

Monitoring Task

Task Description:

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

Techstacks needs to be used :

- AWS EC2
- Prometheus
- Grafana
- Node Exporter

Screenshots:

Drive :

https://docs.google.com/document/d/1YRCstqY9Vg644Obo-8FUy_xsmag7sr6tEWF31gesuB8/edit?usp=sharing

The screenshot shows the AWS Management Console interface for the EC2 service. The main view displays a table of instances, with one entry highlighted. The instance details page is shown below, providing specific information about the selected instance. The left sidebar contains a navigation menu with various options like Dashboard, EC2 Global View, Events, Instances, Images, and Elastic Block Store.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
MonitoringSer...	i-013e0dca5c4ceb2c6	Pending	t2.micro	-	View alarms +	us-west-2b	ec2-54-200-35-103.us...	54.200.35.103

```

54.200.35.103 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
Name
/home/ubuntu/
cache ssh bash_logout bashrc profile .Xauthority
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro

System information as of Mon Aug 4 17:09:00 UTC 2025

System load: 0.78 Processes: 110
Usage of /: 25.4% of 6.71GB Users logged in: 0
Memory usage: 22% IPv4 address for enX0: 172.31.37.214
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/usr/bin/xauth: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-37-214:~$ 

```

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Q. Search 27°C Heavy rain ENG IN 10:39:08 PM 04-08-2025

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source
sgr-0a678fc25b1c5c606	sg-037f8f745abcf87d	IPv4	Custom TCP	TCP	3000	0.0.0.0/0
sgr-089f7053a35b07ef		IPv4	HTTP	TCP	80	0.0.0.0/0
sgr-0a29f52fe5d9c3242		IPv4	HTTPS	TCP	443	0.0.0.0/0
sgr-04d8896c60d30e15a		IPv4	SSH	TCP	22	0.0.0.0/0
sgr-0bd78e6ee8271d031		IPv4	Custom TCP	TCP	9000 - 9101	0.0.0.0/0

