**Setting Up Grafana, Loki, and Prometheus in Docker**

**1️. Pull Required Docker Images**

First, download the necessary images from Docker Hub:

docker pull grafana/grafana

docker pull grafana/loki

docker pull prom/Prometheus

**2️. Create Configuration Files**

If needed, create a basic prometheus.yml config:

mkdir -p ~/grafana-stack/prometheus

vi ~/grafana-stack/prometheus/prometheus.yml

Add this basic config:

global:

scrape\_interval: 15s

scrape\_configs:

- job\_name: "prometheus"

static\_configs:

- targets: ["localhost:9090"]

**3️. Run Prometheus**

Start Prometheus with volume mapping:

docker run -d --name=prometheus \

-p 9090:9090 \

-v ~/grafana-stack/prometheus/prometheus.yml:/etc/prometheus/prometheus.yml \

prom/Prometheus

**4️. Run Loki**

Start Loki for logging:

docker run -d --name=loki \

-p 3100:3100 \

grafana/loki

**5️. Run Grafana**

Start Grafana:

docker run -d --name=grafana \

-p 3000:3000 \

grafana/Grafana

**6️. Verify All Containers Are Running**

Check that everything is running correctly:

docker ps

**7️. Access Grafana**

Visit:

http://localhost:3000

Default credentials:

* **Username:** admin
* **Password:** admin *(change after login)*