How to Install TIG Stack (Telegraf, InfluxDB, and Grafana) on Debian 12

The TIG (Telegraf, InfluxDB, and Grafana) Stack is an acronym for a platform of open-source tools to make the collection, storage, graphing, and alerting of system metrics easier. You can monitor and visualize metrics such as memory, disk space, logged-in users, system load, swap usage, uptime, running processes, etc. from one place. The tools used in the stack are as follows:

- Telegraf is an open-source metrics collection agent for collecting and sending data and events from databases, systems, and IoT sensors. It supports various output plugins such as
- InfluxDB, Graphite, Kafka, etc to which it can send the collected data. • InfluxDB - is an open-source time-series database written in the Go language. It is optimized for fast, high-availability storage and is suitable for anything involving large amounts of time-
- stamped data, including metrics, events, and real-time analytics. • Grafana - is an open-source data visualization and monitoring suite. It supports various input plugins such as Graphite, ElasticSearch, InfluxDB, etc. It provides a beautiful dashboard and metric analytics allowing you to visualize and monitor any kind of system metrics and performance data

In this tutorial, you will learn how to install and configure the TIG Stack on a single Debian 12 server.

Prerequisites

- 1. A server running Debian 12 with a minimum of 1 GB of RAM.
- 2. A non-sudo user with root privileges.
- 3. The uncomplicated Firewall(UFW) is enabled and running.
- 4. A Fully Qualified Domain Name (FQDN) like grafana.example.com pointing to your server.
- 5. An SMTP account with an email service like Amazon SES or Mailgun for getting email notifications for service alerts.
- 6. Ensure that everything is updated.

\$ sudo apt update && sudo apt upgrade

7. A few essential packages are required for the tutorial and Craft CMS to run. Some of these will already be on your server.

\$ sudo apt install curl wget nano software-properties-common dirmngr apt-transport-https ca-certificates lsb-release debian-archive-keyring gnupg2 ufw unzip -y

Step 1 - Configure Firewall

Before installing any packages, the first step is configuring the firewall to open ports for InfluxDB and Grafana

Check the status of the firewall

\$ sudo ufw status

You should see something like the following.

Status: active			
То	Action	From	
OpenSSH OpenSSH (v6)	ALLOW ALLOW	Anywhere Anvwhere (v6)	

Open port 8086 for InfluxDB and 3000 for the Grafana server

\$ sudo ufw allow 86 \$ sudo ufw allow 36

Allow HTTP and HTTPs ports.	
\$ sudo ufw allow http \$ sudo ufw allow https	
Check the status again to confirm.	
\$ sudo ufw status Status: active	

То	Action	From
OpenSSH	ALLOW	Anywhere
8086	ALLOW	Anywhere
3000	ALLOW	Anywhere
80/tcp	ALLOW	Anywhere
443	ALLOW	Anywhere
OpenSSH (v6)	ALLOW	Anywhere (v6)
8086 (v6)	ALLOW	Anywhere (v6)
3000 (v6)	ALLOW	Anywhere (v6)
80/tcp (v6)	ALLOW	Anywhere (v6)
443 (v6)	ALLOW	Anywhere (v6)

Step 2 - Install InfluxDB

We will use InfluxDB's official repository to install it.

Download the InfluxDB GPG key.

\$ wget -q https://repos.influxdata.com/influxdata-archive_compat.key

Import the GPG key into the server.

\$ echo '393e8779c89ac8d958f81f942f9ad7fb82a25e133faddaf92e15b16e6ac9ce4c influxdata-archive_co influxdata-archive_compat.key: 0K pat.key' | sha256sum -c && cat influxdata-archive tee /etc/apt/trusted.gpg.d/influxdata-a gpg

Import the InfluxDB repository

\$ echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg] https://repos.influxdata.com/debian stable main' | sudo tee /etc/apt/sources.list.d/influxdata.list

Update the system's repository list

\$ sudo apt update

You have the option of installing InfluxDB 1.8.x or 2.0.x. However, it is better to use the latest version. Install InfluxDB.

\$ sudo apt install influxdb2

Start the InfluxDB service.

\$ sudo systemctl start influxdb

Check the status of the service.

