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Setup: Start the Lightbend Telemetry Sandbox

Lightbend Telemetry and the Lightbend Telemetry Sandbox

1. When learning Akka, runtime metrics are very useful for understanding. Eventually as you develop and run Akka systems and actors in production, Akka runtime metrics are crucial to troubleshoot problems and optimize performance.
2. In order to gather and view Akka runtime metrics, you will use **Lightbend Telemetry**. Lightbend Telemetry has already been added to the exercise *coffee-house* application's SBT build dependencies.
 - Please see the course [Lightbend Telemetry - Installation](#) for the details of installing Telemetry build dependencies.
3. In addition, we have included the **Lightbend Telemetry Sandbox** in order to visualize the Lightbend Telemetry metrics in charts and graphs.

Lightbend Telemetry Sandbox Prereq: Docker and Docker Compose

1. The Lightbend Telemetry Sandbox is provided as a docker image and makes use of docker-compose. You must therefore have docker and docker-compose installed on your development machine. For a detailed guide on how to install docker for your OS, consult:

[docker install](#)

[docker-compose install](#)

Start the Lightbend Telemetry Sandbox

1. We have provided a Sandbox for you to use. You can find it in **LAJ-P-lightbend-akka-for-java-professional/common/docker**.
2. In terminal, navigate to `common/docker`.
3. Make sure that Docker is running, and then start the Lightbend Telemetry Sandbox in terminal using Docker Compose:

```
docker-compose up
```

For reference: Stop the Lightbend Telemetry Sandbox

1. The Lightbend Telemetry Sandbox should be running. Don't stop the Sandbox now; you need it running for the remainder of this exercise. Note the following command for reference.
2. To stop the developer sandbox, you can `Ctrl+C`.

Lightbend Telemetry Sandbox: Accessing the Dashboards

The Lightbend Telemetry Sandbox has a large number of prebuilt Dashboards for visualizing Telemetry metrics.

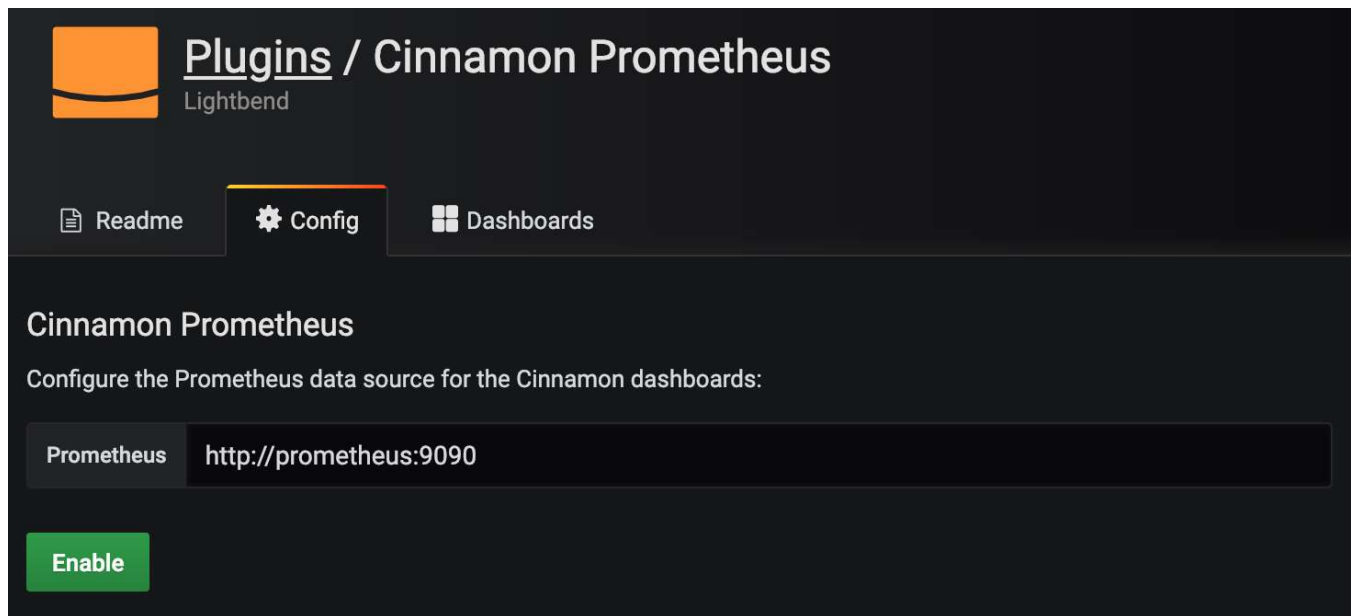
1. Navigate your browser to <http://localhost:3000>
 - You will be prompted for a username and password. Use "admin" for both.
 - You will be prompted to change the default password. You can skip this step.
2. The first time you login you will have to enable the Cinnamon Prometheus App by clicking `Enable now`.



