

PROMETHEUS & GRAFANA

Prometheus is an open-source system monitoring and alerting toolkit originally built at SoundCloud.

It is now a standalone open source project .

Prometheus joined the Cloud Native Computing Foundation in 2016 as the second hosted project, after Kubernetes.

Features

1. a multi-dimensional data model with time series data identified by metric name and key/value pairs
2. PromQL, a flexible query language to leverage this dimensionality
3. no reliance on distributed storage; single server nodes are autonomous
4. time series collection happens via a pull model over HTTP
5. pushing time series is supported via an intermediary gateway
6. targets are discovered via service discovery or static configuration
7. multiple modes of graphing and dashboarding support

```
hantu2645@LAPTOP-1TV8ND28:~$ minikube start
minikube v1.35.0 on Ubuntu 24.04 (amd64)
Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Updating the running docker "minikube" container ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
  * Using image gcr.io/k8s-minikube/storage-provisioner:v5
  * Enabled addons: default-storageclass, storage-provisioner
  * Done! kubectrl is now configured to use "minikube" cluster and "default" namespace by default
E0322 07:46:14.413326    2401 logFile.go:53] failed to close the audit log: invalid argument
hantu2645@LAPTOP-1TV8ND28:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

hantu2645@LAPTOP-1TV8ND28:~$ wget https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
tar -xvf prometheus-2.47.1.linux-amd64.tar.gz
sudo mkdir -p /data /etc/prometheus
cd prometheus-2.47.1.linux-amd64/
sudo mv prometheus.promtool /usr/local/bin/
sudo mv consoles/ console_libraries/ /etc/prometheus/
sudo mv prometheus.yml /etc/prometheus/prometheus.yml
sudo chown -R prometheus:prometheus /etc/prometheus/ /data/
--2025-03-22 07:46:46-- https://github.com/prometheus/prometheus/releases/download/v2.47.1/prometheus-2.47.1.linux-amd64.tar.gz
Resolving github.com (github.com)... 20.207.73.82
Connecting to github.com (github.com)|20.207.73.82|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/2f9b7b37-63a0-428b-adb5-0294482fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20250322T074648Z&X-Amz-Expires=300&X-Amz-Signature=286c34944cb17a56c75ba3f18c576a663cf7294f115fbbe01aa8e214b731e7f&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dprometheus-2.47.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2025-03-22 07:46:47-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/6838921/2f9b7b37-63a0-428b-adb5-0294482fd743?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20250322T074648Z&X-Amz-Expires=300&X-Amz-Signature=286c34944cb17a56c75ba3f18c576a663cf7294f115fbbe01aa8e214b731e7f&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dprometheus-2.47.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.109.133, 185.199.110.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 95713066 (91M) [application/octet-stream]
Saving to: 'prometheus-2.47.1.linux-amd64.tar.gz'
```

```

The job identifier is 1027 and the job result is failed.
nandhu2645@LAPTOP-1TVBND2B:~$ prometheus --config.file=/etc/prometheus/prometheus.yml
ts=2025-03-22T07:49:16.9012 caller=main.go:539 level=info msg="No time or size retention was set so using the default time retention" duration=15d
ts=2025-03-22T07:49:16.9012 caller=main.go:583 level=info msg="Starting Prometheus Server" mode=server version="(version=2.47.1, branch=HEAD, revision=c4d1a8beff37cc084f1dc4ab9d2e73193f51aabb)"
ts=2025-03-22T07:49:16.9012 caller=main.go:588 level=info build_context="(go=go1.21.1, platform=linux/amd64, user=root@4829338363be, date=20231004-10:31:16, tags=netgo,bu
iltinassets,stringlabels)"
ts=2025-03-22T07:49:16.9012 caller=main.go:589 level=info host_details="(Linux 5.15.146.1-microsoft-standard-WSL2 #1 SMP Thu Jan 11 04:09:03 UTC 2024 x86_64 LAPTOP-1TVBND
2B )"
ts=2025-03-22T07:49:16.9012 caller=main.go:590 level=info fd_limits="(soft=1048576, hard=1048576)"
ts=2025-03-22T07:49:16.9022 caller=main.go:591 level=info vm_limits="(soft=unlimited, hard=unlimited)"
ts=2025-03-22T07:49:16.9082 caller=web.go:566 level=info component=web msg="Start listening for connections" address=0.0.0.0:9090
ts=2025-03-22T07:49:16.9102 caller=main.go:1024 level=info msg="Starting TSDB ..."
ts=2025-03-22T07:49:16.9112 caller=tsdb.go:274 level=info component=web msg="Listening on" address=[::]:9090
ts=2025-03-22T07:49:16.9112 caller=tsdb.go:277 level=info component=web msg="TLS is disabled." http2=false address=[::]:9090
ts=2025-03-22T07:49:16.9282 caller=head.go:680 level=info component=tsdb msg="Replaying on-disk memory mappable chunks if any"