CloudShell Feedback 27°C Heavy rain ENG IN 10:40:52 PM 04-08-2025

A screenshot of a Linux desktop environment. At the top is a horizontal menu bar with options like Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help, and X server/Exit. Below the menu is a toolbar with icons for Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunnelling, Packages, Settings, and Help. A 'Quick connect...' dropdown is open. The main area features a terminal window titled 'ubuntu@ip-172-31-37-214:~\$' showing the command-line process of installing Prometheus. To the left of the terminal is a file browser window titled 'home/ubuntu/' showing a directory structure with files like .cache, .ssh, bash_logout, bashrc, profile, and .xauthORITY. At the bottom is a dock with various application icons including a file manager, terminal, browser, file browser, and system status indicators for battery, signal, and network.

```
54.200.35.103 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[home/ubuntu/]
2025-08-04 17:13:58 (4.38 MB/s) - 'prometheus-2.45.0.linux-amd64.tar.gz' saved [91189594/91189594]

ubuntu@ip-172-31-37-214:~$ tar -xvf prometheus-2.45.0.linux-amd64.tar.gz
prometheus-2.45.0.linux-amd64/
prometheus-2.45.0.linux-amd64/LICENSE
prometheus-2.45.0.linux-amd64/prometheus.yml
prometheus-2.45.0.linux-amd64/console/libraries/
prometheus-2.45.0.linux-amd64/console/libraries/prom.lib
prometheus-2.45.0.linux-amd64/console/libraries/menu.lib
prometheus-2.45.0.linux-amd64/consoles/
prometheus-2.45.0.linux-amd64/consoles/node-overview.html
prometheus-2.45.0.linux-amd64/consoles/node-cpu.html
prometheus-2.45.0.linux-amd64/consoles/index.html.example
prometheus-2.45.0.linux-amd64/consoles/node.html
prometheus-2.45.0.linux-amd64/consoles/node-disk.html
prometheus-2.45.0.linux-amd64/consoles/prometheus-overview.html
prometheus-2.45.0.linux-amd64/consoles/prometheus.html
prometheus-2.45.0.linux-amd64/promtool
prometheus-2.45.0.linux-amd64/prometheus
prometheus-2.45.0.linux-amd64/prometheus
ubuntu@ip-172-31-37-214:~$ cd prometheus-2.45.0.linux-amd64
ubuntu@ip-172-31-37-214:~/prometheus-2.45.0.linux-amd64$ sudo mv prometheus promtool /usr/local/bin/
ubuntu@ip-172-31-37-214:~/prometheus-2.45.0.linux-amd64$ sudo mv consoles/ console_libraries/ /etc/prometheus/
ubuntu@ip-172-31-37-214:~/prometheus-2.45.0.linux-amd64$ sudo chown prometheus:prometheus /usr/local/bin/promtool /usr/local/bin/prometheus
ubuntu@ip-172-31-37-214:~/prometheus-2.45.0.linux-amd64$ sudo chown -R prometheus:prometheus /etc/prometheus /etc/prometheus
ubuntu@ip-172-31-37-214:~/prometheus-2.45.0.linux-amd64$ cat ~c
ubuntu@ip-172-31-37-214:~/prometheus-2.45.0.linux-amd64$ cat /etc/prometheus/prometheus.yml
global:
  scrape_interval: 15s

scrape_configs:
  - job_name: 'prometheus'
    static_configs:
      - targets: ['localhost:9090']
  - job_name: 'node_exporter'
    static_configs:
      - targets: ['localhost:9100']
ubuntu@ip-172-31-37-214:~/tmp/prometheus-2.45.0.linux-amd64$ sudo chown prometheus:prometheus /etc/prometheus/prometheus.yml
ubuntu@ip-172-31-37-214:~/tmp/prometheus-2.45.0.linux-amd64$ █
```

```

54.200.35.103 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help
Quick connect...
/home/ubuntu/
Name
cache ssh bash_logout bashc profile .xauthority
[targets: [':localhost:9100']]
ubuntu@ip-172-31-37-214:/tmp/prometheus-2.45.0.linux-amd64$ sudo chown prometheus:prometheus /etc/prometheus/prometheus.yml
ubuntu@ip-172-31-37-214:/tmp/prometheus-2.45.0.linux-amd64$ sudo nano /etc/systemd/system/prometheus.service
[Unit]
Description=Prometheus Monitoring
Wants=network-online.target
