



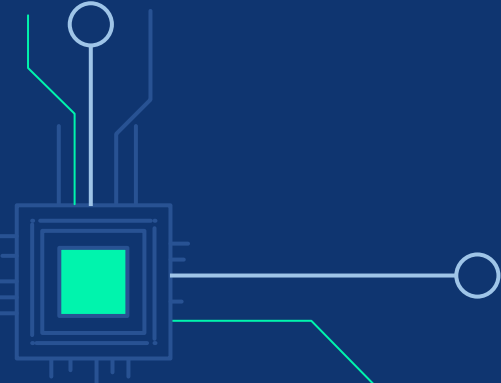
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LOT A

Mots de passe utilisateurs



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LES BONNES
PRATIQUES

02

ATTAQUES PAR
FORCE BRUTE ET
DICTIONNAIRE

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GESTION DES
MOTS DE
PASSE



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LES BONNES PRATIQUES

1.1

COMPLEXITÉ
DES MDP

1.2

RENOUVELLEMENT

1.3

MOYEN
MÉMOTECHNIQUE



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1.1 | LES BONNES PRATIQUES

LA COMPLEXITÉ DES MOTS DE PASSE

- Mots de passe avec 14 caractères minimum
- changement de caractères (pas que du alphanumérique)





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1.2 | LES BONNES PRATIQUES RENOUVELLEMENT

- un compte = un mot de passe
- -> évite une perte trop importante de données perso





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1.3 | LES BONNES PRATIQUES

MOYENS MÉMOTECNIQUE

- Une phrase
- Des mots valises





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2 | FORCE BRUTE ET DICTIONNAIRE

2.1

PRINCIPE

2.2

DIFFÉRENTS
LOGICIELS

2.3

XHYDRA

2.1 | FORCE BRUTE ET DICTIONNAIRE

LES PRINCIPES

- Principe
- Dictionnaire

NOMBRE DE CARACTÈRES	UNIQUEMENT DES CHIFFRES	LETTRES MINUSCULES	LETTRES MINUSCULES ET MAJUSCULES	LETTRES MINUSCULES ET MAJUSCULES + CHIFFRES	LETTRES MINUSCULES ET MAJUSCULES + CHIFFRES + CARACTÈRES SPÉCIAUX
4	IMMÉDIATEMENT	IMMÉDIATEMENT	IMMÉDIATEMENT	IMMÉDIATEMENT	IMMÉDIATEMENT
6	IMMÉDIATEMENT	IMMÉDIATEMENT	IMMÉDIATEMENT	1 sec	5 sec
8	IMMÉDIATEMENT	5 sec	22 min	1 heure	9 heures
10	IMMÉDIATEMENT	58 min	1 mois	7 mois	5 ans
12	45 sec	3 semaines	300 ans	2000 ans	34 000 ans
14	41 min	51 ans	800 000 ans	9 millions d'années	200 millions d'années

*source : SCSP Community (Seasoned Cyber Security Professionals)





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2.2 | FORCE BRUTE ET DICTIONNAIRE

DIFFÉRENTS LOGICIELS

- Jack The Ripper
- L0phtcrack
- Cain & Abel
- xHydra





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2.3 | XHYDRA

- Installer le paquet sur Linux

```
root@debian-bullseye:~# apt install hydra-gtk
```

- Lancer le logiciel





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2.3 | XHYDRA

The screenshot shows the xHydra application window. It has a menu bar with 'Quitter' and a tabbed interface with 'Target', 'Passwords', 'Tuning', 'Specific', and 'Start'. The 'Target' tab is active. Under the 'Target' section, there are two radio buttons: 'Single Target' (selected) and 'Target List'. The 'Single Target' field contains '127.0.0.1'. There is an unchecked checkbox for 'Prefer IPV6'. The 'Port' is set to '0' in a spinner box. The 'Protocol' is set to 'adam6500' in a dropdown menu. Below this is the 'Output Options' section with several unchecked checkboxes: 'Use SSL', 'Use old SSL', 'Be Verbose', 'Show Attempts', 'Debug', 'COMPLETE HELP', and 'Service Module Usage Details'. At the bottom, a command line shows the command: `hydra -l yourname -p yourpass -t 16 127.0.0.1 adam6500`.

Quitter

Target Passwords Tuning Specific Start

Target

☒ Single Target 127.0.0.1

☐ Target List

☐ Prefer IPV6

Port 0

Protocol adam6500

Output Options

☐ Use SSL ☐ Use old SSL ☐ Be Verbose

☐ Show Attempts ☐ Debug

☐ COMPLETE HELP ☐ Service Module Usage Details

hydra -l yourname -p yourpass -t 16 127.0.0.1 adam6500

The screenshot shows the xHydra application window with the 'Target' tab selected. The interface includes a 'Target' section with radio buttons for 'Single Target' (selected) and 'Target List'. The 'Single Target' field contains 'smtp.gmail.com'. There is a 'Prefer IPV6' checkbox which is unchecked. The 'Port' is set to '465' in a spinner box. The 'Protocol' is set to 'smtp' in a dropdown menu. Below this is the 'Output Options' section with several checkboxes: 'Use SSL' (checked), 'Use old SSL' (unchecked), 'Be Verbose' (checked), 'Show Attempts' (checked), 'Debug' (unchecked), 'COMPLETE HELP' (unchecked), and 'Service Module Usage Details' (unchecked). At the bottom, a command line shows the generated command: `hydra -s 465 -S -v -V -l yourname -p yourpass -t 16 smtp.gmail.com smtp`.

