



European Organization for Particle Physics
Exploring the frontiers of knowledge



CERN Computer Security

Abuse, Blunder & Fun



CERN Computer Security: Abuse, Blunder & Fun

Dr. Stefan.Lueders@cern.ch

EASITRAIN Lectures, March 5th 2018

There is no 100% security.

**Security is as good as the
weakest link: us!**

The advantage is with the attackers.



**Attackers might come with
money, knowledge and time.
Focussed ones usually succeed ☹**

**Bad things happen...
...and can happen to any of us!**





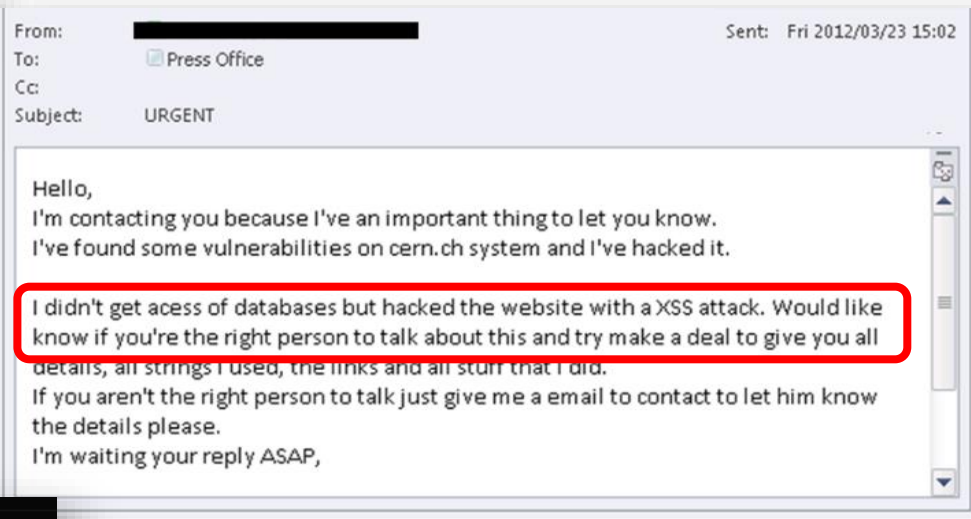
C3 ~ RET

@c3retc3



#CERN discloses passwords, source code and tickets to Web spiders

6:03 a.m. - 29 Sep 2015



PART 1: HACKING THE LARGE HADRON COLLIDER (XSS VULNERABILITY)

Published by camilla c. | Filed under [General](#), [News](#), [Spreadin'](#)

PART 2: HACKING THE LARGE HADRON COLLIDER (AUTHORIZATION BYPASS)

Published by camilla c. | Filed under [General](#), [News](#)

```
<sc0rp> nice
<MLT> using the exploit on CERN would be win, hacking the people who created the internet :P
<sc0rp> haha
```

Search

News

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Absolute BS Crap Reasonable Nice Amazing

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Do you think it's possible for the CERN LHC to be hacked?

Anonymous Coward
User ID: 9578086
United States
05/25/2015 10:42 PM
[Report Abusive Post](#)
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Do you think it's possible for the CERN LHC to be hacked?

Shouldn't it have the same level of protections as a nuclear power plant? Yet I feel it probably does not...

Dear Dr. [REDACTED]

I regret to inform you that your life may be in danger if you are one of the seven men that have been pushing for higher energy particle collision experiments at CERN.

Due to warnings by prominent theoretical physicists like Dr. Stephen Hawking that your proposed higher energy particle collision experiments could create a singularity that destroys our universe, combined with anonymous theoretical physicists with no financial stake in CERN's continued operations all making the same dire predictions, some anonymous individuals have become convinced that the only way to save our universe from destruction is to kill these 7 men, of which, unfortunately, you may be one.

