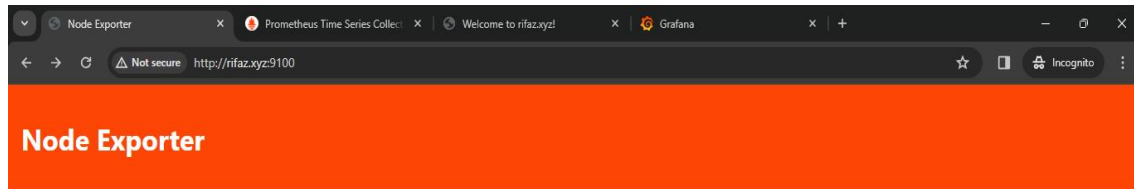


Monitoring and logging - rules writing

- > Launch an EC2 instance
- > Install Node Exporter, Prometheus, and Grafana
- > <https://jhooq.com/prometheus-grafana-setup/#3-installing-the-grafana>

Node Exporter



Prometheus Node Exporter

Version: (version=1.7.0, branch=HEAD, revision=7333465abf9efba81876303bb57e6fadb946041b)

- [Metrics](#)

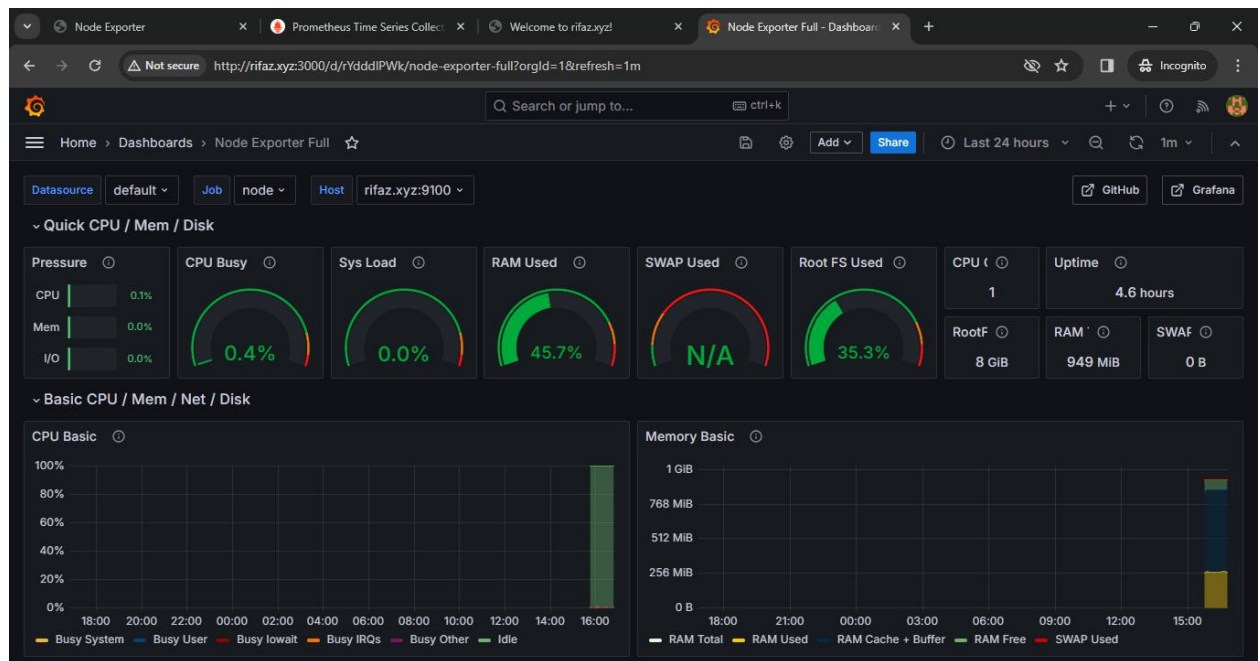
Prometheus

A screenshot of the Prometheus web interface showing the 'Targets' page. The browser tabs are the same as in the previous image. The address bar shows 'http://rifaz.xyz:9090/targets?search='. The Prometheus header includes 'Prometheus', 'Alerts', 'Graph', 'Status', and 'Help'. Below the header, there are filters for 'All scrape pools', 'All', 'Unhealthy', and 'Collapse All'. A search bar is labeled 'Filter by endpoint or labels'. On the right, there are status indicators: 'Unknown', 'Unhealthy', and 'Healthy'. Below these, there are links for 'node (1/1 up)' and 'prometheus (2/2 up)'. A table lists the targets with columns for Endpoint, State, Labels, Last Scrape, Scrape Duration, and Error.

