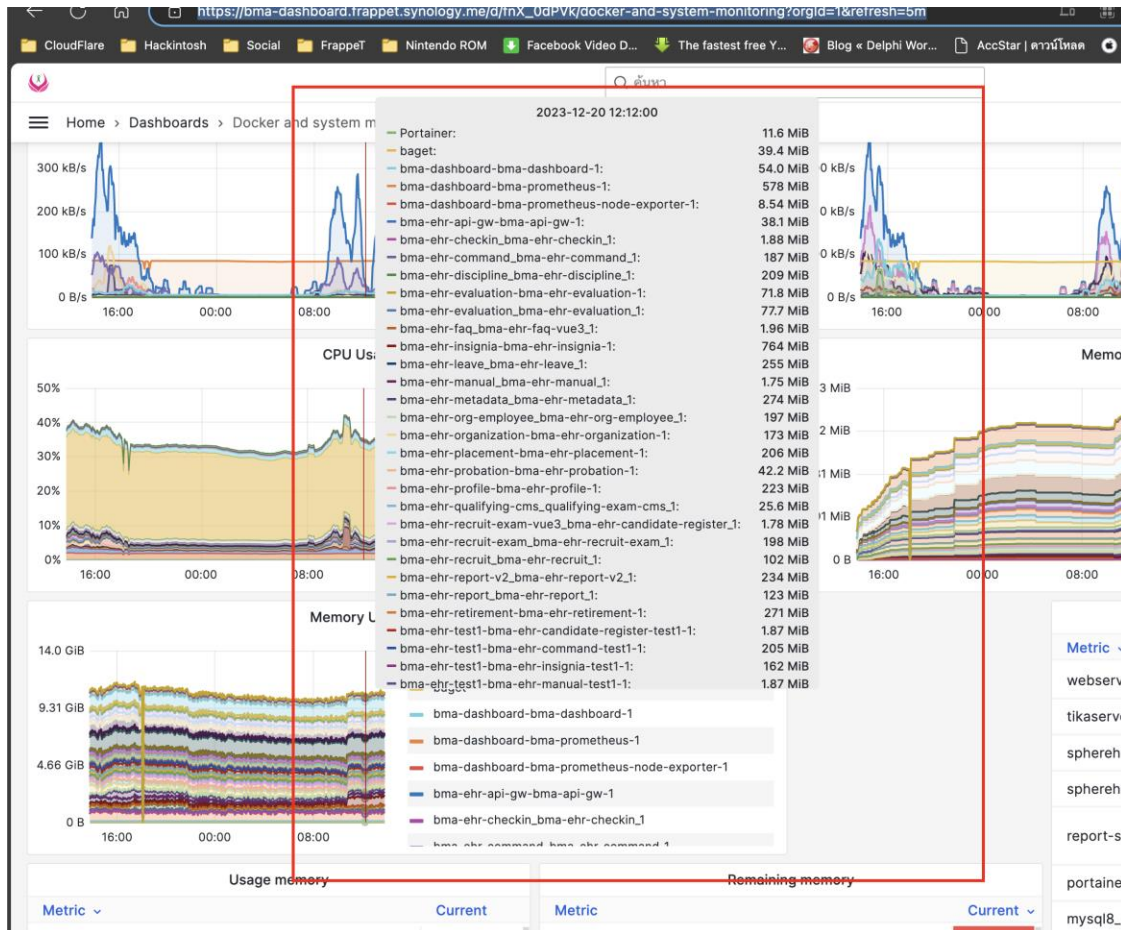


การตรวจสอบและแก้ไขปัญหา

1. เมื่อพบว่า server มีการตอบสนองช้าลง ซึ่งอาจจะเป็นได้จากกรณีที่ 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

