

Manajemen

Password

Kasus!

 Menggunakan program yang namanya Brutefore/dicitionary attack yang akan mencobakan berbagai macam kombinasi password untuk mendapatkan password akun anda...(vaksin.com)

Panjang password 8 karakter			Komputer / Max. Waktu Bruteforce		
Jenis Karakter	karakter	Kombinasi	Pent 100/MS Off.	Dual core	Super komp.
			10.000 ps/dtk	10jut ps/dtk	1milyar ps/dtk
Tanpa kombinasi					
Angka saja	10	100 juta	2,75 jam	10 detik	instan
Huruf kecil / besar saja	26	200 milyar	242 hari	348 menit	3,5 menit
Kombinasi					
Huruf besar + kecil	52	53 triliun	169,5 tahun	62 hari	15 jam
Huruf besar + kecil + angka	62	218 triliun	692 tahun	253 hari	60,5 jam
Huruf besar + kecil + angka + simbol	96	7,2 quadriliun	22.875 tahun	23 tahun	83,5 hari

Kegunaan Password

- Protect (Melindungi)
- Arrange (Mengatur. Ex : hak user)
- Verifikasi (Memastikan. Ex: sengaja)
- Memfilter (Membatasi. Ex : data))



Password, Passphrase, Passcode

- Password: Sandi yang berbentuk sebuah kata yang diperlukan seseorang untuk mengakses data atau sistem
 - Passphrase: Jika sandi terdiri dari lebih dua kata atau lebih. Contoh: budianduk, tahusumedang, satemadura
 - Passcode: Sandi berupa kombinasi dari jumlah karakter dengan angka saja. Contoh: pin banking atau atm

Permutasi $\frac{(n+r-1)!}{r!(n-1)!}$

Selections	Combinations	Permutations
3	220	1,000
6	5,005	1,000,000
7	11,440	10,000,000
8	24,310	100,000,000
9	48,620	1,000,000,000
10	92,378	10,000,000,000
11	167,960	100,000,000,000
12	293,930	1,000,000,000,000
13	497,420	10,000,000,000,000
14	817,190	100,000,000,000,000
15	1,307,504	1,000,000,000,000,000



Character

- Berdasar Jumlah
- **Berdasar Jenis**
- Numbers Digits 0 through 9
- Lowercase letters Lowercase letters from a through z
- Uppercase letters Uppercase letters from A through Z
- Symbols Other punctuation and symbols such as the tilde (~), Three Character Sets: asterisk (*), or equals sign (=).

Character Groups

- Lowercase: abcdefg
- •Uppercase: ABCDEFG
- •Numeric: 0123456789
- •Special: . , ?%\$#@!
- •9 User-Defined and 4 Phonetic

One Character Set:

- applepie
- 6565656

Two Character Sets:

- HappyCamper (uppercase and lowercase)
- notnothing! (lowercase and symbol)

- 677Mustangs (uppercase, lowercase, numbers)
- wrong3@email.com (lowercase, symbols, number)

All Four Character Sets:

- Different-2day
- 4 Broken (shellfish)
- Www2.example.com

Symbol

- Punctuation Punctuation symbols for your language such as the period (.), comma (,), or apostrophe (").
- Keyboard symbols Non-punctuation symbols found on a standard keyboard, such as the tilde (~), backslash (\), or pipe (|).
- Non-keyboard symbols Printable characters that do not appear
 on a standard keyboard and require special key sequences to type,
 such as the copyright symbol (©), the diaeresis ("), or the inverted
 question mark (¿).
- Nonprintable characters Special control characters that do not print but that you can sometimes, rarely, use in passwords. This includes characters such as the backspace, enter, or tab.

Long Password

Keuntungan

- ☐ Mudah diingat
- ☐ Mudah diketik
 - ☐ Terbukti lebih mudah mengetik kalimat
- ☐ Lebih sulit dipecahkan
- Sup3rm@n
- Br9T&o2_
- Bl4CK-hAt
- Y*c77pw\$
- 4W5T1UP



- in a coalmine.
- walnut-flavored
- orange toothpaste
- a hundred pesos



Kemungkinan Tebakan

Table 5.1 To Strengthen a Password, You Can Increase Its Length or Make Use of More Character Sets

Length	Lowercase Only	All Keyboard Characters
3	17,576	857,375
4	456,976	81,450,625
5	11,881,376	7,737,809,375
6	308,915,776	735,091,890,625
7	8,031,810,176	69,833,729,609,375
8	208,827,064,576	6,634,204,312,890,620
9	5,429,503,678,976	630,249,409,724,609,000
10	141,167,095,653,376	59,873,693,923,837,900,000
11	3,670,344,486,987,780	5,688,000,922,764,600,000,000
12	95,428,956,661,682,200	540,360,087,662,637,000,000,000
13	2,481,152,873,203,740,000	51,334,208,327,950,500,000,000,000
14	64,509,974,703,297,200,000	4,876,749,791,155,300,000,000,000,000
15	1,677,259,342,285,730,000,000	463,291,230,159,753,000,000,000,000,000