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://rifaz.xyz:9090/metrics	UP	instance="rifaz.xyz:9090" job="prometheus"	5.511s ago	7.969ms	
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	11.84s ago	6.593ms	

rifaz.xyz:9090/graph

Grafana



Setup email integration for Alert Notification inside Grafana.

-> <https://youtu.be/nW5AuEtSqVc?si=Z4rHdVnX0uVf1NLN>
-> <https://youtu.be/U69YYWV7BW0?si=6jS8nm22Z25adEfX>
-> <https://youtu.be/g0gBKtcDOYc?si=kcs72wnejUPlbh3>

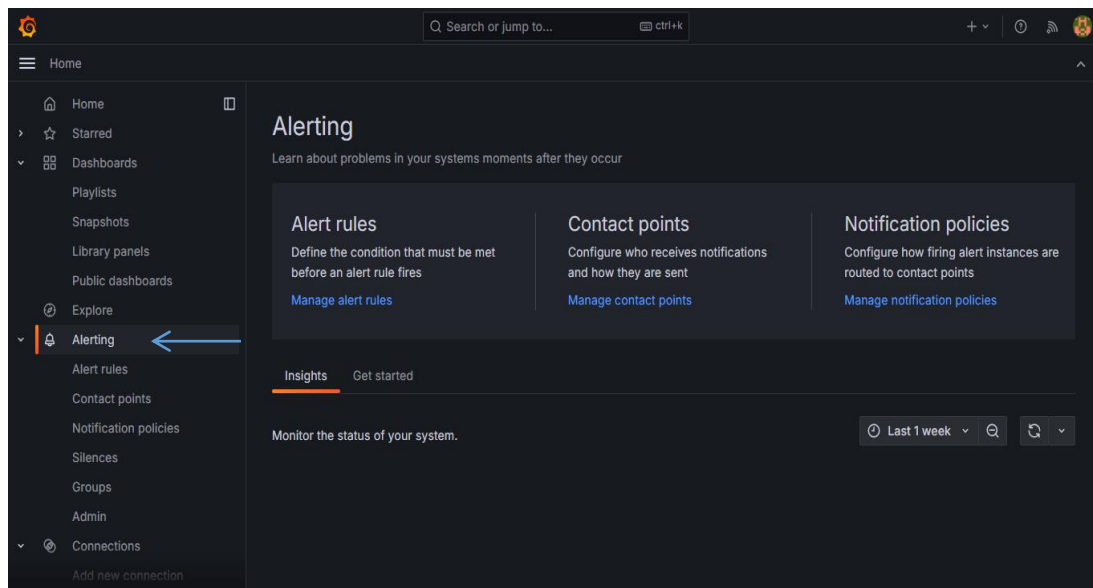
-> Edit the grafana.ini file
`sudo vi /etc/grafana/grafana.ini`

-> Inside grafana.ini search for SMTP and make some changes and save it.

