

Ref: <https://tayjava.vn/giam-sat-he-thong-voi-grafana-va-prometheus>

Prometheus

Go to link: <http://localhost:9090/targets>

The screenshot shows the Prometheus web interface at localhost:9090/targets. The page title is "Targets". There are tabs for "All", "Unhealthy", and "Collapse All". A search bar is present with the text "Filter by endpoint or labels". On the right, there are status filters: "Unknown", "Unhealthy", and "Healthy".

Under the "All" tab, there are two target groups:

- prometheus (1/1 up)** (show less)
- spring-with-prometheus-grafana (1/1 up)** (show less)

Each group contains a table with the following columns: Endpoint, State, Labels, Last Scrape, Scrape Duration, and Error.

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://localhost:9090/metrics	UP	instance="localhost:9090" job="prometheus"	4.119s ago	5.430ms	

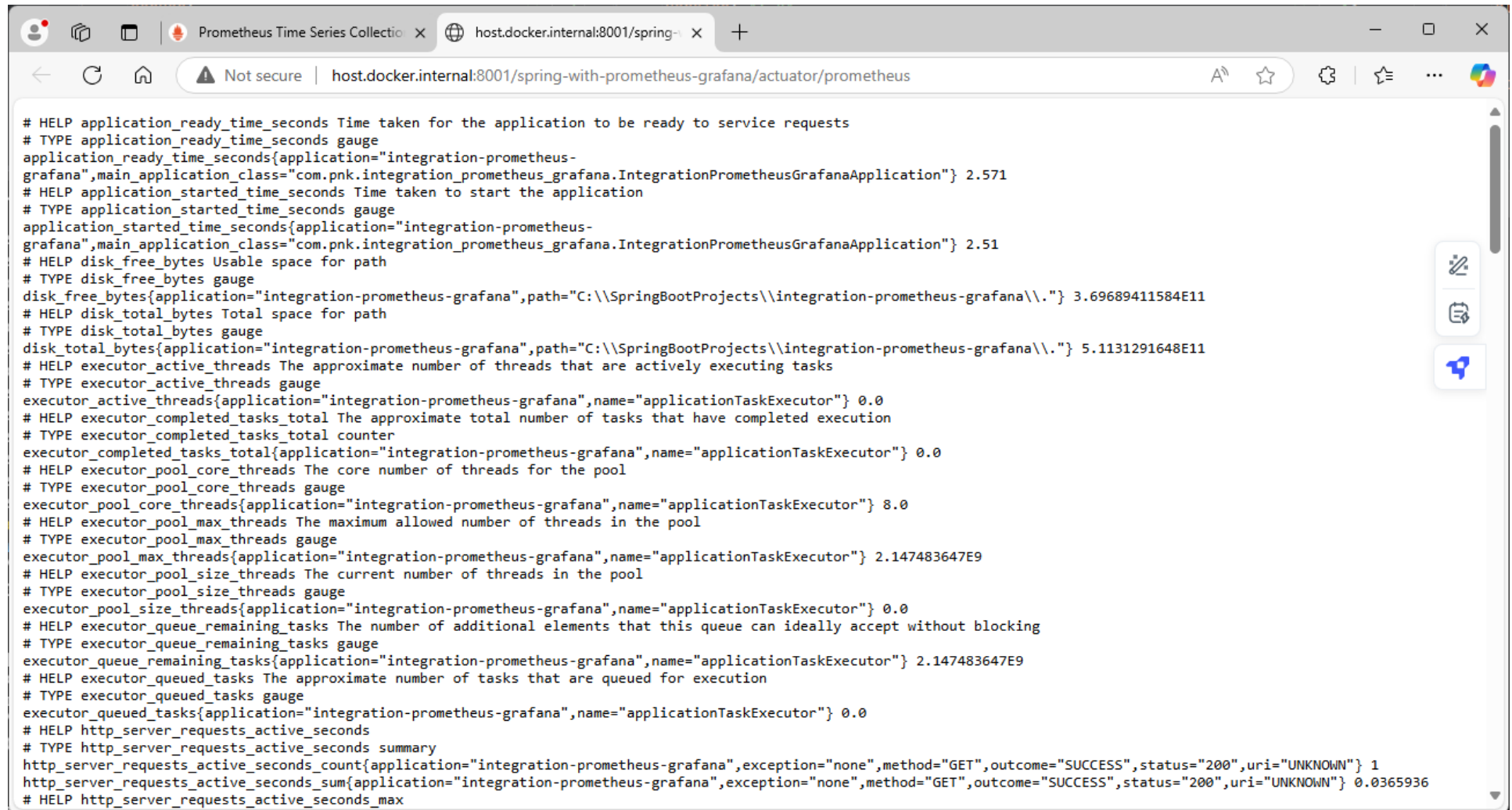
Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://host.docker.internal:8001/spring-with-prometheus-grafana/actuator/prometheus	UP	app="spring-with-prometheus-grafana" instance="host.docker.internal:8001" job="spring-with-prometheus-grafana"	796.000ms ago	52.374ms	

