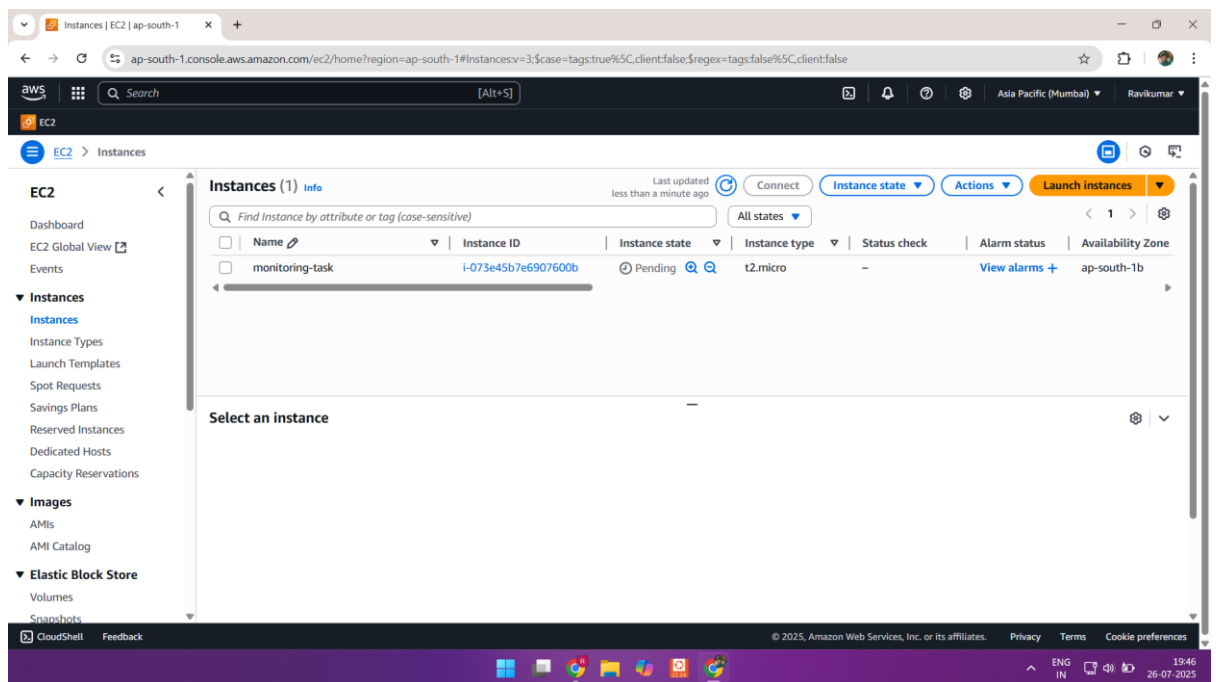


Install Prometheus and Grafana on a Linux EC2 machine, connect Prometheus to Grafana, and create a dashboard to view metrics.

1. First I create a EC2 instance and connect with ubuntu through putty. Then I installed a prometheus and node exporter in ubuntu using commends, during installation prometheus.yml file need to create and give it to the port for node exporter target port is 9100, for Prometheus target port 9090, this is the default port no, we need to give on that yaml file.
2. After installed both need to check in browser through public ip followed by port, for public ip with 9090 prometheus dashboard will be open, for public ip with 9100 port node exporter metrics should be open.
3. After we need to install grafana in ubuntu using installation commends. For this default port no is 3000, after successfully installed, open in browser public ip with port 3000, it will show login, both user and password should admin for default, after that inside dashboard we need to connect prometheus to Grafana in dashboard, connection -> data source -> add the prometheus plugin make the localhost ip then save and test.
4. After that import dashboard -> put on 1860 in dashboard id then import, it will open the node exporter full dashboard metrics, its connected prometheus with node exporter to Grafana.



[illegible]

ubuntu@ip-172-31-9-90: /opt/prometheus

GNU nano 7.2 /etc/systemd/system/prometheus.service *

```
[Unit]
Description=Prometheus Monitoring
Wants=network-online.target
After=network-online.target

[Service]
User=prometheus
ExecStart=/opt/prometheus/prometheus \
--config.file=/etc/prometheus/prometheus.yml \
--storage.tsdb.path=/opt/prometheus/data

[Install]
WantedBy=default.target
```

Help Exit Write Out Read File Where Is Replace Cut Paste Execute Justify Location Go To Line Undo Redo Set Mark Copy To Bracket Where Was Previous Next Back Forward

SecurityGroup | EC2 | ap-south- Prometheu Time Series Collec

65.0.109.88:9090/graph?g0.expr=&g0.tab=1&g0.display_mode=lines&g0.show_exemplars=0&g0.range_input=1h

Prometheus Alerts Graph Status Help

☐ Use local time ☐ Enable query history ☒ Enable autocomplete ☒ Enable highlighting ☒ Enable linter