After=network-online.target

[Service]
User=prometheus
Group=prometheus
Type=simple
ExecStart=/usr/local/bin/prometheus \
--config.file=/etc/prometheus/prometheus.yml \
--storage.tsdb.path=/var/lib/prometheus

[Install]
WantedBy=multi-user.target
ubuntu@ip-172-31-37-214:/tmp/prometheus-2.45.0.linux-amd64$ sudo systemctl daemon-reload
ubuntu@ip-172-31-37-214:/tmp/prometheus-2.45.0.linux-amd64$ sudo systemctl enable prometheus
Created symlink /etc/systemd/system/multi-user.target.wants/prometheus.service → /etc/systemd/system/prometheus.service.
ubuntu@ip-172-31-37-214:/tmp/prometheus-2.45.0.linux-amd64$ sudo systemctl start prometheus
ubuntu@ip-172-31-37-214:/tmp/prometheus-2.45.0.linux-amd64$ sudo systemctl status prometheus
● prometheus.service - Prometheus Monitoring
   Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: enabled)
   Active: active (running) since Mon 2025-08-04 17:17:23 UTC; 6s ago
     Main PID: 13949 (prometheus)
       Tasks: 6 (limit: 1124)
      Memory: 14.7M (peak: 14.9M)
        CPU: 54ms
      CGroup: /system.slice/prometheus.service
              └─13949 /usr/local/bin/prometheus --config.file=/etc/prometheus/prometheus.yml --storage.tsdb.path=/var/lib/prometheus

Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.582Z caller=ts_config.go:274 level=info component=web msg="Listening on" address=:9090
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.582Z caller=ts_config.go:277 level=info component=web msg="TLS is disabled." http=:9090
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.583Z caller=head.go:755 level=info component=tedb msg="WAL segment loaded" segment=0
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.583Z caller=head.go:792 level=info component=tedb msg="WAL replay completed" check=0
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.584Z caller=main.go:1040 level=info fs_typesEXT4_SUPER_MAGIC
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.584Z caller=main.go:1043 level=info msg="TSDB started"
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.585Z caller=main.go:1224 level=info msg="Loading configuration file" filename=/etc/prometheus/prometheus.yml
Aug 04 17:17:23 ip-172-31-37-214 prometheus[13949]: ts=2025-08-04T17:17:23.586Z caller=main.go:1261 level=info msg="Completed loading of configuration file"

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```

Remote monitoring

Follow terminal folder

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GUUI Monitoring Task - Google Docs Instances | EC2 us-west-2 Prometheus Time Series Collection

Prometheus Alerts Graph Status Help

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

Expression (press Shift+Enter for newlines)

Table Graph

Evaluation time < >

No data queried yet

Add Panel Remove Panel

27°C Heavy rain ENG IN 10:48:22 PM 04-08-2025

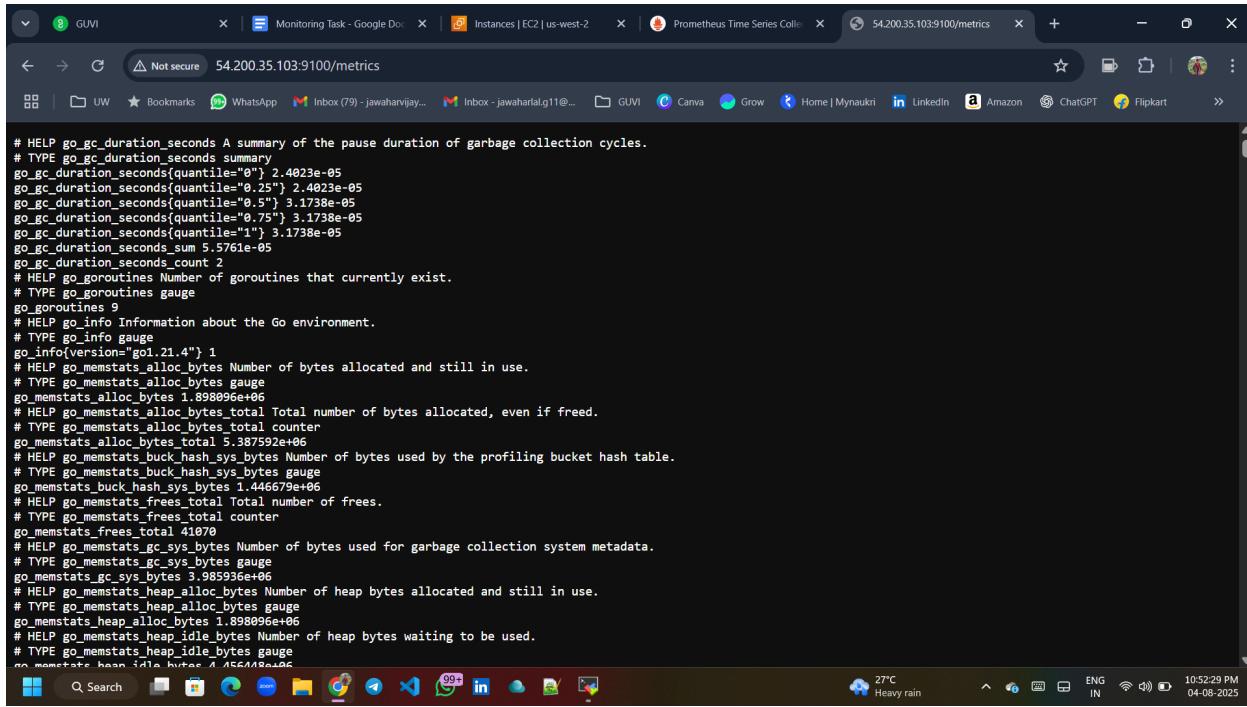
Screenshot of a MobaXterm terminal session titled "2. 54.200.35.103 (ubuntu)". The session shows a user navigating through files in the "/home/ubuntu/" directory and running several commands to configure and start a "node_exporter" service. The user runs "sudo chown node_exporter:node_exporter /usr/local/bin/node_exporter", "sudo nano /etc/systemd/system/node_exporter.service", and "sudo systemctl daemon-reload". They then start the service with "sudo systemctl enable node_exporter" and check its status with "sudo systemctl start node_exporter" and "sudo systemctl status node_exporter". The output shows the service is active and loaded. Finally, the user runs "node_exporter -v" to verify the version, which outputs "v1.7.0".

