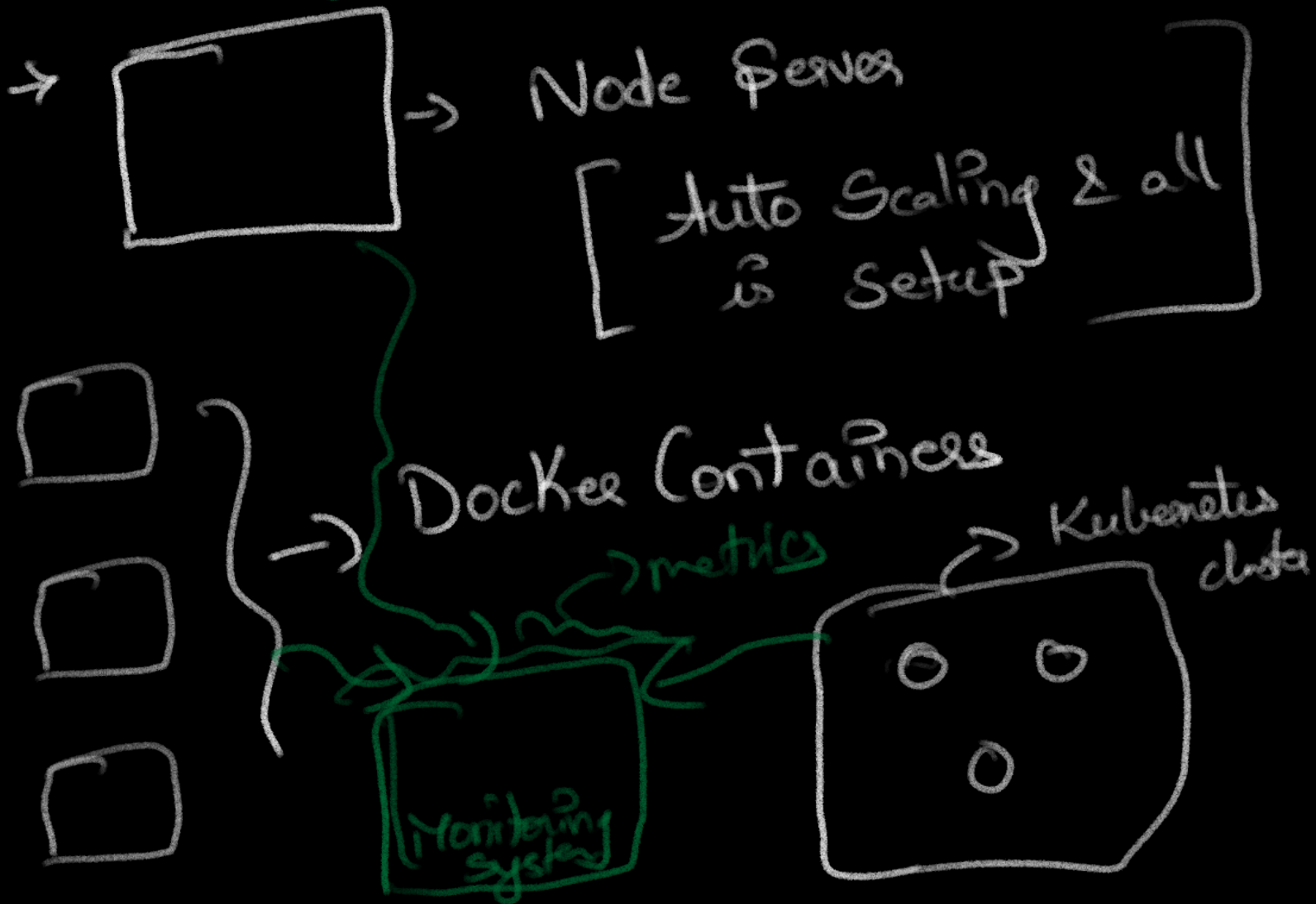


Monitoring with Grafana, Prometheus & Loki



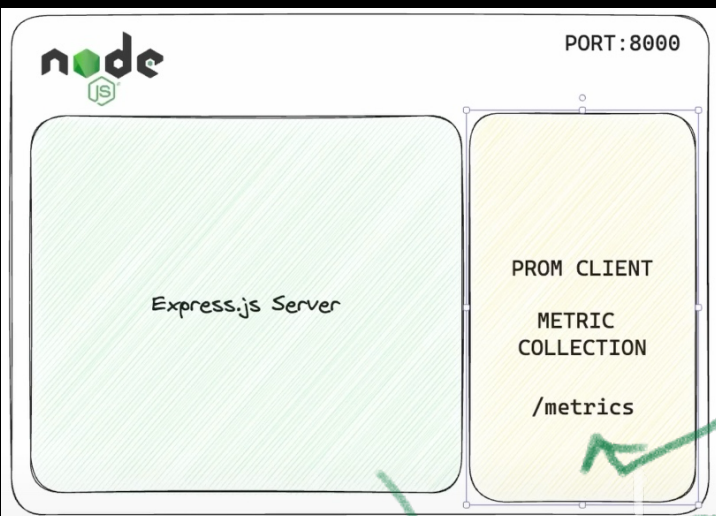
→ Now, Consider you have deployed the app & it's up & running.

→ Now, you've went to sleep & the morning you've received messages that the application was slow & throwing few errors.

→ So, To monitor if and when it is down, you need to setup a monitoring system.

→ So, You need to set a Central Monitoring system & get the metrics of all your server, containers & clusters.

→ For this, we will be using Grafana, Prometheus & Loki



Monitoring

PORT: 3000



Metrics

Log Collection



PORT: 9090
8080/metrics (45)

charts

→ we have → monitor both metrics & logs

- We will use prometheus to gather metrics & we will install a prometheus client over our server
- Node: `'npm i prom-client'` & integrate code in node.
- We then run a prometheus server on port 9090, this server will get the metrics of prom client
- We will give a 4s time interval to scrape the data again & again
- We then use grafana to visualize those metrics.
- Grafana will interact with prometheus & then will give us charts

→ After Running grafana, the username & pass by default are admin then click skip then click add data source

→ Choose prometheus & copy your ip add & prometheus port. If you are running on your local machine, go to the bottom hit Btn 'save & test'.

→ Go to Home, Create a Dashboard, Add a Visualization & select prometheus data source.

→ Then go to metrics explore & select metric & run query.

→ After Running Query, you can choose the visualization type to time series, gauge & all

→ Instead of adding each manually you can google

Nodes grafana In google & go to grafana site & copy the dashboard ID.

→ Now, go to dashboard, click new & click Import & paste ID & select data source & Run.

→ By default prometheus keeps 15 days data.

→ You can also create custom metrics
& in the code attached in repo
I have created a custom metric
[Req & Resp time of each route]
& Total Requests .

→ We should select label Route!:=
metric route & add histogram
for [Req & Resp time of each route]

→ Run Grafana Loki with docker &
[] to work with node

→ Save Dashboard & Create a
data source with Loki, and
now add visualization dashboard
by selecting Loki and label (level)
& (info) Since in code we use
logger.info & similar for (error)
& logger.error