<http://localhost:9190/identity/actuator/prometheus>

or 127.0.0.1:9190/identity/actuator/prometheus

<https://levelup.gitconnected.com/spring-boot-with-prometheus-and-grafana-local-setup-included-66190be08986>

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The screenshot shows a web browser window with the address bar displaying 'host.docker.internal:8001/spring-with-prometheus-grafana/actuator/prometheus'. The page content is a list of Prometheus metrics for the 'integration-prometheus-grafana' application. The metrics include application readiness, startup time, disk space usage, executor thread counts, and HTTP request statistics. The browser's developer tools are open on the right side.

```
# HELP application_ready_time_seconds Time taken for the application to be ready to service requests
# TYPE application_ready_time_seconds gauge
application_ready_time_seconds{application="integration-prometheus-grafana",main_application_class="com.pnk.integration_prometheus_grafana.IntegrationPrometheusGrafanaApplication"} 2.571
# HELP application_started_time_seconds Time taken to start the application
# TYPE application_started_time_seconds gauge
application_started_time_seconds{application="integration-prometheus-grafana",main_application_class="com.pnk.integration_prometheus_grafana.IntegrationPrometheusGrafanaApplication"} 2.51
# HELP disk_free_bytes Usable space for path
# TYPE disk_free_bytes gauge
disk_free_bytes{application="integration-prometheus-grafana",path="C:\\SpringBootProjects\\integration-prometheus-grafana\\"} 3.69689411584E11
# HELP disk_total_bytes Total space for path
# TYPE disk_total_bytes gauge
disk_total_bytes{application="integration-prometheus-grafana",path="C:\\SpringBootProjects\\integration-prometheus-grafana\\"} 5.1131291648E11
# HELP executor_active_threads The approximate number of threads that are actively executing tasks
# TYPE executor_active_threads gauge
executor_active_threads{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 0.0
# HELP executor_completed_tasks_total The approximate total number of tasks that have completed execution
# TYPE executor_completed_tasks_total counter
executor_completed_tasks_total{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 0.0
# HELP executor_pool_core_threads The core number of threads for the pool
# TYPE executor_pool_core_threads gauge
executor_pool_core_threads{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 8.0
# HELP executor_pool_max_threads The maximum allowed number of threads in the pool
# TYPE executor_pool_max_threads gauge
executor_pool_max_threads{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 2.147483647E9
# HELP executor_pool_size_threads The current number of threads in the pool
# TYPE executor_pool_size_threads gauge
executor_pool_size_threads{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 0.0
# HELP executor_queue_remaining_tasks The number of additional elements that this queue can ideally accept without blocking
# TYPE executor_queue_remaining_tasks gauge
executor_queue_remaining_tasks{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 2.147483647E9
# HELP executor_queued_tasks The approximate number of tasks that are queued for execution
# TYPE executor_queued_tasks gauge
executor_queued_tasks{application="integration-prometheus-grafana",name="applicationTaskExecutor"} 0.0
# HELP http_server_requests_active_seconds
# TYPE http_server_requests_active_seconds summary
http_server_requests_active_seconds_count{application="integration-prometheus-grafana",exception="none",method="GET",outcome="SUCCESS",status="200",uri="UNKNOWN"} 1
http_server_requests_active_seconds_sum{application="integration-prometheus-grafana",exception="none",method="GET",outcome="SUCCESS",status="200",uri="UNKNOWN"} 0.0365936
# HELP http_server_requests_active_seconds_max
```

