Dockerfile mariadb + SSL

dockerfile

Dockerfile

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```
FROM mariadb:latest

ADD --chown=mysql:root ./data/certs/server-key.pem /etc/mysql/certs/server.key
ADD ./data/certs/server-cert.pem /etc/mysql/certs/server.crt
ADD ./data/certs/ca-cert.pem /etc/mysql/certs/CA.crt
ADD ./data/certs/ssl.cnf /etc/mysql/conf.d/ssl.cnf
```

```
docker build --tag mariadb:ssl .
```

certificados

```
mkdir -p data/db
mkdir -p data/certs
cd data/certs
# CA key
openssl genrsa 2048 > ca-key.pem
openssl req -new -x509 -nodes -days 3600 -key ca-key.pem -out ca-cert.pem
# server key
openssl req -newkey rsa:2048 -days 3600 -nodes -keyout server-key.pem -out server-
req.pem
openssl rsa -in server-key.pem -out server-key.pem
openssl x509 -req -in server-req.pem -days 3600 -CA ca-cert.pem -CAkey ca-key.pem -
set_serial 01 -out server-cert.pem
# client key
openssl req -newkey rsa:2048 -days 3600 -nodes -keyout client-key.pem -out client-
req.pem
openssl rsa -in client-key.pem -out client-key.pem
openssl x509 -req -in client-req.pem -days 3600 -CA ca-cert.pem -CAkey ca-key.pem -
set_serial 01 -out client-cert.pem
# check key ok
openssl verify -CAfile ca-cert.pem server-cert.pem client-cert.pem
```

-config

fichero de configuración para pasar los parámetros a los **req**

- `openssl req -new -key self-ssl.key -out self-ssl.csr -config csr.conf`

- csr.conf

```
[req]
default_bits = 2048
distinguished_name = dn
prompt             = no

[dn]
C="TW"
ST="Taiwan"
L="Taipei"
O="YIDAS"
OU="Service"
emailAddress="yourmail@mail.com"
CN="yourdomain.com"

[req_ext]
subjectAltName = @alt_names

[alt_names]
DNS.0 = *.yourdomain.com
DNS.1 = *.dev.yourdomain.com
```

    - importante que el CN (Common Name) sea distinto en los diferentes **req**
- /via: https://gist.github.com/yidas/af42d2952d85c0951c1722fcd68716c6

ejecución

```
docker run -it --name mariadb -p 3306:3306 -v ${PWD}data/db:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=admin mariadbssl
```

```
docker run -it --name mariadb -p 3306:3306 -v /var/lib/mysql:/var/lib/mysql -v /etc/newcerts:/etc/newcerts -e MYSQL_DATABASE=DB -e MYSQL_USER=user -e MYSQL_PASSWORD=userpass -e MYSQL_ROOT_PASSWORD=admin mariadb:ssl
```

más información: https://hub.docker.com/_/mariadb

SQL tips

- `mysql --host=127.0.0.1 -u root -padmin`
- `GRANT ALL ON *.* TO 'cross'@'192.168.0.17' IDENTIFIED BY '123456'  require ssl;`
- `mysql --host=127.0.0.1 -u cross -p123456 --ssl-ca=data/certs/ca-cert.pem --ssl-cert=data/certs/client-cert.pem --ssl-key=data/certs/client-key.pem -e 'status'`

/based: https://github.com/chio-nzgft/docker-MariaDB-with-SSL

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