\$ sudo systemctl status influxdb ? influxdb.service - Influxdb is an open-source, distributed, time series database Loaded (/lib/systemd/system/influxdb.service; enabled; preset: enabled) Active: active (running) since Tue 2024.01-02 02:39:41 UTC; 1s ago Docs: https://docs.influxdata.com/influxdb/

Step 3 - Create InfluxDB Database and User Credentials

To store the data from Telegraf, you need to set up the Influx database and user.

InfluxDB comes with a command-line tool named influx for interacting with the InfluxDB server. Think of influx as the mysql command-line tool.

Run the following command to perform the initial configuration for Influx.



The initial setup process creates a default token that has full read and write access to all the organizations in the database. You need a new token for security purposes which will only connect to the organization and bucket we want to connect to.

To create a new token, click on the following icon from the left sidebar and click the API Tokens link to proceed.



You will be taken to the API Tokens page. Here, you will see the default token that we created at the time of the initial configuration.



Click on the Generate API Token button and select the Custom API Token option to launch a new overlay popup. Give a name to the Token (telegrat) and expand the Resources section and select the default bucket we created under both the Read and Write sections.



Click Generate to finish creating the token. Click the COPY TO CLIPBOARD button to copy the token. The button might not work in some cases so make sure to confirm before dismissing the popup.

×

Make sure to copy your ne v custom API token now. You won't be

You've successfully created an API Token

Save it for now since we will need it later on

This completes the installation and configuration of InfluxDB. Next, we need to install Telegraf.

Step 4 - Install Telegraf

Telegraf and InfluxDB share the same repository. It means you can install Telegraf directly.

\$ sudo apt install telegraf

Telegraf's service is enabled and started automatically during installation.

Telegraf is a plugin-driven agent and has 4 types of plugins:

- 1. Input plugins collect metrics.
- **Processor plugins** transform, decorate, and filter metrics. **Aggregator plugins** create and aggregate metrics. 2. 3.
- 4. Output plugins define the destinations where metrics are sent including InfluxDB.

Telegraf stores its configuration for all these plugins in the file /etc/telegraf/telegraf.conf. The first step is to connect Telegraf to InfluxDB by enabling the influxdb_v2 output plugin. Open the file /etc/telegraf/telegraf.conf for editing.

\$ sudo nano /etc/telegraf/telegraf.conf

Find the line [[outputs.influxdb_v2]] and uncomment out by removing the # in front of it. Edit out the code below it in the following way.

COPY TO CLIPBOARD

[[0 # # #

Configuration for sending metrics to InfluxDB 2.0
[outputs.influxdb v2]]
The URLs of the InfluxDB cluster nodes.
Multiple URLs can be specified for a single cluster, only ONE of the
unis will be written to each interval.
ex: unis = ["https://us-west-2-1.aws.cloud2.influxdata.com"]
unis = ["http://127.0.0.1:8086"]

##

Token for authentication.
token = "\$INFLUX TOKEN"

Organization is the name of the organization you wish to write to.
organization = "howtoforge"

Destination bucket to write into. bucket = "tigstack"

Paste the InfluxDB token value saved earlier in place of the \$INFLUX_TOKEN variable in the code above.

Search for the line INPUT PLUGINS and you will see the following input plugins enabled by default.



Restart the Telegraf service once you have finished applying the changes.

\$ sudo systemctl restart telegraf

Step 5 - Verify if Telegraf stats are being stored in InfluxDB

Before proceeding further, you need to verify if Telegraf stats are correctly collected and fed into the InfluxDB. Open the InfluxDB UI in your browser, click the second icon from the left sidebar, and select the Buckets menu.





Click on the bucket name and then click on one of the values in the _measurement filter, and keep clicking on other values as and when they appear. Once you are done, click the Submit button. You should see a graph at the top. You might need to wait for some time for the data to appear. We shifted the time interval from Past 1 h to Past 5m to generate a graph over a large area.



This should confirm that the data is being passed on correctly.

Step 6 - Install Grafana

We will use the official Grafana repository to install it. Import the Grafana GPG key.