Some of our members have also run our own highly advanced Temporal Derivative Predictive Modeling calculations which suggest that your new higher energy particle collision

- ▶ [ObamaFail: Affordable Insurance Rates Set To Skyrocket 50%... Again](#)



Mandate:

Protect the operations and reputation of CERN against cyber-threats

Protecting Our/Your Assets

Protecting CERN's Reputation

Protecting CERN's Operations

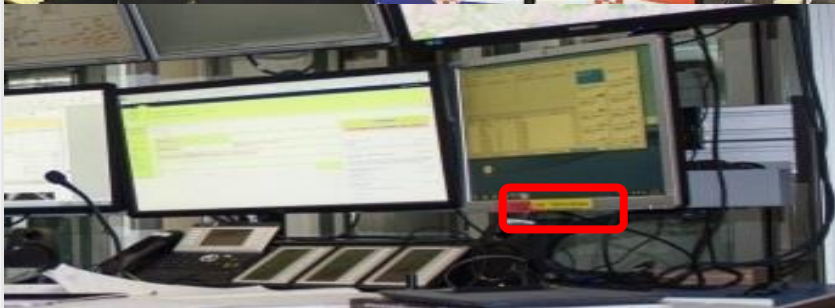


Mandate:

**Protect the operations and reputation
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Protecting Our/Your Assets





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Issue No. 20-21/2014 - Monday 12 May 2014
No printable version available - Subscribe:   

Polarisation confirmed

Celebrating with our neighbours

LS4 Report: PS Booster prepares for beam

From the drawing board to the test bench

Data defenders

The "Karma Level Sexy Bottom" awards are back at CERN

Winter Atomιάdes 2014: CERN skiers win 31 medals!

BEHIND THE SCENES OF GS: NOTHING LEFT TO CHANCE

The AS (Alarm Systems) Section in the GS-ASE Group is, as its name suggests, in charge of the various alarm systems spread across CERN's many sites. Its mission? To install, manage and maintain more than 26,000 alarms of all types located both above ground and in the tunnels.



Detection

Among these systems, the best known are of course the heat and/or smoke detectors, which quickly raise the alarm in the event of a fire. CERN has 8500 of

these devices in total. In combination with these, evacuation alarms are also found all over the which is then connected to a transmission unit. From here, the information – for example, which type of alarm has been activated in which building – is transmitted to the Fire Brigade's Safety Control Room (SCR) and to the CERN Control Centre (CCC). "The information is transferred via two channels," explains Henrik Nissen. "The first channel is a basic electrical (wire) network which, by its very nature, ensures a very high level of reliability. The second channel is a computer network which, although it allows more precise information to be transferred, is not as reliable as the first." All of the alarms essential for the safety of people and equipment (level 3 alarms), as well as vital technical alarms (for cryogenics, for example) always use both channels. This redundancy ensures that the information is transmitted whatever happens.

On the maintenance side, each of the 11,000 level 3 alarms is tested every year. This is a mammoth task which requires the expertise of seven people working full time in close cooperation with CERN's Fire Brigade.

