



**SECURITY** is not complete without **U**



# Sensibilisation sécurité informatique

**Liberté Académique vs. Operation vs. Sécurité**

**CERN équipe sécurité informatique**

“Protéger les systèmes informatique du personnel, les services informatiques, la Grille & les systèmes de contrôle”



**SECURITY is not complete without U**



- ▶ Un système est aussi sûr que son lien le plus faible.  
Il n'y a pas 100% sécurité.
- ▶ La réputation du CERN et son opération sont en jeu...  
...incl. votre ordinateur, vos données et documents.
- ▶ Dans le milieu académique du CERN (comme à la maison)  
**Vous êtes responsable de la sécurité de vos ordinateurs, fichiers, programmes, services, ... — nous ne le sommes pas.**
- ▶ Ce qui suit s'applique au CERN — et la maison!

# Protect your passwords

## *Protégez vos mots de passe*



A cybercriminal, who knows your password, will abuse your computing account  
*Un cybercriminel, qui connaît votre mot de passe, abusera de votre compte informatique*

# Protect your passwords

## Protégez vos mots de passe

Date: Fri, 5 Sep 2008 15:53:42 -0700  
From: Webmail IT Service <sandraward@charterinternet.com>  
Reply-To: webITService@live.com  
To:  
Subject: Important: Email Account

Dear Staff/Student

This message is from the Webmail IT mail center due to an unusual activity. Please verify your webmail account by confirming your password.

In order to confirm your Web-Mail information, please provide the following details:

Full Names:  
Username/ID:  
Password:  
Domain Name:  
\*Important\*

Please provide all these information as soon as possible.

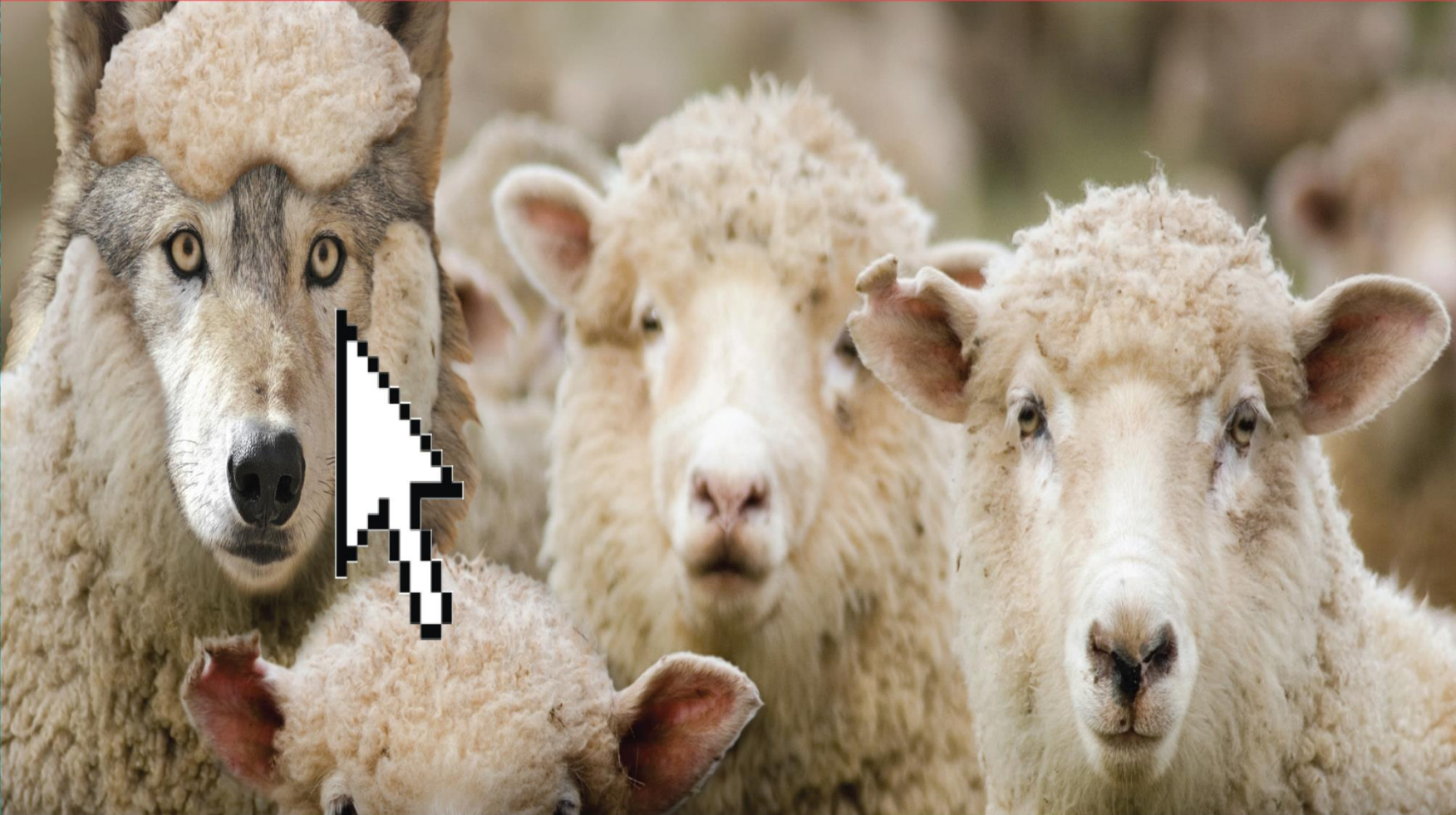
We thank you for your prompt attention to this matter regarding your Webmail Account. We apologise for any inconvenience caused.

