Bypassing Windows Passwords with chntpw

CHNTPW is a utility to reset the password of any local user on the Windows system. Supports all Windows from NT 3.5 to Win 10 and Win 11 including 64 Bit operating systems.

> It is the best utility to quickly reset Windows authentication passwords



Attack -1

• You have physical access to a system which is **password locked**. The tool can be used to quickly remove the password

Attack -2

 You have physical access to a system which uses online account for authentication. The tool can be used to enable local administrator account which will allow access to the system Where are Windows Passwords Stored Windows stores its user information, including encrypted versions of the passwords, in a file called 'SAM', usually found in \windows\system32\config CHNTPW utility manipulates the file in an interactive manner to clear the passwords

Download the USB version of the utility from the official website

https://pogostick.net/~pnh/ntpasswd/

Download

Note: Some links may be offsite.

CD release, see below on how to use

- cd140201.zip (~18MB) Bootable CD image. (md5sum: f274127bf8be9a7ed48b563fd951ae9e)
- <u>usb140201.zip</u> (~18MB) Files for USB install (md5sum: a60dbb91016d93ec5f11e64650394afb)

Previous release:

- cd110511.zip (~4MB) Bootable CD image. (md5sum: fe0d30a1c540ec6757e748c7c09e2e4f)
- usb110511.zip (~4MB) Files for USB install (md5sum: 50ced8d2a5febe22199f99acec74e63b)

The files inside the USB zip are exactly the same as on the CD. See below for instructions on how to make USB disk bootable.

Floppy release (not updated anymore), see below on how to use them

- <u>bd080526.zip</u> (~1.4M) Bootdisk image (md5sum: 37889e4c540504e59132bdcdfe7f9bb7)
- drivers1-080526.zip (~310K) Disk drivers (mostly PATA/SATA) (md5sum: 72ac1731c6ba735d0ac2746a30dbc3ee)
- <u>drivers2-080526.zip</u> (~1.2M) Disk drivers (mostly SCSI) (md5sum: 30172bec657c85a5f1a0b43601452fb7)

Extract all files and copy the files to a USB drive

Ensure that the USB is formatted and there is no important data on it

SPC → NEW VOLUME (F:)

•	Name	Date modified	Туре	Size	
	🗠 boot.msg	2/1/2014 9:35 PM	Outlook Item	2 KB	
	📄 initrd.cgz	2/1/2014 9:35 PM	CGZ File	1,301 KB	
	📄 isolinux.bin	2/1/2014 9:35 PM	BIN File	24 KB	
	isolinux.cfg	8/27/2013 9:28 PM	Configuration Sou	1 KB	
	📄 readme.txt	2/1/2014 9:34 PM	Text Document	3 KB	
	scsi.cgz	2/1/2014 9:35 PM	CGZ File	13,398 KB	
	syslinux.cfg	8/27/2013 9:28 PM	Configuration Sou	1 KB	
	📧 syslinux.exe	5/11/2011 9:39 PM	Application	70 KB	
	📄 vmlinuz	8/27/2013 6:38 PM	File	2,366 KB	

Run a command prompt on Windows as Administrator and use the following command

f:syslinux.exe -ma f:

Here :

 f is the drive letter name (change it as per your USB drive letter)
 The USB will become bootable without any notification. A file

Idlinux.sys may appear on the USB drive

Now on your PC, press esc or F12 (whatever your system supports and boot from USB



Chntpw utility will boot and search for windows installation drive

Type 1 (or whatever your drive is) and press enter

 Step ONE: Select disk partition where the Windows installation is _____ n device bytes GB MB === DISK PARTITIONS: sda1 10474348 9 10228 partition sda1 is NTFS. Found windows on: WINDOWS/system32/config 10228 мв Possible windows installations found: 10228MB WINDOWS/system32/config 1 sda1 select partition by number it. o = go to old disk se Please \mathbf{or} system ical star to load / usb OBBA tition only ргорЬа

Step- 6 Chntpw utility will ask for which registry file you want to manipulate

Type 1 to select SAM and press enter

тно Select iles rwxrwxrwx 20000000 <u>ଅପରପରସ</u>୍ 111111000 wxrwxrwx 76 iep wwwwwwwww 4 96 Sep rwxrwxrw> rwxrwxr 6 iep 4 14 :08 temprofile drwxrwxrw> ep Š 56 18 rwxrwxr userd Select which part of registry to load, use predefined choices or list the files with space as delimiter 1 - Password_reset [sam] parameters [software] RecoveryConsole it, for regedit tec [system software sam security] a 1 1 Load almos $-\mathbf{of}$ quit turn to previous re

Now we need to select the option to edit user accounts

Type 1 and press enter

Step THREE: Password or registry edit Three SAM> name (from header): (\SystemRoot\System32\Config\SAM> ROOT KEY at offset: 0x001020 * Subkey indexing type is: 666c (If) File size 262144 [40000] bytes, containing 5 pages (+ 1 headerpage) Used for data: 231/18000 blocks/bytes, unused: 6/2320 blocks/bytes. (>======<<> chntpw Main Interactive Menu <>=====<<> Loaded hives: (SAM> 1 - Edit user data and passwords 2 - List groups - Registry editor, now with full write support! 4 - Quit (you will be asked if there is something to save) What to do? [1] ->

Step-8 The utility will list all local accounts on the PC. Type the respective ID of the user account we need to crack ===== chntpw Edit User Info & Passwords ==== Username inistrat mmar ssistant RT_388945a0 Please enter user number (RID) or 0 to exit: [3eb]

Now select the option to clear password

Type 1 and press enter

- - - User Edit Menu: 1 - Clear (blank) user password 2 - Unlock and enable user account [probably locked now] 3 - Promote user (make user an administrator) 4 - Add user to a group 5 - Remove user from a group 9 - Quit editing user, back to user select Select: [q] >

Step- 10 Now press quit and once it asks whether you want to save changes type Y and press enter

Step FOUR: Writing back changes
About to write file(s) back! Do it? [n] : y_

Now reboot your system and your password will be removed