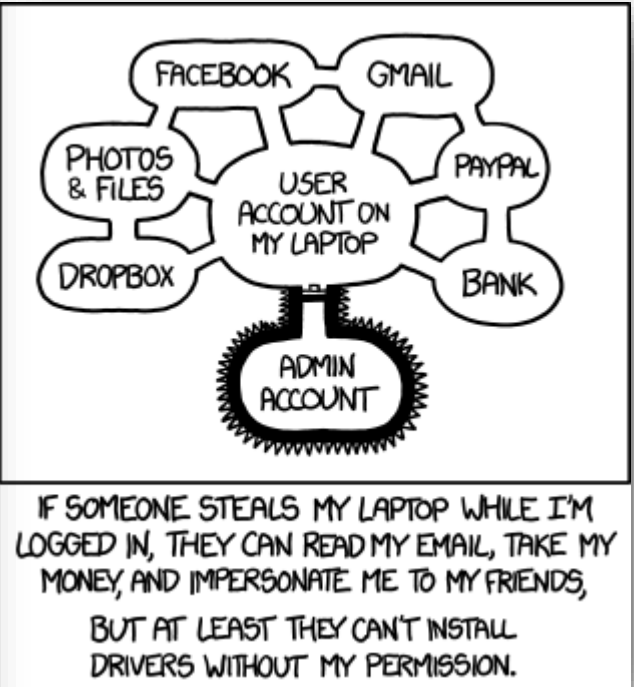
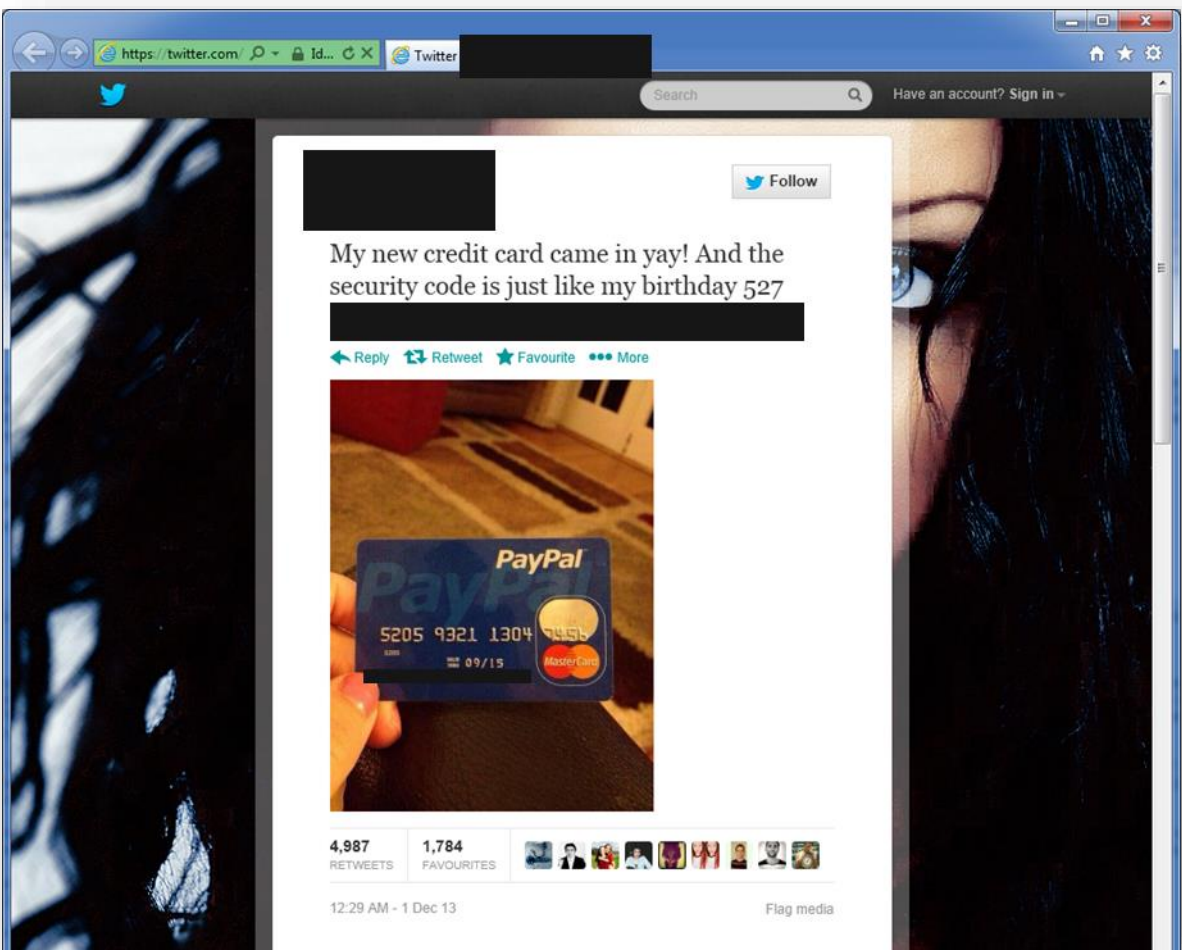


The test platform for detecting gas (including ODH). The bottles at the bottom of the image contain different types of gas used for tests.



The Fire Brigade's Safety Control Room, which receives level 3 alarms.





Overall Rank		Item	Percentage		2010 Price Ranges
2010	2009		2010	2009	
1	1	Credit card information	22%	19%	\$0.07-\$100
2	2	Bank account credentials	16%	19%	\$10-\$900
3	3	Email accounts	10%	7%	\$1-\$18
4	13	Attack tools	7%	2%	\$5-\$650
5	4	Email addresses	5%	7%	\$1/MB-\$20/MB
6	7	Credit card dumps	5%	5%	\$0.50-\$120
7	6	Full identities	5%	5%	\$0.50-\$20
8	14	Scam hosting	4%	2%	\$10-\$150
9	5	Shell scripts	4%	6%	\$2-\$7
10	9	Cash-out services	3%	4%	\$200-\$500 or 50%-70% of total value

Item	Bulk Prices Observed	Unit Price
Credit card information	10 credit cards for \$17	\$1.70
	100 credit cards for \$100	\$1.00
	1000 credit cards for \$300	\$0.30
	750 credit cards for \$50	\$0.07
Credit card dumps	101 dumps for \$50	\$0.50
Full identities	30 full identities for \$20	\$0.67
	100 full identities for \$50	\$0.50

