Project2 report

Basically, this project is all about cookie stored in Google (desolver and fqdn).

(a) (b)

Figure 1 (a)fqdn (b)dns resolver

Next, I use “dig –t CERT fqdn @resolver” to send a query package via my virtual machine and obtain a response. The public key in the response is the target of this project. Figure 2 is the result of dig.

Figure 2

The green part is the header and the red part is the response. Therefore, I have to create a package identical to the header format.

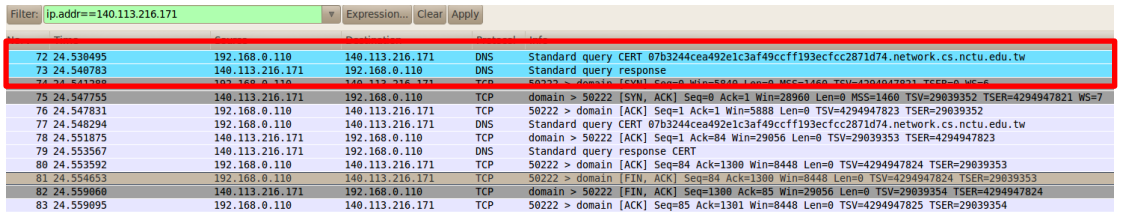


Figure 3

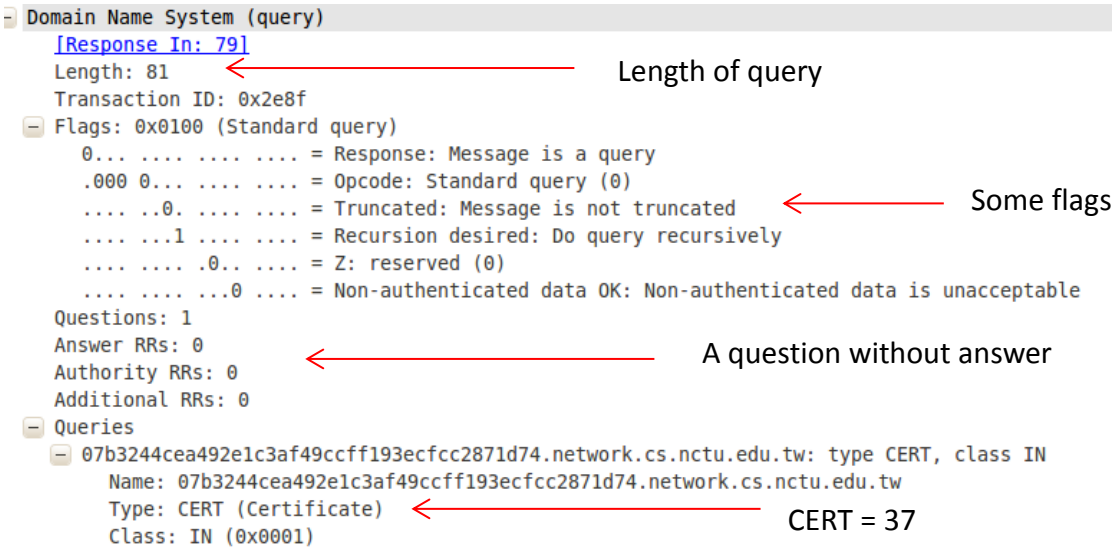
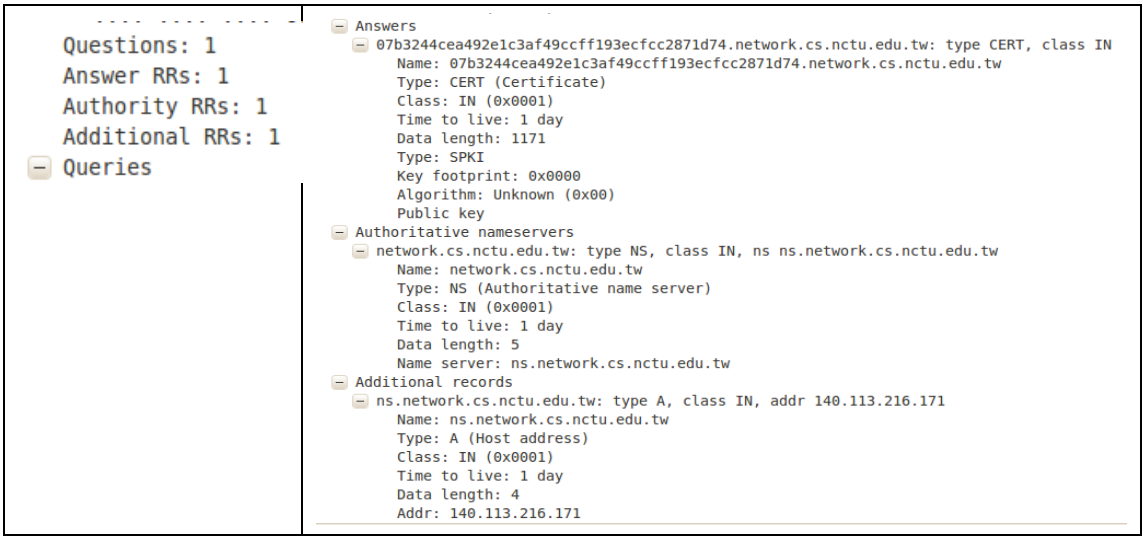


Figure 4

Figure 3 and 4 are the content of the query package analyzed using Wireshark. From the figure 3(red part), since the response will be truncated if dig is sent using UDP, TCP is considered as the final version. TCP will further send the information of query length. The final result is identical to the results observed on Wireshark.



The final is to analyze the response, which contains a question (query), an answer, an authority RR, an additional RR. The common parts in answer, authority RR, additional

RR are the name, type, class, ttl, data length. Public key also appears in the answer section.