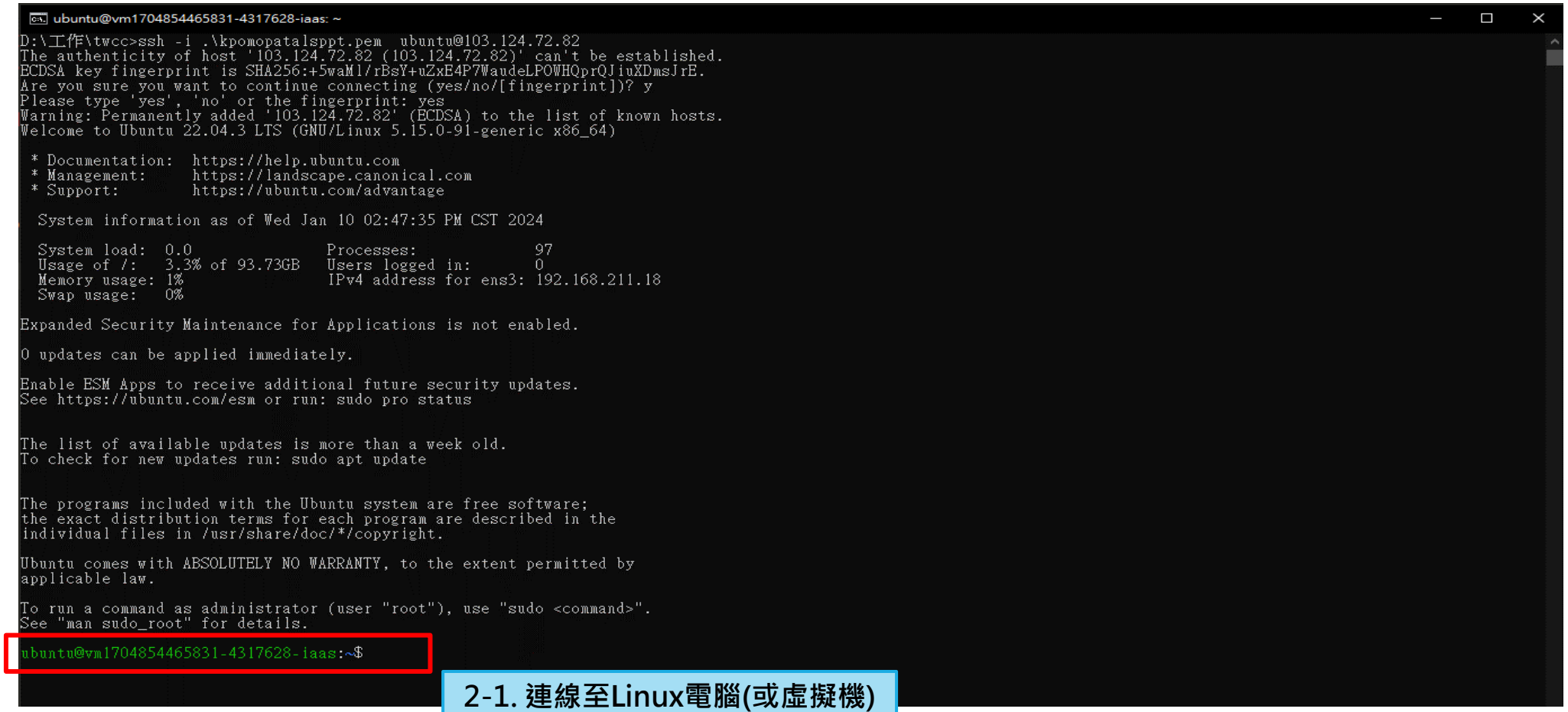
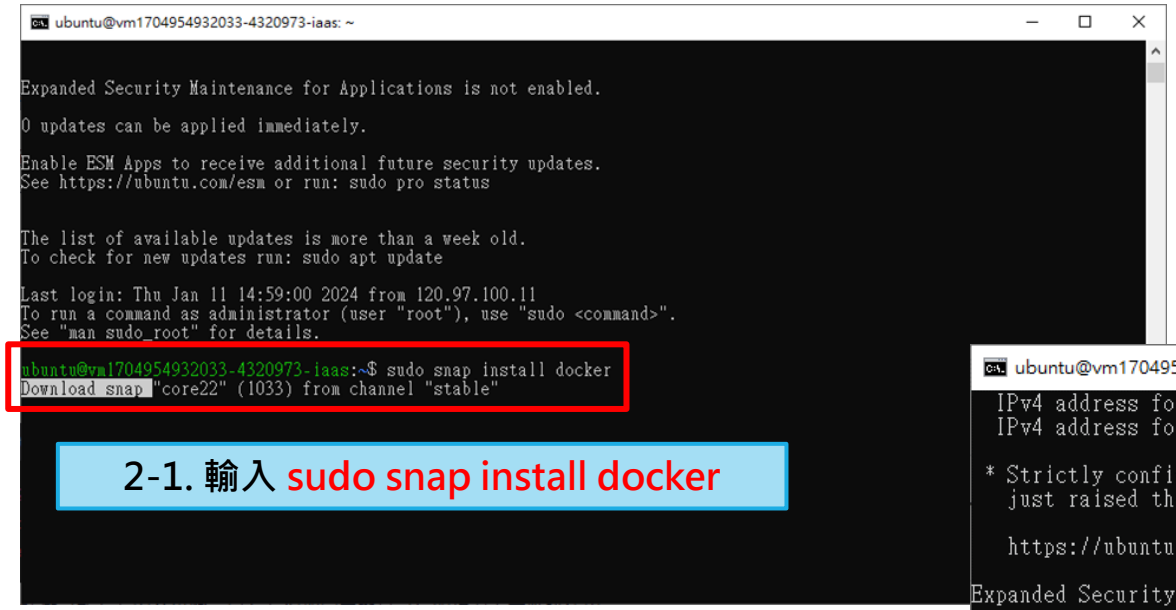
Smart on FHIR Server