Number	Type	Name	Country	City	Phone	Mail	DOB	Price	Select
372845	AMEX	Charles S	US	...	Y	N	Y	40\$	<input type="checkbox"/>
528713	DISCOVER	Christopher B	US	...	Y	N	Y	40\$	<input type="checkbox"/>
645450	DISCOVER	Eric Kelly	US	...	Y	N	Y	40\$	<input type="checkbox"/>
371527	AMEX	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
646880	DISCOVER	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
651920	DISCOVER	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
645857	DISCOVER	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
371198	AMEX	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
534246	DISCOVER	Eric	US	...	Y	Y	Y	40\$	<input type="checkbox"/>
371726	AMEX	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
537161	DISCOVER	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>
447639	VISA	Eric	US	...	Y	N	Y	40\$	<input type="checkbox"/>

PLASTIQUE SHOP

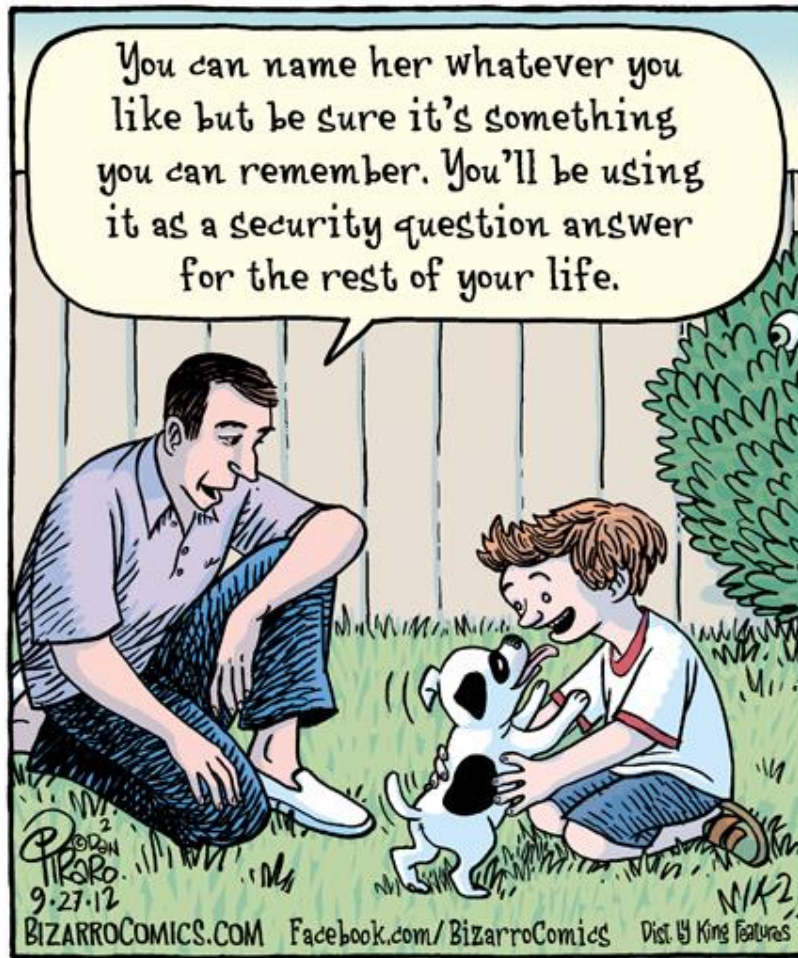
[MAIN](#) | [CHECKER](#) | [BALANCE CHECKER](#) | [Support](#) | \$0.00 | [my cards](#) | [logout](#)

Sort

NAME	TYPE	NUMBER	CV2	EXP	Co.	Addr1	City	State	ZIP	Country	\$		
Vernon *****	Visa	443460*****	***	11/2013		** Charles Street	Kew	VIC	Victoria	****	Australia	6\$	+0.4\$ show
wille *****	VISA	413821*****	***	09/2012		**** old columbia pike #****	silver spring	MD		*****	United States	2\$	+0.4\$ show check
Tony ****	AMEX	377232*****	****	10/2015		**** Rock Meadow Cir	High Point	NC		*****	United States	6\$	+0.4\$ show check
Beth *****	VISA	479370*****	***	02/2015		*** N East St	Carlisle	PA		*****	United States	3\$	+0.4\$ show check
LB *****	Visa	423954*****	***	10/2013		** Fairlie Street	Mount Gambler	SA	South Australia	****	Australia	6\$	+0.4\$ show check

http://securityresponse.symantec.com/en/ca/threatreport/topic.jsp?id=fraud_activit_y_trends&aid=underground_economy_servers





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 Verification Update

Dear Staff/Student

This message is from the Webmail IT Service messaging center due to an unusual activities identified in your webmail account. To verify your webmail account by confirming your Webmail

In order to confirm you Web-Mail identity, you are to provide the following information:

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

Please provide all these information completely and correctly.