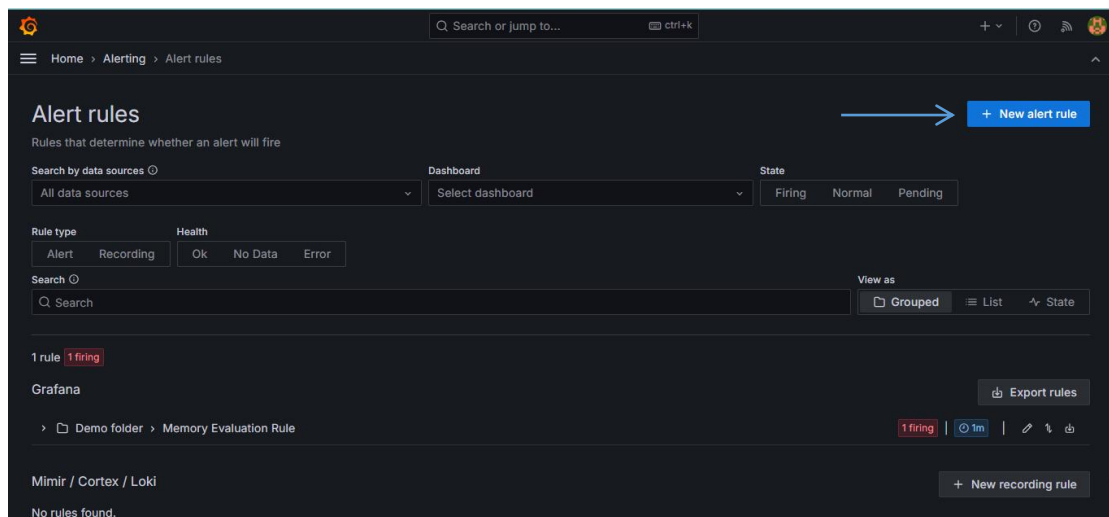
```
[smtp]
enabled = true
host = smtp-relay.brevo.com:587
user = XXXXXXXXXXXX@brevo.com
# If the password contains # or ; you have to wrap it with triple quotes. Ex ""#password;""
password = XXXXXXXXXXXX
;cert_file =
;key_file =
skip_verify = true
from_address = admin@grafana.localhost
from_name = Grafana
# EHLO identity in SMTP dialog (defaults to instance_name)
ehlo_identity = dashboard.example.com
# SMTP startTLS policy (defaults to 'OpportunisticStartTLS')
starttls_policy = NoStartTLS
# Enable trace propagation in e-mail headers, using the 'traceparent', 'tracestate' and (optionally) 'baggage' fields (defaults to false)
enable_tracing = false
```

-> Restart grafana

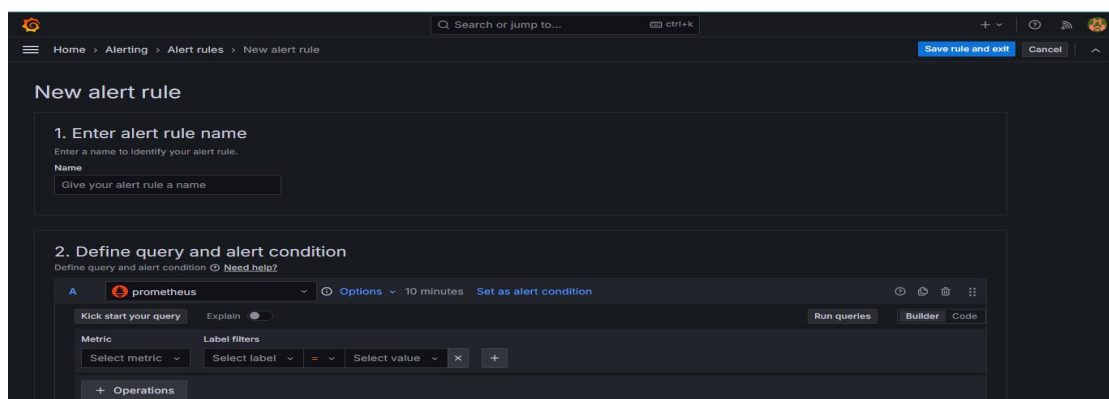
-> In order to create Alert Notification go to **Alerting** Option Inside Grafana.



-> Then first create the Alert Rules for that go to **Manage alert rules** and then click on **New Alert Rule**. Inside that create a alert rule.