ts=2025-03-22T07:49:16.9282 caller=head.go:681 level=info component=tsdb msg="On-disk memory mappable chunks replay completed" duration=2.124µs
ts=2025-03-22T07:49:16.9282 caller=head.go:689 level=info component=tsdb msg="Replaying WAL, this may take a while"
ts=2025-03-22T07:49:16.9322 caller=head.go:760 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSegment=0
ts=2025-03-22T07:49:16.9322 caller=head.go:797 level=info component=tsdb msg="WAL replay completed" checkpoint_replay_duration=20.398µs wal_replay_duration=4.180105ms wbl
_replay_duration=341ns total_replay_duration=4.164615ms
ts=2025-03-22T07:49:16.9402 caller=main.go:1045 level=info fs_type=EXT4_SUPER_MAGIC
ts=2025-03-22T07:49:16.9402 caller=main.go:1048 level=info msg="TSDB started"
ts=2025-03-22T07:49:16.9402 caller=main.go:1229 level=info msg="Loading configuration file" filename=/etc/prometheus/prometheus.yml
ts=2025-03-22T07:49:16.9412 caller=main.go:1266 level=info msg="Completed loading of configuration file" filename=/etc/prometheus/prometheus.yml totalDuration=1.044549ms
db_storage=2.338µs remote_storage=2.702µs web_handler=668ns query_engine=1.313µs scrape=385.093µs scrape_sd=163.431µs notify=32.667µs notify_sd=191.746µs rules=13.37µs tr
acing=8.683µs
ts=2025-03-22T07:49:16.9412 caller=main.go:1009 level=info msg="Server is ready to receive web requests."
ts=2025-03-22T07:49:16.9412 caller=manager.go:1009 level=info component="rule manager" msg="Starting rule manager..."
"Cts=2025-03-22T07:49:43.0592 caller=main.go:859 level=warn msg="Received SIGTERM, exiting gracefully..."
ts=2025-03-22T07:49:43.0592 caller=main.go:883 level=info msg="Stopping scrape discovery manager..."
ts=2025-03-22T07:49:43.0592 caller=main.go:897 level=info msg="Stopping notify discovery manager..."
ts=2025-03-22T07:49:43.0592 caller=manager.go:1023 level=info component="rule manager" msg="Stopping rule manager..."
ts=2025-03-22T07:49:43.0592 caller=manager.go:1033 level=info component="rule manager" msg="Rule manager stopped"
ts=2025-03-22T07:49:43.0592 caller=main.go:934 level=info msg="Stopping scrape manager..."
ts=2025-03-22T07:49:43.0592 caller=main.go:879 level=info msg="Scrape discovery manager stopped"
ts=2025-03-22T07:49:43.0592 caller=main.go:893 level=info msg="Notify discovery manager stopped"
ts=2025-03-22T07:49:43.0612 caller=main.go:926 level=info msg="Scrape manager stopped"
ts=2025-03-22T07:49:43.1072 caller=notifier.go:603 level=info component=notifier msg="Stopping notification manager..."
ts=2025-03-22T07:49:43.1072 caller=main.go:1155 level=info msg="Notifier manager stopped"
ts=2025-03-22T07:49:43.1072 caller=main.go:1167 level=info msg="See you next time!"
nandhu2645@LAPTOP-1TVBND2B:~$ sudo nano /etc/systemd/system/prometheus.service
nandhu2645@LAPTOP-1TVBND2B:~$ ls -l /var/lib/prometheus
ls -l /etc/prometheus

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nandhu2645@LAPTOP-1TVBND2B:~$ ls -l /var/lib/prometheus
ls -l /etc/prometheus
ls: cannot access '/var/lib/prometheus': No such file or directory
total 12
drwxr-xr-x 2 prometheus prometheus 4096 Oct  4 2023 console_libraries
drwxr-xr-x 2 prometheus prometheus 4096 Oct  4 2023 consoles
-rw-r--r-- 1 prometheus prometheus 934 Oct  4 2023 prometheus.yml
nandhu2645@LAPTOP-1TVBND2B:~$ sudo chown -R prometheus:prometheus /var/lib/prometheus /etc/prometheus
chown: cannot access '/var/lib/prometheus': No such file or directory
nandhu2645@LAPTOP-1TVBND2B:~$ sudo mkdir -p /var/lib/prometheus
sudo chown -R prometheus:prometheus /var/lib/prometheus /etc/prometheus
sudo chmod -R 775 /var/lib/prometheus
nandhu2645@LAPTOP-1TVBND2B:~$ sudo nano /etc/systemd/system/prometheus.service
nandhu2645@LAPTOP-1TVBND2B:~$ ExecStart=/usr/local/bin/prometheus --config.file=/etc/prometheus/
-bash: --config.file=/etc/prometheus/prometheus.yml: No such file or directory
nandhu2645@LAPTOP-1TVBND2B:~$ sudo systemctl daemon-reload
sudo systemctl restart prometheus
sudo systemctl status prometheus
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-03-22 07:51:49 UTC; 17ms ago
 Main PID: 3208 (prometheus)
    Tasks: 5 (limit: 4576)
  Memory: 5.0M ()
   CGroup: /system.slice/prometheus.service
           └─3208 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --sto

Mar 22 07:51:49 LAPTOP-1TVBND2B systemd[1]: Started prometheus.service - Prometheus.

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```

handhu2645@LAPTOP-1TVBND2B:~$ ls -l /var/lib/prometheus
ls -l /etc/prometheus
ls: cannot access '/var/lib/prometheus': No such file or directory
total 12