Cara Membuat Long Password

- Tambah Kata Lain
- Bracketing
- Tambah Numeric

Before	After
Marty29 (seven characters)	Marty29-thumbnail (17 characters)
Shopping (eight characters)	Goin' shopping (14 characters)
4Chewbacca (ten characters)	4Chewbacca—chewy (16 characters)
Broncos (seven characters)	Broncos helmet. (15 characters)

Table 5.3 Bracketing Your Password

Before	After
Starfleet (nine characters)	*Starfleet* (11 characters)
Sugarless (nine characters)	"sugarless" (11 characters)
buyingmoretime (14 characters)	buying(more)time (16 characters)
jamesjames (ten characters)	< <jamesjames>> (14 characters)</jamesjames>
Dawghouse (nine characters)	dawghouse (14 characters)

Before	After
Dolphins (eight characters)	Dolphins #919 (13 characters)
JudgeJudy (nine characters)	JudgeJudy 4:00pm (16 characters)
sphYnx (six characters)	\$4.99 sphYnx (12 characters)
terriers (eight characters)	93033 terriers (14 characters)

Cara Membuat Long Password

- Fun Word
- Repetition
- Prefix Suffix
- Colorizing
- Sentences

3 Salah Membuat Passw

- Login dan Password = SAMA
- Ingatan Umum, ex: Nama, Tgllahir, Idnumber
- Layout Keyboard, = 123, sdf, cxz

Password Terburuk

3 password terburuk: "password," "123456," dan "12345678"

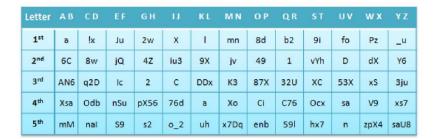
25 password terburuk versi Splashdata.com

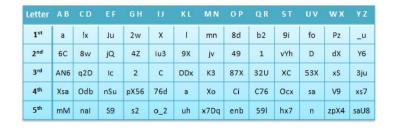
- password (tetap)
 1234567 (turun 6)
 123456 (tetap)
 12345678 (tetap)
 abc123 (naik 1)
 qwerty (turun 1)
 monkey (tetap)
 letmein (naik 1)
 1234567 (turun 6)
 sunshine (naik 1)
 master (turun 1)
 123123 (naik 4)
 welcome (baru masuk daftar)
 shadow (naik 1)
 - dragon (naik 2) 19. ashley (turun 3) 111111 (naik 3) 20. football (naik 5)
- baseball (naik 1)
 jesus (baru masuk daftar)
 iloveyou (naik 2)
 trustno1 (turun 3)
 ninja (baru masuk daftar)
 - 24. mustang (baru masuk daftar)25. password1 (baru masuk daftar)

Tips Membuat Passw

- Min 8 karakter. Atau lebih panjang
- Gabungan dari upper, lowercase characters, numbers, punctuation marks dan special characters.
- It must be meaningless. If a password is hard to remember, it is also hard to guess.
- Periode penggantian. Ex: 2 bulan

Metoda Klasik





 Contoh membuat password untuk akun di www.amazon.com, maka :

1st letter is a - > a (Column 2, Row 1)

2nd letter is m -> jv (Column 7, Row 2)

3rd letter is a -> AN6

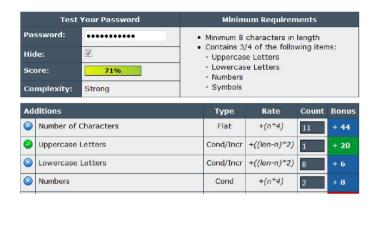
4th letter is z -> xs7

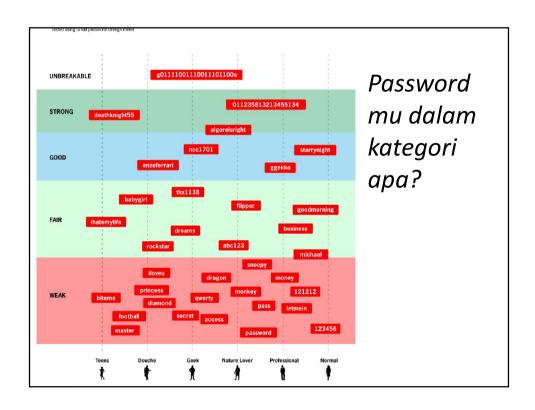
5th letter is o -> enb

• Maka password jadinya : ajvAN6xs7enb.

How Strong is your Password?