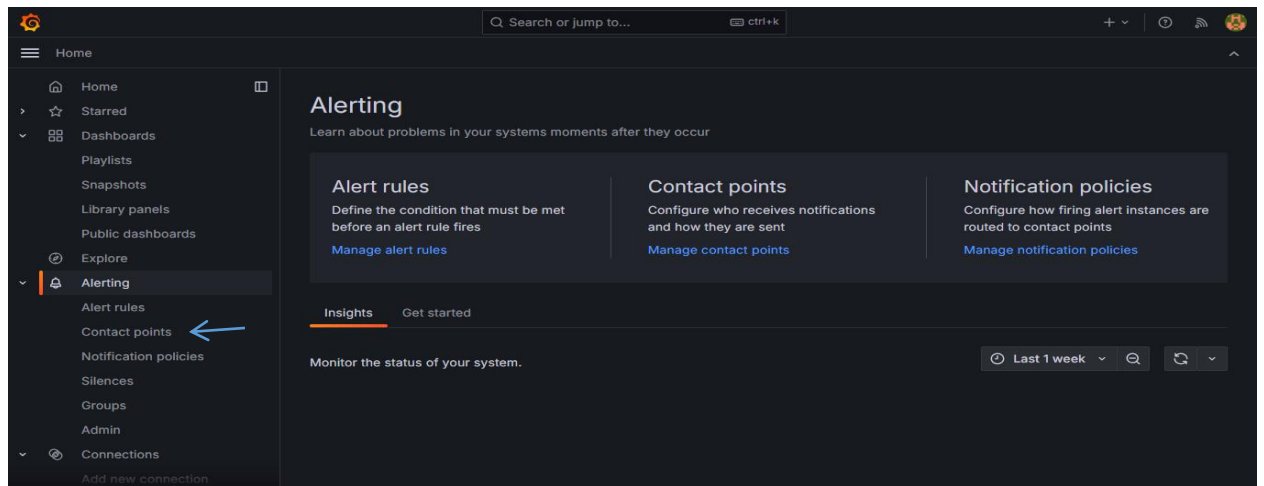


-> Edit the information for alert Rule.

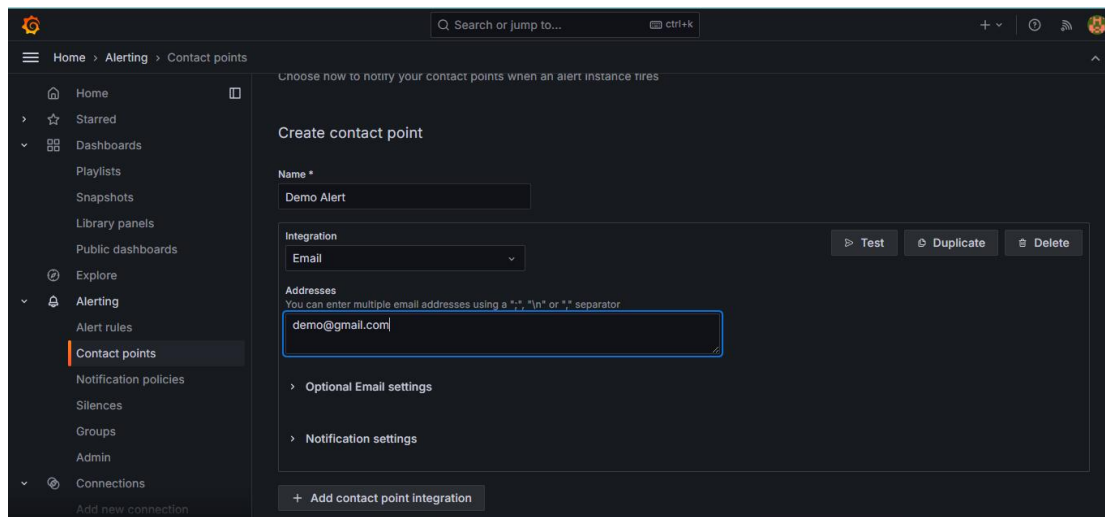


-> Once Edited the Alert Rule then save and exit from it.