drwxr-xr-x 2 prometheus prometheus 4096 Oct  4 2023 console_libraries
drwxr-xr-x 2 prometheus prometheus 4096 Oct  4 2023 consoles
-rw-r--r-- 1 prometheus prometheus 934 Oct  4 2023 prometheus.yml
handhu2645@LAPTOP-1TVBND2B:~$ sudo chown -R prometheus:prometheus /var/lib/prometheus /etc/prometheus
chown: cannot access '/var/lib/prometheus': No such file or directory
handhu2645@LAPTOP-1TVBND2B:~$ sudo mkdir -p /var/lib/prometheus
sudo chown -R prometheus:prometheus /var/lib/prometheus /etc/prometheus
sudo chmod -R 775 /var/lib/prometheus
handhu2645@LAPTOP-1TVBND2B:~$ sudo nano /etc/systemd/system/prometheus.service
handhu2645@LAPTOP-1TVBND2B:~$ ExecStart=/usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/var/lib/prometheus
-bash: --config.file=/etc/prometheus/prometheus.yml: No such file or directory
handhu2645@LAPTOP-1TVBND2B:~$ sudo systemctl daemon-reload
sudo systemctl restart prometheus
sudo systemctl status prometheus
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-03-22 07:51:49 UTC; 17ms ago
     Main PID: 3208 (prometheus)
        Tasks: 5 (limit: 4576)
       Memory: 5.0M (0)
      CGroup: /system.slice/prometheus.service
              └─3208 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/data --web.console.templates=/etc/prometheus
Mar 22 07:51:49 LAPTOP-1TVBND2B systemd[1]: Started prometheus.service - Prometheus.
handhu2645@LAPTOP-1TVBND2B:~$ journalctl -xeu prometheus.service
Support: http://www.ubuntu.com/support

The unit prometheus.service has entered the 'failed' state with result 'exit-code'.
Mar 22 07:47:53 LAPTOP-1TVBND2B systemd[1]: Failed to start prometheus.service - Prometheus.
Subject: A start job for unit prometheus.service has failed
Defined-By: systemd
Support: http://www.ubuntu.com/support

A start job for unit prometheus.service has finished with a failure.

The job identifier is 1027 and the job result is failed.
Mar 22 07:51:49 LAPTOP-1TVBND2B systemd[1]: Started prometheus.service - Prometheus.
Subject: A start job for unit prometheus.service has finished successfully
Defined-By: systemd
Support: http://www.ubuntu.com/support

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handhu2645@LAPTOP-1TVBND2B:~$ sudo systemctl enable prometheus
sudo systemctl start prometheus
sudo systemctl status prometheus
journalctl -u prometheus -f --no-pager
● prometheus.service - Prometheus
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
   Active: active (running) since Sat 2025-03-22 07:51:49 UTC; 2min 45s ago
     Main PID: 3208 (prometheus)
        Tasks: 17 (limit: 4576)
       Memory: 34.6M (0)
      CGroup: /system.slice/prometheus.service
              └─3208 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/data --web.console.templates=/etc/prometheus
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.549Z caller=head.go:681 level=info component=tsdb msg="On-disk memory mappable chunks"
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.549Z caller=head.go:689 level=info component=tsdb msg="Replaying WAL, this may take"
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.551Z caller=head.go:760 level=info component=tsdb msg="WAL segment loaded" segment=0
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.551Z caller=head.go:797 level=info component=tsdb msg="WAL replay completed" checkpoint_replay_du
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.561Z caller=main.go:1045 level=info fs_type=EXT4_SUPER_MAGIC
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.561Z caller=main.go:1048 level=info msg="TSDB started"
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.561Z caller=main.go:1229 level=info msg="Loading configuration file" filename=/etc/p
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.562Z caller=main.go:1266 level=info msg="Completed loading of configuration file" filename=/etc/p
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.562Z caller=main.go:1009 level=info msg="Server is ready to receive web requests."
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.562Z caller=manager.go:1009 level=info component="rule manager" msg="Starting rule
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.549Z caller=head.go:681 level=info component=tsdb msg="On-disk memory mappable chunks replay comp
leted" duration=3.336µs
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.549Z caller=head.go:689 level=info component=tsdb msg="Replaying WAL, this may take a while"
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.551Z caller=head.go:760 level=info component=tsdb msg="WAL segment loaded" segment=0 maxSegment=0