LINUX

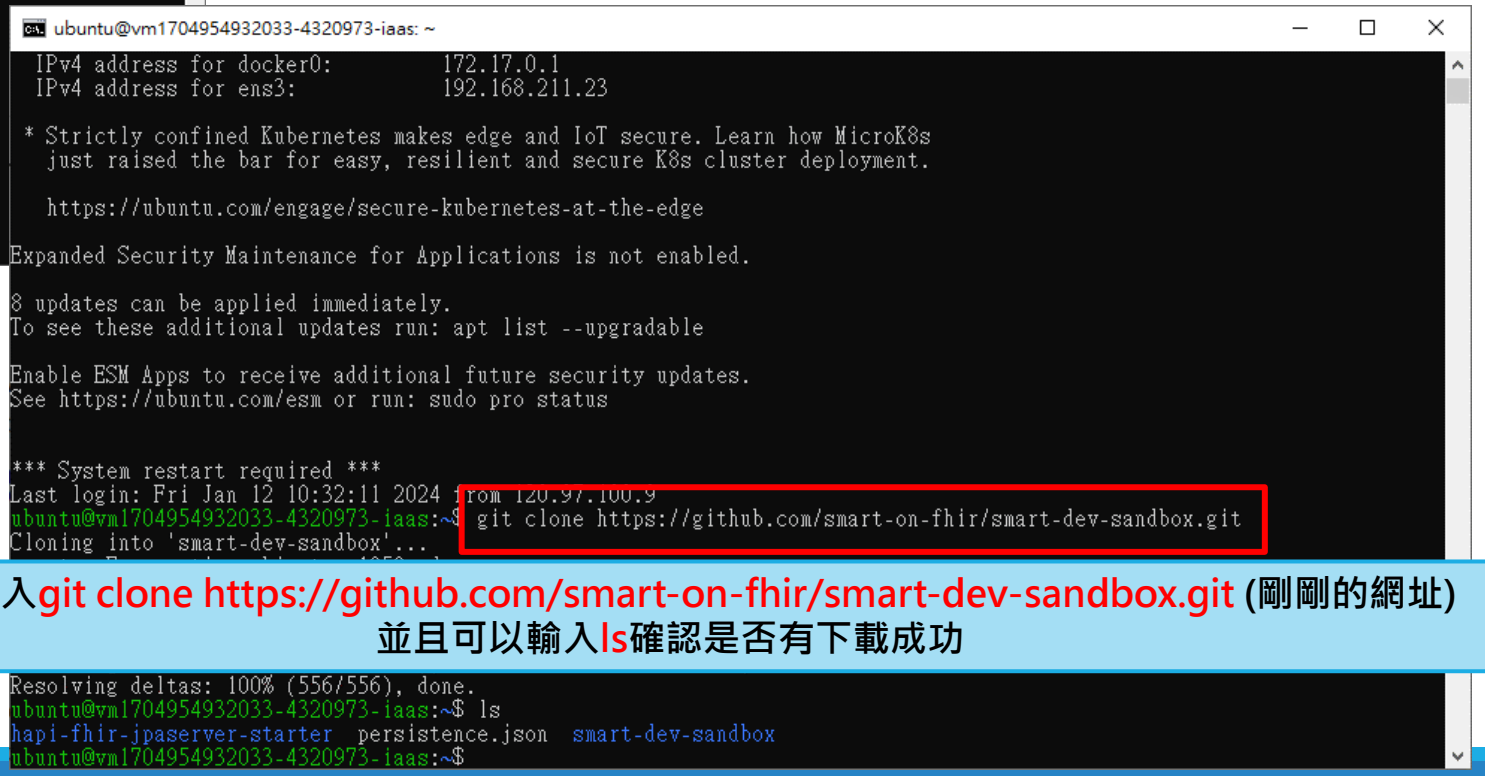
1. 準備一台Linux環境的電腦(或虛擬機)



