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Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic.

Question 1: What was the exact time at which _gid cookie for coursera.org was added (Provide answer in DD-MM-YYYY HH:MM:SS GMT)?

Answer: 18-10-2018 2:46:20 PM GMT

Solution:

We have to query cookie table in Cookie database. Check the schema of the database.

Command: .schema cookie

sqlite> .schema cookies

CREATE TABLE cookies (creation_utc INTEGER NOT NULL,host_key TEXT NOT NULL,name TEXT NOT NULL,value TEXT NOT NULL,path TEXT NOT NULL,expires_utc

INTEGER NOT NULL,is_becure INTEGER NOT NULL,is_httponly INTEGER NOT NULL,last_access_utc INTEGER NOT NULL, has_expires INTEGER NOT NULL DEFAULT

1, is_persistent INTEGER NOT NULL DEFAULT 1,priority INTEGER NOT NULL DEFAULT 1,encrypted_value BLOB DEFAULT '',firstpartyonly INTEGER NOT NULL

DEFAULT 0,UNIQUE (host_key, name, path));

sqlite>

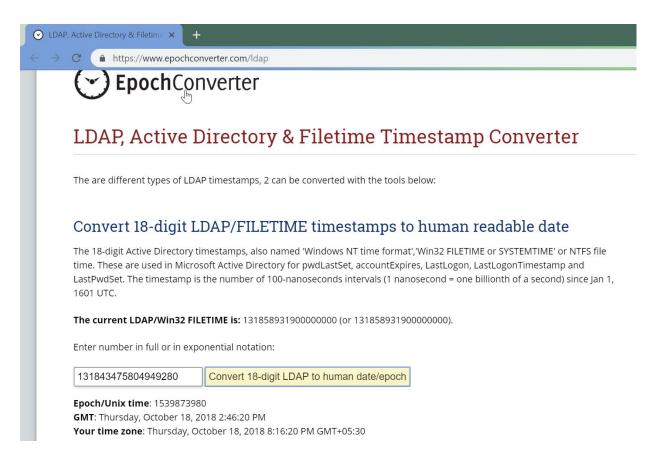
Command: select creation_utc, host_key, name, value from cookies where host_key=".coursera.org" and name="_ga";

sqlite> select creation_utc, host_key, name , value from cookies where host_key=".coursera.org" and name="_ga";
13184347580493658|.coursera.org|_ga|
sqlite>
sqlite>

13184347580494928

This value is seconds from epoch (1 Jan 1601). But, as it is only of 17 digits, so add a 0 to make it 18 digits long). Then, use an online converter to convert it to standard date format.

Converter: https://www.epochconverter.com/ldap



Question 2: What is expiry time for "fr" cookie for facebook.com (Provide answer in DD-MM-YYYY HH:MM:SS GMT)?

Answer: 16-01-2019 2:46:29 PM GMT



Solution:

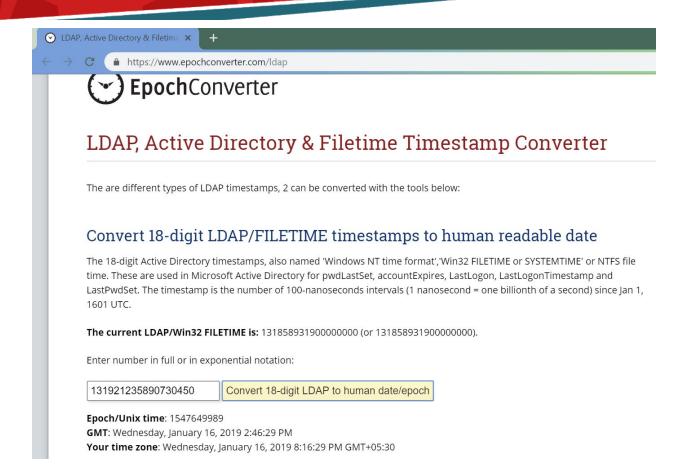
Command: select expires_utc, host_key, name, value from cookies where host_key=".facebook.com" and name="fr";

sqlite> select expires_utc, host_key, name , value from cookies where host_key=".facebook.com" and name="fr";
13192123589073045|.facebook.com|fr|
sqlite>

13192123589073045

This value is seconds from epoch (1 Jan 1601). But, as it is only of 17 digits, so add a 0 to make it 18 digits long). Then, use an online converter to convert it to standard date format.

Converter: https://www.epochconverter.com/ldap



Question 3: How many cookies will be valid on 01-01-2019 12:00:00 AM GMT?

Answer: 1

Solution:

Convert 01-01-2019 12:00:00 AM GMT to seconds from epoch (1 Jan 1601) and drop last digit.

Command: select host_key from cookies where expires_utc>131907744000000000;

sqlite> select host_key from cookies where expires_utc>131907744000000000;
.www.kayak.com
sqlite>