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.551Z caller=head.go:797 level=info component=tsdb msg="WAL replay completed" checkpoint_replay_du
ration=23.064µs wal_replay_duration=1.904012ms wbl_replay_duration=245ns total_replay_duration=1.90952ms
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.561Z caller=main.go:1045 level=info fs_type=EXT4_SUPER_MAGIC
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.561Z caller=main.go:1048 level=info msg="TSDB started"
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.561Z caller=main.go:1229 level=info msg="Loading configuration file" filename=/etc/prometheus/pro
metheus.yml
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.562Z caller=main.go:1266 level=info msg="Completed loading of configuration file" filename=/etc/p
rometheus/prometheus.yml totalDuration=589.261µs db_storage=2.234µs remote_storage=2.64µs web_handler=685ns query_engine=1.265µs scrape=216.449µs scrape_sd=38.129µs notif
y=36.278µs notify_sd=9.695µs rules=2.255µs tracing=6.504µs
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.562Z caller=main.go:1009 level=info msg="Server is ready to receive web requests."
Mar 22 07:51:49 LAPTOP-1TVBND2B prometheus[3208]: ts=2025-03-22T07:51:49.562Z caller=manager.go:1009 level=info component="rule manager" msg="Starting rule manager..."
^C
handhu2645@LAPTOP-1TVBND2B:~$ sudo useradd \
--system \
--no-create-home \
--shell /bin/false node_exporter
handhu2645@LAPTOP-1TVBND2B:~$ wget https://github.com/prometheus/node_exporter/releases/download/v1.6.1/node_exporter-1.6.1.linux-amd64.tar.gz
tar -xvf node_exporter-1.6.1.linux-amd64.tar.gz

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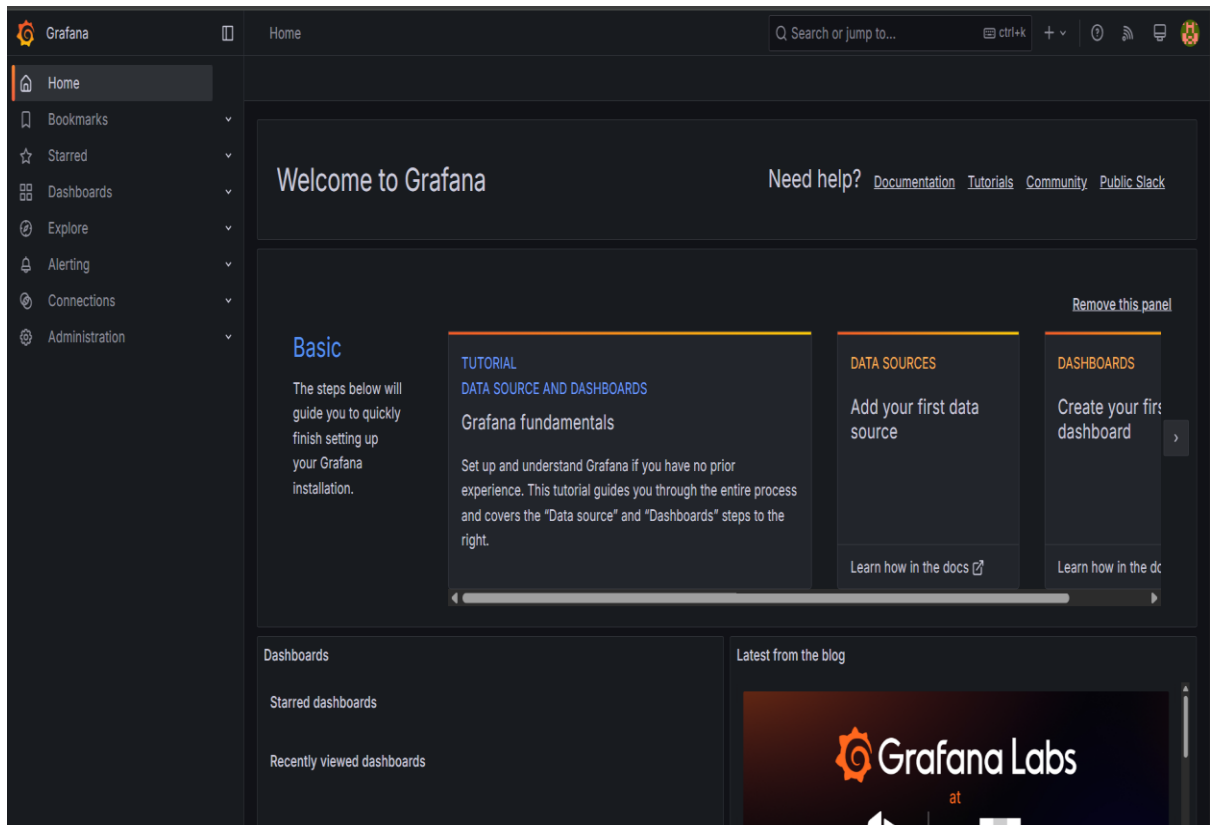
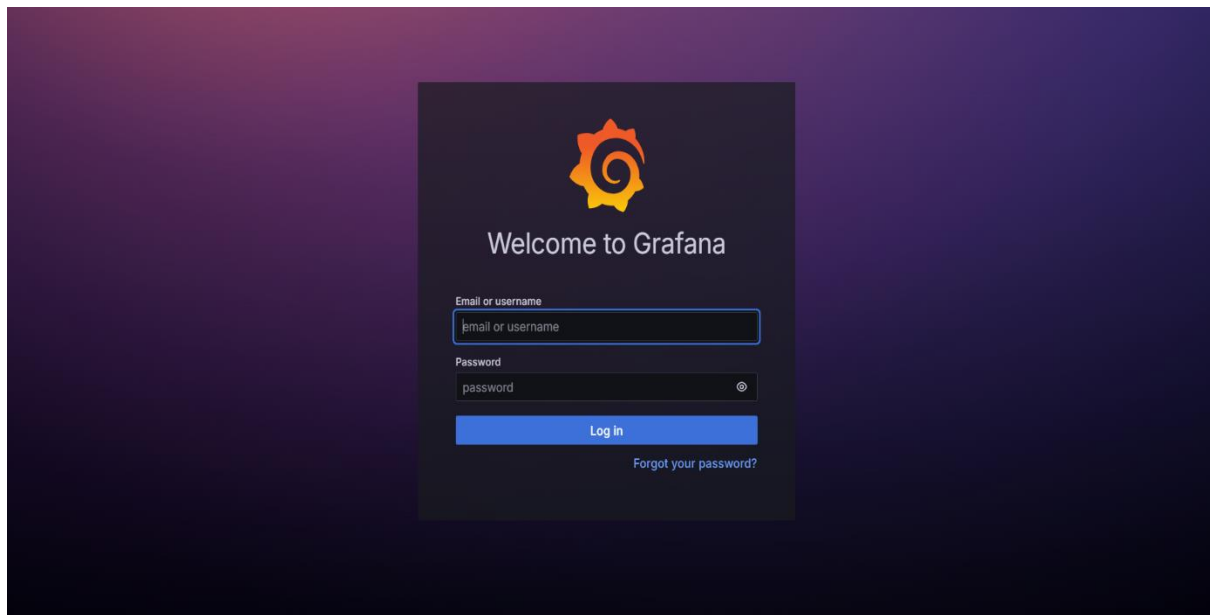
andhu2645@LAPTOP-1TVBND2B:~$ wget https://github.com/prometheus/node_exporter/releases/download/v1.6.1/node_exporter-1.6.1-linux-amd64.tar.gz
tar -xvf node_exporter-1.6.1.linux-amd64.tar.gz
--2025-03-22 07:55:48-- https://github.com/prometheus/node_exporter/releases/download/v1.6.1/node_exporter-1.6.1-linux-amd64.tar.gz
Resolving github.com (github.com)... 28.287.73.82
Connecting to github.com (github.com)|28.287.73.82|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/9524057/5509b569-5c34-471e-8598-c05c0733bb7f?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20250322T075550Z&X-Amz-Expires=300&X-Amz-Signature=89fdc48d73df6b923a0af6b9563e31399772381ae3f1ad9lae3cadfcfd6eb6&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dnode_exporter-1.6.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream [following]
--2025-03-22 07:55:49-- https://objects.githubusercontent.com/github-production-release-asset-2e65be/9524057/5509b569-5c34-471e-8598-c05c0733bb7f?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=releaseassetproduction%2F20250322%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20250322T075550Z&X-Amz-Expires=300&X-Amz-Signature=89fdc48d73df6b923a0af6b9563e31399772381ae3f1ad9lae3cadfcfd6eb6&X-Amz-SignedHeaders=host&response-content-disposition=attachment%3B%20filename%3Dnode_exporter-1.6.1.linux-amd64.tar.gz&response-content-type=application%2Foctet-stream
Resolving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.109.133, 185.199.110.133, ...
Connecting to objects.githubusercontent.com (objects.githubusercontent.com)|185.199.108.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10368103 (9.9M) [application/octet-stream]
Saving to: 'node_exporter-1.6.1.linux-amd64.tar.gz'

node_exporter-1.6.1.linux-amd64.tar.gz 100%[=====] 9.89M 11.4MB/s in 0.9s

2025-03-22 07:55:51 (11.4 MB/s) - 'node_exporter-1.6.1.linux-amd64.tar.gz' saved [10368103/10368103]

node_exporter-1.6.1.linux-amd64/
node_exporter-1.6.1.linux-amd64/NOTICE
node_exporter-1.6.1.linux-amd64/node_exporter
node_exporter-1.6.1.linux-amd64/LICENSE
andhu2645@LAPTOP-1TVBND2B:~$ sudo mv \
    node_exporter-1.6.1.linux-amd64/node_exporter \
    /usr/local/bin/
andhu2645@LAPTOP-1TVBND2B:~$ rm -rf node_exporter*
andhu2645@LAPTOP-1TVBND2B:~$ node_exporter --version
node_exporter, version 1.6.1 (branch: HEAD, revision: 4a1b77600c1873a8233f4ff55afcedbb63bd804)
 build user: root@e586879db11e5
 build date: 20230717-12:10:52
 go version: go1.20.6
 platform: linux/amd64
 tags: netgo osusergo static_build
andhu2645@LAPTOP-1TVBND2B:~$ sudo vim /etc/systemd/system/node_exporter.service
andhu2645@LAPTOP-1TVBND2B:~$ sudo systemctl enable node_exporter
sudo systemctl start node_exporter
sudo systemctl status node_exporter
journalctl -u node_exporter -f --no-pager
Created symlink /etc/systemd/system/multi-user.target.wants/node_exporter.service → /etc/systemd/system/node_exporter.service.