\$ sudo mkdir -p /etc/apt/keyrings/ \$ wget -q -0 - https://apt.grafana.com/gpg.key gpgdearmor sudo tee /etc/apt/keyrings/grafana.gpg > /dev/null
Add the repository to your system.
\$ echo "deb [signed-by=/etc/apt/keyrings/grafana.gpg] https://apt.grafana.com stable main" sudo tee -a /etc/apt/sources.list.d/grafana.list
If you want to install Grafana beta, add the following repository instead.
\$ echo "deb [signed-by=/etc/apt/keyrings/grafana.gpg] https://apt.grafana.com beta main" sudo tee -a /etc/apt/sources.list.d/grafana.list
Update the system repository list.
\$ sudo apt update
Install Grafana.
\$ sudo apt install grafana
Start and Enable the Grafana service.
\$ sudo systematl enable grafana-servernow
Check the service status.
<pre>\$ sudo systemctl status grafana-server ? grafana-server.service - Grafana instance Loaded: loaded (//lib/system/grafana-server.service; enabled; preset: enabled) Active: active (running) since Tue 2024-01-02 03:48:01 UTC; 3s ago Docs: http://docs.grafana.org Hain PID: 8769 (grafana) Tasks: 7 (linit: 2299) Memory: 42.6M CPU: 1.804s CGroup: /system.slice/grafana-server.service CGroup: /system.slice/grafana-server.service </pre>

Step 7 - Set up Grafana Data Source

Launch the URL http://<serverIP>:3000 in your browser and the following Grafana login page should greet you.

Leader Image:	
Documentation ③ Support P Community Open Source v10.2.3 (1e84fede543acc892d2a2515187e545eb047f237)	

Login with the default username *admin* and password *admin*. Next, you need to set up a new default password.



On the next page, select **Flux** from the dropdown menu as the query language. You can use **InfluxQL** as the query language, but it is more complicated to configure since it supports only InfluxDB v1.x by default. Flux supports InfluxDB v2.x and is easier to set up and configure.

🖗 influxdb-1	Type InfluxDB	Alerting Supported	Explore data	Build a dashboard
Type: InfluxDB				
tl∤ Settings				
Name () influxdb-1		Default		
Query language			-	
Query language Flux InfluxQL The influxQB SQL-like query language.		م		
Query language Flux InfluxQL The influxD8 SQL-like query language. Flux Supported in InfluxD8 2.x and 1.8+		٩		

Enter the following values.

URL: http://localhost:8086 Basic Auth Details User: navjot Password: <vourinfluxdbpassword> InfluxDB Details Organization: howtoforge Token: <influxdbtoken> Default Bucket: tigstack



Click on the Save and test button and you should see a confirmation message verifying the setup is successful.



Step 8 - Set up Grafana Dashboards

The next step is to set up Grafana Dashboards. Click the hamburger menu to the left of Home and click Dashboards to open the Dashboard Create screen.



 $\label{eq:click} \mbox{Click the $Create Dashboard$ button to proceed.}$



On the next page, click on the Add visualization button to launch the overlay and click influxab-1 to select it as the data source.





Click the Query inspector button and then click the Refresh button to verify if your query is working successfully. Click the cross icon to close the inspector.



Give a name to the dashboard and click **Save** to finish.





Repeat the process by creating another panel for RAM Usage.

Use the following code for displaying the HDD Usage.

You can create an unlimited number of panels.

The above code is based on the Flux Scripting language. Fortunately, you don't need to learn the language to write queries. You can generate the query from the InfluxDB URL. Even though learning the language can benefit in optimizing the queries.

You need to go back to the InfluxDB dashboard and open the **Explore page** to get the query.

Click on the bucket name and then click on one of the values in the _measurement fil button and you should see the following page. The graph should also be updated. m filter, and keep clicking on oth<mark>er values as and when t</mark>hey appear. Once you are done, click the Script Editor



Copy the query shown and you can now use it in the Grafana dashboard to build your graphs.

Step 9 - Configure Alerts and Notifications

The primary use of setting up monitors is to get alerts on time when the value goes beyond a certain threshold.

The first step is to set the destination where you want to get alerts. You can receive notifications via Email, Slack, Kafka, Google Hangouts Chat, Microsoft Teams, Telegram, etc.

We will be enabling email notifications for our tutorial. To set up Email notifications, we need to configure the SMTP service first. Open the /etc/grafana/grafana.ini file for configuring SMTP.

\$ sudo nano /etc/grafana/grafana.ini



If you want to send an additional message, click the **Optional Email settings** link and enter the message.

Single email Send a single email to all recipients Massage Optional message. You can use templates to customize this field. Using a custom message will replace the default message Subject Optional subject. You can use templates to customize this field {{ template "default.title" . }}

Click Test to open the popup and then click the Send test notification button to see if the email settings are working. Click Save contact point when finished.