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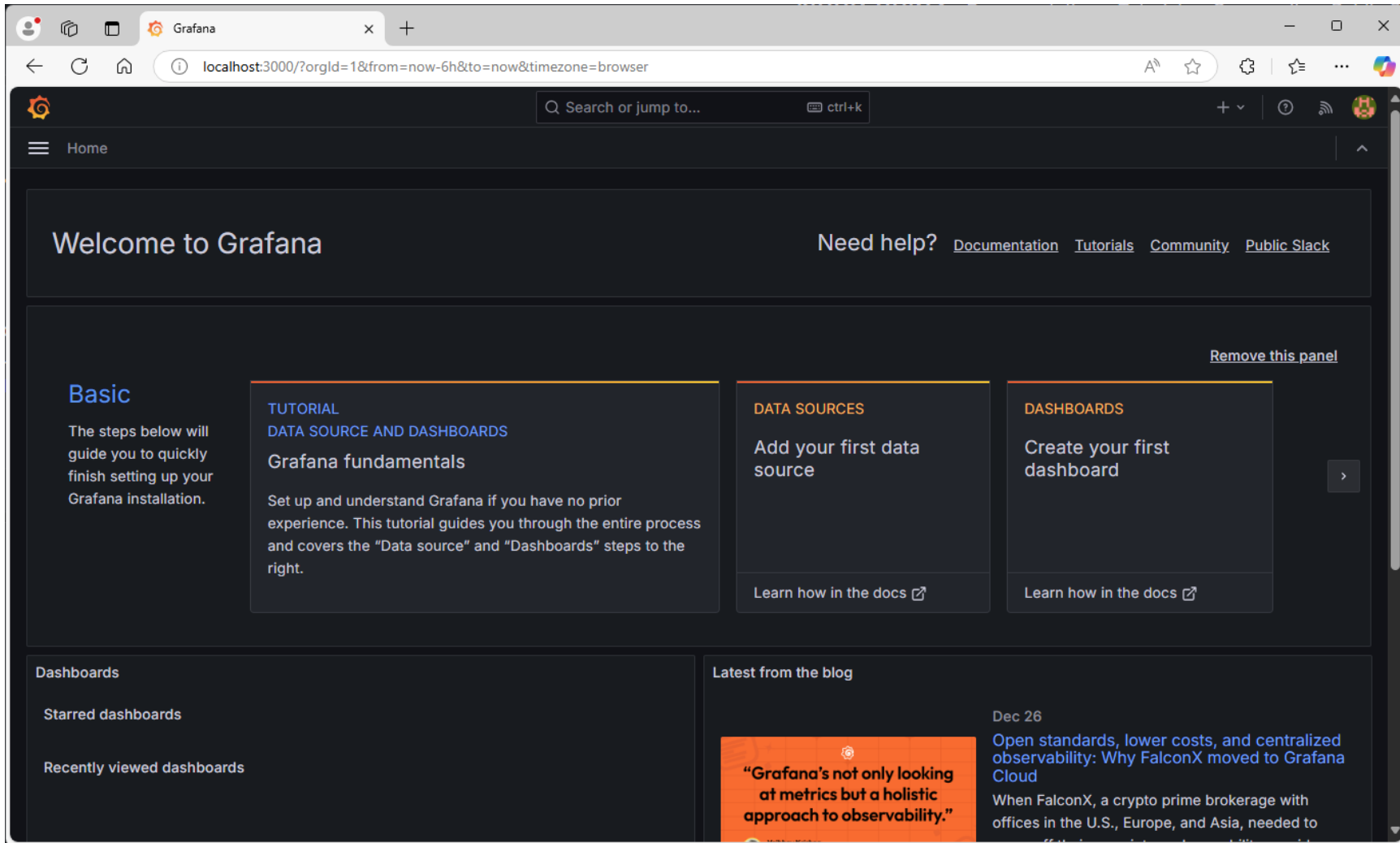
Ref: <https://tayjava.vn/giam-sat-he-thong-voi-grafana-va-prometheus>