```



Prometheus

AlertsGraphStatus▼Help

⚙️🌙0

☐ 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

Remove Panel

Add Panel

Prometheus

AlertsGraphStatus▼Help

⚙️🌙0

Targets

All scrape pools▼

AllUnhealthyCollapse All

Q

Filter by endpoint or labels

📌Unknown📌Unhealthy📌Healthy

jenkins (0/1 up)

show more

node_export (1/1 up)

show more

prometheus (1/1 up)

show less

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	<div>instance="localhost:9090"</div> <div>job="prometheus"</div>	10.131s ago	4.098ms	


```
localhost:9090/metrics

# HELP go_gc_duration_seconds A summary of the pause duration of garbage collection cycles.
# TYPE go_gc_duration_seconds summary
go_gc_duration_seconds{quantile="0"} 1.9692e-05
go_gc_duration_seconds{quantile="0.25"} 0.000209215
go_gc_duration_seconds{quantile="0.5"} 0.000936643
go_gc_duration_seconds{quantile="0.75"} 0.002846402
go_gc_duration_seconds{quantile="1"} 0.026449772
go_gc_duration_seconds_sum 0.149426974
go_gc_duration_seconds_count 46
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 36
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.21.1"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 2.9120632e+07
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go_memstats_alloc_bytes_total counter
go_memstats_alloc_bytes_total 3.55645768e+08
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table.
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.498583e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 2.050495e+06
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system metadata.
# TYPE go_memstats_gc_sys_bytes gauge
go_memstats_gc_sys_bytes 4.84536e+06
# HELP go_memstats_heap_alloc_bytes Number of heap bytes allocated and still in use.
# TYPE go_memstats_heap_alloc_bytes gauge
go_memstats_heap_alloc_bytes 2.9120632e+07
# HELP go_memstats_heap_idle_bytes Number of heap bytes waiting to be used.
# TYPE go_memstats_heap_idle_bytes gauge
go_memstats_heap_idle_bytes 1.9636224e+07
# HELP go_memstats_heap_inuse_bytes Number of heap bytes that are in use.
# TYPE go_memstats_heap_inuse_bytes gauge
go_memstats_heap_inuse_bytes 3.3316864e+07
# HELP go_memstats_heap_objects Number of allocated objects.
# TYPE go_memstats_heap_objects gauge
go_memstats_heap_objects 128203
# HELP go_memstats_heap_released_bytes Number of heap bytes released to OS.
# TYPE go_memstats_heap_released_bytes gauge
go_memstats_heap_released_bytes 1.5310848e+07
# HELP go_memstats_heap_sys_bytes Number of heap bytes obtained from system.
# TYPE go_memstats_heap_sys_bytes gauge
```

Grafana

Home > Connections > Data sources > prometheus

Q Search or jump to... ctrl+k

Cache level ☐ Low

Incremental querying (beta) ☒

Disable recording rules (beta) ☒

Other

Custom query parameters ☐ Example: max_source_resolution=5m&timeout

HTTP method ☐ POST

Use series endpoint ☒

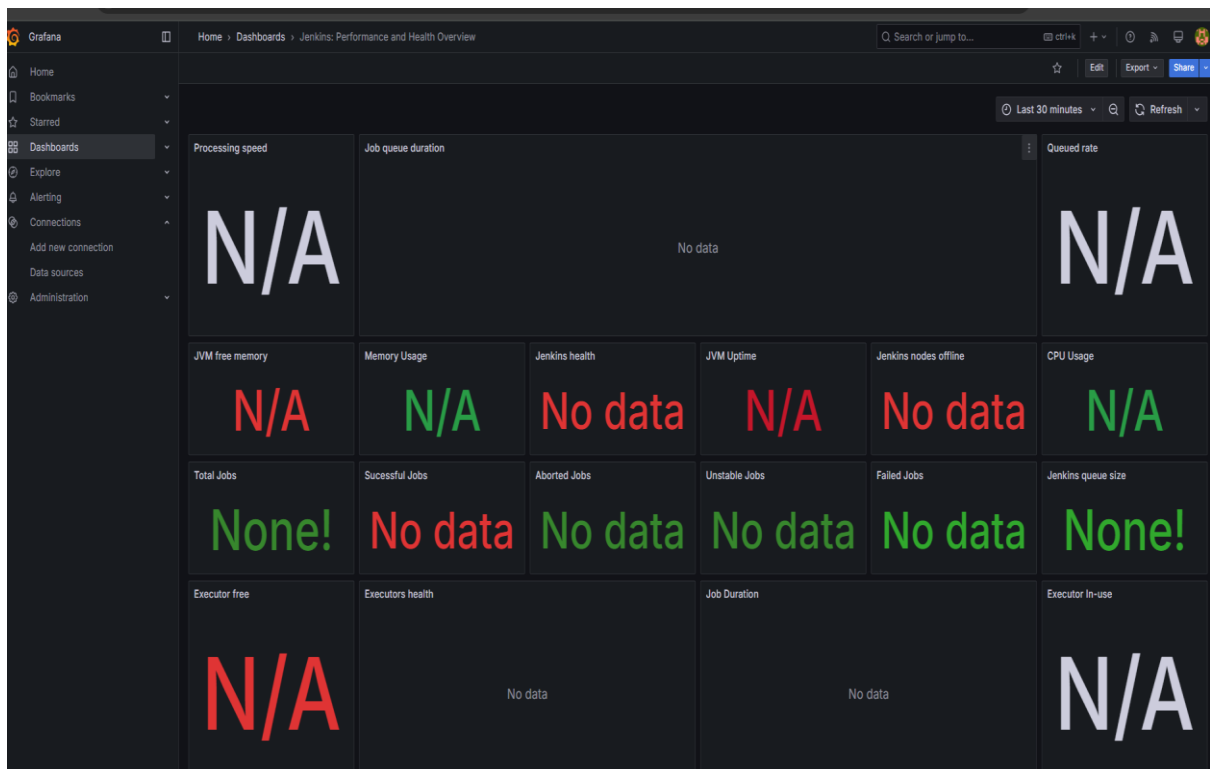
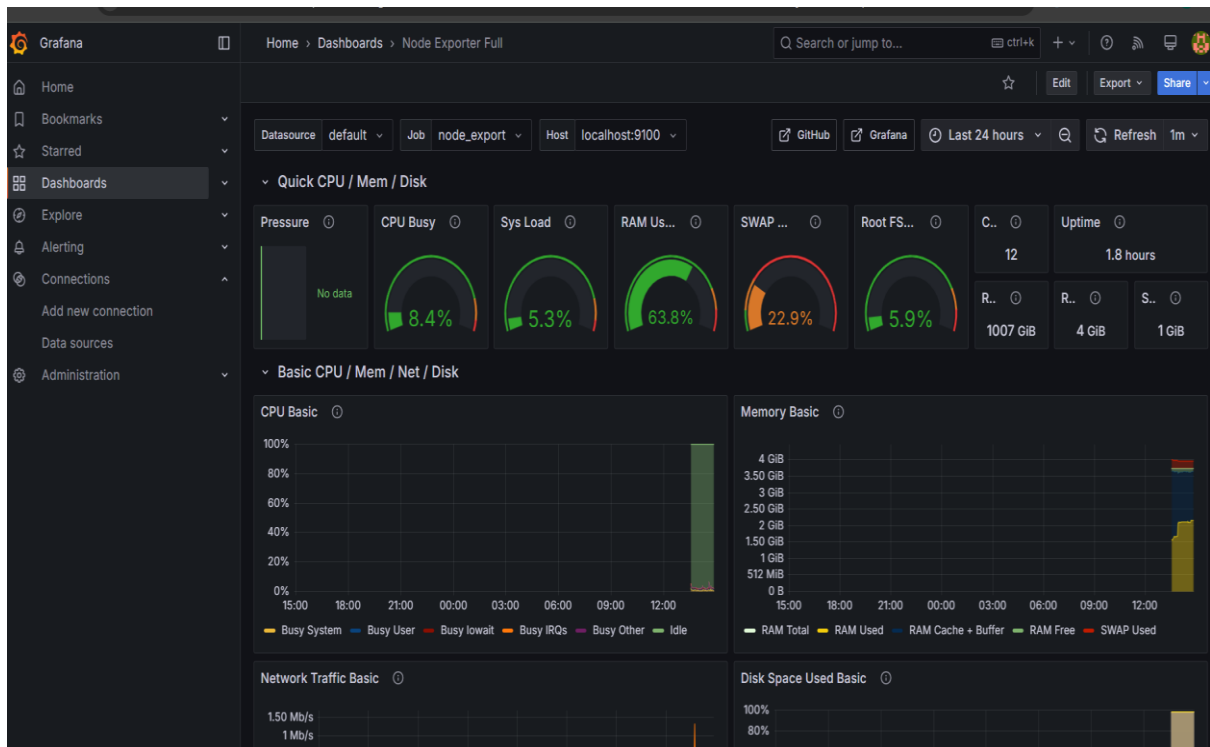
Exemplars