You should get the following email confirming the settings.



Go back to the **Dashboards** screen. Click on the dashboard we just created and you will get its homepage with different panels. To edit the panel, click on the name of the panel, and a dropdown menu will pop up. Click on the Edit link to proceed.



Click on the Alert Panel and click on the New alert rule button to set up a new alert. We are creating an alert for the CPU usage panel.



You can now configure the conditions under which Grafana will send the alert. Click the **Options** link dropdown menu and select the default time range (now-6h to now) to change the time range to the **Last 15 minutes** which means it will check from 15 minutes ago to now.



By default, the selected alert type is Grafana managed alert. There are two expressions selected by default. Delete them by pressing the trash button against them. Select the Add expression dropdown and select the Classic condition as the expression type.

Add expression ~	C Preview				
Math			h		
Reduce	up bobayiar			-	
Classic condition	Takes one or more time series returned from a query or an expression and checks if any of the series match the con-				
Threshold	Disables multi-dimensional a				
			or	+ New folde	

Expressions Manipulate data retu				
B Classic cor	dition			Set as alert condition 🛍
Takes one or more time multi-dimensional alert	e series returned from	n a query or an express	ion and checks if any	of the series match the condition. Disables
Conditions	avg	0 ~		
	IS ABOVE 🗸	0.8		
Ð				
Add expression				

Click the Set as alert condition to select the chosen expression for sending the alerts. Doing so will change the expression box as shown below.



Conditions

Grafana works on a query of the following format to determine when to launch an alert. avg() OF query(A) IS ABOVE 0.8

• avg() controls how the value for each series should be reduced to a comparable value against the threshold. You can click on the function name to select a different function such as avg(), min(), max(), sum(), count(), etc.



• query(A) The letter in the bracket defines what query to execute from the Metrics tab.

• IS BELOW 14 Defines the type of threshold and the threshold value. You can click on IS BELOW to select a different threshold type.

IS ABOVE 🔦	
IS ABOVE	
IS BELOW	
IS OUTSIDE RANGE	
IS WITHIN RANGE	
HAS NO VALUE	

You can add a second condition below it by clicking on the + button beneath the first condition. Currently, you can only use AND and OR operators between multiple conditions.

Next, we will set the evaluation behavior. Click the New folder button to create a folder to store your rules. Click the New evaluation group button to create a group to club rules which will get evaluated after the same time interval. Set the time interval as 5m while creating the group.



Once finished, the page should look like the following. Set the Alert state if execution error or timeout to Alerting.

3. Set evaluation behavior					
Define how the alert rule is evaluated. ⑦ Need help?					
Folder Select a folder to store your rule.					
Howtoforge			New	folder	
Evaluation group Rules within the same group are evaluated concurrently over the time interval.					
Howtoforge	or	-	New	evaluat	ion group
Pending period Period in which an alert rule can be in breach of the condition unt frees 5m Configure no data and error handling Alert state if no data or all values are null					
No Data ~					
Alert state if execution error or timeout					
Alerting					

Rule

- Name Enter a descriptive name for the alert
- Folder Create or select a pre-existing folder to store your notification rule.
 Group Enter a name for your alert group. Alerts in a single group are evaluated after the same time interval.
 Pending Specify how often Grafana should evaluate the alert. It is also called an evaluation interval. You can set any value you desire here

No Data & Error Handling

You can configure how Grafana should handle queries that return no data or only null values using the following conditions:

- No Data Set the rule state to NoData Alerting Set the rule state to Alerting 1.
- 2.
- 3. Ok - Set the alert rule state to *ok*, as you will get an alert even if things are okay.

You can tell Grafana how to handle execution or timeout errors.

- Alerting Set the rule state to Alerting 1
- Ok Set the alert rule state to λ_{e} as you will get an alert even if things are okay. Error Set the alert rule state to Error to indicate there is an issue. 2.
- 3.

Once you are finished, click the button **Preview alerts** to see if everything is working fine. Click the **Save rule and exit** button on the top right to finish adding the alert. You should now start getting alerts on your email. Following is an example of one such email.



Verify the installation. On Debian systems, the following command will only work with sudo.

