

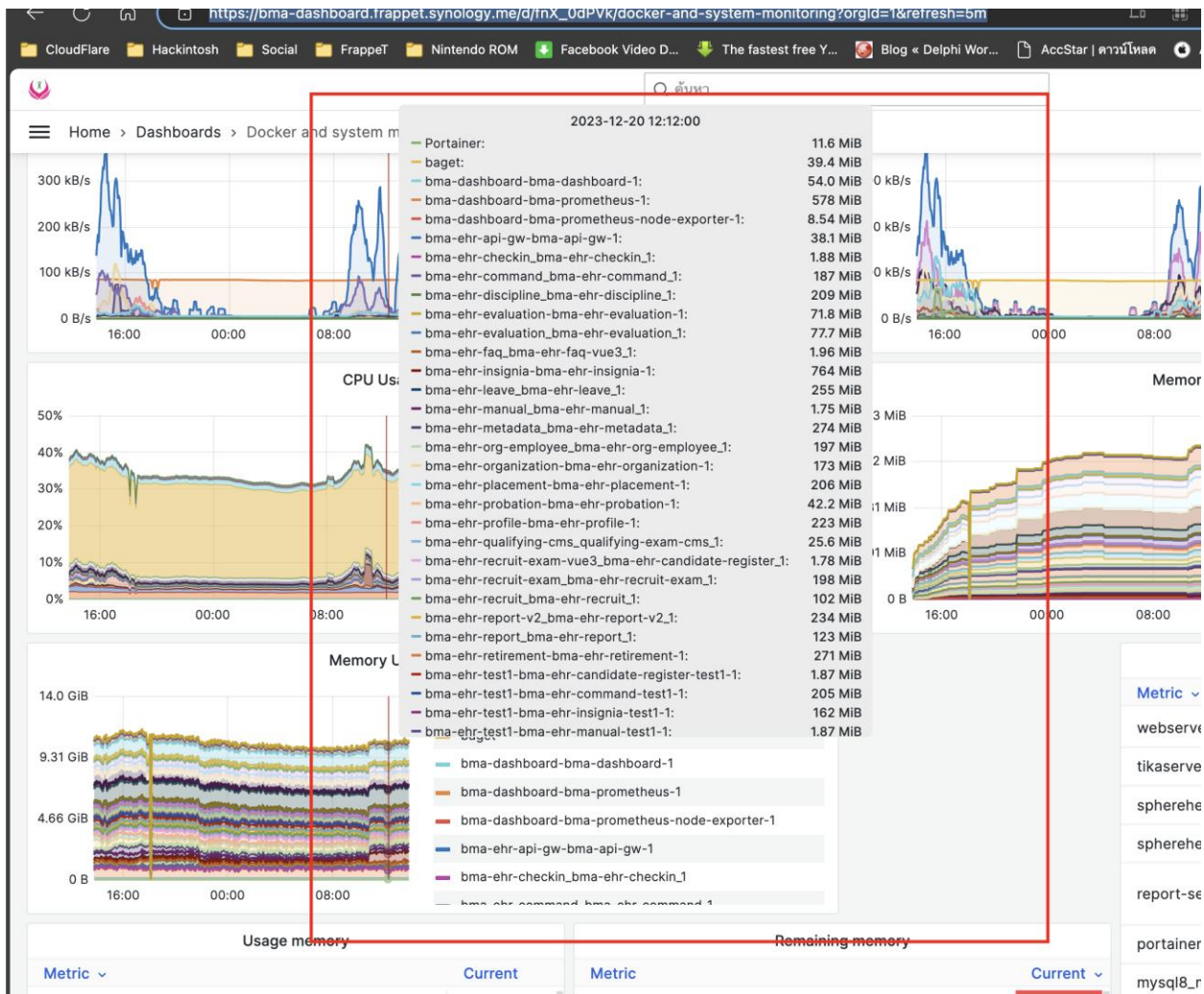


## 1. การตรวจสอบและแก้ไขปัญหา

- เมื่อพบว่า server มีการตอบสนองช้าลง ซึ่งอาจจะเป็นได้จากการที่ RAM ของ Server ไม่พอ หรือมีการใช้งาน Memory ผิดปกติ สามารถเข้าไปตรวจสอบได้ที่ Grafana Dashboard