```
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo chown node_exporter:node_exporter /usr/local/bin/node_exporter
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo nano /etc/systemd/system/node_exporter.service
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ cat <node_exporter.service>
[Unit]
Description=Node Exporter
After=network.target

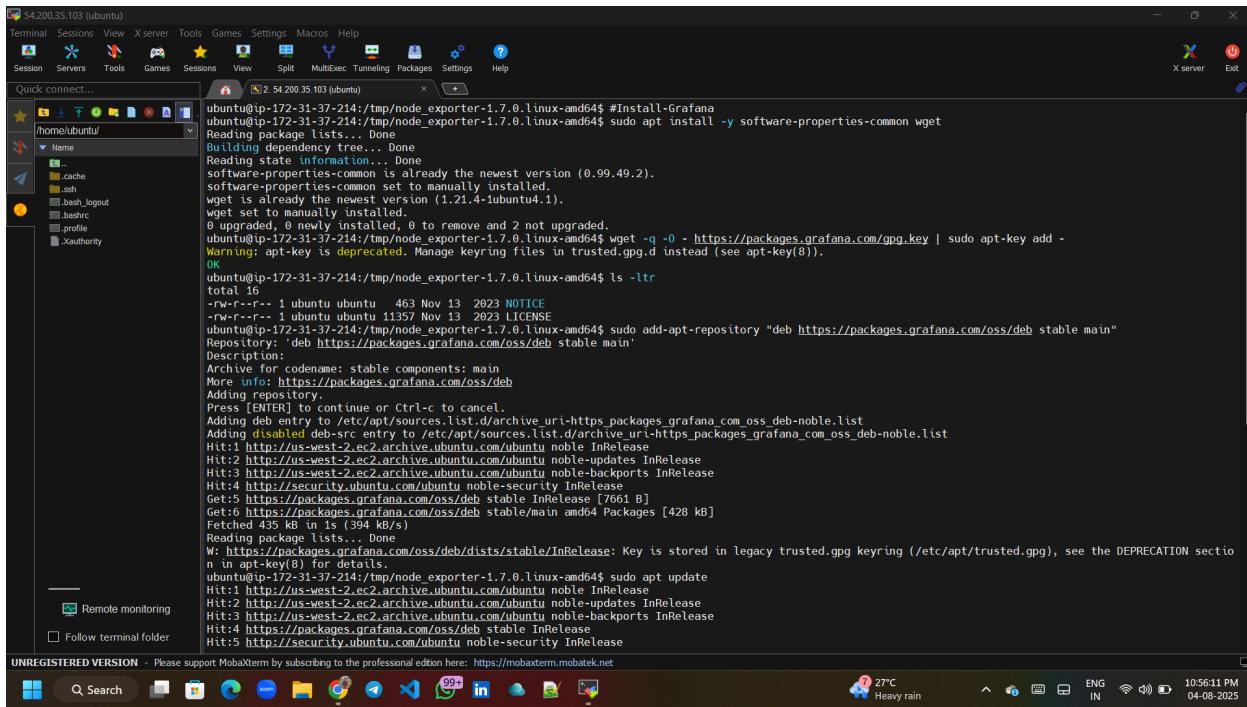
[Service]
User=node_exporter
Group=node_exporter
Type=simple
ExecStart=/usr/local/bin/node_exporter

[Install]
WantedBy=multi-user.target
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo systemctl daemon-reload
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo systemctl enable node_exporter
Created symlink /etc/systemd/system/multi-user.target.wants/node_exporter.service → /etc/systemd/system/node_exporter.service.
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo systemctl start node_exporter
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo systemctl status node_exporter
● node_exporter.service - Node Exporter
   Loaded: loaded (/etc/systemd/system/node_exporter.service; enabled; preset: enabled)
     Active: active (running) since Mon 2025-08-04 17:21:33 UTC; 6s ago
       Main PID: 14080 (node_exporter)
          Tasks: 3 (limit: 1124)
         Memory: 2.0M (peak: 2.2M)
            CPU: 9ms
           CGroup: /system.slice/node_exporter.service
                   └─14082 /usr/local/bin/node_exporter

Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=thermal_zone
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=timers
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=timex
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=queues
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=uname
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=wmstat
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.801Z caller=node_exporter.go:117 level=info collector=zfs
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.802Z caller=tls_config.go:274 level=info msg="Listening on" address=[::]:9100
Aug 04 17:21:33 ip-172-31-37-214 node_exporter[14082]: ts=2025-08-04T17:21:33.802Z caller=tls_config.go:277 level=info msg="TLS is disabled." http=false add
Lines 1-29/29 (END)
```



```
# 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%"} 2.4023e-05
go_gc_duration_seconds{quantile="0.25%"} 2.4923e-05
go_gc_duration_seconds{quantile="0.5%"} 3.1738e-05
go_gc_duration_seconds{quantile="0.75%"} 3.1738e-05
go_gc_duration_seconds{quantile="1%"} 3.1738e-05
go_gc_duration_seconds_sum 5.5761e-05
go_gc_duration_seconds_count 2
# HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 9
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.21.4"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 1.898096e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go_memstats_alloc_bytes_total gauge
go_memstats_alloc_bytes_total 5.387592e+06
# 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 1.446579e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 41078
# 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 3.985936e+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 1.898096e+06
# 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 1.055M
```

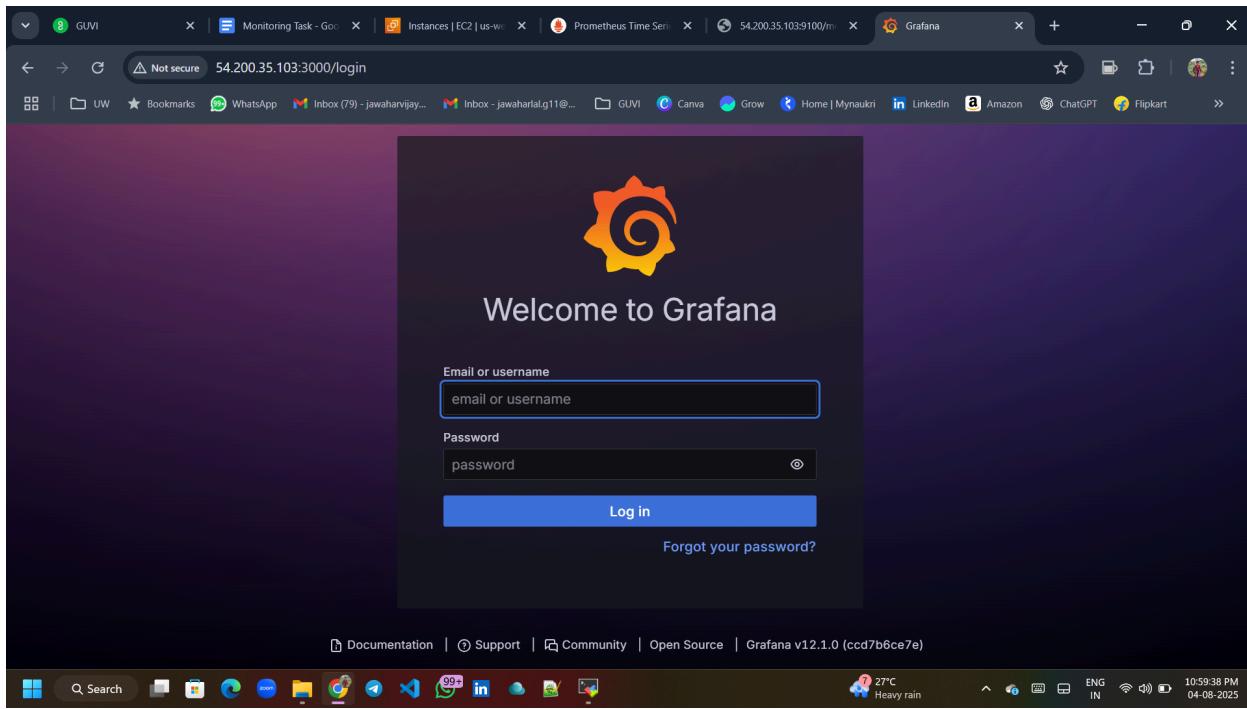


```
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ #Install-Grafana
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Software-properties-common is already the newest version (0.99.49.2).
software-properties-common is manually installed.
wget is already the newest version (1.21.4-ubuntu4.1).
wget is manually installed
0 upgraded, 0 newly installed, 0 to remove and 2 not upgraded.
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).
OK
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ ls -ltr
total 16
-rw-r--r-- 1 ubuntu ubuntu 463 Nov 13 2023 NOTICE
-rw-r--r-- 1 ubuntu ubuntu 11357 Nov 13 2023 LICENSE
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo add-apt-repository "deb https://packages.grafana.com/oss/deb stable main"
Repository 'deb https://packages.grafana.com/oss/deb stable' added
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://us-west-2.ec2.archive/ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-west-2.ec2.archive/ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-west-2.ec2.archive/ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:5 https://packages.grafana.com/oss/deb stable InRelease [7661 B]
Get:6 https://packages.grafana.com/oss/deb stable/main amd64 Packages [428 kB]
Fetched 435 B in 1s (394 kB/s)
Reading package lists...
W: https://packages.grafana.com/oss/deb/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
ubuntu@ip-172-31-37-214:/tmp/node_exporter-1.7.0.linux-amd64$ sudo apt update
Hit:1 http://us-west-2.ec2.archive/ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-west-2.ec2.archive/ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-west-2.ec2.archive/ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://packages.grafana.com/oss/deb stable InRelease
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
```