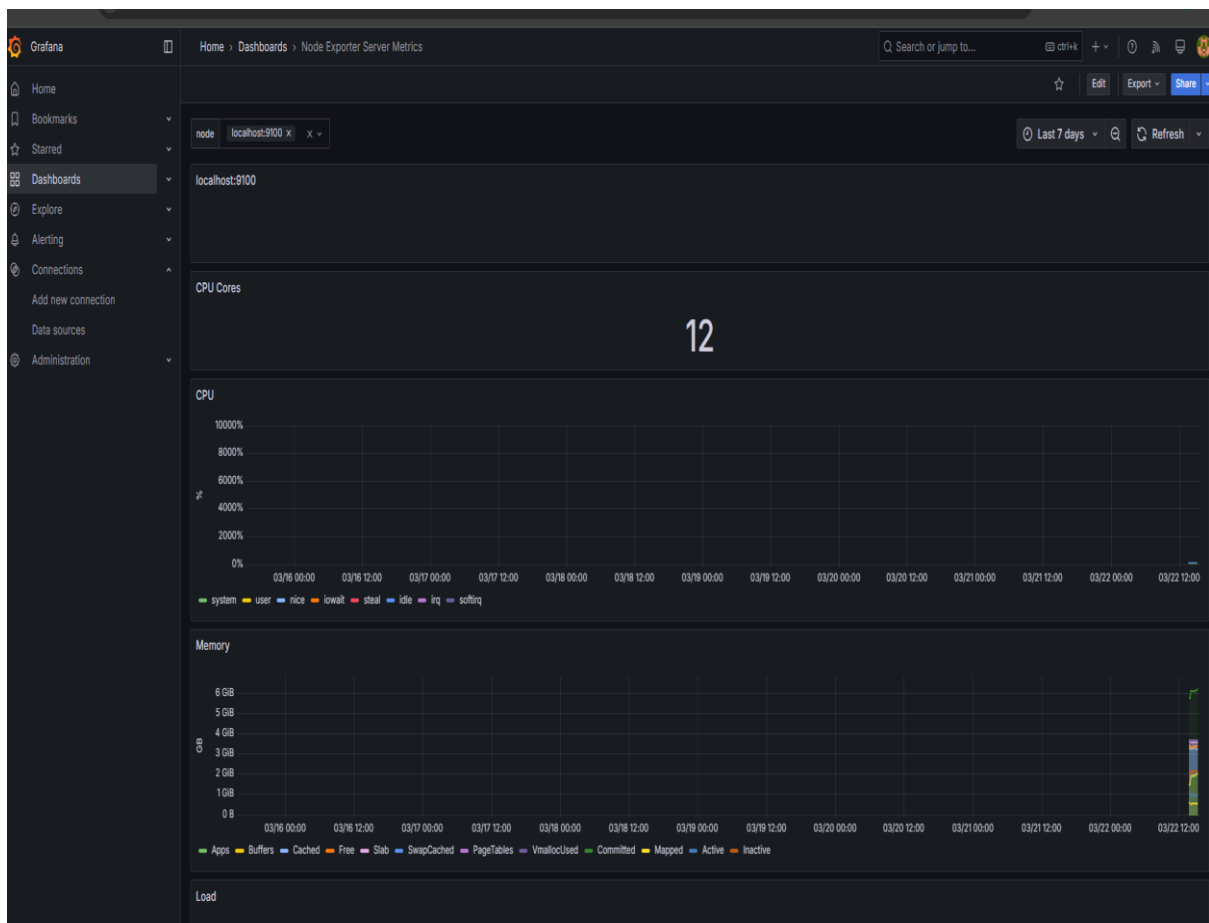
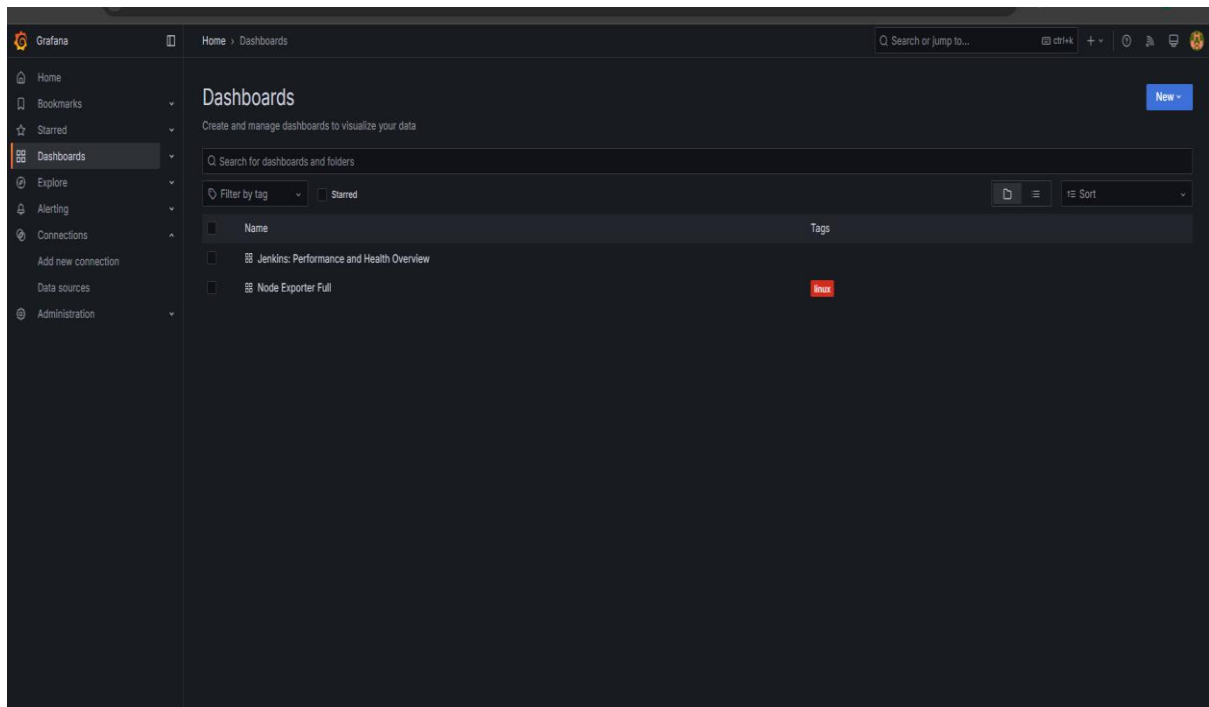
+ Add

