

2017 juni examen

Theorie

- 8 moeilijke doordenk multiple choice vragen (met meerdere mogelijke juiste antwoorden, en je moet ze allemaal juist hebben)
- DNS query response gegeven van alle servers waarlangs de DNS query gaat. Leg uit met schema wat er gebeurt, wanneer wie welke responses geeft, welke queries iteratief/recursief zijn.
- Waarom wordt er bij SSL/TCL zowel symmetrische als asymmetrische encryptie gebruikt? Leg uit met een schema van SSL en zeg waar welke gebruikt wordt (toy of echte SSL)

Praktijk

Praktijkexamen 22/05/2017

- Give a list of all words with 14, 15 or 16 unique letters. The output format should look like this:

Words with 14 letters: word1 word2 word3

Words with 15 letters: word4 word5

...

```
for n in 14 15 16; do echo "Words with $n letters:" $(grep -P "^.{$n}$" dutch | grep -vP '(.).*\1'); done
```

- Give a list of the usernames tried in ftp_bruteforce.pcap. You can only use tshark and sort (Step by step solution: https://wiki.ucll-labs.be/index.php/TShark_Tutorial#Exercises)

```
tshark -r ftp_bruteforce.pcap -Y 'ftp.request.command == USER' -T fields -e 'ftp.request.arg' | sort -u
```

- Give the current time (format: Time= hh:mm:ss (dd-mm-yyyy))

```
echo 'Time=' $(date +%T (%x)) | tr / -
```

- Write a oneliner to decode the following file "secret" (contents:
RGUgcHVudGVuIG9wIGRlemUgdnJhYWcgemlqbiBhbCBiaW5uZW4uCg==)

The file ends with '==' indicating base64 padding: `openssl enc -d -base64 < secret`

- Write a oneliner to display the fingerprint, serial and public key of `wiki.ucllabs.be`

```
echo | openssl s_client -connect wiki.ucllabs.be:443 2>/dev/null | openssl x509 -fingerprint -serial -pubkey -noout
```

Praktijkexamen 24/05/2017

- There is a website running - <https://darthvader.ucllabs.be/nw2/lab1> - which is only accessible from 193.191.177.1. That is the IP address of `leia.ucllabs.be`. Create an ssh tunnel between server `leia` and the webserver `darthvader`

```
ssh -L 10000:darthvader.ucllabs.be:443 user@leia.ucllabs.be -p 22345
```

- Give a list of words with 5 letters that are also palindromes.

```
grep -P '^(.)(.)\2\1$' dutch
```

- Show the file `/etc/debconf.conf` on screen without comment lines (i.e. lines starting with a `#`).

```
grep -vP '^#' /etc/debconf.conf
```

- Give a list of the usernames tried in `ftp_bruteforce.pcap`. You can only use `tshark` and `sort` (Step by step solution: https://wiki.ucllabs.be/index.php/TShark_Tutorial#Exercises)

```
tshark -r ftp_bruteforce.pcap -Y 'ftp.request.command == USER' -T fields -e 'ftp.request.arg' | sort -u
```

- Write a oneliner to display the fingerprint, serial and public key of `wiki.ucllabs.be`

```
echo | openssl s_client -connect wiki.ucllabs.be:443 2>/dev/null | openssl x509 -fingerprint -serial -pubkey
```

Revision #1

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