```
54.200.35.103 (ubuntu)
Terminal Sessions View Xserver Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
[ 2.54.200.35.103 (ubuntu) ] ×
home/ubuntu/
Name
..cache
.lsh
.bash_logout
.bashrc
.profile
.xauthority
Hit:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 https://packages.grafana.com/oss/deb stable InRelease
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
2 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: https://packages.grafana.com/oss/deb/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  musl
The following NEW packages will be installed:
  grafana musl
0 upgraded, 2 newly installed, 0 to remove and 2 not upgraded.
Need to get 199 MB of archives.
After this operation, 692 MB of additional disk space will be used.
Get: http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 musl_amd64 1.2.4-2 [416 kB]
Get: http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 grafana_amd64 12.1.0 [190 kB]
Fetched 199 MB in 45s (4229 kB/s)
Selecting previously unselected package musl:amd64.
(Reading database ... 102313 files and directories currently installed.)
Preparing to unpack .../musl_1.2.4-2_amd64.deb ...
Unpacking musl:amd64 (1.2.4-2) ...
Selecting previously unselected package grafana.
Preparing to unpack .../grafana_12.1.0_amd64.deb ...
Unpacking grafana (12.1.0) ...
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

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ENG IN 105633 PM 04-08-2024
```



A screenshot of the Grafana interface after logging in. The left sidebar is titled "Grafana" and contains a navigation menu with items like "Home", "Bookmarks", "Starred", "Dashboards", "Explore", "Drilldown", "Alerting", "Connections", and "Administration". The main content area has a header "Welcome to Grafana" and "Need help? Documentation Tutorials Community Public Slack". Below this, there are two panels: "Basic" on the left and "TUTORIAL DATA SOURCE AND DASHBOARDS Grafana fundamentals" on the right. The "Basic" panel contains text about setting up Grafana. The "TUTORIAL" panel provides a guide to understanding Grafana and setting up data sources and dashboards. The "DATA SOURCES" panel prompts the user to "Add your first data source". The browser's address bar shows the URL "54.200.35.103:3000/?orgId=1&from=now-6h&to=now&timezone=browser". The taskbar at the bottom of the screen shows various pinned icons and the system tray indicates it's 11:00:46 PM on 04-08-2025.

The screenshot shows the Grafana interface for managing data sources. The left sidebar is dark-themed and includes links for Home, Bookmarks, Starred, Dashboards, Explore, Drilldown, Alerting, Connections (with 'Add new connection' and 'Data sources' selected), and Administration. The main content area has a light background. At the top, there's a search bar with 'Search...' and a 'ctrl+k' hotkey. Below it, a table header row shows 'Name' and 'Default' with a toggle switch. A note says: 'Before you can use the Prometheus data source, you must configure it below or in the config file. For detailed instructions, [view the documentation](#)'. A section titled 'Fields marked with * are required' follows. The 'Connection' section contains a field for 'Prometheus server URL *' with the value 'http://54.200.35.103:9090/'. The 'Authentication' section is currently empty. The bottom of the screen shows a Windows taskbar with various pinned icons and system status indicators.

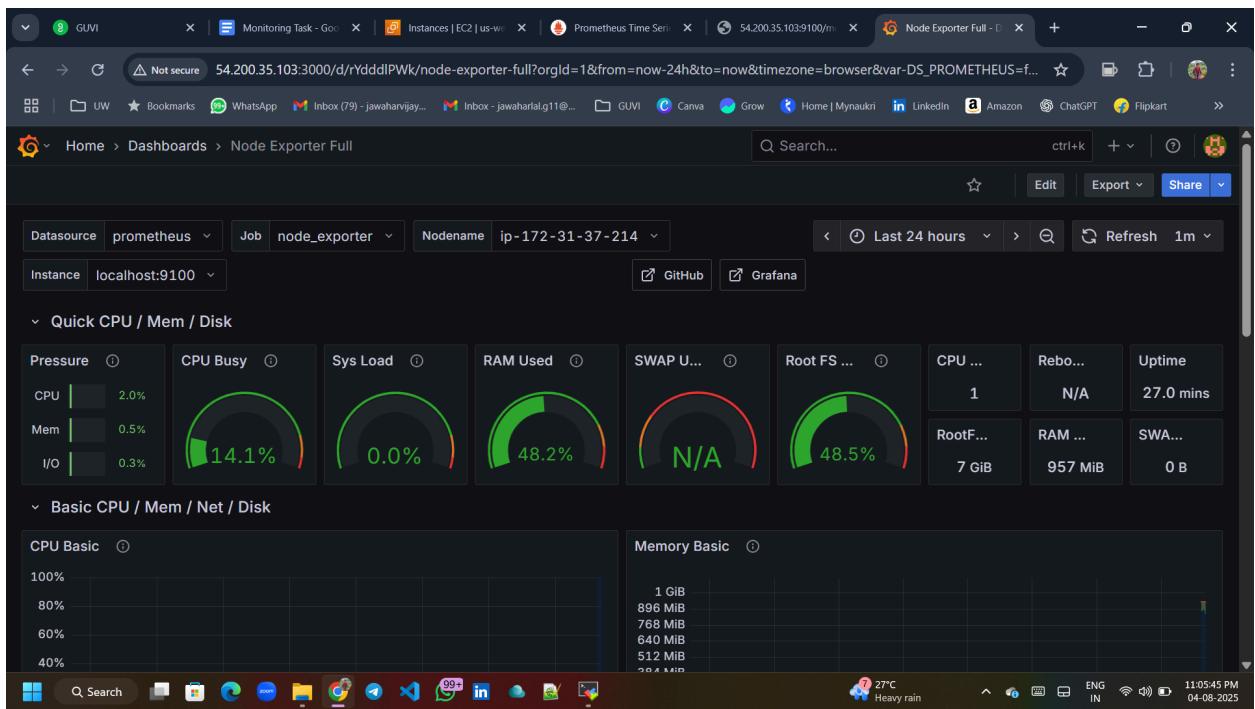
This screenshot is identical to the one above, but it includes additional configuration options under the 'Connection' section: 'Custom query parameters' (dropdown with 'Example: max_sources_resolution=1m&param'), 'HTTP method' (dropdown with 'POST'), 'Series limit' (input field with '40000'), and 'Use series endpoint' (toggle switch). A green success message box at the bottom states: 'Successfully queried the Prometheus API.' It also says: 'Next, you can start to visualize data by [building a dashboard](#), or by querying data in the [Explore view](#)'. At the bottom are 'Delete' and 'Save & test' buttons. The Windows taskbar and system status are visible at the bottom.

Screenshot of a web browser showing the Grafana Import dashboard page. The URL is 54.200.35.103:3000/dashboard/import.

The left sidebar shows the Grafana navigation menu with "Dashboards" selected. The main content area displays the "Import dashboard" section, which includes:

- Importing dashboard from [Grafana.com](#)
- Published by rfmoz
- Updated on 2025-06-13 01:36:17
- Options section with "Name" set to "Node Exporter Full" and "Folder" set to "Dashboards".
- A note about Unique identifier (UID): "The unique identifier (UID) of a dashboard can be used for uniquely identify a dashboard between multiple Grafana installs. The UID allows having consistent URLs for accessing dashboards so changing the title of a dashboard will not break any bookmarked links to that dashboard."

The system tray at the bottom shows the date and time as 11:05:18 PM 04-08-2025.