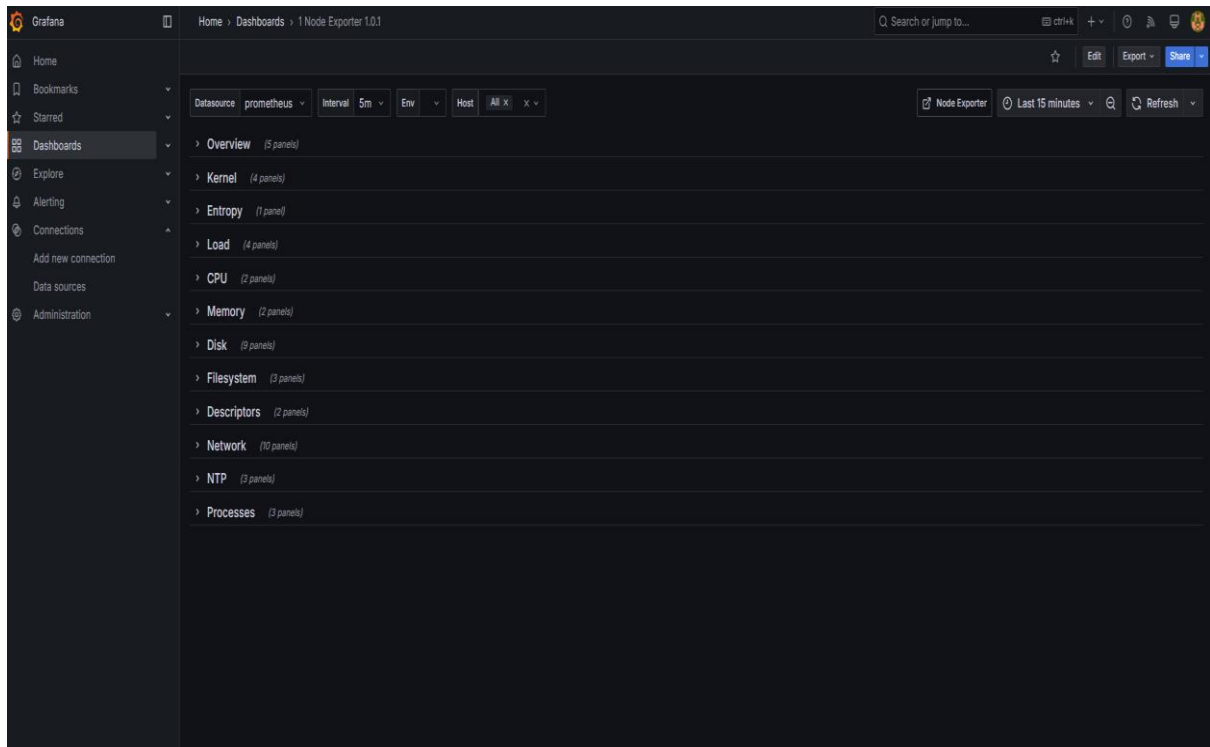
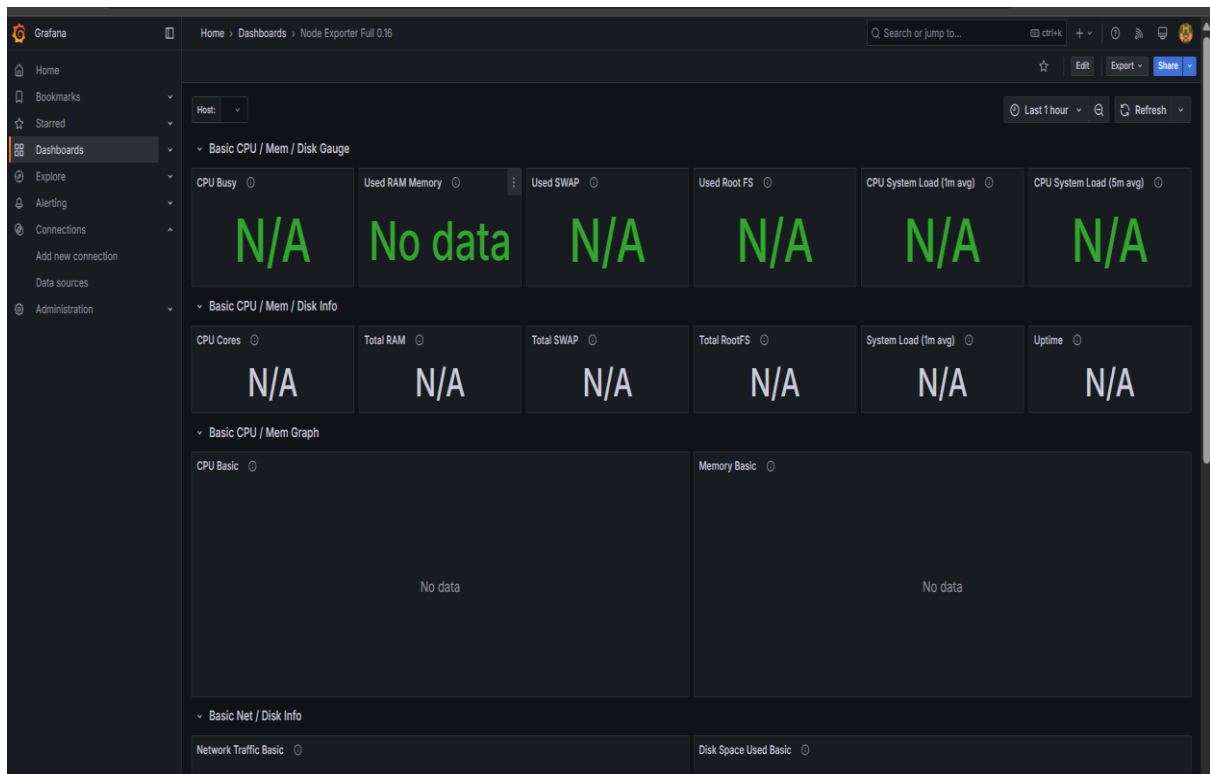
✓ Successfully queried the Prometheus API.