[https://bma-dashboard.frappet.synology.me/d/fnX\\_0dPVk/docker-and-system-monitoring?orgId=1&refresh=5m](https://bma-dashboard.frappet.synology.me/d/fnX_0dPVk/docker-and-system-monitoring?orgId=1&refresh=5m)

- เมื่อเข้ามาแล้วจะเจอหน้า dashboard ให้ไปดูในส่วนของ Memory Consume



รูปภาพที่ 1 - 1 dashboard

- เมื่อพบว่า มี container ตัวใดที่มีการใช้ memory มากผิดปกติ เราจะเข้าไปทำการ stop continer หรือทำการ restart Container ใหม่ โดย ssh เข้าไปที่เครื่อง server

**ssh frappet@frappet.com**



4. ทำการใส่ password หลังจากนั้นระบบจะ ssh ไปที่เครื่อง server

```
Processes:                619
Users logged in:         0
IPv4 address for br-0dd81f9616d2: 172.29.0.1
IPv4 address for br-10daaad45f51: 172.24.0.1
IPv4 address for br-17ffe0376048: 172.18.0.1
IPv4 address for br-3d380c3389b3: 192.168.16.1
IPv4 address for br-3f6401891fa7: 192.168.112.1
IPv4 address for br-740c2421e277: 192.168.160.1
IPv4 address for br-76113759e390: 172.22.0.1
IPv4 address for br-78a07fc3256e: 172.28.0.1
IPv4 address for br-8600ab24caeb: 192.168.128.1
IPv4 address for br-a00fbbce01ad: 172.30.0.1
IPv4 address for br-a5db1b42e4eb: 192.168.176.1
IPv4 address for br-b52d32a1a1dc: 192.168.64.1
IPv4 address for br-c2fb84774a1c: 172.26.0.1
IPv4 address for br-c5fcf4a9ca46: 172.31.0.1
IPv4 address for br-cae9831fbd37: 192.168.192.1
IPv4 address for br-f433b0574747: 192.168.32.1
IPv4 address for br-f634ce1ce094: 172.23.0.1
IPv4 address for docker0:    172.17.0.1
IPv4 address for ens160:     192.168.1.9
IPv6 address for ens160:     2405:9800:b523:275e:20c:29ff:fec6:41e
```

```
=> /is using 89.9% of 97.87GB
```

```
=> There are 10 zombie processes.
```

\* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s just raised the bar for easy, resilient and secure K8s cluster deployment.

<https://ubuntu.com/engage/secure-kubernetes-at-the-edge>

\* Introducing Expanded Security Maintenance for Applications. Receive updates to over 25,000 software packages with your Ubuntu Pro subscription. Free for personal use.



<https://ubuntu.com/pro>

Expanded Security Maintenance for Applications is not enabled.

77 updates can be applied immediately.

To see these additional updates run: `apt list --upgradable`

9 additional security updates can be applied with ESM Apps.

Learn more about enabling ESM Apps service at <https://ubuntu.com/esm>

New release '22.04.3 LTS' available.

Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Dec 18 13:16:51 2023 from 1.47.195.64

frappet@dockerserver:~\$

5. ทำการ Change Directory ไปยัง folder ที่ติดตั้ง Docker

```
frappet@dockerserver:~$ cd docker
```

6. หลังจากนั้นทำการลิสต์รายการ Container ที่ Run อยู่ เพื่อที่จะทำการ Stop หรือ Restart Container ที่ต้องการ โดยใช้คำสั่ง

```
frappet@dockerserver:~/docker$ docker ps
```

7. ระบบจะแสดงรายชื่อ Container ที่ทำงานอยู่ขึ้นมา ตามภาพ

CONTAINER ID	IMAGE	CREATED	STATUS	C
OMMAND TS NAMES				POR
1b490cd596b3	docker.frappet.com/ehr/bma-ehr-discipline-service:latest	3 hours ago	Up 3 hours	"dotne 443/tcp, 0. bma-ehr-
t BMA.EHR.Disc..."				
0.0.0:4034->80/tcp, :::4034->80/tcp				
discipline_bma-ehr-discipline_1				
8e2136443c8f	docker.frappet.com/ehr/bma-ehr-user:latest	4 hours ago	Up 4 hours	"usr/1 0.0.0.0:6022->
ocal/bin/entr..."				