```

ubuntu@ip-172-31-37-214:~$ sudo apt install -y stress
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  stress
0 upgraded, 1 newly installed, 0 to remove and 2 not upgraded.
Need to get 18.1 kB of archives.
After this operation, 52.2 kB of additional disk space will be used.
Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 stress amd64 1.0.7-1 [18.1 kB]
Fetched 18.1 kB in 0s (177 kB/s)
Selecting previously unselected package stress.
(Reading database ... 115356 files and directories currently installed.)
Preparing to unpack .../stress_1.0.7-1_amd64.deb ...
Unpacking stress (1.0.7-1) ...
Setting up 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 6.14.0-1010-aws.
Restarting the system to load the new kernel will not be handled automatically, so you should consider rebooting.

Restarting services...

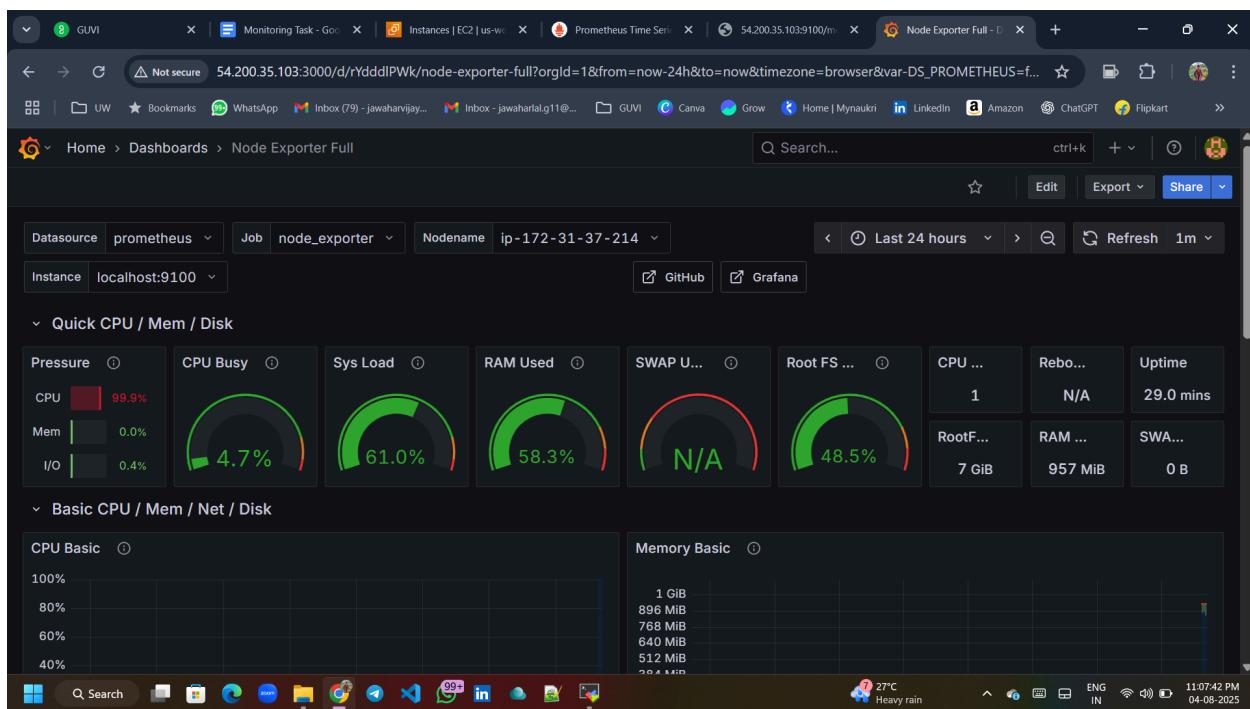
Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart getty@tty1.service
systemctl restart networkd-dispatcher.service
systemctl restart serial-getty@ttyS0.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:

```

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54.200.35.103 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

X server Exit

Quick connect...

File 2. 54.200.35.103 (ubuntu)

Selecting previously unselected package stress.

(Reading database ... 115356 files and directories currently installed.)

Preparing to unpack .../stress_1.0.7-1_amd64.deb ...

Unpacking stress (1.0.7-1) ...

Setting up stress (1.0.7-1) ...

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 6.14.0-1010-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[1096,1148]
 ubuntu @ session #3: sshd[1038,1211]
 ubuntu @ user manager service: systemd[1042]

