Hashing
one way
data - Chash - has h
data - (hash protein) (pixed rive)
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the large corlect by the hole of my told
this howher are orcaled by the help of vainbour table.
Entains hashes which watches to data before hashed
Tools:
mostly upd is
* fasheat (built for use of GPU)
* John The nipper. (built for use of CPU)
John " Use man John (or john - help
C) Astornated Gracking johnwordlist=[path to wordlist] [path to file]
() Format specie godking johnformat=[format]wordlist=[path to wordlist] [path to file]
Commands:
* johnlist=formats > 76 show the list of formats supported by John * johnshow > To show the Goesked hash
* johnshow -> To show the Goeked hash
To find the type of bash use bash - identifier tool
<u> </u>
Gacking Windows Passwords:
Note:
Window's passwords are hashed in NTLM. Tuppe of MD9 hash.

There boshes are dumped aning tools like minipaty.
Windows passwords are Godes wing John as,
izolm format = NT wordliet = wordliet > < losh file >
δ D
Groeking Umise Parsuords? -
Here's a quick table of the most Unix style password prefixes that you'll see.
Prefix Algorithm
\$1\$ md5crypt, used in Cisco stuff and older Linux/Unix systems
\$2\$, \$2a\$, \$2b\$, \$2x\$, \$2y\$ Bcrypt (Popular for web applications)
\$6\$ sha512crypt (Default for most Linux/Unix systems)
A great place to find more hash formats and password prefixes is the hashcat example page, available here: https://hashcat.net/wiki/doku.php?id=example_hashes.
-^a
Fully that induted to paiswoods:
4 / Ste / passed - Stones the Users of Linese System (include system
4 /etc/shadaw - stones the password hashes of all were
To crack Linioc payword,
i) Unshadowing
5 combine /ste/passed with /etc/shadow to tell the john what
data we given, for This john has unstadow.
The great point the state of th
سجعد : unshadow [path to passwd] [path to shadow] >output.txt
eg) unstadou /etc/pasud /etc/stadour > unshadoard.txt
i) Gocking:
() Carry.
Les Colons mandlists (maylebourg/mandlists/man
johnwordlist=/usr/share/wordlists/rockyou.txtformat=sha512crypt unshadowed.txt
depends on suptemy

	without using wordlist, John uses we	
	nede	s wordlit based on the given
Usage:	ing	ent ·
(s iohn	singleformat=[format] [path to file]	If we take the username: Markus
		Some possible passwords could b
	Not:	Markus1, Markus2, Markus3 (etc.) MArkus, MARkus, MARKus (etc.) Markus!, Markus\$, Markus* (etc.)
	If we have a bash	
	file, then we have to close	
	if riles is versome.	
Custom rules	a Organisation has paisword po	eliez which indudes,
Custom rules	a Organisation has paisword po * a Capital litter	rliej Which indudes,
austorn rules	* a fastial litter * special characters	eliaj Which indudes,
C) 9f	* a fastal litter * special characters * Numbers.	
C) 9f	* a fastial litter * special characters	
(2) 9f	* a Capital litter * special characters * Numbers. Then it should be exploited by	vsing custom rules.
(2) 9f	* a Capital litter * special characters * Numbers. Then it should be exploited by	vsing custom rules.
(2) 9f	* a Capital litter * special characters * Numbers. Then it should be exploited by	vsing custom rules.
(2) 9f	* a fastal litter * special characters * Numbers.	using autom rules.
(2) 9f	* a Capital litter * special characters * Numbers. Then it should be exploited by	using cutom pules. In/john.lonf (or) on the inetallation.
Gusting auto C) liste	* a Capital litter * special characters * Numbers. Then it should be exploited by on rules: on rules are Greated in /etc/joi opt/john/john.conf bayed	using custom pules. In/john.lonf (or) on the inetallation.
Grating with	* a Capital litter * special characters * Numbers. Then it should be exploited by on rules? on rules are Greated in /etc/go. opt/john/john.comf based rules as [List. Rules. Rules.	using custom pules. In/john.lonf (or) on the inetallation.

	Lastly, we then need to define what characters should be appended, prepended or otherwise included, we do this by adding
	character sets in square brackets [] in the order they should be used. These directly follow the modifier patterns inside of
	double quotes " ".
	[0-9] - Will include numbers 0-9
	[0] - Will include only the number 0
	[A-z] - Will include both upper and lowercase
	[A-Z] - Will include only uppercase letters
	[a-z] - Will include only lowercase letters
	[a] - Will include only a
	[!£\$%@] - Will include the symbols !£\$%@
	,
	Putting this all together, in order to generate a wordlist from the rules that would match the example password "Polopassword1!" (assuming the word polopassword was in our wordlist) we would create a rule entry that looks
	like this:
F.A.	[List.Rules: PoloPassword] In Adm. Conf (mentroned above)
0	CAX [0-9] [!£\$%@]") what to be modified
Postur Toberaid	[List.Rules:PoloPassword] [Az"[0-9][!£\$%@]" What to be marked by this (mittal) + 1 - the we numbers (0-9)
Troubles.	copiel 1st letter
	Append to end of word
	Then, we use this Rule in John as,
	Usce: johnwordlist=[path to wordlist]rule=PoloPassword [path to file]
	Greking zip Filo Pauword:
	-) Like unstadou, ar use a tool from Tohn suite szipz john
	v ·
	Not Nearsany
	Usage: zip2john [options] [zip file] > [output file]
	Usage: zip2john [options] [zip file] > [output file] we make our zipfile to hash john understood
	> Then we Gock it.
	johnwordlist=/usr/share/wordlists/rockyou.txt zip_hash.txt

Gerleing RAR Payword;
4) Here, we use Ranz john (similar to zyzjohn).
rar2john [rar file] > [output file]
"by, we are noting sor flo to format which john understands
Usego : johnwordlist=/usr/share/wordlists/rockyou.txt rar_hash.txt
Usago, john wordhist=/dsi/share/wordhists/rockyou.txt rai_nashitext
Orecking ISH Parsword:
In Penter when log in to SSH, Sometimes boy file
is mough (i.e) 284 yer@12.13.1.1 - L sprivate key file>
c) But sonotimes it requires a cid-15a password for
login.
SSH2 john: you can find the Python soupt of 28/2/john.py at /ser/share/
SSH2 john: you can find the Python soupl of 28h2john.py at /user/share/ 18h2john.py at /user/share/ 18h2john.py
eg) sshejdm id ssa > id-ssa-tash. txt
المحرو : johnwordlist=/usr/share/wordlists/rockyou.txt id_rsa_hash.txt
References:
/ https://www.openwall.com/john/