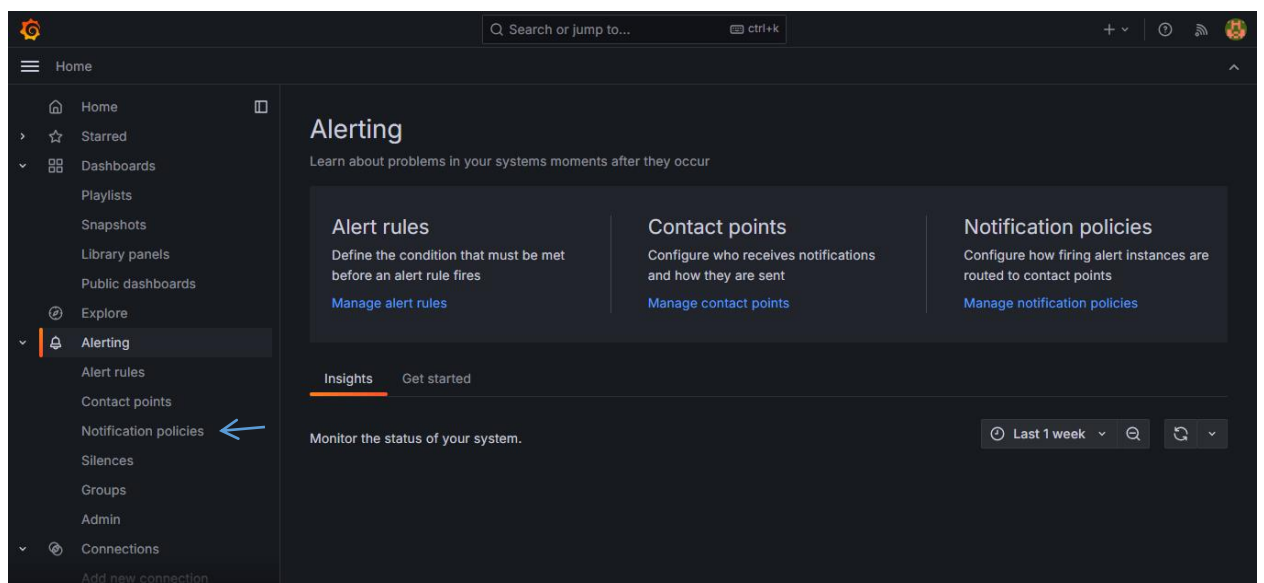
-> Next go to Contact Points where you can set to whom you want to send the Notification alert.



-> Then click on **Add cotact point** and set the contact details and then save and exit.



-> Then to send notification you can edit **Notification policies**



Edit notification policy

Matching labels

Label	Operator	Value	
team	=	infra	

+ Add matcher

Contact point

infra tea email

Continue matching subsequent sibling nodes ☐

Override grouping ☐

Override general timings ☐

Mute timings

Add mute timing to policy

- > Edit notification policy and save it
- > Once all this is done you will receive a notification alert to your email whenever there is a conflict in dashboard.

mail.google.com/mail/u/0/?tab=rm&ogbl#inbox/FMfcgzGxSRHmhvbwZNjxFTsCTWtPrqQ

Gmail Search mail 1 of 4,489

Grafana <admin@2621889821-sender-sib.com> to me 10:50 AM (33 minutes ago) ☆ 😊 ↶ ⋮

Grafana

Demo folder > Demo Alert

1 firing instances

Firing	Demo Alert	View alert
<p>Summary</p> <p>Memory is Above threshold</p> <p>Values</p> <p>A=9.95344384e+08 C=1</p>		

The screenshot shows a Gmail inbox with three emails from Grafana. The first email is titled "[FIRING:1] Demo Alert Demo folder (rifaz.xyz:9100 node infra)" and contains the text "1 firing alert instance". The second email is titled "Firing Demo Alert View alert Summary Memory is Above threshold Values A=9.95344384e+08 C=1 Labels alertname Demo Alert grafana_folder Demo folder instance rifaz" and contains the text "Firing Demo Alert View alert Summary Memory is Above threshold Values A=9.95344384e+08 C=1 Labels alertname Demo Alert grafana_folder Demo folder instance rifaz". The third email is titled "1 resolved alert instance" and contains the text "1 resolved alert instance". The Grafana logo is visible at the bottom of the screenshot.