2. เมื่อเข้ามาแล้วจะเจอหน้า dashboard ให้ไปดูในส่วนของ Memory Consume



รูปภาพที่ 1 - 1 dashboard

3. เมื่อพบว่ามี container ตัวใดที่มีการใช้ memory มากผิดปกติ เราจะเข้าไปทำการ stop container 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
COMMAND          CREATED          STATUS
PORTS
NAMES
1b490cd596b3   docker.frappet.com/ehr/bma-ehr-discipline-service:latest
"dotnet BMA.EHR.Disc..." 3 hours ago     Up 3 hours
443/tcp, 0.0.0.0:4034->80/tcp, :::4034->80/tcp
bma-ehr-discipline_bma-ehr-discipline_1
8e2136443c8f   docker.frappet.com/ehr/bma-ehr-user:latest
"/usr/local/bin/entr..." 4 hours ago     Up 4 hours
0.0.0.0:6022->80/tcp, :::6022->80/tcp
bma-ehr-user_bma-ehr-user_1
88a201c6ed87   docker.frappet.com/ehr/bma-ehr-app:latest
"/usr/local/bin/entr..." 4 hours ago     Up 4 hours
0.0.0.0:6021->80/tcp, :::6021->80/tcp
bma-ehr_bma-ehr-vue3_1
4b5c2dfc73dd   docker.frappet.com/ehr/bma-ehr-evaluation-service:latest
"docker-entrypoint.s..." 16 hours ago    Up 16 hours
0.0.0.0:4036->13001/tcp, :::4036->13001/tcp
bma-ehr-evaluation_bma-ehr-evaluation_1
f2180d210ece   docker.frappet.com/ehr/bma-ehr-leave-service:latest
"dotnet 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
"dotnet 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
"dotnet 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
"dotnet 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
"/docker-entrypoint...." 4 days ago      Up 2 days
0.0.0.0:6025->80/tcp, :::6025->80/tcp
bma-ehr-faq_bma-ehr-faq-vue3_1
4bcf444f2c90   docker.frappet.com/ehr/bma-ehr-profile-service:latest
```

"dotnet 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/local/bin/entr..." 6 days ago Up 2 days
0.0.0.0:6024->80/tcp, :::6024->80/tcp
bma-ehr-checkin_bma-ehr-checkin_1
c48ec3e13ea5 ehr-report-api
"dotnet eHR-Report-A..." 10 days ago Up 2 days
0.0.0.0:4430->443/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
"dotnet 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-test1-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-recruit-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/local/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/tcp
bma-ehr-test1-bma-ehr-org-employee-test1-1
bb3555945d22 277e0ebc1631
"dotnet BMA.EHR.Retir..." 4 weeks ago Up 2 days
80/tcp, 443/tcp
bma-ehr-test1-bma-ehr-retirement-test1-1
f4abc9d3d421 docker.frappet.com/ehr/bma-ehr-report-service:latest
"dotnet BMA.EHR.Repo..." 4 weeks ago Up 2 days
80/tcp, 443/tcp
bma-ehr-test1-bma-ehr-report-test1-1
73ae0a27a829 4cbb48b42190
"dotnet BMA.EHR.Insi..." 4 weeks ago Up 2 days
443/tcp, 0.0.0.0:5031->80/tcp, :::5031->80/tcp

bma-ehr-test1-bma-ehr-insignia-test1-1
f0e5346e71c5 d65b54269209
"dotnet BMA-EHR-Prof..." 4 weeks ago Up 2 days
80/tcp, 443/tcp
bma-ehr-test1-bma-ehr-profile-test1-1
a629aad58606 mongo:4.2.0
"docker-entrypoint.s..." 4 weeks ago Up 2 days
0.0.0.0:4062->27017/tcp, :::4062->27017/tcp
bma-ehr-test1-bma-mongodb-test1-1
3a23d61be33b docker.frappet.com/ehr/bma-ehr-organization-service:latest
"dotnet BMA.EHR.Orga..." 4 weeks ago Up 2 days
80/tcp, 443/tcp
bma-ehr-test1-bma-ehr-organization-test1-1
4a6e110697a8 docker.frappet.com/demo/qualifying-exam-cms:latest
"docker-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-entrypoint.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/tcp
bma-ehr-test1-bma-ehr-report-v2-test1-1
dd6c18083ebc docker.frappet.com/ehr/bma-ehr-command-service:latest
"dotnet BMA.EHR.Comm..." 4 weeks ago Up 2 days
80/tcp, 443/tcp
bma-ehr-test1-bma-ehr-command-test1-1
b268b267da1d mysql:8.0.17
"docker-entrypoint.s..." 4 weeks ago Up 20 hours
33060/tcp, 0.0.0.0:4061->3306/tcp, :::4061->3306/tcp
bma-ehr-test1-bma-mysql-test1-1
856992fb6851 docker.frappet.com/ehr/bma-ehr-recruit-service:latest
