
ATTACK
DEFENSE
by PentesterAcademy

Name	Chrome: Bookmarks
URL	https://www.attackdefense.com/challengedetails?cid=170
Type	Forensics : Browser

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: How many bookmarks are there in chrome (default and user added)?

Answer: 2

Solution:

This information is present in Bookmarks JSON file.

Command: cat Bookmarks

```
"bookmark_bar": {
   "children": [ {
      "date_added": "13184347503625749",
      "id": "5",
      "meta_info": {
         "last_visited_desktop": "13184348008583968"
      },
      "name": "Online shopping",
      "type": "url",
      "url": "https://www.amazon.com/"
   }, {
      "date_added": "13184347977294979",
      "id": "6",
      "meta_info": {
         "last_visited_desktop": "13184347977295492"
      },
      "name": "The New York Times - Breaking News, World News & Multimedia",
      "type": "url",
      "url": "https://www.nytimes.com/"
   } ],
```


Observe that there are two entries.

Question 2: Which e-commerce company is bookmarked by the target user?

Answer: Amazon

Solution:

This information is present in Bookmarks JSON file.

Command: cat Bookmarks

```
"bookmark_bar": {
   "children": [ {
      "date_added": "13184347503625749",
      "id": "5",
      "meta_info": {
         "last_visited_desktop": "13184348008583968"
      },
      "name": "Online shopping",
      "type": "url",
      "url": "https://www.amazon.com/"
   }, {
      "date_added": "13184347977294979",
      "id": "6",
      "meta_info": {
         "last_visited_desktop": "13184347977295492"
      },
      "name": "The New York Times - Breaking News, World News & Multimedia",
      "type": "url",
      "url": "https://www.nytimes.com/"
   } ],
```


Amazon is bookmarked.

Question 3: When was the entry for a NYtimes was added (Provide answer in DD-MM-YYYY HH:MM:SS GMT)?

Answer: 18-10-2018 2:52:57 PM GMT

Solution:

This information is present in Bookmarks JSON file.

Command: cat Bookmarks

Value mentioned in date_added field of NYtimes JSON record is 13184347977294979.

```
"bookmark_bar": {
   "children": [ {
      "date_added": "13184347503625749",
      "id": "5",
      "meta_info": {
         "last_visited_desktop": "13184348008583968"
      },
      "name": "Online shopping",
      "type": "url",
      "url": "https://www.amazon.com/"
   }, {
      "date_added": "13184347977294979",
      "id": "6",
      "meta_info": {
         "last_visited_desktop": "13184347977295492"
      },
      "name": "The New York Times - Breaking News, World News & Multimedia",
      "type": "url",
      "url": "https://www.nytimes.com/"
   } ],
```


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