Grafana

Login: <http://localhost:3000/login>

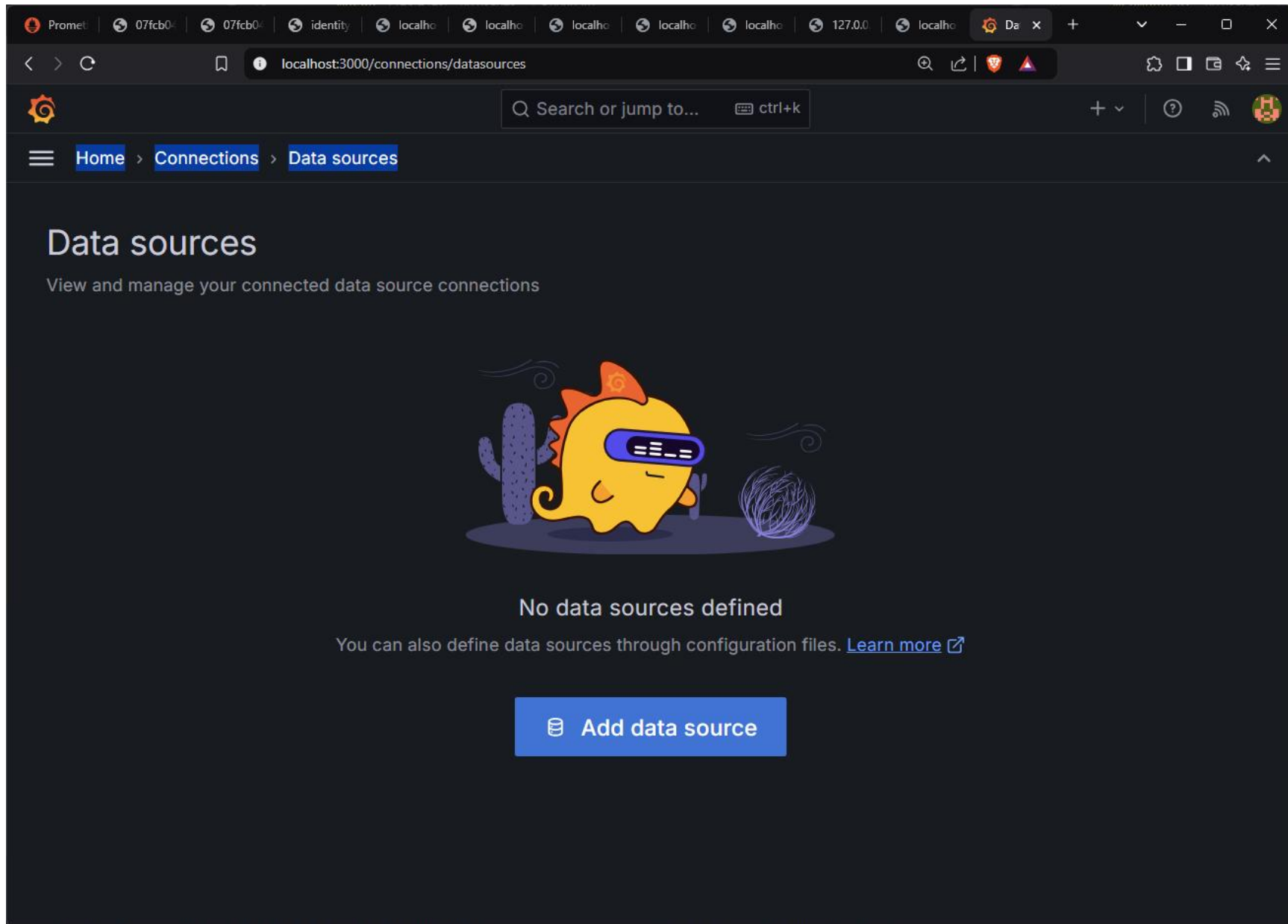
GF_SECURITY_ADMIN_USER=grafana

GF_SECURITY_ADMIN_PASSWORD=password



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The screenshot shows the Grafana web interface in a browser window. The address bar indicates the URL is `localhost:3000/connections/datasources/new`. The breadcrumb navigation shows the path: `Home > Connections > Data sources > Add data source`. The main heading is `Add data source`, followed by the instruction `Choose a data source type`. A search bar with the placeholder `Filter by name or type` and a `Cancel` button is present. Below this, the section `Time series databases` lists four options:

- Prometheus**: Open source time series database & alerting. Core
- Graphite**: Open source time series database. Core
- InfluxDB**: Open source time series database. Core
- OpenTSDB**: Open source time series database. Core

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The screenshot shows the Grafana web interface in a browser window. The address bar shows the URL `localhost:3000/connections/datasources/edit/de8f2yyjr2lfkd`. The breadcrumb navigation is `Home > Connections > Data sources > prometheus`. The main header features the Prometheus logo, the name 'prometheus', and tabs for 'Type' (Prometheus), 'Alerting' (Supported), 'Explore data', and 'Build a dashboard'. Below the header, there are tabs for 'Settings' (selected) and 'Dashboards'. A dark blue informational box contains the text: '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.' Below this box, the 'Name' field is set to 'prometheus', and the 'Default' toggle is turned on. At the bottom, a note states: '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'.

prometheus

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

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Connection

Prometheus server URL *

Please enter a valid URL

Authentication

Authentication methods

Choose an authentication method to access the data source

No Authentication

TLS settings

Additional security measures that can be applied on top of authentication

- ☐ Add self-signed certificate ⓘ
- ☐ TLS Client Authentication ⓘ
- ☐ Skip TLS certificate validation ⓘ

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The screenshot shows the Grafana web interface in a browser window. The address bar indicates the URL is `localhost:3000/connections/datasources/edit/de8f2yyjr2lfkd`. The breadcrumb navigation shows the path: `Home > Connections > Data sources > prometheus`. The main section is titled "Connection" and contains a text input field for the "Prometheus server URL *". The value entered in the field is `http://prometheus:9090`. Below this, there is an "Authentication" section with the heading "Authentication methods" and a subtext "Choose an authentication method to access the data source". A dropdown menu is open, showing the option "No Authentication". Further down, there is a "TLS settings" section with the subtext "Additional security measures that can be applied on top of authentication". It contains three checkboxes, all of which are unchecked: "Add self-signed certificate", "TLS Client Authentication", and "Skip TLS certificate validation". At the bottom, there is a partially visible "HTTP headers" section.