\$ sudo nginx -v nginx version: nginx/1.25.3
Start the Nginx server.
\$ sudo systemctl start nginx
Check the service status.
<pre>\$ sudo systemctl status nginx ? nginx.service - nginx - high performance web server Loaded: loaded ('lub/system/nginx.service; enabled; preset: enabled) Active: active (running) since Tue 2024-01-02 09:21:10 UTC; 5s ago Docs: https://nginx.org/endocs/ Process: 12964 ExecStart=/usr/sbin/nginx -c /etc/nginx/nginx.conf (code=exited, status=0/SUCCESS) Main PDI: 12965 (nginx) Tasks: 3 (lumit: 2299) Wemory: 2.9W CPU: 86ms CGroup: /system.slice/nginx.service 7712965 "nginx: master process" 712966 "nginx: worker process" 712967 "nginx: worker process" Jan 02 09:21:10 grafana systemd(1): Starting nginx.service - nginx - high performance web server</pre>
Stop 11 - Install SSI
We need to install Certbot to generate the SSL certificate. You can either install Certbot using Debian's repository or grab the latest version using the Snapd tool. We will be using the Snapd version.
Debian 12 comes doesn't come with Snapd installed. Install Snapd package.
\$ sudo apt install snapd
Run the following commands to ensure that your version of Snapd is up to date.
\$ sudo snap install core && sudo snap refresh core
Install Certbot.
\$ sudo snap installclassic certbot
Use the following command to ensure that the Certbot command can be run by creating a symbolic link to the /usr/bin directory.
\$ sudo ln -s /snap/bin/certbot /usr/bin/certbot
Verify if Certbot is functioning correctly.
\$ certbotversion certbot 2.8.0
Run the following command to generate an SSL Certificate.
\$ sudo certbot certonlynginxagree-tosno-eff-emailstaple-ocspprefe <mark>rred-chal</mark> lenges http -m name@example.com -d grafana.example.com
The above command will download a certificate to the /etc/letsencrypt/live/grafana.example.com directory on your server.
Generate a Diffie-Hellman group certificate.
\$ sudo openssl dhparam -dsaparam -out /etc/ssl/certs/dhparam.pem 4096
Check the Certbot renewal scheduler service.
\$ systemctl list-timers
You will find snap.certbot.renew.service as one of the services scheduled to run.
NEXT LEFT LAST PASSED UNIT ACTIVATES Tue 2024-01-02 15:24:52 UTC 6h left Tue 2024-01-02 20:35:20 UTC 1h left Mon 2024-01-01 15:24:52 UTC 1h ago Tue 2024-01-02 20:35:00 UTC 1h left Mon 2024-01-01 15:24:52 UTC 1h ago Tue 2024-01-02 09:02:47 UTC 2lmin ago apt-daily.struer systemd-tmpfiles-clean.service snap.certbot.renew.timer
Do a dry run of the process to check whether the SSL renewal is working fine.
\$ sudo certoot renewdry-run If you see no errors, you are all set. Your certificate will renew automatically.
Step 12 - Configure Nginx for Grafana and InfluxDB
Open the file /etc/nginx.conf for editing.
\$ sudo nano /etc/nginx/nginx.conf
Add the following line before the line include /etc/nginx/conf.d/*.conf;.
server_names_hash_bucket_size 64;
Save the file by pressing Ctrl + X and entering Y when pro mpted.
Create and open the file /etc/nginx/conf.d/grafana.conf for editing.
\$ sudo nano /etc/nginx/conf.d/grafana.conf
Paste the following code in it. Replace grafana.example.com with your domain name.
<pre>map \$http upgrade \$connection_upgrade { default upgrade; ' close;</pre>
} server { listen 443 ssl reuseport; listen [:]:443 ssl reuseport; http2 on; server_name grafana.example.com; access log /var/log/nginx/grafana.eccess.log; error_log /var/log/nginx/grafana.error.log;

ssl_ertificate /etc/letsencrypt/live/grafana.example.com/fullchain.pem; ssl_certificate key /etc/letsencrypt/live/grafana.example.com/privkey.pem; ssl_trusted_certificate /etc/letsencrypt/live/grafana.example.com/chain.pem;

