Weak Password

CSAW 2021 CTF

OreoByte

Weak Password 50

Can you crack Aaron's password hash? He seems to like simple passwords. I'm sure he'll use his name and birthday in it. Hint: Aaron writes important dates as YYYYMMDD rather than YYYY-MM-DD or any other special character separator. Once you crack the password, prepend it with flag{ and append it with } to submit the flag with our standard format. Hash:

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Weak Password

Writeup by: OreoByte

Team: OnlyFeet

Writeup URL: GitHub

```
1 Can you crack 'Aarons password hash? He seems to like simple passwords.

'Im sure 'hell use his name and birthday in it. Hint: Aaron writes important dates as YYYYMMDD rather than YYYY-MM-DD or any other special character separator. Once you crack the password, prepend it with flag{ and append it with } to submit the flag with our standard format. Hash: 7f4986da7d7b52fa81f98278e6ec9dcb.
```

Scripting it Out with ■ and Bash

First we create the dates part of the wordlist with a \(\text{S script}. \) Then use some bash and sed-foo to further modify the dates file mdy with name and special characters.

```
#!/usr/bin/python3
# month/day/year
from datetime import date, timedelta

date = date(1900,1,1)
edate = date(2022,1,1)
delta = edate -sdate

for i in range(delta.days + 1):
day = sdate + timedelta(days=i)
#print(day.month,day.day,day.year)
print(''.join([str(day.year), str(day.month), str(day.day)]))
```

```
python solve.py > mdy

#!/bin/bash
sed -e 's/^/Aaron/' mdy > cap_user_date
sed -e 's/^/aaron/' mdy >> cap_user_date
sed -e 's/$/aaron/' mdy >> cap_user_date
sed -e 's/$/Aaron/' mdy >> cap_user_date
sed -e 's/$/Aaron/' mdy >> cap_user_date
sed -e 's/^/Aaron /' mdy >> cap_user_date
sed -e 's/$/Aaron /' mdy >> cap_user_date
sed -e 's/$/Aaron /' mdy >> cap_user_date

# special chars
cp cap_user_date final.lst
```

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```
13 sed -e 's/$/!/' cap_user_date >> final.lst
14 sed -e 's/$/@/' cap_user_date >> final.lst
15 sed -e 's/$/#/' cap_user_date >> final.lst
16 sed -e 's/$/$/' cap_user_date >> final.lst
17 sed -e 's/$/%/' cap_user_date >> final.lst
18 sed -e 's/$/%/' cap_user_date >> final.lst
19 sed -e 's/$/&/' cap_user_date >> final.lst
20 sed -e 's/$/*/' cap_user_date >> final.lst
21 for i in {0..9}; do sed -e 's/$/$i/' cap_user_date >> final.lst; done
```

Let's Get Crackin'

User hashid to identify the hash and then we can crack it with hashcat and the custom wordlist we just previously generated and a Hashcat rule to expand the wordlist a bit.

hashid -m 7f4986da7d7b52fa81f98278e6ec9dcb OR Hash Analyzer

```
1 $ hashcat 7f4986da7d7b52fa81f98278e6ec9dcb final.lst -r
          OneRuleToRuleThemAll.rule
2 $ hashcat 7f4986da7d7b52fa81f98278e6ec9dcb final.lst -r
          OneRuleToRuleThemAll.rule --show
3 7f4986da7d7b52fa81f98278e6ec9dcb:Aaron19800321
```

Victory

Submit the flag and claim the points:

flag{Aaron19800321}

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