Connection

Prometheus server URL * `http://prometheus:9090`

Authentication

Authentication methods

Choose an authentication method to access the data source

No Authentication

TLS settings

Additional security measures that can be applied on top of authentication

☐ Add self-signed certificate

☐ TLS Client Authentication

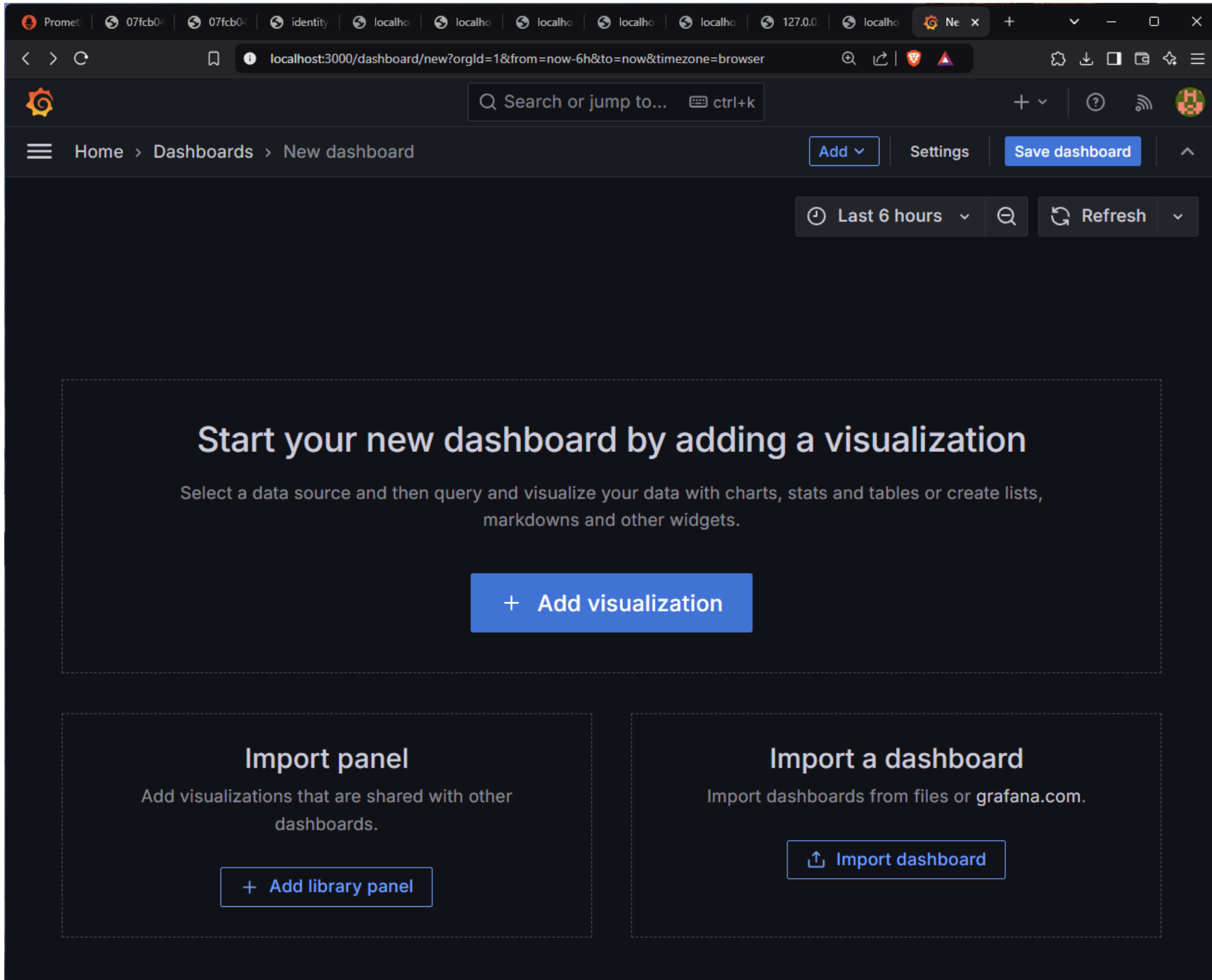
☐ Skip TLS certificate validation

HTTP headers

Configure dashboard

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Import Dashboard

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Prometheus 07fcb04 07fcb04 identity localhost localhost localhost localhost 127.0.0.1 localhost Import x + - □ ×

localhost:3000/dashboard/import

Search or jump to... ctrl+k

Home > Dashboards > Import dashboard

Import dashboard

Import dashboard from file or Grafana.com

Upload dashboard JSON file

Drag and drop here or click to browse

Accepted file types: .json, .txt

Find and import dashboards for common applications at grafana.com/dashboards

Load

Import via dashboard JSON model

```
{
  "title": "Example - Repeating Dictionary variables",
  "uid": "_0HnEoN4z",
  "panels": [...]
  ...
}
```

Load **Cancel**

Ref: <https://tayjava.vn/giam-sat-he-thong-voi-grafana-va-prometheus>

Upload dashboard JSON file

Prometheus 07fcb04 07fcb04 identity localhost localhost localhost localhost localhost 127.0.0.1 localhost Import x + - □ ×

localhost:3000/dashboard/import

Search or jump to... ctrl+k

Home > Dashboards > Import dashboard

Import dashboard

Import dashboard from file or Grafana.com

Options

Name

Identity Service Statistics

Folder

Dashboards

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.