Cinnamon Prometheus v2.10.13

[Enable now](#)

3. You may be asked to provide a url for Prometheus. Use the default setting (`http://prometheus:9090`) by clicking `Enable`.



Plugins / Cinnamon Prometheus
Lightbend

Readme **Config** Dashboards

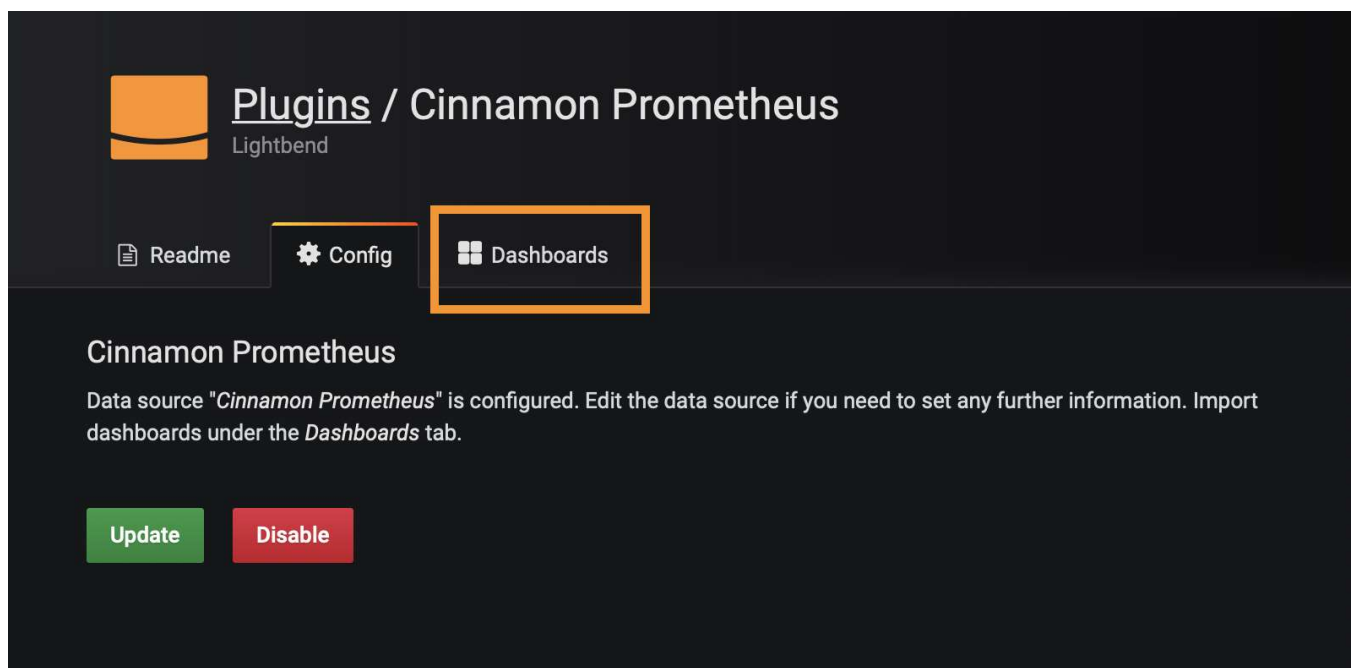
Cinnamon Prometheus

Configure the Prometheus data source for the Cinnamon dashboards:

Prometheus

Enable

4. Select the Dashboards tab.



Plugins / Cinnamon Prometheus
Lightbend

Readme **Config** **Dashboards**

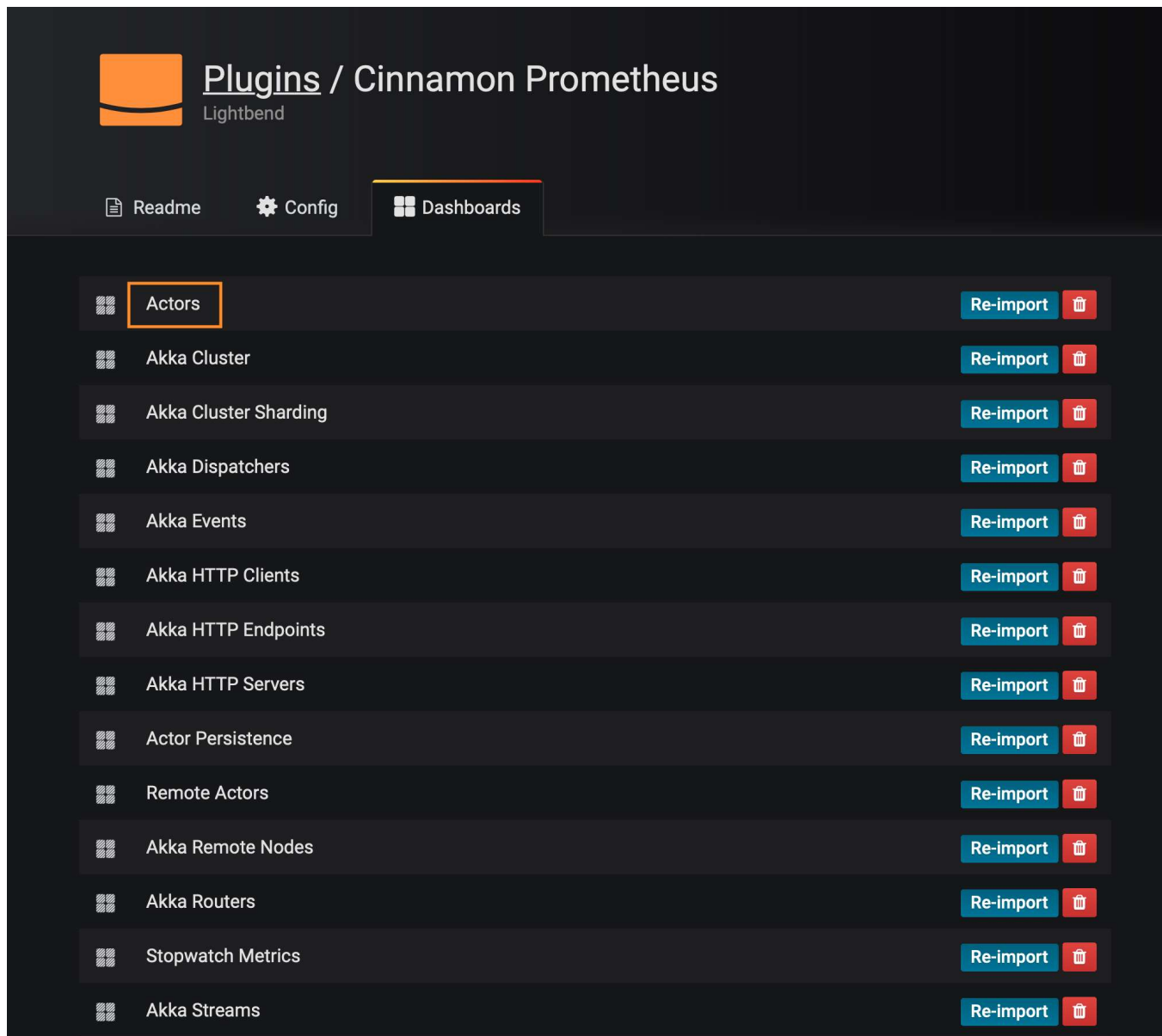
Cinnamon Prometheus

Data source "Cinnamon Prometheus" is configured. Edit the data source if you need to set any further information. Import dashboards under the *Dashboards* tab.