We thank you for your prompt attention to this matter. We apologise for any inconvenience. Regards,

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 attempts 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](#)

If you choose to ignore our request, you leave your account but to temporarily suspend your account.

Thank you for using PayPal

Please do not reply to this e-mail. Mail sent to this address cannot be answered. For assistance, [log in](#) to your account and choose the "Help" link in the footer of the page.

To receive email notifications in plain text instead of HTML, update your preferences [here](#).

PayPal Email ID PP697

Protect Your Account Info

Make sure you never provide your password to fraudulent persons.

PayPal automatically encrypts your confidential information using the Secure Sockets Layer protocol (SSL) with an encryption key length of 128-bits (the highest level commercially available).

PayPal will never ask you to enter your password in an email.

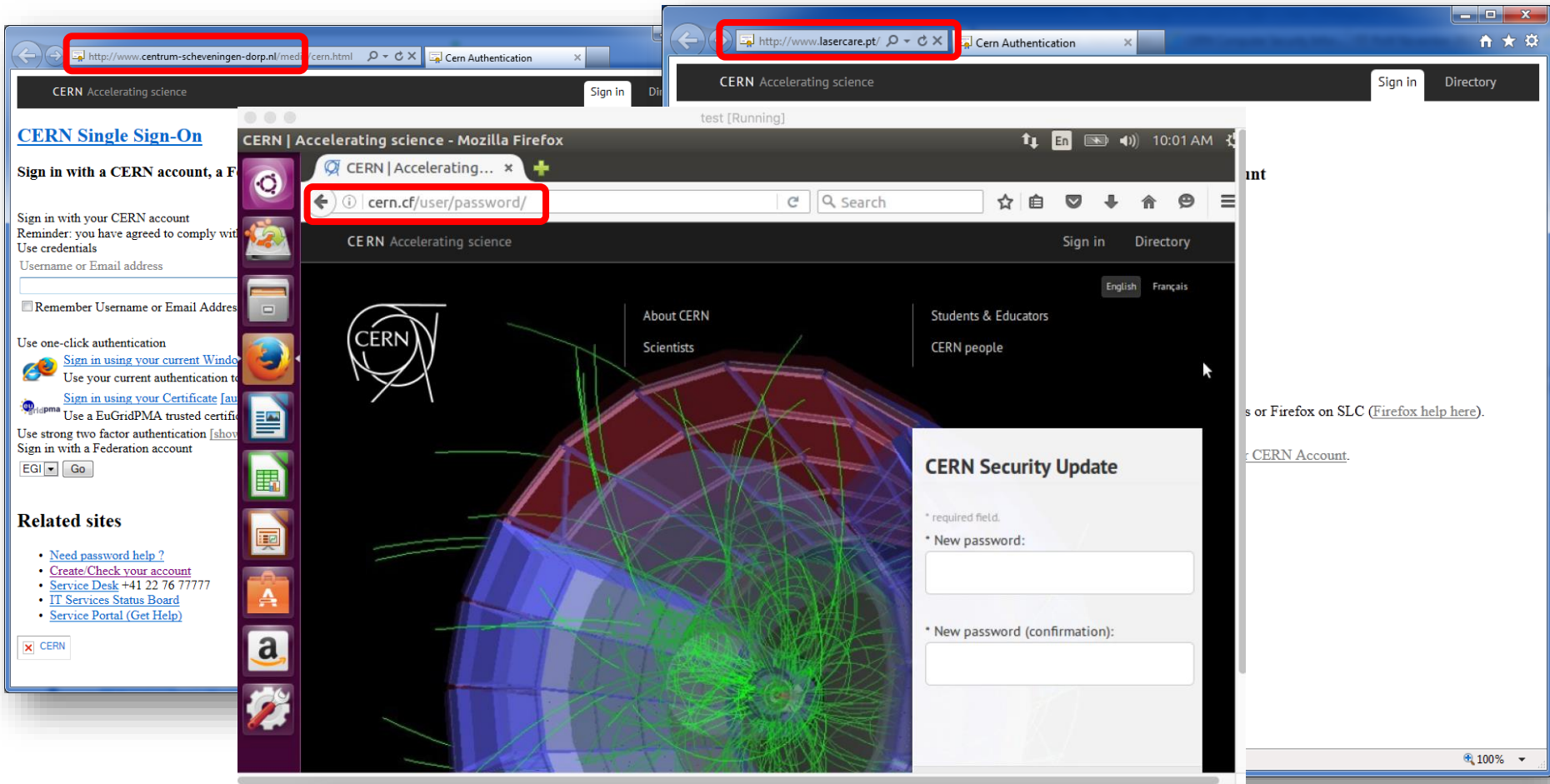
For more information on protecting yourself from fraud, please review