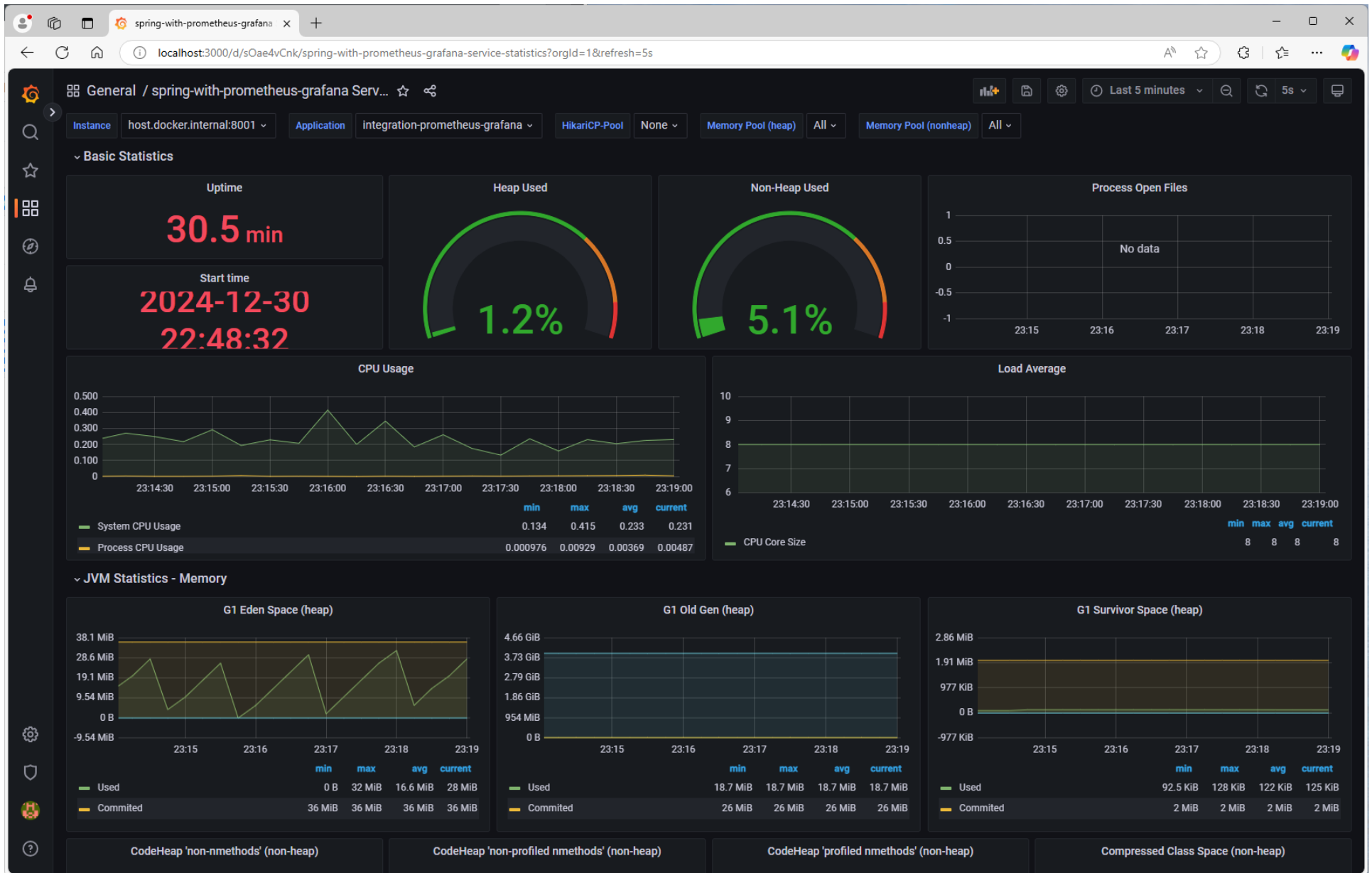
sOae4vCnk **Change uid**

Prometheus

prometheus

Import **Cancel**

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