- ▶ **Votre mot de passe est à vous — seulement à vous.**
- ▶ **Faites-le complexe.**
- ▶ **Ne le réutilisez pas.**
- ▶ **Changez-le régulièrement.**
- ▶ **Considérez aussi vos autres informations d'identification.**



**Be careful with e-mail & Web**

***Soyez prudent avec les e-mails et le Web***



**Cybercriminals are trying to trick you!**  
***Les cybercriminels essaient de vous piéger !***

# Be careful with e-mail & Web

## *Soyez prudent avec les e-mails et le Web*

From: PayPal Security Department [service@paypal.com]  
Subject: [SPAM:99%] Your PayPal Account

**PayPal** The way to send and receive money online

### Security Center Advisory!

We recently noticed one or more attempts to log in to your PayPal account from a foreign IP address and we have reasons to believe that your account was hijacked by a third party without your authorization. If you recently accessed your account while traveling, the unusual log in attempt may have been initiated by you.

If you are the rightful holder of the account you must click **the link below** and then complete all steps from the following page as we try to verify your identity.

[Click here to verify your account](#)

following page as we try to

If you  
but to

[Click here to verify your account](#)

Thank

<http://211.248.19...>

Please

cannot be answered. For assistance, [log in](#) to your account and choose the "Help" link in the footer of the page.

### Protect Your Account Info

Make sure you never provide your password to fraudulent persons.

PayPal automatically encrypts your confidential information using the

- ▶ **Arrêtez — réfléchissez — cliquez.**
- ▶ **N'ouvrez pas les liens, e-mails ou pièces jointes inattendus ou suspects.**
- ▶ **N'installez pas de logiciels ou de « plug-in » douteux.**

**SECURITY is not complete without** <http://cern.ch/Computer.Security>

# Protect your computers

# Protégez vos ordinateurs



Any unprotected computer connected to the Internet is likely to be infected within minutes!  
*Tout ordinateur sans protection connecté à Internet est susceptible d'être infecté en quelques minutes !*

# Protect your computers

## Protégez vos ordinateurs

```
26/11/09
Zeul's Connect B
Dumping Ar
Conne

Terminal — ssh — ttys000 — 80x24
ssh
3200K ..... 95% 10.85 MB/s
3250K ..... 96% 11.49 MB/s
3300K ..... 98% 10.99 MB/s
3350K ..... 99% 11.24 MB/s
3400K ..... 100% 10.83 MB/s

15:03:29 (11.18 MB/s) - `exploit2.tgz`
tar -zxvf exploit2.tgz && cd wunderbar
wunderbar_emporium/
wunderbar_emporium/pwnkernel.c
wunderbar_emporium/tzameti.avi
wunderbar_emporium/wunderbar_emporium.
wunderbar_emporium/exploit.c
id
uid=48(apache) gid=48(apache) groups=4
ntext=root:system_r:system_mail_t
./wunderbar_emporium.sh
sh: mplayer: command not found
sh: no job control in this shell
sh-3.00# id
uid=0(root) gid=0(root) groups=48(apac
root:system_r:system_mail_t
sh-3.00#
```

- ▶ **Mettez à jour vos systèmes et logiciels.**
- ▶ **Utilisez un antivirus.**
- ▶ **N'installez pas de logiciels douteux.**
- ▶ **Verrouillez votre écran avec un mot de passe.**