80/tcp, :::6022->80/tcp			bma-ehr-u
ser_bma-ehr-user_1			
88a201c6ed87	docker.frappet.com/ehr/bma-ehr-app:latest		"/usr/l
ocal/bin/entr..."	4 hours ago	Up 4 hours	0.0.0.6021->
80/tcp, :::6021->80/tcp			bma-ehr_
bma-ehr-vue3_1			
4b5c2dfc73dd	docker.frappet.com/ehr/bma-ehr-evaluation-service:latest		"docke
r-entrypoint.s..."	16 hours ago	Up 16 hours	0.0.0.4036-
>13001/tcp, :::4036->13001/tcp			bma-ehr-
evaluation_bma-ehr-evaluation_1			
f2180d210ece	docker.frappet.com/ehr/bma-ehr-leave-service:latest		"dotne
t BMA.EHR.Leav..."	28 hours ago	Up 28 hours	443/tcp, 0.
0.0.0.6031->80/tcp, :::6031->80/tcp			bma-ehr-
leave_bma-ehr-leave_1			
9bcae7358913	docker.frappet.com/ehr/bma-ehr-insignia-service:latest		"dotne
t BMA.EHR.Insi..."	2 days ago	Up 3 hours	443/tcp, 0.
0.0.0.4031->80/tcp, :::4031->80/tcp			bma-ehr-
insignia-bma-ehr-insignia-1			
8216f092003e	docker.frappet.com/ehr/bma-ehr-retirement-service:latest		"dotne
t BMA.EHR.Reti..."	2 days ago	Up 2 days	443/tcp, 0.
0.0.0.4030->80/tcp, :::4030->80/tcp			bma-ehr-
retirement-bma-ehr-retirement-1			
84e0af170318	docker.frappet.com/ehr/bma-ehr-placement-service:latest		"dotne
t BMA.EHR.Plac..."	2 days ago	Up 2 days	443/tcp, 0.
0.0.0.4032->80/tcp, :::4032->80/tcp			bma-ehr-
placement-bma-ehr-placement-1			
abd638c4d347	docker.frappet.com/ehr/bma-ehr-faq:latest		"/dock
er-entrypoint..."	4 days ago	Up 2 days	0.0.0.6025-
>80/tcp, :::6025->80/tcp			bma-ehr-
faq_bma-ehr-faq-vue3_1			
4bcf444f2c90	docker.frappet.com/ehr/bma-ehr-profile-service:latest		"dotne
t BMA-EHR-Prof..."	6 days ago	Up 2 days	443/tcp, 0.
0.0.0.4027->80/tcp, :::4027->80/tcp			bma-ehr-
profile-bma-ehr-profile-1			
2c824a54400b	docker.frappet.com/ehr/bma-ehr-checkin:latest		"/usr/l
ocal/bin/entr..."	6 days ago	Up 2 days	0.0.0.6024->