Quit

Target Passwords Tuning Specific Start

Target

☒ Single Target

☐ Target List

☐ Prefer IPV6

Port

Protocol

Output Options

☒ Use SSL ☐ Use old SSL ☒ Be Verbose

☒ Show Attempts ☐ Debug

☐ COMPLETE HELP ☐ Service Module Usage Details

hydra -s 465 -S -v -V -l yourname -p yourpass -t 16 smtp.gmail.com smtp

2.3 | XHYDRA

- Onglet "Target"
- Remplir les champs

2.3 | XHYDRA

- Onglet “Passwords”
- “Username” = cible
- Utilisation d’un dictionnaire dans le champ “Password List”

The screenshot shows the xHydra application window with the 'Passwords' tab selected. The interface includes a 'Username' section with a radio button for 'Username' (selected) and a text field containing '(target)@gmail.com'. There is also a 'Username List' section with a radio button and an empty text field. Below these are two checkboxes: 'Loop around users' and 'Protocol does not require usernames'. The 'Password' section has three options: 'Password' (radio button), 'Password List' (radio button, selected), and 'Generate' (radio button). The 'Password List' option has a text field containing '/usr/share/wordlists/rocky'. The 'Generate' option has a text field containing '1:1:a'. There is a 'Colon separated file' section with a checkbox 'Use Colon separated file' and an empty text field. At the bottom, there are three checkboxes: 'Try login as password', 'Try empty password', and 'Try reversed login'. The status bar at the bottom shows the command: 'hydra -s 465 -S -v -V -I (target)@gmail.com -P /usr/share/wordlists/rocky...'.

Quitter

Target Passwords Tuning Specific Start

Username

☒ Username (target)@gmail.com

☐ Username List

☐ Loop around users ☐ Protocol does not require usernames

Password

☐ Password yourpass

☒ Password List /usr/share/wordlists/rocky

☐ Generate 1:1:a

Colon separated file

☐ Use Colon separated file

☐ Try login as password ☐ Try empty password ☐ Try reversed login

hydra -s 465 -S -v -V -I (target)@gmail.com -P /usr/share/wordlists/rocky...



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2.3 | XHYDRA

- Onglet “Start”
- Lancer le Brute Force
- Résultats dans “Output”





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GESTIONNAIRE DE MOTS DE PASSE

3.1

QU'EST-CE
QUE C'EST?

3.2

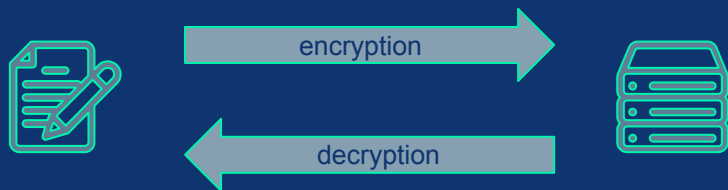
KEEPASS

3.3

UTILISATION

3.1 | GESTION DES MOTS DE PASSE: QU'EST-CE QUE C'EST?

- Les utilités :
 - Créer des mots de passe complexes.
 - Pouvoir les enregistrer & y accéder de manière sécurisé.
 - Ne pas utiliser le même mot de passe partout!!!





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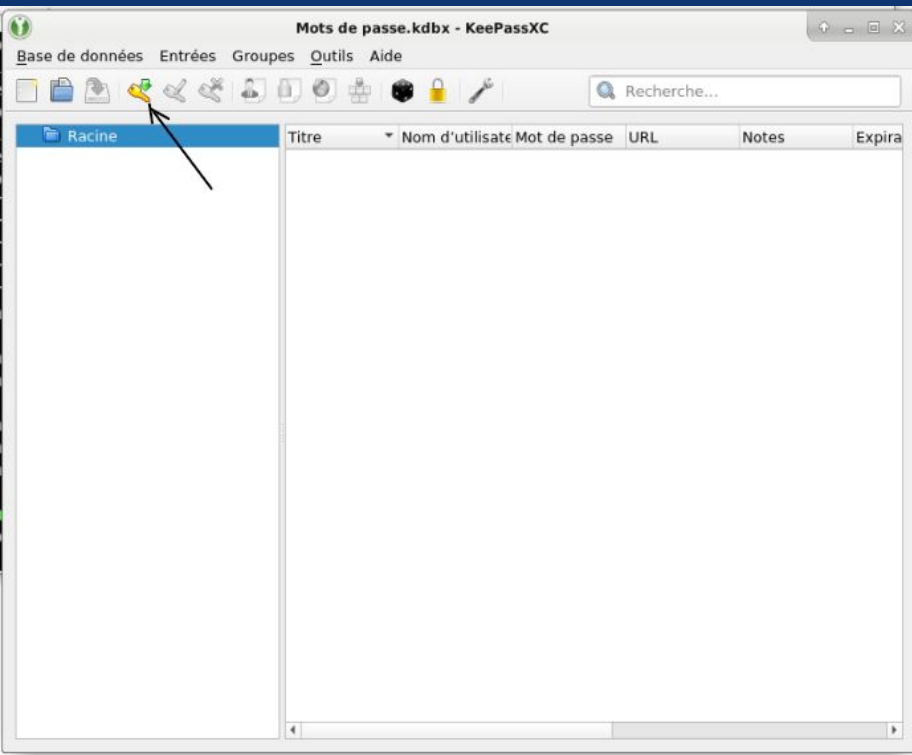
3.2 | GESTION DES MOTS DE PASSE:

LOGICIELS UTILISABLES :

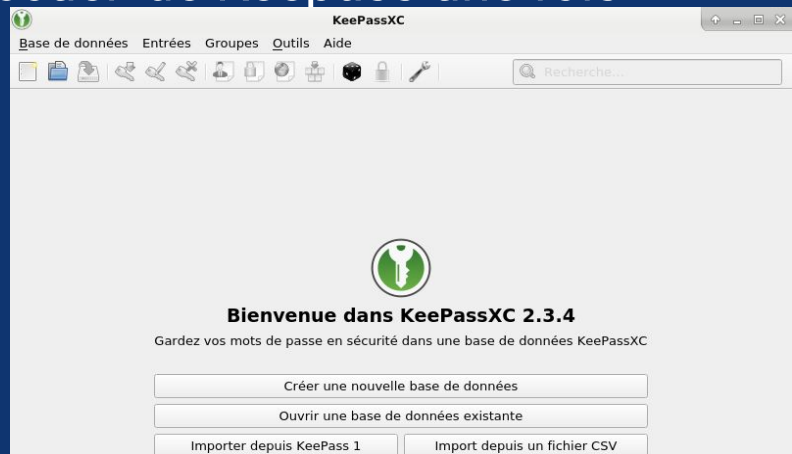
- Les différents navigateur web :
 - Firefox, Chrome, etc...
- Certains logiciels telle que :
 - Keepass(gratuit est conseillé par l'ANSSI), Lockpass, etc...



3.3 | GESTION DES MOTS DE PASSE: NOTICE D'INSTALLATION KEEPASS :



Page d'accueil de KeePass une fois installé.

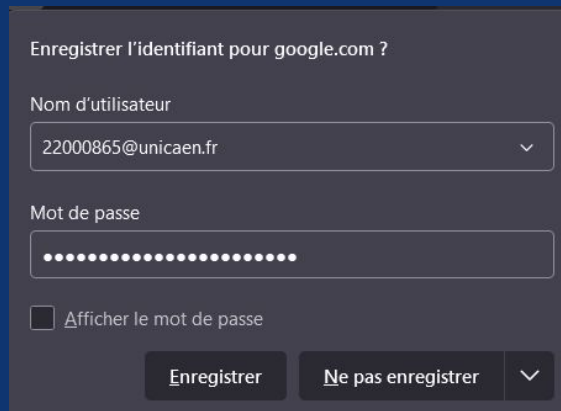
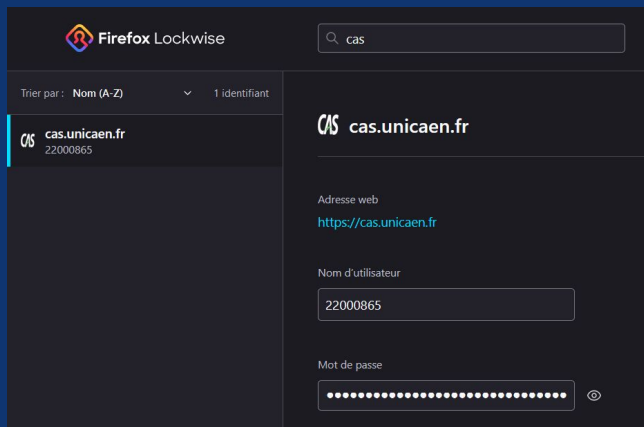




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3.3 | GESTION DES MOTS DE PASSE: UTILISATION (NAVIGATEUR INTERNET) :

Gestionnaire de mots de passe
intégré à Firefox.





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CONCLUSION

AVOIR UN MOT DE
PASSE FORT

NE PAS UTILISER LE
MÊME MDP PARTOUT

LES
MOTS DE
PASSE

UTILISER UN
GESTIONNAIRE DE MDP





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SOURCES

- [Activ'Formation | Sécurité informatique | Mot de passe](#)
- Module 1 - Unité 4 du MOOC de l'ANSSI
- [Calculer la force d'un mot de passe | ANSSI](#)
- [Les conseils du CNIL pour un bon mot de passe](#)
- Sites officiels:
 - [Keepass](#)



THANKS!



Do you have any
questions?

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yourcompany.com

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