Any unprotected computer conn  
Tout ordinateur sans protection connect



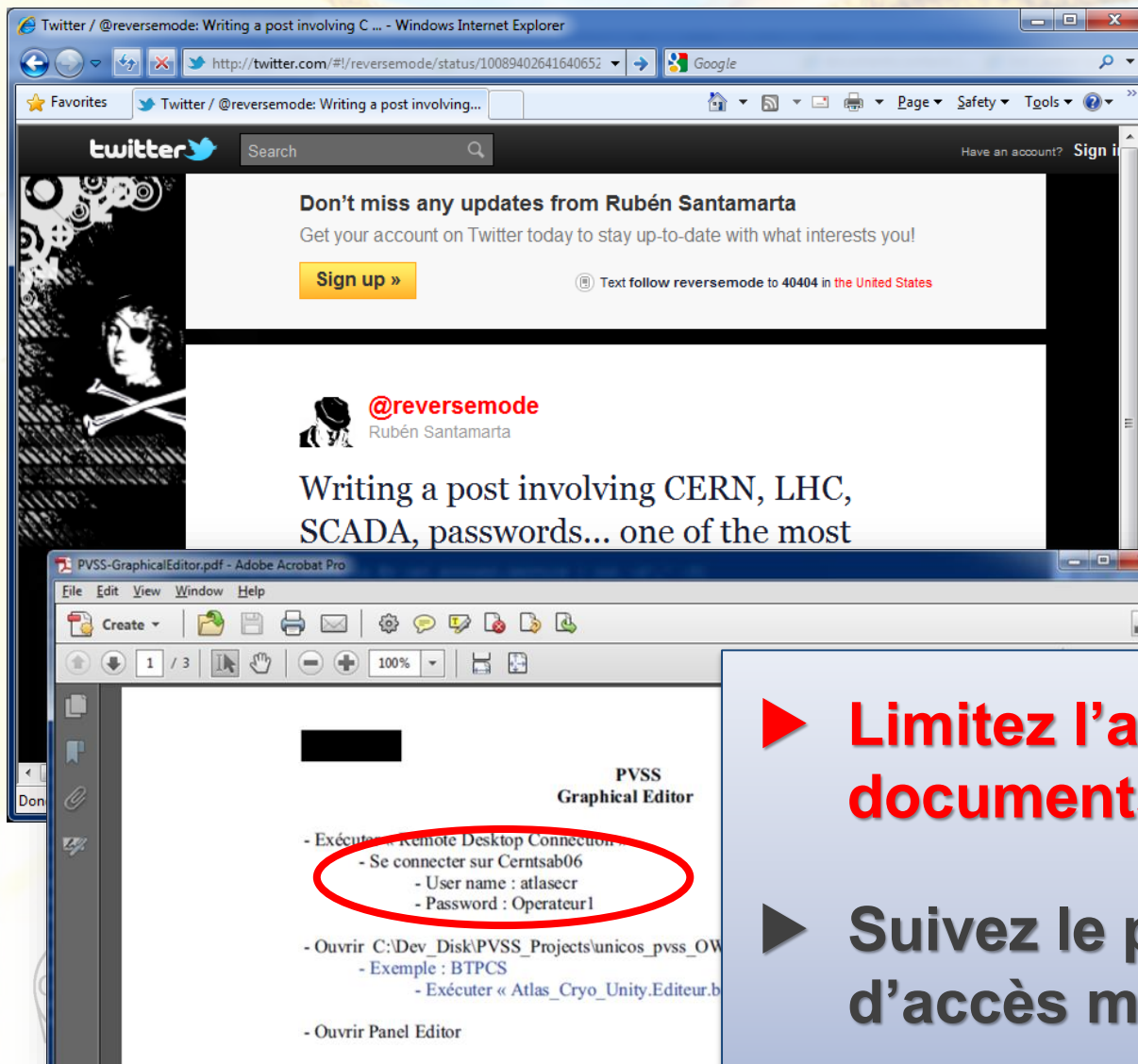
# Protect your files & data *Protégez vos fichiers et données*



Cybercriminals are trying to find condential or sensitive information, also here at CERN  
*Les cybercriminels essaient de trouver des informations condentielles ou sensibles, au CERN aussi*

# Protect your files & data

## Protégez vos fichiers et données



- ▶ **Limitez l'accès à vos documents et répertoires.**
- ▶ **Suivez le principe du droit d'accès minimal.**