80/tcp, :::6024->80/tcp  
heckin\_bma-ehr-checkin\_1  
c48ec3e13ea5 ehr-report-api "dotnet e  
HR-Report-A..." 10 days ago Up 2 days 0.0.0.0:4430->44  
3/tcp, :::4430->443/tcp, 0.0.0.0:81->5000/tcp, :::81->5000/tcp ehr-report-api  
c9a970aff8a7 docker.frappet.com/ehr/bma-ehr-organization-service:latest "dotne  
t BMA.EHR.Orga..." 13 days ago Up 2 days 443/tcp, 0.  
0.0.0:4026->80/tcp, :::4026->80/tcp bma-ehr-  
organization-bma-ehr-organization-1  
80403c502f6a docker.frappet.com/ehr/bma-ehr-recruit-exam-service:latest "dotnet  
BMA.EHR.Recu..." 4 weeks ago Up 2 days 443/tcp, 0.0.  
0.0:4069->80/tcp, :::4069->80/tcp bma-ehr-te  
st1-bma-ehr-recruit-exam-test1-1  
99da356ddea5 docker.frappet.com/ehr/bma-ehr-recruit-exam-service:latest "dotnet  
BMA.EHR.Recu..." 4 weeks ago Up 2 days 443/tcp, 0.0.  
0.0:4033->80/tcp, :::4033->80/tcp bma-ehr-re  
cruit-exam\_bma-ehr-recruit-exam\_1  
0ab8947355b6 3ad12046bf7c "/  
usr/local/bin/entr..." 4 weeks ago Up 2 days 80/tcp  
bma-ehr-test1-bma-ehr-test1-1  
324cae12b336 docker.frappet.com/ehr/bma-ehr-manual:latest "usr/l  
ocal/bin/entr..." 4 weeks ago Up 2 days 80/tcp  
bma-ehr-test1-bma-ehr-manual-test1-1  
d3c8b0d3383e 534aac270233 "/  
usr/local/bin/entr..." 4 weeks ago Up 2 days 80/tcp  
bma-ehr-test1-bma-ehr-user-test1-1  
8ba1b37a622c docker.frappet.com/ehr/bma-ehr-org-employee-service:latest "dotnet  
BMA.EHR.Orga..." 4 weeks ago Up 2 days 80/tcp, 443/t  
cp bma  
-ehr-test1-bma-ehr-org-employee-test1-1  
bb3555945d22 277e0ebc1631 "  
dotnet BMA.EHR.Retire..." 4 weeks ago Up 2 days 80/tc  
p, 443/tcp  
bma-ehr-test1-bma-ehr-retirement-test1-1  
f4abc9d3d421 docker.frappet.com/ehr/bma-ehr-report-service:latest "dotne  
t BMA.EHR.Repo..." 4 weeks ago Up 2 days 80/tcp, 44  
3/tcp b



```

ma-ehr-test1-bma-ehr-report-test1-1
73ae0a27a829 4cbb48b42190 "
dotnet BMA.EHR.Insi..." 4 weeks ago Up 2 days 443/t
cp, 0.0.0.5031->80/tcp, :::5031->80/tcp bm
a-ehr-test1-bma-ehr-insignia-test1-1
f0e5346e71c5 d65b54269209 "
dotnet BMA-EHR-Prof..." 4 weeks ago Up 2 days 80/tc
p, 443/tcp
bma-ehr-test1-bma-ehr-profile-test1-1
a629aad58606 mongo:4.2.0 "do
cker-entrypoint.s..." 4 weeks ago Up 2 days 0.0.0:4
062->27017/tcp, :::4062->27017/tcp bma-
ehr-test1-bma-mongodb-test1-1
3a23d61be33b docker.frappet.com/ehr/bma-ehr-organization-service:latest "dotne
t BMA.EHR.Orga..." 4 weeks ago Up 2 days 80/tcp, 44
3/tcp b
ma-ehr-test1-bma-ehr-organization-test1-1
4a6e110697a8 docker.frappet.com/demo/qualifying-exam-cms:latest "docke
r-entrypoint.s..." 4 weeks ago Up 2 days 80/tcp
bma-ehr-test1-bma-ehr-qualifying-exam-cms-test1-1
86e94db01203 docker.frappet.com/ehr/bma-ehr-node-service:version-1.0.7 "docker-e
ntrypoint.s..." 4 weeks ago Up 2 days 8080/tcp
bma-ehr-test1-bma-ehr-probation-test1-1
e47ff4ea8266 docker.frappet.com/ehr/bma-ehr-report-v2-service:latest "dotnet
BMA.EHR.Repo..." 4 weeks ago Up 2 days 80/tcp, 443/t
cp bma
-ehr-test1-bma-ehr-report-v2-test1-1
dd6c18083ebc docker.frappet.com/ehr/bma-ehr-command-service:latest "dotne
t BMA.EHR.Comm..." 4 weeks ago Up 2 days 80/tcp, 44
3/tcp b
ma-ehr-test1-bma-ehr-command-test1-1
b268b267da1d mysql:8.0.17 "do
cker-entrypoint.s..." 4 weeks ago Up 20 hours 33060/t
cp, 0.0.0.4061->3306/tcp, :::4061->3306/tcp bma-e
hr-test1-bma-mysql-test1-1
856992fb6851 docker.frappet.com/ehr/bma-ehr-recruit-service:latest "dotne
t BMA.EHR.Recr..." 4 weeks ago Up 2 days 80/tcp, 44