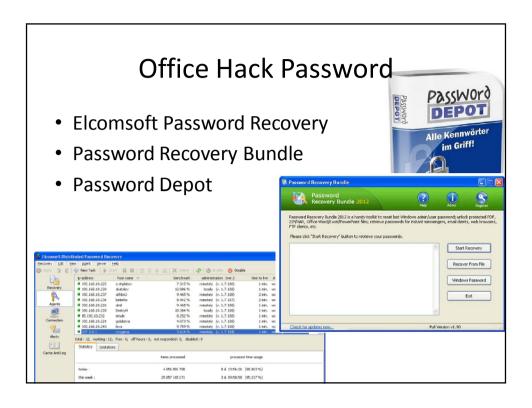
http://www.passwordmeter.com/



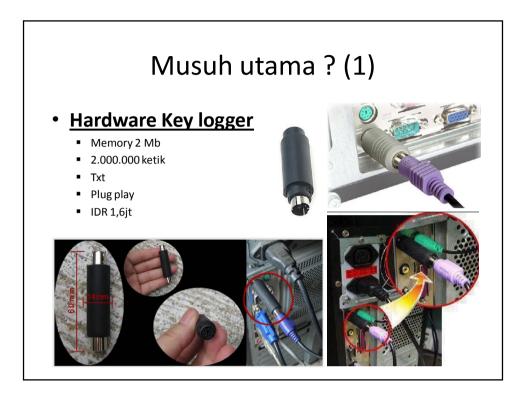








Bagaimana passw anda? Mana yang anda pakai ? √ joko √ JOKO √ joko65 √ Joko65 √ Jok065 √ joK065



Solusinya?

- Remove
- Tidak menggunakan Keyboard Fisik. Tapi Memakai virtual keyboard ex: osk



Musuh utama? (2)

Software Keylogger

- 21. Golden KeyLogger 1.32
- 22. Handy Keylogger 3.24 build 032
- 23. Home Keylogger 1.77
- 24. Inside Keylogger 4.1
- 25. iOpus Starr PC and Internet Monitor 3.23
- 26. iSpyNow v2.0
- 27. KeyScrambler 1.3.2
- 28. Keystroke Spy 1.10
- 29. KGB Keylogger 4.2
- 30. KGB Spy 3.84
- 31. LastBit Absolute Key Logger 2.5.283
- 32. Metakodix Stealth Keylogger 1.1.0
- 33. Network Event Viewer v6.0.0.42
- 34. OverSpy v2.5
- 35. PC Activity Monitor Professional 7.6.3
- 36. PC Spy Keylogger 2.3 build 0313
- 37. PC Weasel 2.5
- 38. Personal PC Spy v1.9.5
- 39. Power Spy 6.10
- 40. Powered Keylogger v2.2.1.1920

- 1. 007 Keylogger Spy Software 3.873
- 2. Active Key Logger 2.4
- 3. Activity Keylogger 1.80.21
- 4. Activity Logger 3.7.2132
- 5. ActMon Computer Monitoring 5.20
- 6. Actual Spy 2.8
- 7. Advanced Invisible Keylogger v1.9
- 8. Advanced Keylogger 1.8
- 9. Ardamax Keylogger 2.9
- 10. BlazingTools Perfect Keylogger 1.68
- 11. Blazingtools Remote Logger v2.3
- 12. Data Doctor KeyLogger Advance v3.0.1.5
- 13. Local Keylogger Pro 3.1
- 14. ExploreAnywhere Keylogger Pro 1.7.8
- 15. Family Cyber Alert 4.06
- 16. Family Keylogger 2.80
- 17. Firewall bypass Keylogger 1.5
- 18. Free Keylogger 2.53
- 19. Ghost Keylogger 3.80
- 20. Golden Eye 4.5

AntiLogger (Freeware)

KeyScrambler Personal

http://www.gfxsoftware.com/Download.htm

I Hate Keyloggers

http://dewasoft.com/privacy/i-hate-keyloggers.htm#download

PSMAntiKeyLogger

http://sourceforge.net/projects/psmantikeyloger/files/

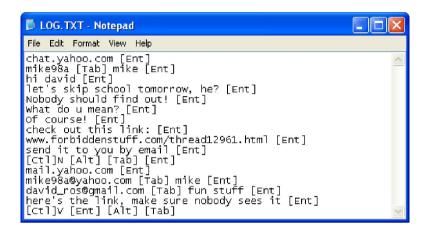
SnoopFree Privacy Shield

http://www.snoopfree.com/PrivacyShield.htm

MyPlanetSoft Anti-Keylogger

http://www.myplanetsoft.com/free/antikeylog.php

Hasil File Logger



Pada prinsipnya **Tidak Ada password** yang <u>tidak bisa</u>
ditebak, jadi serumit apapun
password yang kamu buat, jika
dilakukan pencobaan atas segala
kombinasi 'suatu saat' <u>pasti</u> akan
bisa tertebak.