Update **Disable**

Actor Dashboard

1. Note there are several Akka related Dashboards. Select the Actors Dashboard.

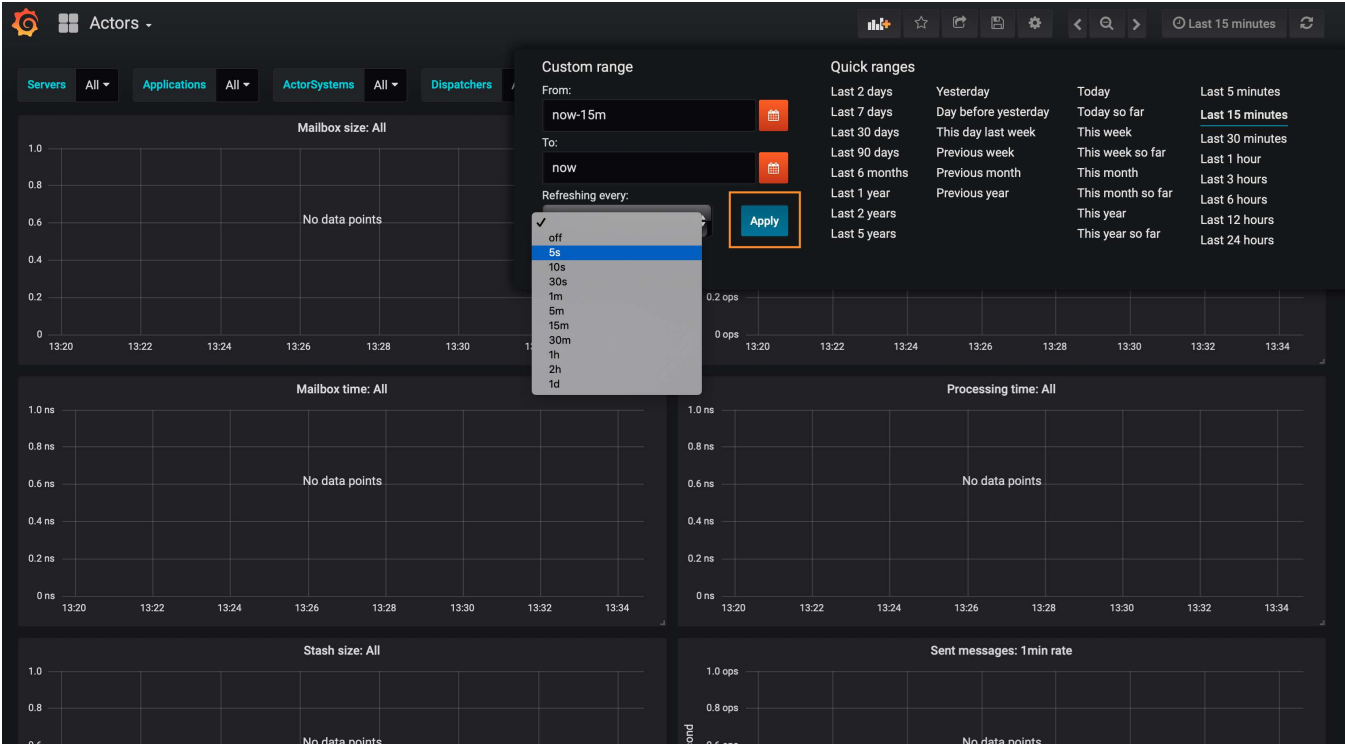


The screenshot shows the Lightbend Cinnamon Prometheus Plugins / Dashboards interface. The 'Actors' dashboard is selected and highlighted with an orange box. The interface displays a list of Akka-related dashboards, each with a 'Re-import' button and a delete icon.

Dashboard Name	Re-import	Delete
Actors	Re-import	✖
Akka Cluster	Re-import	✖
Akka Cluster Sharding	Re-import	✖
Akka Dispatchers	Re-import	✖
Akka Events	Re-import	✖
Akka HTTP Clients	Re-import	✖
Akka HTTP Endpoints	Re-import	✖
Akka HTTP Servers	Re-import	✖
Actor Persistence	Re-import	✖
Remote Actors	Re-import	✖
Akka Remote Nodes	Re-import	✖
Akka Routers	Re-import	✖
Stopwatch Metrics	Re-import	✖
Akka Streams	Re-import	✖

2. You should see the Actors Dashboard.

3. Set the Dashboard to refresh every 5 seconds, showing the last 15 minutes.



4. You can repeat this process to open and set the refresh time of other Akka Dashboards.

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