# Respect copyright

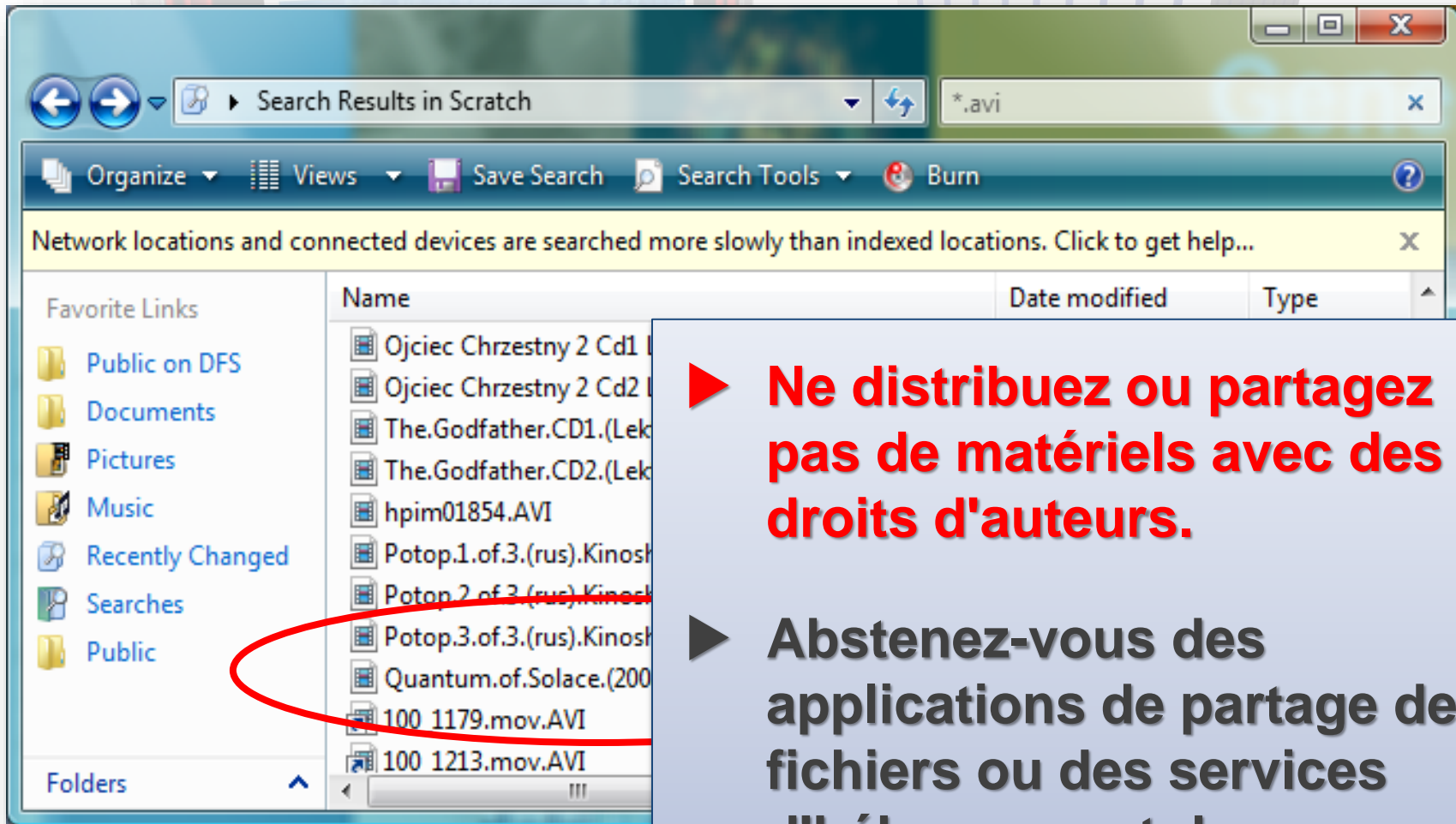
# Respectez le droit d'auteur



Don't break the law!  
N'enfreignez pas la loi!

# Respect copyright

# Respectez le droit d'auteur



- ▶ **Ne distribuez ou partagez pas de matériels avec des droits d'auteurs.**
- ▶ **Abstenez-vous des applications de partage de fichiers ou des services d'hébergement de fichiers.**

# Follow the computing rules

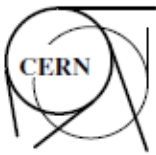
## *Suivez les règles informatiques*



Help us to protect CERN's mission and reputation  
*Aidez-nous à protéger la mission et la réputation du CERN*

# Follow the computing rules

## Suivez les règles informatiques



ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE  
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

Laboratoire Européen pour la Physique des Particules  
European Laboratory for Particle Physics

### OPERATIONAL CIRCULAR Issued by Human Resources

This operational circular was examined by the Standing Concertation Committee at its meeting of 7 June 2000.