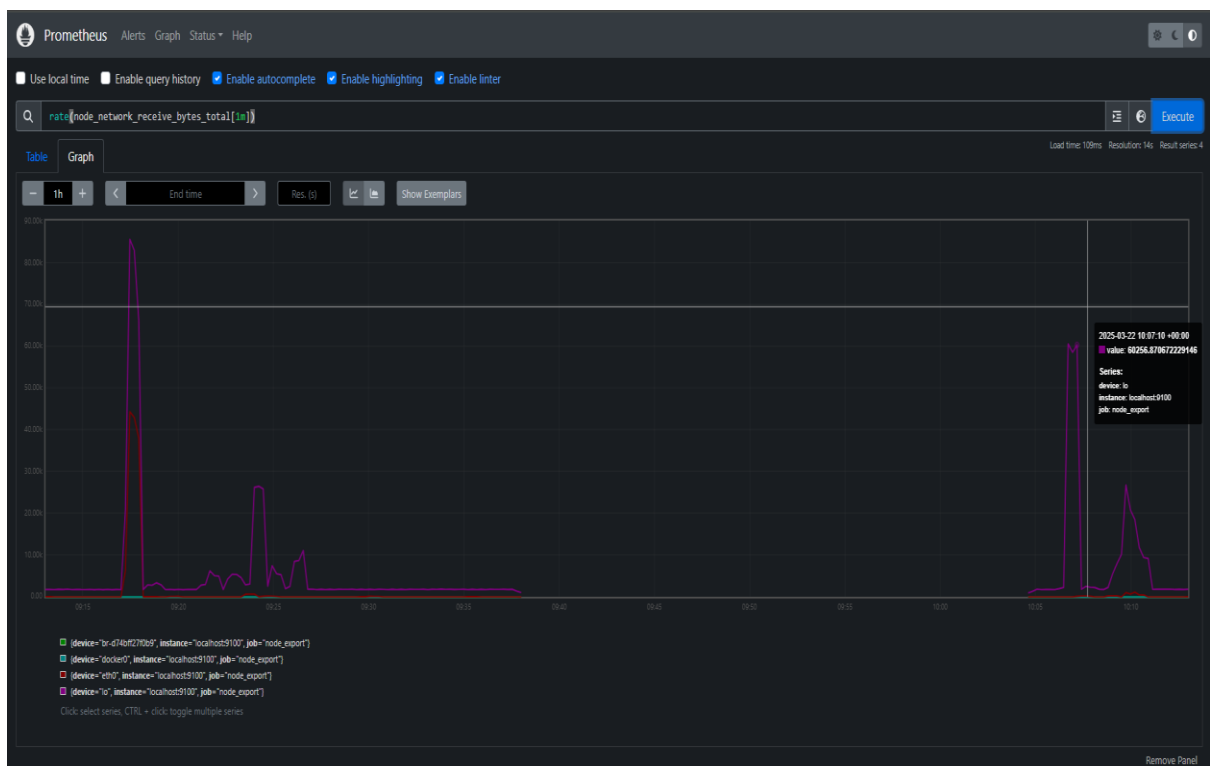
Next, you can start to visualize data by [building a dashboard](#), or by querying data in the Explore view.

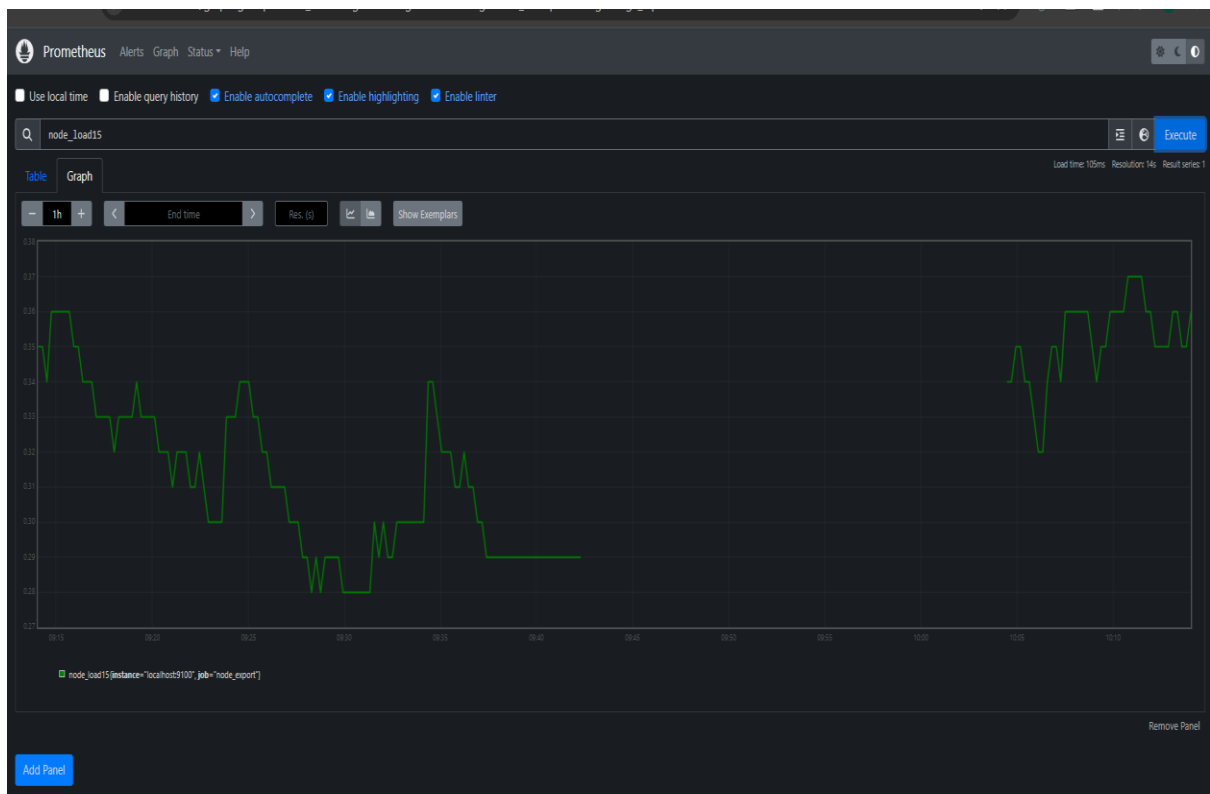
Delete Save & test











Grafana Home > Dashboards

Search or jump to...

Dashboards

Create and manage dashboards to visualize your data

Search for dashboards and folders

Filter by tag ☐ Starred

Sort

Name	Tags
<input type="checkbox"/> 1 Node Exporter 1.0.1	schloras@gmail.com grafana node_exporter prometheus
<input type="checkbox"/> Jenkins: Performance and Health Overview	
<input type="checkbox"/> Node Exporter Full	linux
<input type="checkbox"/> Node Exporter Full 0.16	
<input type="checkbox"/> Node Exporter Server Metrics	prometheus