No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-37-214:~\$ stress --cpu 2 -t 60
 stress: info: [15942] dispatching hogs: 2 cpu, 0 io, 0 vm, 0 hdd
 stress: info: [15942] successful run completed in 69s
 ubuntu@ip-172-31-37-214:~\$ stress --cpu 2 -t 180
 stress: info: [15947] dispatching hogs: 2 cpu, 0 io, 0 vm, 0 hdd

Remote monitoring

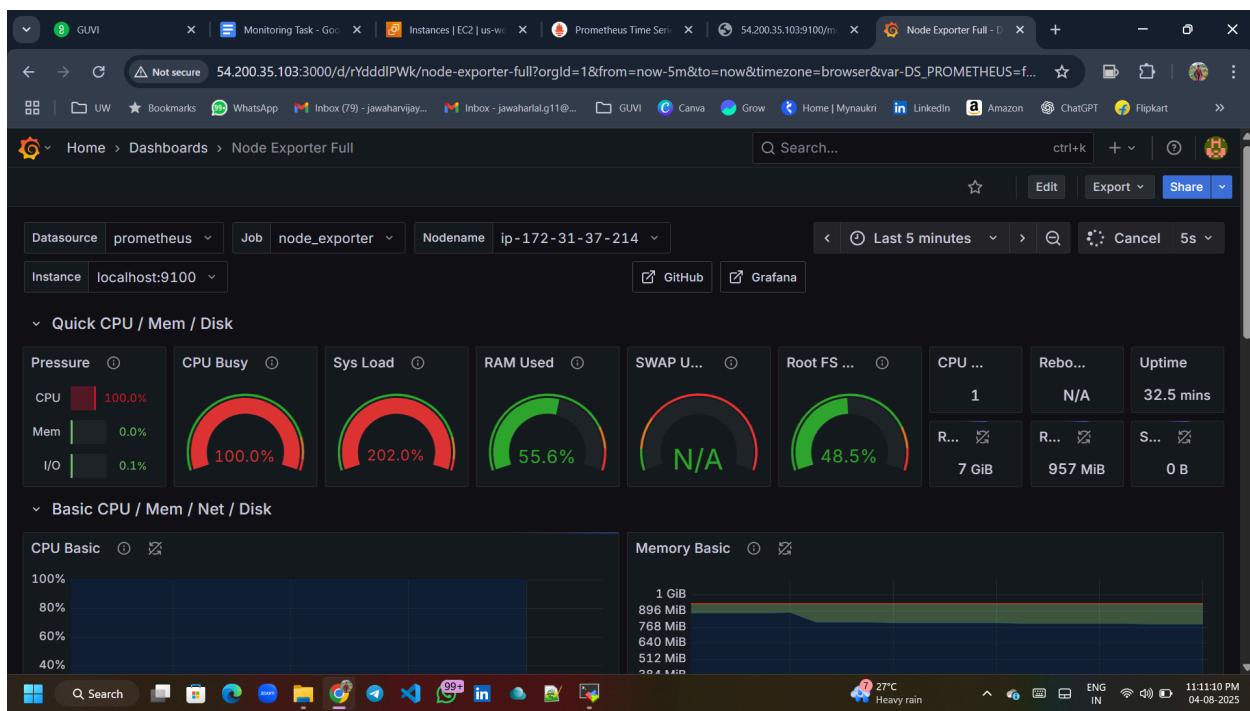
Follow terminal folder

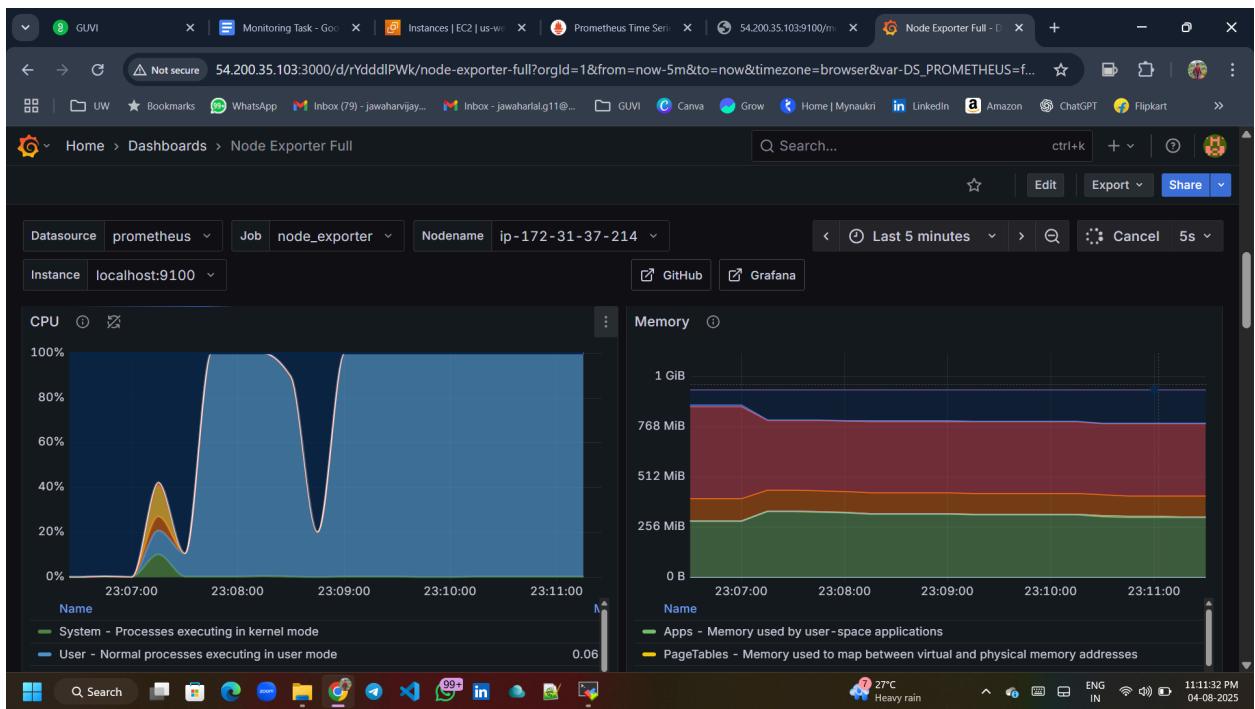
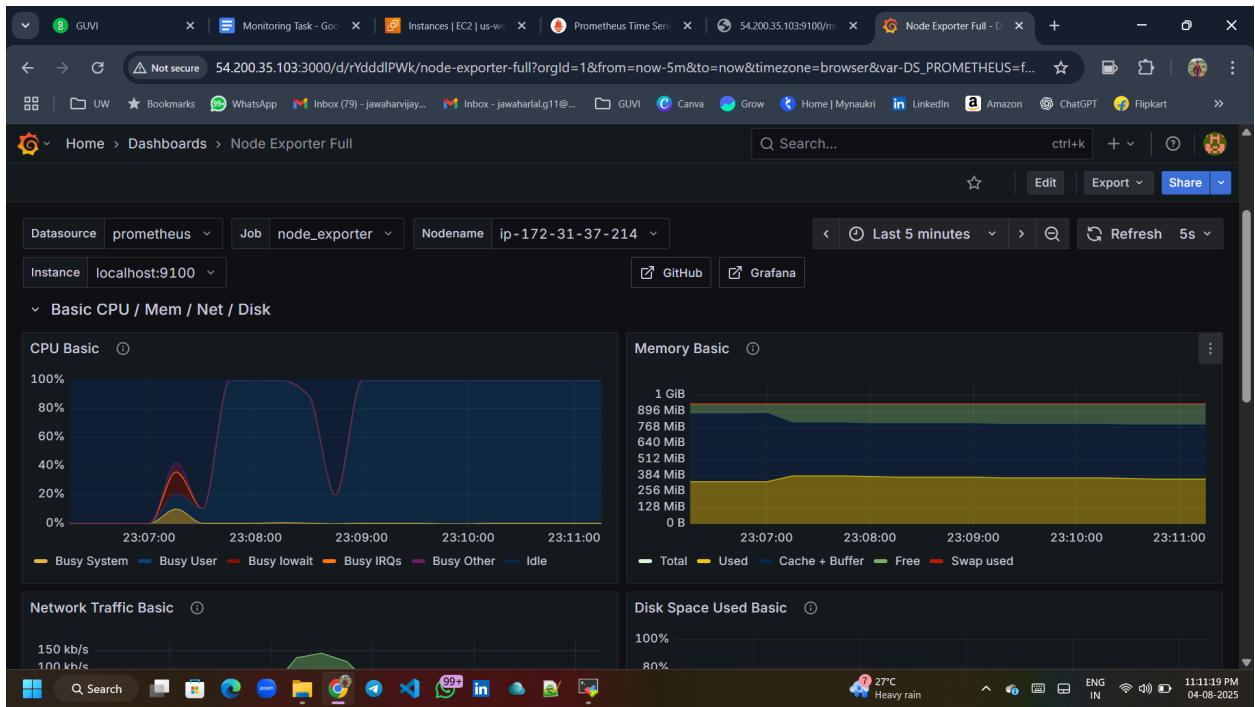
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Q Search

27°C Heavy rain

ENG IN 11:08:34 PM 04-08-2025





54.200.35.103 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

File 2. 54.200.35.103 (ubuntu) X server Exit

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

(Reading database... 115350 files and directories currently installed.)
 Preparing to unpack /stress_1.0.7-1_amd64.deb ...
 Unpacking stress (1.0.7-1)...
 Setting up stress (1.0.7-1)...
 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 6.14.0-1010-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[1006,1148]
 ubuntu @ session #3: sshd[1038,1211]
 ubuntu @ user manager service: systemd[1042]
 No VM guests are running outdated hypervisor (qemu) binaries on this host.
 ubuntu@ip-172-31-37-214:~\$ stress --cpu 2 -t 60
 stress: info: [15942] dispatching hogs: 2 cpu, 0 io, 0 vm, 0 hdd
 stress: info: [15942] successful run completed in 60s
 ubuntu@ip-172-31-37-214:~\$ stress --cpu 2 -t 180
 stress: info: [15947] dispatching hogs: 2 cpu, 0 io, 0 vm, 0 hdd
 stress: info: [15947] successful run completed in 180s
 ubuntu@ip-172-31-37-214:~\$

Remote monitoring

Follow terminal folder

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Q Search 27°C Heavy rain ENG IN 11:11:57 PM 04-08-2025