2. 安裝SmartonFHIR Server



2-1. 輸入 sudo snap install docker



2-2. 輸入git clone https://github.com/smart-on-fhir/smart-dev-sandbox.git (剛剛的網址)
並且可以輸入ls確認是否有下載成功

2. 安裝SmartonFHIR Server

```
ubuntu@vm1704954932033-4320973-iaas:~$ git clone https://github.com/smart-on-fhir/smart-dev-sandbox.git
Cloning into 'smart-dev-sandbox'...
remote: Enumerating objects: 1058, done.
remote: Counting objects: 100% (146/146), done.
remote: Compressing objects: 100% (80/80), done.
remote: Total 1058 (delta 80), reused 115 (delta 63), pack-reused 912
Receiving objects: 100% (1058/1058), 150.36 MiB | 24.24 MiB/s, done.
Resolving deltas: 100% (556/556), done.
ubuntu@vm1704954932033-4320973-iaas:~$ ls
hapi-fhir-jpaserver-starter  persistence.json  smart-dev-sandbox
ubuntu@vm1704954932033-4320973-iaas:~$ cd smart-dev-sandbox
ubuntu@vm1704954932033-4320973-iaas:~/smart-dev-sandbox$
```

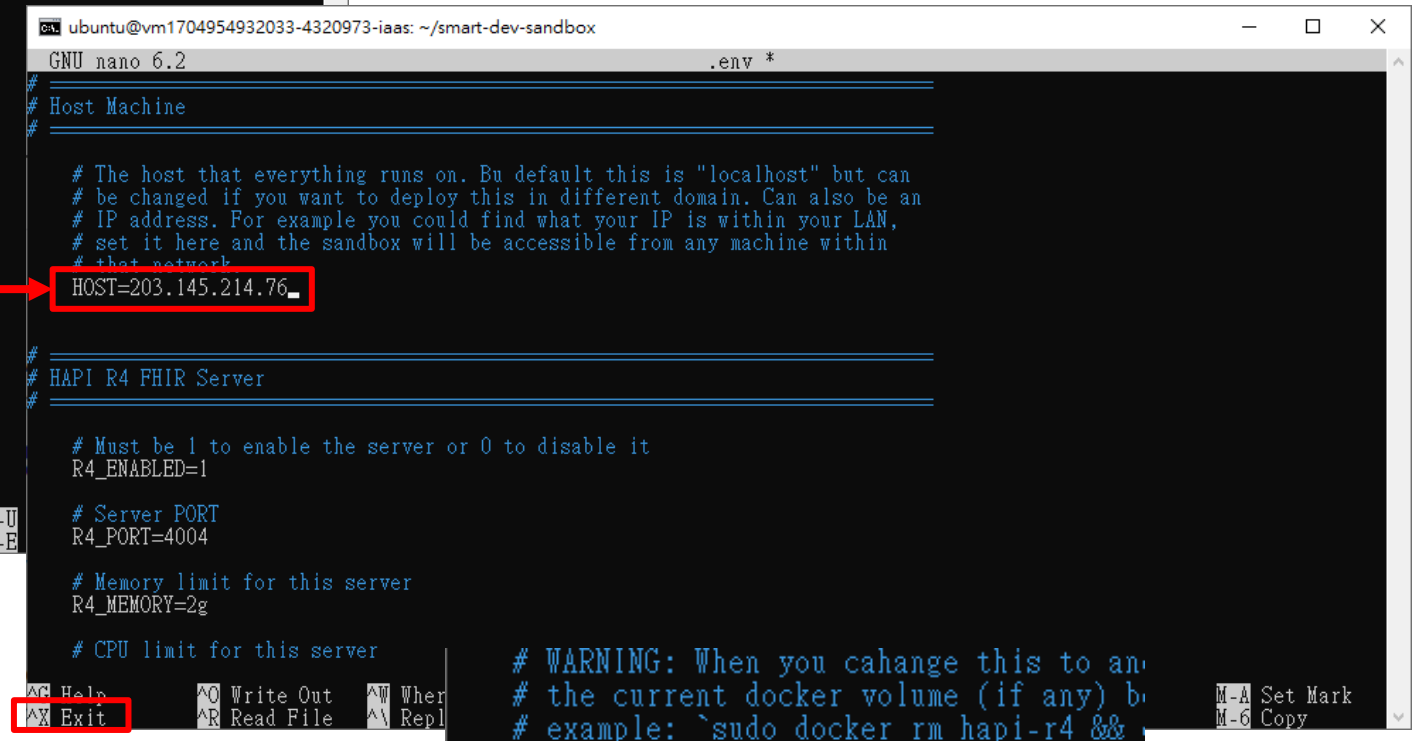
2-3. 輸入cd smart-dev-sandbox 進入剛剛下載的資料夾中

```
ubuntu@vm1704954932033-4320973-iaas:~$ cd smart-dev-sandbox
ubuntu@vm1704954932033-4320973-iaas:~/smart-dev-sandbox$ ls
docker-compose.yml  LICENSE  patient-browser  README.md  screenshot.png  www
ubuntu@vm1704954932033-4320973-iaas:~/smart-dev-sandbox$ nano .env
ubuntu@vm1704954932033-4320973-iaas:~/smart-dev-sandbox$ nano .env
```

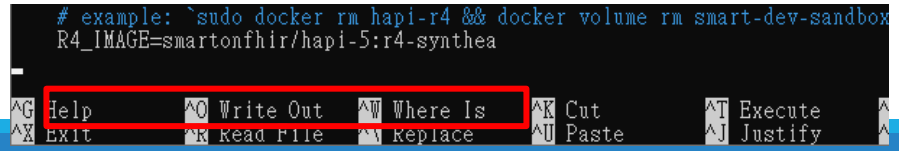
2-4. 輸入nano .env 修改設定

2. 安裝SmartonFHIR Server

2-5. 將localhost改成你的IP

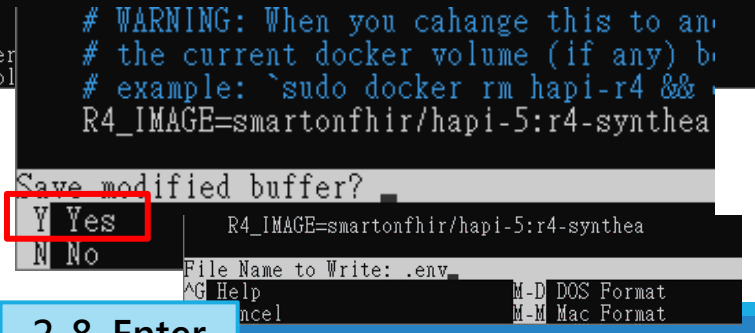


2-5-1. 如果要把資料庫清空，可以往下滑，把
R4_IMAGE=smartonfhir/hapi-5:r4-synthea
改成
R4_IMAGE=smartonfhir/hapi-5:r4-empty



2-6. 要存檔可以先ctrl+X.