Q Expression (press Shift+Enter for newlines) Execute

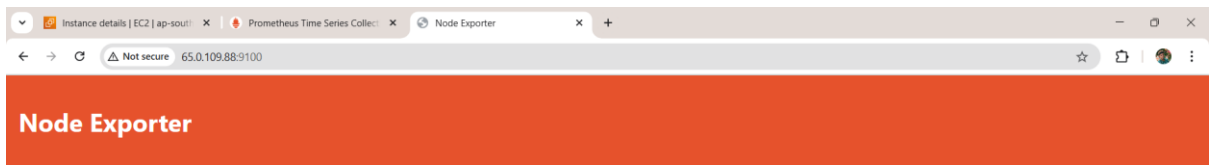
Table Graph

Evaluation time

No data queried yet

Add Panel Remove Panel

20:00 26-07-2025



Prometheus Node Exporter

Version: (version=1.8.1, branch=HEAD, revision=400c3979931613db930ea035f39ce7b377cddb5b)

- [Metrics](#)

```
ubuntu@ip-172-31-9-90:/opt$ sudo apt install -y software-properties-common
sudo add-apt-repository "deb https://packages.grafana.com/oss/deb stable main"
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
sudo apt update
sudo apt install grafana -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
software-properties-common is already the newest version (0.99.49.2).
software-properties-common set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
Repository: 'deb https://packages.grafana.com/oss/deb stable main'
Description:
Archive for codename: stable components: main
More info: https://packages.grafana.com/oss/deb
Adding repository.
Press [ENTER] to continue or Ctrl-C to cancel.
Adding deb entry to /etc/apt/sources.list.d/archive_uri-https_packages_grafana_com_oss_deb-noble.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-https_packages_grafana_com_oss_deb-noble.list
Hit:1 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1-ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:4 https://packages.grafana.com/oss/deb stable InRelease [7661 B]
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Err:4 https://packages.grafana.com/oss/deb stable InRelease
  The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 963FA27710458545
Reading package lists... 5%
```

Setting up musl:amd64 (1.2.4-2) ...
Setting up grafana (12.1.0) ...
info: Selecting UID from range 100 to 999 ...

info: Adding system user 'grafana' (UID 111) ...
info: Adding new user 'grafana' (UID 111) with group 'grafana' ...
info: 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 man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Pending kernel upgrade!
Running kernel version:
6.8.0-1029-aws
Diagnostics:
The currently running kernel version is not the expected kernel version 6.14.0-1009-aws.

Restarting the system to load the new kernel will not be handled automatically, so you should consider rebooting.

Restarting services...

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart serial-getty@ttyS0.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service


No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ session #1: sshd[852,1112]
ubuntu @ user manager service: systemd[1006]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-9-90:/opt\$ sudo systemctl daemon-reload
sudo systemctl enable grafana-server
sudo systemctl start grafana-server
Synchronizing state of grafana-server.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable grafana-server
Created symlink /etc/systemd/system/multi-user.target.wants/grafana-server.service -> /usr/lib/systemd/system/grafana-server.service.
ubuntu@ip-172-31-9-90:/opt\$

Instance details | EC2 | ap-southeast-1 | Prometheus Time Series Collector | Node Exporter | Grafana

← → ↻ ⚠ Not secure 65.0.109.88:3000/login



Welcome to Grafana

Email or username

Password

Log in

[Forgot your password?](#)

[Documentation](#) | [Support](#) | [Community](#) | [Open Source](#) | Grafana v12.1.0 (cc07b6ce7e)

ENG IN 2002 26-07-2025

Instance details | EC2 | ap-south-1

Prometheus Time Series Collect

Node Exporter

prometheus - Data sources - C

65.0.109.88:3000/connections/datasources/edit/et3s5moefzlsa

Not secure

Grafana

Home

Bookmarks

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Dashboards

Explore

Drilldown

Alerting

Connections

Add new connection

Data sources

Administration

Home > Connections > Data sources > prometheus

Search...

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+ v

🔔

prometheus

Type: Prometheus

Alerting

Supported

Explore data

Build a dashboard

Type: Prometheus

Alerting

Supported

Explore data

Build a dashboard

Settings

Dashboards

Configure your Prometheus data source below

Or skip the effort and get Prometheus (and Loki) as fully-managed, scalable, and hosted data sources from Grafana Labs with the [free-forever Grafana Cloud plan](#).

Name

prometheus

Default

☒

Before you can use the Prometheus data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#).

Fields marked with * are required

Connection

Prometheus server URL *

http://localhost:9090

Please enter a valid URL

Incremental querying (beta)

☐

Disable recording rules (beta)

☐

Other

Custom query parameters

Example: max_source_resolution=5m&in

HTTP method

POST

Series limit

40000

Use series endpoint

☐

Exemplars

+ Add

Successfully queried the Prometheus API.

Next, you can start to visualize data by [building a dashboard](#), or by querying data in the [Explore view](#).

Delete

Save & test

ENG IN

20:06

26-07-2025

Instance details | EC2 | ap-south-1

Prometheus Time Series Collect

Node Exporter

prometheus - Data sources - C

localhost

65.0.109.88:3000/connections/datasources/edit/et3s5moefzlsa

Not secure

Grafana

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Connections

Add new connection

Data sources

Administration

Home > Connections > Data sources > prometheus

Search...

ctrl+k

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🔔

Incremental querying (beta)

☐

Disable recording rules (beta)

☐

Other

Custom query parameters

Example: max_source_resolution=5m&in

HTTP method

POST

Series limit

40000

Use series endpoint

☐

Exemplars

+ Add

Successfully queried the Prometheus API.

Next, you can start to visualize data by [building a dashboard](#), or by querying data in the [Explore view](#).

Delete

Save & test

ENG IN

20:07

26-07-2025