Applicable

concerned

Person resp

Date

*In the interests of readability, this circular has been drafted using the masculine gender should be understood to refer to both sexes. The provisions apply to men and women except where it is clear from the context that they concern one sex.*

### USE OF CERN COMPUTING

#### I- Introduction

- ▶ **Vous vous êtes engagé à respecter les Règles.**
- ▶ **Votre activité ne doit pas être illégale, commerciale, politique, offensive, ...**
- ▶ **N'est pas autorisé : consultation de matériel pornographique ou autre matériel illicite.**



# CERN Computer Security

Computer security emergency contact  
✉ [Computer.Security@cern.ch](mailto:Computer.Security@cern.ch) ☎ 70500  
Contact en cas d'incident de sécurité informatique



- Home
- Computing Rules
- Recommendations
- Training
- Services 📄
- Reports & Presentations 📄

🇫🇷 Vous préférez le français ?

## Emergency Response

What to do in an emergency

## Contact

How to contact the Computer Security Team

Departmental & experiment contacts 📄

## About CERN Computer Security

A word from the DG

Security is not complete without you

## CERN Computer Security Announcements

*(Previous announcements are here.)*

### Security needs you

"Academic freedom is a valuable thing, but like any kind of freedom, it comes with responsibility... It is the responsibility of all of us, not just the experts in the IT Department, to protect our IT infrastructure while striking the right balance between security, academic freedom and the unfettered operation of our facilities... At CERN, security is not complete without you."

**A word from the DG**

(Read more in the [CERN Bulletin](#) 📄)

## Overview

At CERN, due to its unique academic environment and the associated academic freedom, **computer security has been delegated to CERN's users:**

**At CERN, the individual users are in first instance responsible for securing their computers, networks, data, systems & services**



# CERN Computer Security

Computer security emergency contact  
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Contact en cas d'incident de sécurité informatique



Home Computing Rules Recommen



HR Training Website

Course

»Office software

Secure e-mail and Web browsing

»Software and system technologies

Developing secure software

Secure coding for Perl

Secure coding for Python

Secure coding in C/C++

Securing Java Applications

Securing Java and Web Applications

Securing PHP Web Applications

Service Level Status overview

Home Search KPIs

### All IT Services

Administrative applications	
<input checked="" type="checkbox"/>	EDH
<input checked="" type="checkbox"/>	AIS Common Login
<input checked="" type="checkbox"/>	AISMEDIA
<input checked="" type="checkbox"/>	Warehouse (BAAN)
<input checked="" type="checkbox"/>	CET
<input checked="" type="checkbox"/>	Contracts (CFU)
<input checked="" type="checkbox"/>	Recruitment (ERT)
<input checked="" type="checkbox"/>	Foundation applicati
<input checked="" type="checkbox"/>	Human Resources (H
<input checked="" type="checkbox"/>	HRT
<input checked="" type="checkbox"/>	PPT system
<input checked="" type="checkbox"/>	PPT for LHC
<input checked="" type="checkbox"/>	WOS system
<input checked="" type="checkbox"/>	XOTHER
Windows Services	
<input checked="" type="checkbox"/>	Active Directory
<input checked="" type="checkbox"/>	Distributed File Syst
<input checked="" type="checkbox"/>	Antivirus / Windows
<input checked="" type="checkbox"/>	Security
<input type="checkbox"/>	Terminal Services
<input checked="" type="checkbox"/>	Printing Service
Mail and Web Services	
<input checked="" type="checkbox"/>	MMM (Mail Services)
<input checked="" type="checkbox"/>	Mail gateways
<input checked="" type="checkbox"/>	Web
Documents and collaborative serv	
<input checked="" type="checkbox"/>	CDS
<input checked="" type="checkbox"/>	Directorate Archive
<input checked="" type="checkbox"/>	Aleph
<input checked="" type="checkbox"/>	Bulletin
<input checked="" type="checkbox"/>	Conversion Server
<input type="checkbox"/>	Indico

- ▶ **Ne réinventez pas la roue.**
- ▶ **Focalisez-vous sur votre travail principal.**
- ▶ **Délégez votre responsabilité: Utilisez les services IT & Laissez IT s'occuper de la sécurité.**
- ▶ **Bénéficiez de formation et d'aide: <https://cern.ch/security> [Computer.Security@cern.ch](mailto:Computer.Security@cern.ch)**