2-7. Y



2-8. Enter

2. 安裝SmartonFHIR Server

```
docker-compose.yml  LICENSE  patient-browser  README.md  screenshot.png  www
ubuntu@vm1704954932033-4320973-iaas:~/smart-dev-sandbox$ nano docker-compose.yml
ubuntu@vm1704954932033-4320973-iaas:~/smart-dev-sandbox$
```

2-9. nano docker-compose.yml 修改檔案

ubuntu@vm1704954932033-4320973-iaas: ~/smart-dev-sandbox

GNU nano 6.2 docker-compose.yml

```
fhir-viewer: # ------------------------------------------------------------
  container_name: fhir-viewer
  image: smartonfhir/fhir-viewer
  scale: $FHIR_VIEWER_ENABLED
  ports:
    - "${FHIR_VIEWER_PORT}:80"

patient-browser: # --------------------------------------------------------
  container_name: patient-browser
  image: smartonfhir/patient-browser:latest
  volumes:
    - ./patient-browser:/usr/share/nginx/html/config
  environment:
    HOST            : "${HOST}"
    FHIR_VIEWER_PORT: "${FHIR_VIEWER_PORT}"
    R2_PORT         : "${R2_PORT}"
    R3_PORT         : "${R3_PORT}"
    R4_PORT         : "${R4_PORT}"
  ports:
    - $PATIENT_BROWSER_PORT:80
  command: ["sh", "-c", "
    envsubst < /usr/share/nginx/html/config/r2.tpl > \/usr/share/nginx/html/config/r2-local.json5 &&
    envsubst < /usr/share/nginx/html/config/r3.tpl > \/usr/share/nginx/html/config/r3-local.json5 &&
    envsubst < /usr/share/nginx/html/config/r4.tpl > \/usr/share/nginx/html/config/r4-local.json5 &&
    nginx -g 'daemon off;'"]
  scale: $PATIENT_BROWSER_ENABLED
```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy

2-10. 往下滑找到這裡，把\刪除

3-4320973-iaas: ~/smart-dev-sandbox

docker-compose.yml *

```
---------------------------------------------------------
r-viewer
fhir-viewer
_ENABLED

PORT}:80"

---------------------------------------------------------
ient-browser
patient-browser:latest

er:/usr/share/nginx/html/config

  "${HOST}"
  "${FHIR_VIEWER_PORT}"
  R2_PORT         : "${R2_PORT}"
  R3_PORT         : "${R3_PORT}"
  R4_PORT         : "${R4_PORT}"
ports:
  - $PATIENT_BROWSER_PORT:80
command: ["sh", "-c", "
  envsubst < /usr/share/nginx/html/config/r2.tpl > /usr/share/nginx/html/config/r2-local.json5 &&
  envsubst < /usr/share/nginx/html/config/r3.tpl > /usr/share/nginx/html/config/r3-local.json5 &&
  envsubst < /usr/share/nginx/html/config/r4.tpl > /usr/share/nginx/html/config/r4-local.json5 &&
  nginx -g 'daemon off;'"]
scale: $PATIENT_BROWSER_ENABLED
```

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy

2. 安裝SmartonFHIR Server

ubuntu@vm1704954932033-4320973-iaas: ~/smart-dev-sandbox

```
 GNU nano 6.2                                    docker-compose.yml *
    envsubst < /usr/share/nginx/html/config/r3.tpl > /usr/share/nginx/html/config/r3-local.json5 &&
    envsubst < /usr/share/nginx/html/config/r4.tpl > /usr/share/nginx/html/config/r4-local.json5 &&
    nginx -g 'daemon off;'"]
  scale: $PATIENT_BROWSER_ENABLED

index: # ------------------------------------------------------------------
  container_name: home-page
  image: nginx:alpine
  volumes:
    - ./www:/usr/share/nginx/html
  ports:
    - $CONTROL_PANEL_PORT:80
  environment:
    HOST                  : "${HOST}"
    R2_PORT               : "${R2_PORT}"
    R4_PORT               : "${R4_PORT}"
    R3_PORT               : "${R3_PORT}"
    R4_PORT               : "${R4_PORT}"
    PATIENT_BROWSER_PORT  : "${PATIENT_BROWSER_PORT}"
    FHIR_VIEWER_PORT      : "${FHIR_VIEWER_PORT}"
    LAUNCHER_PORT         : "${LAUNCHER_PORT}"
    R2_ENABLED            : "${R2_ENABLED}"
    R3_ENABLED            : "${R3_ENABLED}"
    R4_ENABLED            : "${R4_ENABLED}"
    PATIENT_BROWSER_ENABLED: "${PATIENT_BROWSER_ENABLED}"
    FHIR_VIEWER_ENABLED   : "${FHIR_VIEWER_ENABLED}"

^G Help      ^O Write Out  ^W Where Is   ^K Cut       ^T Execute   ^C Location  M-U Undo
^X Exit      ^R Read File  ^\ Replace    ^U Paste     ^J Justify   ^/ Go To Line M-E Redo
```

