to go our github repo > setting > developer setting > general classic token > then accord to requirement for creating token we have to tick mark

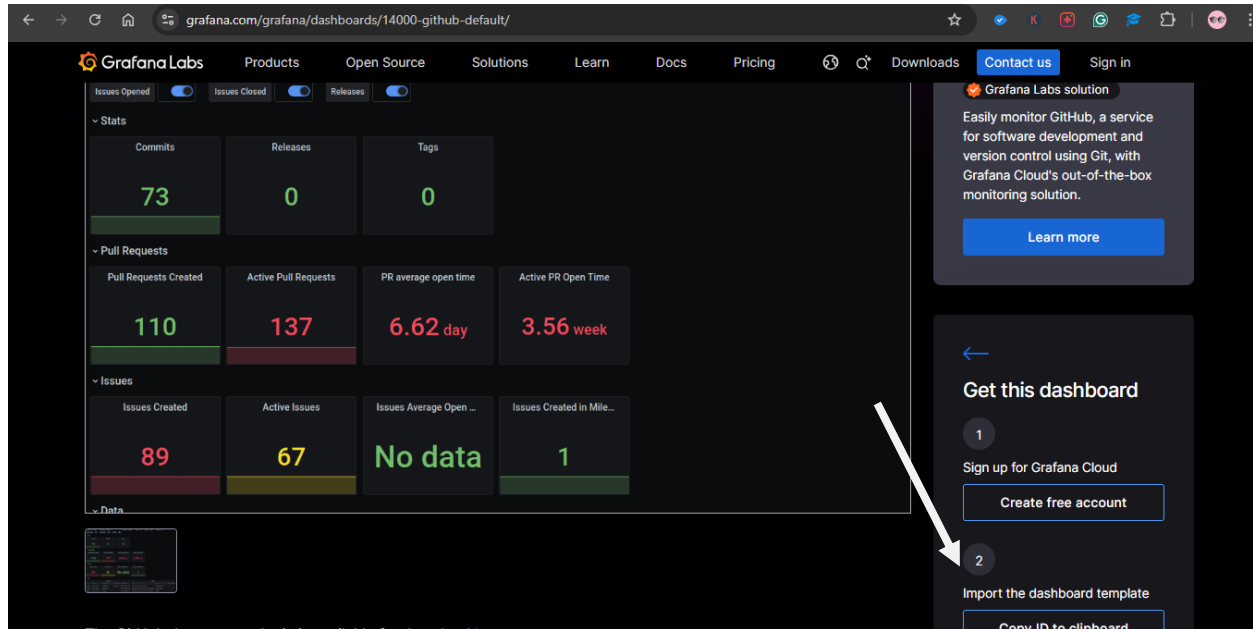


There's all the detail you can check it..

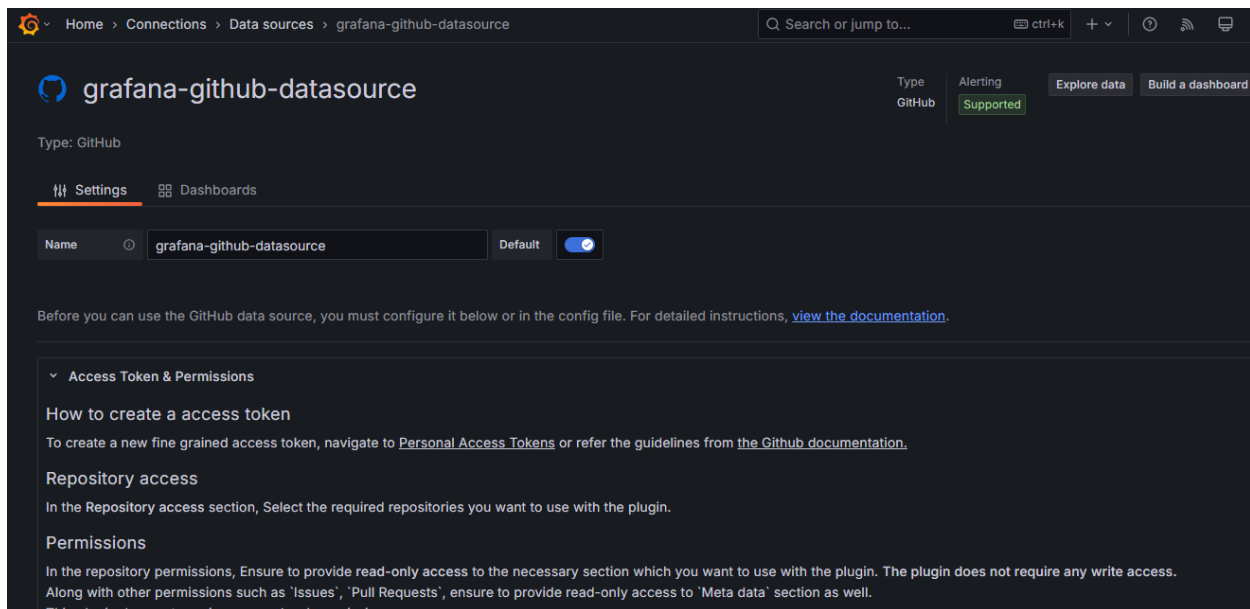
After that go to

<https://grafana.com/grafana/dashboards/14000-github-default/>

for copying the dashboard its easy without doing manual you can easily create automated dashboard from this



arrow mark shown copy that



Paste in add data source > new there you can paste

After importing dashboard it will look like this you can change organization – (your username) after that and branch name you can access own github/gitlab repo...go on