"dotnet BMA.EHR.Recr..." 4 weeks ago Up 2 days
80/tcp, 443/tcp
bma-ehr-test1-bma-ehr-recruit-test1-1
35c36ed5b7c0 docker.frappet.com/ehr/bma-ehr-metadata-service:latest
"dotnet 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/tcp, 443/tcp
bma-ehr-test1-bma-ehr-placement-test1-1
ef3721d59245 docker.frappet.com/ehr/bma-ehr-recruit-exam:latest
"/usr/local/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/local/bin/entr..." 4 weeks ago Up 2 days
0.0.0.0:6023->80/tcp, :::6023->80/tcp
bma-ehr-manual_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-report-v2_bma-ehr-report-v2_1
90c1c4d15b2e docker.frappet.com/ehr/bma-ehr-recruit-exam:latest
"/usr/local/bin/entr..." 5 weeks ago Up 2 days
0.0.0.0:4021->80/tcp, :::4021->80/tcp
bma-ehr-recruit-exam-vue3_bma-ehr-candidate-register_1
2658a45bca14 docker.frappet.com/ehr/bma-ehr-report-service:latest
"dotnet 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
"dotnet 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/tcp
bma-ehr-org-employee_bma-ehr-org-employee_1
dd6d3d8bc546 docker.frappet.com/ehr/bma-ehr-node-service:version-1.0.7
"docker-entrypoint.s..." 2 months ago Up 2 days
8080/tcp
bma-ehr-probation-bma-ehr-probation-1
ccef50482a6 docker.frappet.com/demo/qualifying-exam-cms:latest
"docker-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
"dotnet BMA.EHR.Recr..." 2 months ago Up 2 days
80/tcp, 443/tcp
bma-ehr-recruit_bma-ehr-recruit_1
8b733df6a834 docker.frappet.com/demo/report-server:latest
"docker-entrypoint.s..." 2 months ago Up 2 days
0.0.0.0:3090->80/tcp, :::3090->80/tcp
report-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
"dotnet 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, 0.0.0.0:9010->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
"dotnet BaGet.dll" 6 months ago Up 2 days
0.0.0.0:15556->80/tcp, :::15556->80/tcp
baget
40f054ece24f prom/prometheus:latest
"/bin/prometheus --c..." 6 months ago Up 2 days
9090/tcp
bma-dashboard-bma-prometheus-1
e17adaf40f28 docker.frappet.com/demo/bma-dashboard:latest
"/run.sh" 6 months ago Up 2 days
3000/tcp
bma-dashboard-bma-dashboard-1
8d2e117e4306 google/cadvisor:latest
"/usr/bin/cadvisor -..." 6 months ago Up 2 days
8080/tcp
monitoring_cadvisor
a288c7d7b10c prom/node-exporter
"/bin/node_exporter" 6 months ago Up 2 days
9100/tcp
bma-dashboard-bma-prometheus-node-exporter-1
c4fea5e15f78 traefik:v2.10
"/entrypoint.sh trae..." 7 months ago Up 2 days
0.0.0.0:4020->80/tcp, :::4020->80/tcp
bma-ehr-api-gw-bma-api-gw-1
9806b55da711 apache-php7
"docker-php-entrypoi..." 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 -j..." 7 months ago Up 2 days
0.0.0.0:9998->9998/tcp, :::9998->9998/tcp
tikaserver
9af0aec7f9ba mysql:8.0.17
"docker-entrypoint.s..." 7 months ago Up 2 days
0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp
mysql
6859572c42b5 mongo:4.2.0
"docker-entrypoint.s..." 7 months ago Up 2 days
0.0.0.0:27017->27017/tcp, :::27017->27017/tcp
mongo
afe584fe1269 mysql/mysql-server:8.0
"/entrypoint.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
"docker-entrypoint.s..." 21 months ago Up 2 days
0.0.0.0:3310->3306/tcp, :::3310->3306/tcp
mariadb_mysql_1
f5a0c9ae2498 phpmyadmin:latest
"/docker-entrypoint...." 23 months ago Up 2 days
80/tcp
docker-x64-test_app.phpmyadmin_1
c20d70716107 mysql/mysql-server:8.0.23
"/entrypoint.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.mysql_1
b04141fe65d3 portainer/portainer-ce:latest
"/portainer -H unix:..." 2 years ago Up 2 days
0.0.0.0:9004->8000/tcp, :::9004->8000/tcp, 0.0.0.0:9005->9000/tcp, :::9005-
>9000/tcp portainer_portainer_1
eb37e5951258 portainer/portainer
"/portainer" 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>>
```