```



```

3/tcp
ma-ehr-test1-bma-ehr-recruit-test1-1
35c36ed5b7c0 docker.frappet.com/ehr/bma-ehr-metadata-service:latest "dotne
t BMA.EHR.Meta..." 4 weeks ago Up 2 days 443/tcp, 0.
0.0.0:4065->80/tcp, :::4065->80/tcp bma-ehr-
test1-bma-ehr-metadata-test1-1
23a6df9c1be5 7857451b76dc "
dotnet BMA.EHR.Plac..." 4 weeks ago Up 2 days 80/tc
p, 443/tcp
bma-ehr-test1-bma-ehr-placement-test1-1
ef3721d59245 docker.frappet.com/ehr/bma-ehr-recruit-exam:latest "/usr/lo
cal/bin/entr..." 4 weeks ago Up 2 days 80/tcp
bma-ehr-test1-bma-ehr-candidate-register-test1-1
1663ca346dde docker.frappet.com/ehr/bma-ehr-manual:latest "/usr/l
ocal/bin/entr..." 4 weeks ago Up 2 days 0.0.0.0:6023->
80/tcp, :::6023->80/tcp bma-ehr-m
anual_bma-ehr-manual_1
4415bd986a99 docker.frappet.com/ehr/bma-ehr-report-v2-service:latest "dotnet
BMA.EHR.Repo..." 5 weeks ago Up 2 days 443/tcp, 0.0.
0.0:6029->80/tcp, :::6029->80/tcp bma-ehr-re
port-v2_bma-ehr-report-v2_1
90c1c4d15b2e docker.frappet.com/ehr/bma-ehr-recruit-exam:latest "/usr/lo
cal/bin/entr..." 5 weeks ago Up 2 days 0.0.0.0:4021->8
0/tcp, :::4021->80/tcp bma-ehr-re
cruit-exam-vue3_bma-ehr-candidate-register_1
2658a45bca14 docker.frappet.com/ehr/bma-ehr-report-service:latest "dotne
t BMA.EHR.Repo..." 5 weeks ago Up 2 days 443/tcp, 0.
0.0.0:5026->80/tcp, :::5026->80/tcp bma-ehr-
report_bma-ehr-report_1
aad53f02bf58 docker.frappet.com/ehr/bma-ehr-command-service:latest "dotne
t BMA.EHR.Comm..." 7 weeks ago Up 2 days 443/tcp, 0.
0.0.0:6026->80/tcp, :::6026->80/tcp bma-ehr-
command_bma-ehr-command_1
fff43fecaacb docker.frappet.com/ehr/bma-ehr-org-employee-service:latest "dotnet
BMA.EHR.Orga..." 2 months ago Up 2 days 80/tcp, 443/t
cp bma
-ehr-org-employee_bma-ehr-org-employee_1

```



```

dd6d3d8bc546  docker.frappet.com/ehr/bma-ehr-node-service:version-1.0.7  "docker-e
ntrypoint.s..."  2 months ago  Up 2 days  8080/tcp
bma-ehr-probation-bma-ehr-probation-1
ccefc50482a6  docker.frappet.com/demo/qualifying-exam-cms:latest  "docke
r-entrypoint.s..."  2 months ago  Up 2 days  0.0.0.0:4028-
>80/tcp, :::4028->80/tcp  bma-ehr-
qualifying-cms_qualifying-exam-cms_1
cc009e492421  docker.frappet.com/ehr/bma-ehr-recruit-service:latest  "dotne
t BMA.EHR.Recr..."  2 months ago  Up 2 days  80/tcp, 44
3/tcp  b
ma-ehr-recruit_bma-ehr-recruit_1
8b733df6a834  docker.frappet.com/demo/report-server:latest  "dock
er-entrypoint.s..."  2 months ago  Up 2 days  0.0.0.0:309
0->80/tcp, :::3090->80/tcp  repor
t-server-report-server-1
864e845766ae  bd57ddd1e93d  "
dotnet SphereHealth..."  2 months ago  Restarting (139)47 seconds ago
spherehealth-prod-spherehealth-backend-prod-1
24745bd3cbde  d3b506a2d4b9  "/"
usr/local/bin/entr..."  3 months ago  Up 2 days  80/tcp
spherehealth-prod-spherehealth-vue3-prod-1
acc0c1746f0f  docker.frappet.com/ehr/bma-ehr-metadata-service:latest  "dotne
t BMA.EHR.Meta..."  3 months ago  Up 2 days  443/tcp, 0.
0.0.0:4025->80/tcp, :::4025->80/tcp  bma-ehr-
metadata_bma-ehr-metadata_1
f5f05cc90d11  quay.io/keycloak/keycloak:20.0.3  "/opt/keycloak
/bin/k..."  4 months ago  Up 2 days  8443/tcp, 0.0.0.0:901
0->8080/tcp, :::9010->8080/tcp  keycloak-test
fee432384ea7  postgres:15.1-alpine  "docker-
entrypoint.s..."  6 months ago  Up 2 days  5432/tcp
keycloak-identity-postgres-1
3c3ac01091e6  loicsharma/baget:0b46f0ec87216e1dc6839277712ee07c1c2b611a  "d
otnet BaGet.dll"  6 months ago  Up 2 days  0.0.0.0:
15556->80/tcp, :::15556->80/tcp  ba
get
40f054ece24f  prom/prometheus:latest  "b
in/prometheus -c..."  6 months ago  Up 2 days  9090/tcp

