Linux: mininet-2.2.1-150420-ubuntu-14.04-server

HTTP server: Apache2

mysql v: 5.5.62

secure mysql installation with $sudo /usr/bin/mysql\_secure\_installation command

PHP V: 5.5.9

Unit test: PHP Unit 4

ORM: RedBeanPHP 5.5

First I took some time to setup the server.

I got as webserver my good old mininet virtual machine, based on ubuntu 14, used once for openflow SDN studies and experiments.

I decided to use this as my server to gain some time setting up the scenario.

Apache 2 was already installed.

PHP 5.5 already installed

So, install mysql server and, secure it.

install PHP Unit 4 (for PHP 5.5)

install redBeanPHP 5.5 (compatible with PHP 5.5)

Install PHP PDO

./Seedbox : contains the main PHP file (index.php)

./Seedbox/src : contains the classes

./Seedbox/test : contaisn the tests

./Seedbox/database : contains the MySQL project dump

./Seedbox/ssl : contains the server's cert, key and ca

to secure the connection between the client and the mysql server:

# openssl genrsa -des3 -out server.key 2048

# openssl req -new -key server.key -out server.csr

# openssl x509 -req -days 730 -in server.csr -signkey server.key -out server.cert

# openssl rsa -in server.key -out server.key

edit mysql my.cnf on server side and add:

ssl-ca=/etc/ssl/mysql/server.csr

ssl-cert=/etc/ssl/mysql/server.cert

ssl-key=/etc/ssl/mysql/server.key

Create client's files:

# openssl req -new -key server.key -out client.csr

# openssl x509 -req -days 730 -in client.csr -signkey server.key -out client.cert

Copy server.key, client.csr, and client.cert to the client machine (/etc/ssl/myslq).

Alter the client's my.cnf. :

[client]

ssl-ca=/etc/ssl/mysql/cleint.csr

ssl-cert=/etc/ssl/mysql/client.cert

ssl-key=/etc/ssl/mysql/server.key