ss[session timeout = 5m; ss[session_cathe shared:MozSSL:10m; ss[session_tickets off;
SSL protocols TLSV1.2 TLSV1.3; SSL prefer server ciphers on; er L change forme fictor fering can charge, ernue ben nesing can charge ernen nesing ernue from chargen ben visae, ernue ben nesing our charges, bei ben nesing can charge ben nesing ernue ben nesing
ss cuppers cume-cosm-cume-massio-cume-massio-cume-massic-cume-cuba-massic-cume-mas-massic-cume-cuba-cume-cuba-m ss [cach curve X5519:prime256v1:secp384r1:secp521r1; ss[stapling on; ss[stapling varify on:
ss[dhparam /etc/ssl/certs/dhparam.pem; resolver 1.1.1.1 1.0.0.1 [2606:4700:1111] [2606:4700:1001] valid=60s;
resolver_timeout 2s; location / {
proxy_set_header Host \$http host; proxy_pass http://localhost:3000; }
location /api/live { proxy.http version 1.1; proxy fath padar lingrade shttp ungrade;
proxy set header Connection_upgrade; proxy set header Connection_sconnection_upgrade; proxy set header Host shttp host; proxy pass http://oral.bost; 3004;
location /influxdb/ {
access log /var/log/nginx/influx.access.log; error_log /var/log/nginx/influx.error.log; rewrite ^/influxdb\$ /influxdb/ permanent;
rewrite "/influxdb/(*)\$ /51 break; proxy_coakie_path =*'api_ /influxdb/api; proxy_connect timeout 600s;
proxy into version 1.1; proxy pass they/localhost:8086; proxy read timeout 600s; proxy send timeout 600s;
proxy_set_header_Authorization %http authorization; proxy_set_header Connection "upgrade"; proxy_set_header Host \$http.host;
proxy_set_neader / upgrade \$http://upgrade; proxy_set_neader X-Forwarded-For \$proxy_add _x_forwarded_for; proxy_set_neader X-Forwarded-Proto https;
plox/set neader A-neat-IF Stemote adur; sub_filter 'src='/' 'src='/influxdb/'s'; sub_filter 'src='/' 'src='/influxdb/';
sub_filter 'data-basepath="' 'data-basepath="/influxdb/'; sub_filter 'n.p='/influxdb/"; sub_filter '0.p='/influxdb/";
sub_filter '/api/' '/inflwad/api/'; sub_filter 'api/v2/query' 'inflwadb/api/v2/query'; sub_filter '/health' '/inflwadb/health';
sub filter types text/css text/javascript application/javascript application/json; sub_filter_once_off; }
/# enforce HTTPS server { Listen 80:
listen [::]:80; server name grafana.example.com; return 301 https://\$hostSrequest uri;
Save the file by pressing Ctrl + X and entering Y when prompted.
verny your reginz configuration.
s sudo nginx - t
Restart the Nginx server.
\$ sudo systemctl restart nginx
Configure Telegraf for HTTPS
Open the file /etc/telegraf/telegraf.conf for editing.
\$ sudo nano /etc/telegraf/telegraf.conf
Search for the section [[outputs.influxdb_v2]] and change the value of the URL to https://grafana.nspeaks.com/influxdb so that the data between InfluxDB and Telegraf is secured.
urls = ["https://grafana.example.com/influxdb"]
Save the file by pressing Ctrl + X and entering Y when prompted.
Restart the Telegraf service.
\$ sudo systemctl restart telegraf
Configure Grafana for HTTPS
Next, we need to configure Grafana for HTTPS access. Open the /etc/grafana/grafana.ini file for editing.
\$ sudo nano /etc/grafana/grafana.ini
Find the (server) section and change the domain variable, and root_url as follows.
The public facing domain name used to access grafana from a browser ;domain = localhost
utmain = grafana.example.com # Redirect to correct domain if host header does not match domain # Prevents DNS rebinding attacks
;enforce_domain = true [*] # The full public facing url you use in browser, used for redirects and emails
If you use reverse proxy and sub path specify full url (with sub path) ;root_url = %(protocol)s://%(domain)s:%(http_port)s/ root_url = %(protocol)s://%(domain)s
Save the file by pressing Ctrl + X and entering Y when prompted.
Restart the Grafana Server.
\$ sudo systemctl restart grafana-server
Close Firewall Ports for InfluxDB and Grafana
You should also close the InfluxDB and Grafana ports.
\$ suda ufw delete allaw 8086 \$ suda ufw delete allaw 3000
Grafana should be accessible at https://grafana.example.com and InfluxDB UI and API should both be accessible at the URL https://grafana.example.com/influv/h

Conclusion

This concludes the tutorial about installing and configuring the TIG Stack on a Debian 12 server. If you have any questions, post them in the comments below.