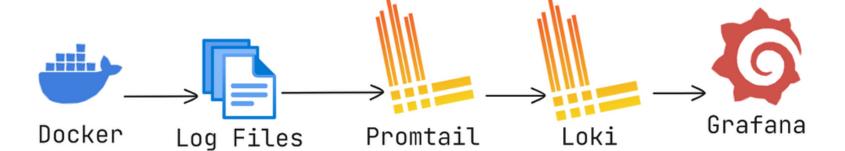
# **Dataflow**

- 1. First Docker container generate logs .
- 2. Then Promtail continuously tails the log files and sends the log data to Loki .
- 3. Loki stores the log entries .
- 4. At last Grafana queries Loki for log data and displays it through dashboard.



#### 1. Install Grafana

wget https://dl.grafana.com/enterprise/release/grafana-enterprise-10.2.3.linux-amd64.tar.gz

tar -zxvf grafana-enterprise-10.2.3.linux-amd64.tar.gz

#### 2. Install Loki and start Loki

wget

https://raw.githubusercontent.com/grafana/loki/v2.9.4/cmd/loki/loki-local-config.yaml -O loki-config.yaml

docker run --name loki -d -v \$(pwd):/mnt/config -p 3100:3100 grafana/loki:2.9.4 -config.file=/mnt/config/loki-config.yaml

## 3. Get Promtail config file

#### wget

https://raw.githubusercontent.com/grafana/loki/v2.9.4/clients/cmd/promtail/promtail-docker-config.yaml -O promtail-config.yaml

## 4. Edit Promtail config file

Add this under the **static configs** . This scrape the docker container logs .

```
targets:
localhost
labels:
job: docker-logs
_path__: /var/lib/docker/containers/*/*log
```

# 5. Run Promtail using the Promtail config file.

docker run --name promtail -d -v \$(pwd):/mnt/config -v /var/lib/docker/containers:/var/lib/docker/containers --link loki grafana/promtail:2.9.4 -config.file=/mnt/config/promtail-config.yaml

### 6. Access the metrics at port 3100

http://localhost:3100/metrics

## 7. Start grafana server

cd grafana-v10.2.3/bin/

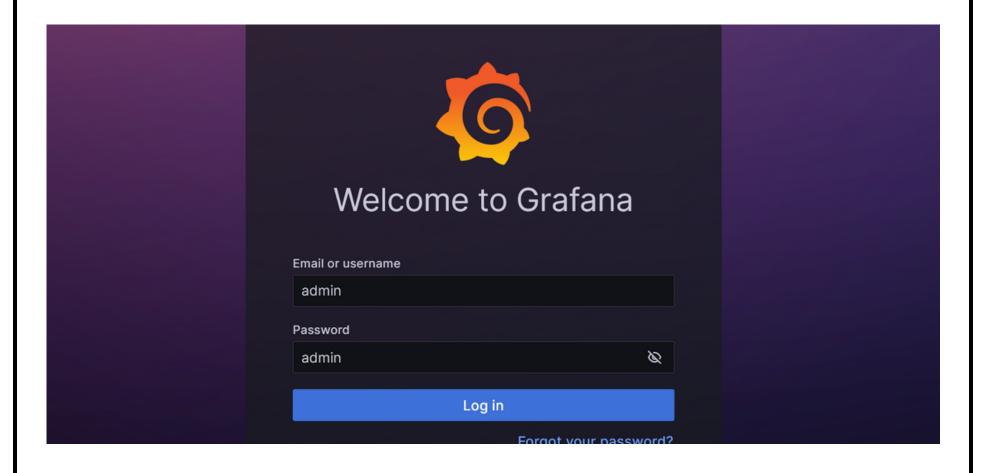
./grafana-server

## 8. Connect grafana server

http://localhost:3000/login

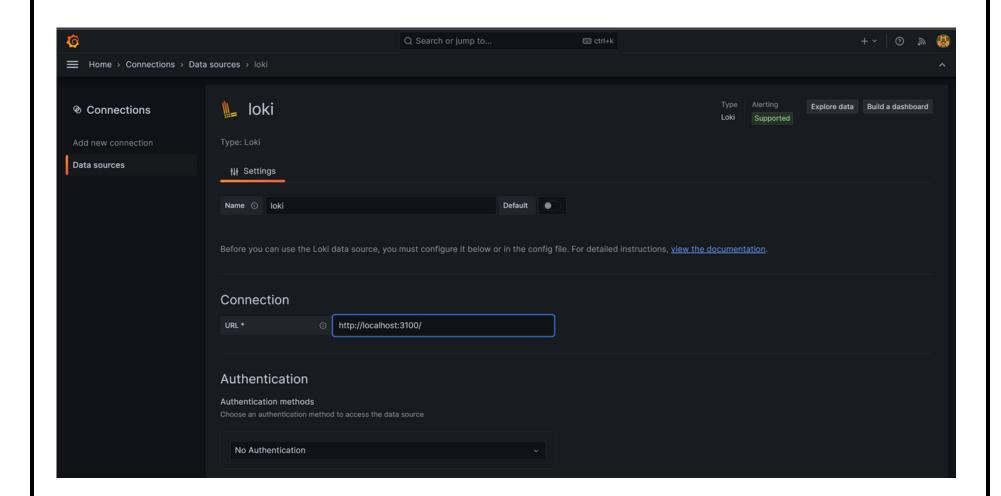
# 9. Login to grafana server

Default username : admin Default password : admin



## 10. Integrate Loki and grafana

Go to grafana dashboard Add a loki data source Enter the URL in which loki server is running . After entering the URL then click save and test .



## 11. See the docker logs

Create a new dashboard using loki as data source.

Use this {job="docker-logs"} |= `error` to see logs where you are getting error keyword.

