

Grafana & Prometheus

Grafana is an open-source analytics and interactive visualization web application used for monitoring application performance.

- Need data source to displayed and visualized at this time we will use an Prometheus as datasource

Installation

- via docker-compose file

```
version: '3'
services:
  prometheus:
    image: prom/prometheus:latest
    volumes:
      - ./prometheus/prometheus.yml:/etc/prometheus/promet
      - ./prometheus_data:/prometheus
    command:
      - --config.file=/etc/prometheus/prometheus.yml
      - --storage.tsdb.path=/prometheus
      - --storage.tsdb.retention=${PROMETHEUS_RETENTION:-2.
    restart: always
    networks:
      - monitor-net
  node-exporter:
    image: prom/node-exporter:latest
    networks:
      - monitor-net
  grafana:
    image: grafana/grafana:latest
    volumes:
      - ./grafana_data:/var/lib/grafana
    depends_on:
      - prometheus
    ports:
```

```

    - 3000:3000
  networks:
    - monitor-net

networks:
  monitor-net:
    driver: bridge

```

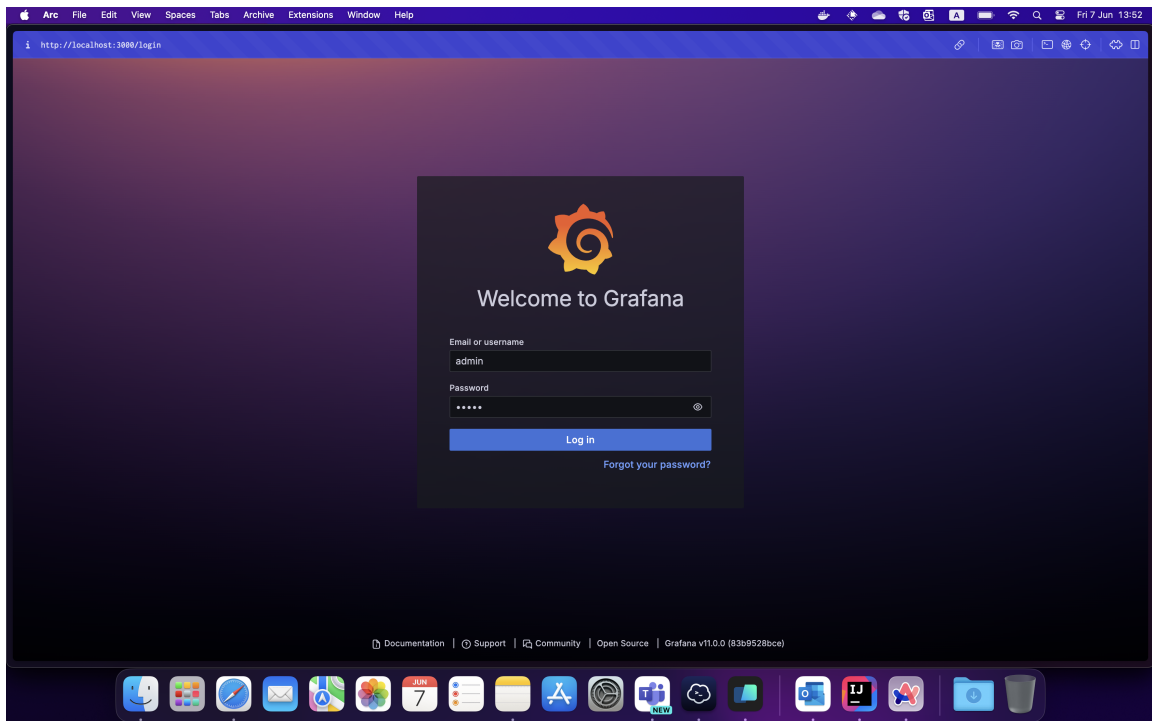
```

global:
  scrape_interval: 15s # Set the scrape interval to every 15 seconds
  evaluation_interval: 15s # Evaluate rules every 15 seconds

scrape_configs:
  - job_name: 'job-prometheus'
    scrape_interval: 9s
    static_configs:
      - targets: ['prometheus:9090']
  - job_name: "job-node-exporter"
    scrape_interval: 9s
    static_configs:
      - targets: ["node-exporter:9100"]

```

- `docker-compose up -d`



- After, we got grafana webpage let create some dash board to minitor you devices
 - Add data sourcce
 - Click on connection
 - find Prometheus options, then click add new data source
 - connection url : <http://prometheus:9090> (permetheus come from container name in docker compose file)
 - Click Save & Test
 - Go back to dashboard menu
 - Click new → import
 - go to this website to choose some build in dashboard.
<https://grafana.com/grafana/dashboards/1860-node-exporter-full/>
 - Copy dashboard id then paste it on grafana web site then click load.

