

# **Dictionary Attacks**

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## **About Dictionary attacks**

- Dictionary Attacks are a method of using a program to try a list of words on the interface or program that is protecting the area that you want to gain access to.
- It means saving all the possible passwords in a text file, then the password recovery program will look for the password from the text file (dictionary) one by one until it finds the password.

### DICTIONARY ATTACK!







## **Programs that use dictionary attacks**

- John the Ripper
- L0phtCrack
- Cain And Abel
- Aircrack
- Hydra
- Medusa
- Brutus



Wordlist generators

```
O Crunch

NAME

crunch - generate wordlists from a character set

SYNOPSIS

crunch <min-len> <max-len> [<charset string>] [options]

DESCRIPTION
```

Crunch can create a wordlist based on criteria you specify.

▲ Example: create a dictionary with the possible combinations from the word password which will have a length between 3 and 9 characters



- Wordlist generators
- Cewl

```
NAME

Cewl - custom word list generator

SYNOPSIS

Cewl [OPTION] ... URL

DESCRIPTION

CeWL (Custom Word List generator) is a ruby app which spiders a given URL, up to a specified depth,
```

▲ Example: create a dictionary using the words from a givenURL



- Wordlist generators
- O Cupp (apt-get install cup)

```
Cupp - generate dictionaries for attacks from personal data

SYNOPSIS

Cupp [options]

DESCRIPTION

CUPP (Common User Passwords Profiler) is tool to generate wordlist from common user profiler.
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```



- Wordlist generators
- Pydictor (git clone https://github.com/LandGrey/pydictor.git)

```
##### pydictor — A powerful and useful hacker dictionary builder for a brute-force attack
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- Wordlist generators
- O Dymerge (git clone https://github.com/k4m4/dymerge.git)

```
DyMerge
"DyMerge <a href="https://nikolaskama.me/dymergeproject/>", - Dynamic Dictionary Merger">DyMerge <a href="https://nikolaskama.me/dymergeproject/>", - Dynamic Dictionary Merger A simple, yet powerful tool - written purely in python - which takes given wordlists and merges them into one dynamic dictionary that can then be used as ammunition for a successful dictionary based (or buttefore) attack.
```



Wordlist generators

Munchkin (pip install munchkin)

```
########
munchkin
########
Wordlist generator based on password cards
```

- 1) A user named Foo generates a card from passwordcard.org with an initial seed of f08aa69067c73300. He creates two passwords for his Instagram and Gmail accounts, "rfUMK2V" and "Ntdh6K6".
- 2) When Foo takes out his password card to log into Gmail, he gets sloppy and leaves it on his desk while he steps out
- 3) User Bar then downloads Munchkin. He uses it to generate a wordlist.



- Wordlist generators
- Munchkin (pip install munchkin)
- ▲ Example:
- 1) A user named Foo generates a card from passwordcard.org with an initial seed of f08aa69067c73300. He creates two passwords for his Instagram and Gmail accounts, "rfUMK2V" and "xzkNVaw"
- 2) When Foo takes out his password card to log into Gmail, he gets sloppy and leaves it on his desk while he steps out
- 3) User Bar then downloads Munchkin. Bar collects **3852** possible passwords into the Dictionary.txt file and brute-force Foo's Gmail account with Hydra.





### References

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- Pwned Passwords
   https://haveibeenpwned.com/Passwords

