Grafana & prometheus with docker containers

>nano docker-compose.yml

```
gustavo@ubuntu2010: ~/grafana
GNU nano 5.2
version: "3.7"

volumes:
    grafana-data:
    prometheus-data:

services:
    grafana:
    image: grafana/grafana:8.0.6
    container_name: grafana
    restart: unless-stopped
    volumes:
        - grafana-data:/var/lib/grafana
    ports:
        - 3000:3000
```

🖭 gustavo@ubuntu2010: ~/grafana

```
GNU nano 5.2
                                                docker-con
prometheus:
  image: prom/prometheus:v2.28.1
 container_name: prometheus
 restart: unless-stopped
 volumes:
    - ./prometheus.yml:/etc/prometheus/prometheus.yml
   - prometheus-data:/prometheus
 ports:
    - 9090:9090
  command:
   - '--config.file=/etc/prometheus/prometheus.yml'
   - '--storage.tsdb.path=/prometheus'
   - '--storage.tsdb.retention.time=1y'
   - '--web.enable-lifecycle'
```

👊 gustavo@ubuntu2010: ~/grafana GNU nano 5.2 doc node_exporter: image: quay.io/prometheus/node-exporter:latest container name: node exporter restart: unless-stopped ports: - 9100:9100 command: - '--path.rootfs=/host' pid: host volumes: - '/:/host:ro,rslave' cadvisor: image: gcr.io/cadvisor/cadvisor:latest container_name: cadvisor restart: unless-stopped expose: - 8080 volumes: - /:/rootfs:ro - /var/run:/var/run:rw - /sys:/sys:ro - /var/lib/docker:ro

```
app_example:
  image: quay.io/brancz/prometheus-example-app:v0.3.0
  container_name: app_example
  restart: unless-stopped
  ports:
    - 80:8080
```

>nano prometheus.yml

```
gustavo@ubuntu2010: ~/grafana
 GNU nano 5.2
global:
  scrape interval: 15s
  evaluation interval: 15s
scrape configs:
  - job name: 'prometheus'
    static_configs:
    - targets: ['prometheus:9090']
 - job_name: 'cadvisor'
    static configs:
    - targets: ['cadvisor:8080']
 - job_name: 'node_exporter'
    static configs:
    - targets: ['node_exporter:9100']
  - job_name: 'app_example'
    static_configs:
    - targets: ['app_example:8080']
```

>sudo docker-compose pull

```
gustavo@ubuntu2010:~/grafana$ gustavo@ubuntu2010:~/grafana$ sudo docker-compose pull
Pulling grafana ... extracting (74.8%)
Pulling grafana ... done
Pulling node_exporter ... done
Pulling cadvisor ... done
Pulling app_example ... done
```

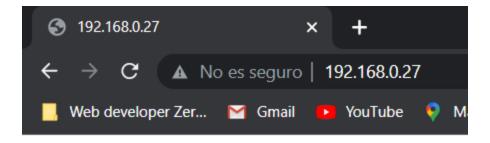
>sudo docker-compose up -d

```
gustavo@ubuntu2010:~/grafana$ sudo docker-compose up -d
[sudo] password for gustavo:
Creating network "grafana_default" with the default driver
Creating volume "grafana_grafana-data" with default driver
Creating volume "grafana_prometheus-data" with default driver
Creating app_example ... done
Creating prometheus ... done
Creating node_exporter ... done
Creating grafana ... done
Creating cadvisor ... done
```