```



```
bma-dashboard-bma-prometheus-1
e17adaf40f28  docker.frappet.com/demo/bma-dashboard:latest          "/run.s
h"                6 months ago    Up 2 days          3000/tcp
bma-dashboard-bma-dashboard-1
8d2e117e4306  google/cadvisor:latest                                  "/u
sr/bin/cadvisor  ..." 6 months ago    Up 2 days          8080/tcp
monitoring_cadvisor
a288c7d7b10c  prom/node-exporter                                     "/b
in/node_exporter" 6 months ago    Up 2 days          9100/tc
p
bma-dashboard-bma-prometheus-node-exporter-1
c4fea5e15f78  traefik:v2.10                                          "/e
ntrypoint.sh traefik:v2.10 7 months ago    Up 2 days          0.0.0.0:
4020->80/tcp, :::4020->80/tcp          bm
a-ehr-api-gw-bma-api-gw-1
9806b55da711  apache-php7                                           "/d
ocker-php-entri... 7 months ago    Up 2 days          0.0.0.0:
80->80/tcp, :::80->80/tcp, 0.0.0.0:443->443/tcp, :::443->443/tcp  webserver
e7808259eab3  tika-server                                           "/"
bin/sh -c 'java -jar...' 7 months ago    Up 2 days          0.0.0.0:9
998->9998/tcp, :::9998->9998/tcp      tik
aserver
9af0aec7f9ba  mysql:8.0.17                                          "/do
cker-entrypoint.s... 7 months ago    Up 2 days          0.0.0.0:3
306->3306/tcp, :::3306->3306/tcp, 33060/tcp  mysq
l
6859572c42b5  mongo:4.2.0                                          "/do
cker-entrypoint.s... 7 months ago    Up 2 days          0.0.0.0:2
7017->27017/tcp, :::27017->27017/tcp      mon
go
afe584fe1269  mysql/mysql-server:8.0                               "/en
trypoint.sh --de... 18 months ago    Up 2 days (healthy) 33060-33061/tcp, 0.0.0.
0:3311->3306/tcp, :::3311->3306/tcp      mysql8_mysql_1
c2333a34ef69  mariadb:10.7.3                                       "/do
cker-entrypoint.s... 21 months ago    Up 2 days          0.0.0.0:3
310->3306/tcp, :::3310->3306/tcp      mar
iadb_mysql_1
```



```
f5a0c9ae2498  phpmysql:latest
docker-entrypoint..." 23 months ago Up 2 days 80/tcp
docker-x64-test_app.phpmysql_1
c20d70716107  mysql/mysql-server:8.0.23
rypoint.sh --de..." 23 months ago Up 2 days (healthy) 33060-33061/tcp, 0.0.0.0:
3308->3306/tcp, :::3308->3306/tcp docker-x64-test_app.m
ysql_1
b04141fe65d3  portainer/portainer-ce:latest
rtainer -H unix:..." 2 years ago Up 2 days 0.0.0.0:90
04->8000/tcp, :::9004->8000/tcp, 0.0.0.0:9005->9000/tcp, :::9005->9000/tcp portainer_p
ortainer_1
eb37e5951258  portainer/portainer
ortainer" 4 years ago Up 2 days 0.0.0.0:
8000->8000/tcp, :::8000->8000/tcp, 0.0.0.0:9000->9000/tcp, :::9000->9000/tcp Portainer
frappet@dockerserver:~/docker$
```

8. ทำการ Stop Container ที่ต้องการ โดยใช้คำสั่ง

```
frappet@dockerserver:~/docker$ docker stop <<container_name>>
```

9. หลังจากนั้นทำการ Start Container ที่ต้องการขึ้นมาอีกครั้ง โดยการใช้คำสั่ง

```
frappet@dockerserver:~/docker$ docker start <<container_name>>
```