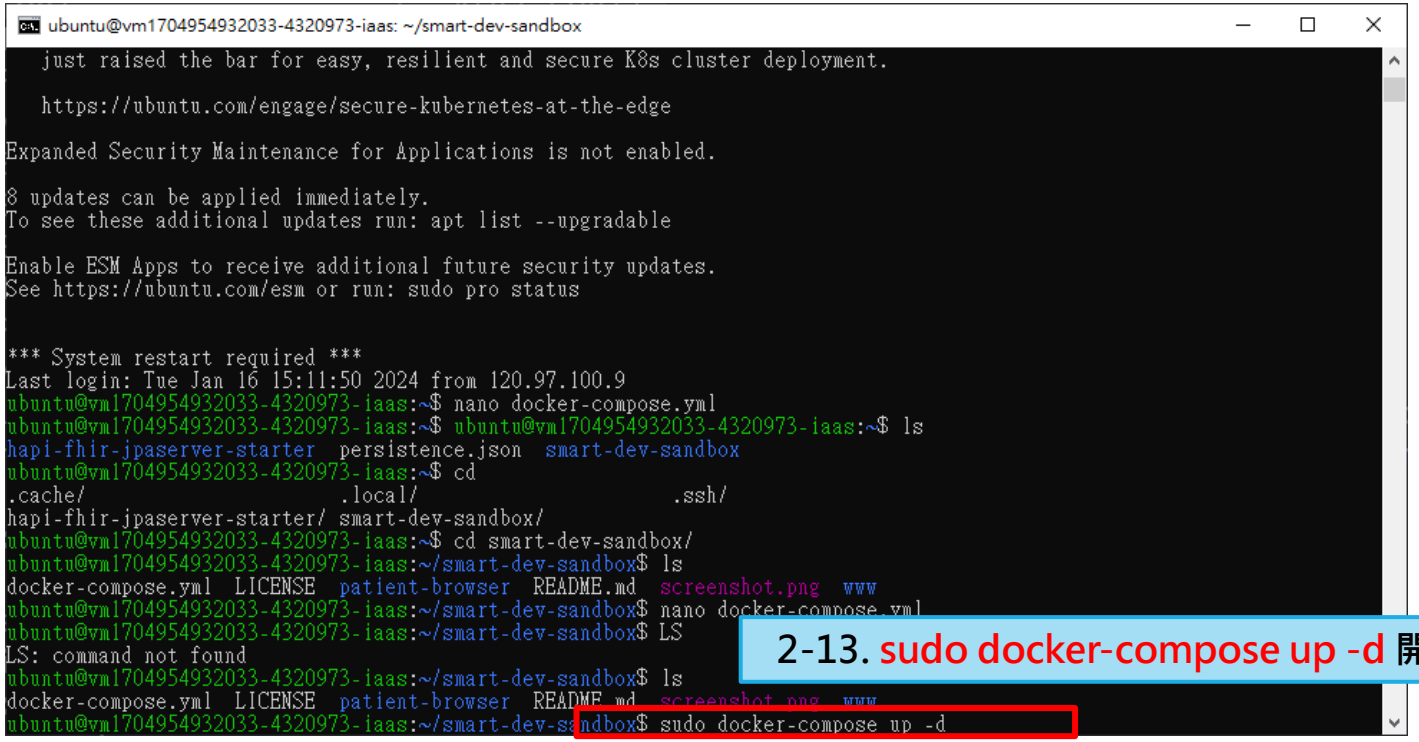
2-11. 多一行R4_PORT　　：“${R4_PORT}” 把它整行刪除

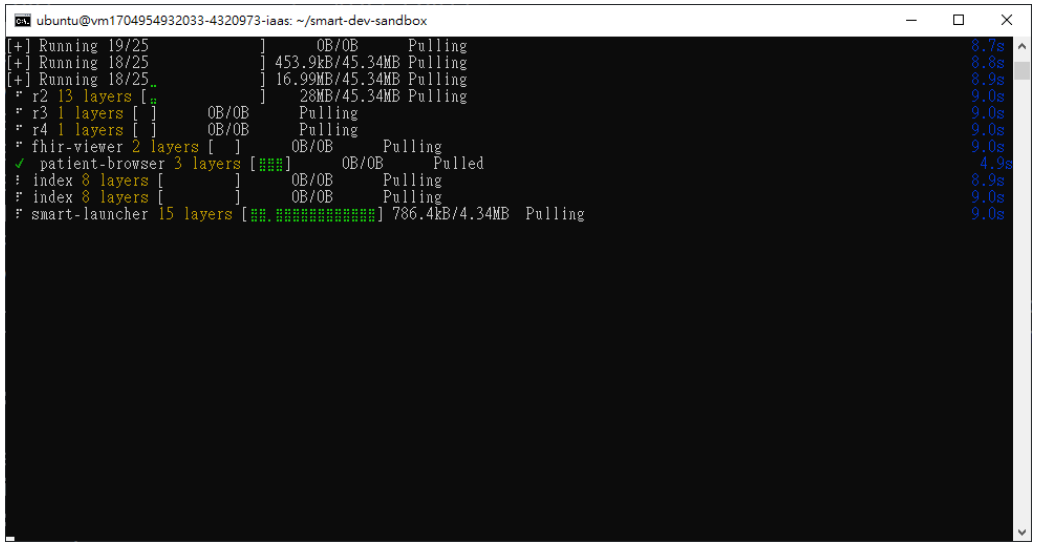
ubuntu@vm1704954932033-4320973-iaas: ~/smart-dev-sandbox

```
 GNU nano 6.2                                    docker-compose.yml *
    envsubst < /usr/share/nginx/html/config/r3.tpl > /usr/share/nginx/html/config/r3-local.json5 &&
    envsubst < /usr/share/nginx/html/config/r4.tpl > /usr/share/nginx/html/config/r4-local.json5 &&
    nginx -g 'daemon off;'"]
  scale: $PATIENT_BROWSER_ENABLED

index: # ------------------------------------------------------------------
  container_name: home-page
  image: nginx:alpine
  volumes:
    - ./www:/usr/share/nginx/html
  ports:
    - $CONTROL_PANEL_PORT:80
  environment:
    HOST                  : "${HOST}"
    R2_PORT               : "${R2_PORT}"
    R3_PORT               : "${R3_PORT}"