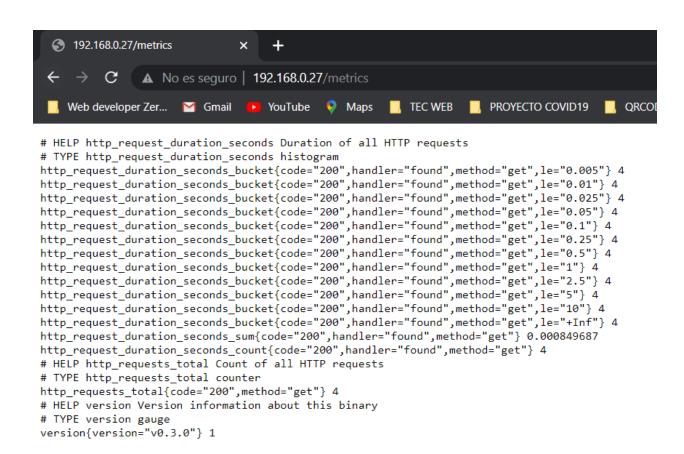
>sudo docker ps

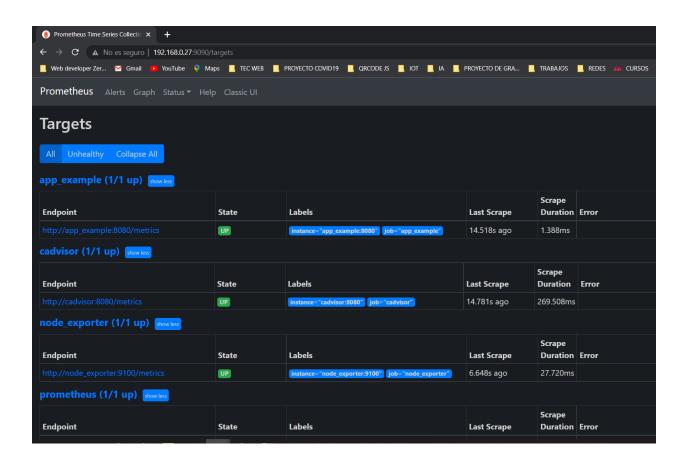
gustavo@ubuntu2010:~/grafana\$ gustavo@ubuntu2010:~/grafana\$ sudo docker ps					
CONTAINER ID	IMAGE PORTS	NAMES	COMMAND	CREATED	STATUS
67a507f1a83f tes	quay.io/prometheus/node-e 0.0.0.0:9100->9100/tcp	xporter:latest	"/bin/node_exporter"	5 minutes ago	Up 5 minu
8895b714f74c	grafana/grafana:8.0.6		"/run.sh"	5 minutes ago	Up 5 minu
tes 89a97d62e535	0.0.0.0:3000->3000/tcp gcr.io/cadvisor/cadvisor:	grafana latest	"/usr/bin/cadvisor"	5 minutes ago	Up 5 minu
tes (healthy) 08909a77ba35	8080/tcp prom/prometheus:v2.28.1	cadvisor	"/bin/prometheusc"	5 minutes ago	Up 5 minu
tes 2b71e8504e53	0.0.0.0:9090->9090/tcp quay.io/brancz/prometheus	prometheus	"/bin/prometheus-exa"	5 minutes age	Up 5 minu
tes	0.0.0.0:80->8080/tcp		/ DITI/ prometheus - exa	3 minutes ago	ob 3 miliu

Results



Hello from example application.





```
192.168.0.27:9100/metrics
                                  +
                              ×
    → C • No es seguro | 192.168.0.27:9100/metrics
 📕 Web developer Zer... 🔀 Gmail 📭 YouTube 💡 Maps 📜 TEC WEB 📘 PROYECTO COVID19 💹 QRCODE JS 📘 IOT 📘 IA 📘 PROYECTO
# HELP go_gc_duration_seconds A summary of the pause duration of garbage collection cycles.
# TYPE go_gc_duration_seconds summary
go_gc_duration_seconds{quantile="0"} 6.5372e-05
go_gc_duration_seconds{quantile="0.25"} 0.000410616
go_gc_duration_seconds{quantile="0.5"} 0.000902703
go_gc_duration_seconds{quantile="0.75"} 0.001459438
go_gc_duration_seconds{quantile="1"} 0.004279611
go_gc_duration_seconds_sum 0.026588379
go_gc_duration_seconds_count 26
\mbox{\tt\#} HELP go_goroutines Number of goroutines that currently exist.
# TYPE go_goroutines gauge
go_goroutines 8
# HELP go_info Information about the Go environment.
# TYPE go_info gauge
go_info{version="go1.17.3"} 1
# HELP go_memstats_alloc_bytes Number of bytes allocated and still in use.
# TYPE go_memstats_alloc_bytes gauge
go_memstats_alloc_bytes 3.981152e+06
# HELP go_memstats_alloc_bytes_total Total number of bytes allocated, even if freed.
# TYPE go_memstats_alloc_bytes_total counter
go_memstats_alloc_bytes_total 5.9721424e+07
# HELP go_memstats_buck_hash_sys_bytes Number of bytes used by the profiling bucket hash table.
# TYPE go_memstats_buck_hash_sys_bytes gauge
go_memstats_buck_hash_sys_bytes 1.460647e+06
# HELP go_memstats_frees_total Total number of frees.
# TYPE go_memstats_frees_total counter
go_memstats_frees_total 463145
# HELP go_memstats_gc_cpu_fraction The fraction of this program's available CPU time used by the GC since the program started.
# TYPE go_memstats_gc_cpu_fraction gauge
go_memstats_gc_cpu_fraction 0.00014828549269027677
# HELP go_memstats_gc_sys_bytes Number of bytes used for garbage collection system metadata.
# TYPE go_memstats_gc_sys_bytes gauge
go_memstats_gc_sys_bytes 5.250536e+06
# HELP go_memstats_heap_alloc_bytes Number of heap bytes allocated and still in use.
# TYPE go_memstats_heap_alloc_bytes gauge
go_memstats_heap_alloc_bytes 3.981152e+06
# HELP go_memstats_heap_idle_bytes Number of heap bytes waiting to be used.
# TYPE go_memstats_heap_idle_bytes gauge
go_memstats_heap_idle_bytes 2.793472e+06
# HELP go_memstats_heap_inuse_bytes Number of heap bytes that are in use.
# TYPE go_memstats_heap_inuse_bytes gauge
go_memstats_heap_inuse_bytes 5.20192e+06
# HELP go_memstats_heap_objects Number of allocated objects.
# TYPE go_memstats_heap_objects gauge
go memstats heap objects 22484
# HELP go_memstats_heap_released_bytes Number of heap bytes released to OS.
```