    R4_PORT               : "${R4_PORT}"
    PATIENT_BROWSER_PORT  : "${PATIENT_BROWSER_PORT}"
    FHIR_VIEWER_PORT      : "${FHIR_VIEWER_PORT}"
    LAUNCHER_PORT         : "${LAUNCHER_PORT}"
    R2_ENABLED            : "${R2_ENABLED}"
    R3_ENABLED            : "${R3_ENABLED}"
    R4_ENABLED            : "${R4_ENABLED}"
    PATIENT_BROWSER_ENABLED: "${PATIENT_BROWSER_ENABLED}"
    FHIR_VIEWER_ENABLED   : "${FHIR_VIEWER_ENABLED}"
    LAUNCHER_ENABLED      : "${LAUNCHER_ENABLED}"

^G Help      ^O Write Out  ^W Where Is   ^K Cut       ^T Execute   ^C Location  M-U Undo    M-A Set Mark
^X Exit      ^R Read File  ^\ Replace    ^U Paste     ^J Justify   ^/ Go To Line M-E Redo    M-6 Copy
```

2-12. 儲存方法如步驟2-6.至2-8.

2. 安裝SmartonFHIR Server





2-13. sudo docker-compose up -d 開始執行伺服器

3. 檢查是否安裝成功

可以去瀏覽器查看是否架設成功
http://203.145.214.76:4000/