following page as we try to verify your identity.

[Click here to verify your account](#)

http://211.248.156.177/PayPal/cgi-bin/webscr/cmd_login.php







Others, Others

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Baby items/babycare

Services/car sharing

Others

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FAQ

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Salsa lessons

0 replies 0 ratings



Hi, I am looking for a partner either male or female to attend salsa lessons. I have a great body and enjoy rubbing it against other people on the dance floor. I would consider dinner after with the right person. If you think you can keep up with me and enjoy getting sweaty send me a reply.

Stay sexy,



#mktothers

3 hours ago ☆☆☆☆☆|0 Reply ...



Ooops, your files have been encrypted!

English

What Happened to My Computer?

Your important files are encrypted.

Many of your documents, photos, videos, databases and other files are no longer accessible because they have been encrypted. Maybe you are busy looking for a way to recover your files, but do not waste your time. Nobody can recover your files without our decryption service.

Can I Recover My Files?

Sure. We guarantee that you can recover all your files safely and easily. But you have not so enough time.

You can decrypt some of your files for free. Try now by clicking <Decrypt>.

But if you want to decrypt all your files, you need to pay.

You only have 3 days to submit the payment. After that the price will be doubled.

Also, if you don't pay in 7 days, you won't be able to recover your files forever.

We will have free events for users who are so poor that they couldn't pay in 6 months.

How Do I Pay?

Payment is accepted in Bitcoin only. For more information, click <About bitcoin>.

Please check the current price of Bitcoin and buy some bitcoins. For more information, click <How to buy bitcoins>.

And send the correct amount to the address specified in this window.

After your payment, click <Check Payment>. Best time to check: 9:00am - 11:00am GMT
From Monday to Friday

Payment will be raised on

5/15/2017 16:50:06

Time Left

02:23:34:22

Your files will be lost on

5/19/2017 16:50:06

Time Left

05:23:34:22

[About bitcoin](#)

[How to buy bitcoins?](#)

[Contact Us](#)

Send \$300 worth of bitcoin to this address:



115p7UMMngoj1pMvbkpHjicRdfJNXj6LrLn

Copy

Check Payment


Decrypt

Wed 24/06/2015 14:09

Emilie M Bogart <Emilie.Bogart@jiscs.com>

RD78 Collaboration Meeting June 29/30 2015, Jones Institute, 1st announcement

To: Stefan Lueders

 You replied to this message on 24/06/2015 15:07.

[Click here to download pictures.](#) To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Dear Collaborator:

On the last meeting in Amsterdam we decided to have the next RD78 Collaboration meeting at Jones Institute. The date is now fixed (as we proposed in Amsterdam)

time:
Monday, June, 29. and Tuesday, June, 30. in 2015

location:
CERN, 1211 Geneva 23, Switzerland

For the Collaboration meeting you find the following information:

accomodation:
Do a reservation at the CERN hostel and send mail to Emilie.Bogart@jiscs.com
or look into our web-page to find a list of other hostels
in Geneva or France.

further information.
<http://RD78.JISCS.COM/RD78/RDCERN45252GL.PDF>

Please inform us, wheather you attend the meeting, and if you like to report a topic
or want to have it discussed.

In case you are missing a colleague on this mailing list, please forward it and
let us know about the missing address, to be included in the list in future.

Network analysis report - 2015

Marina.Koritsidou <Marina.Koritsidou@perrydale.com>

Thu 07/09/2015 15:46 PM

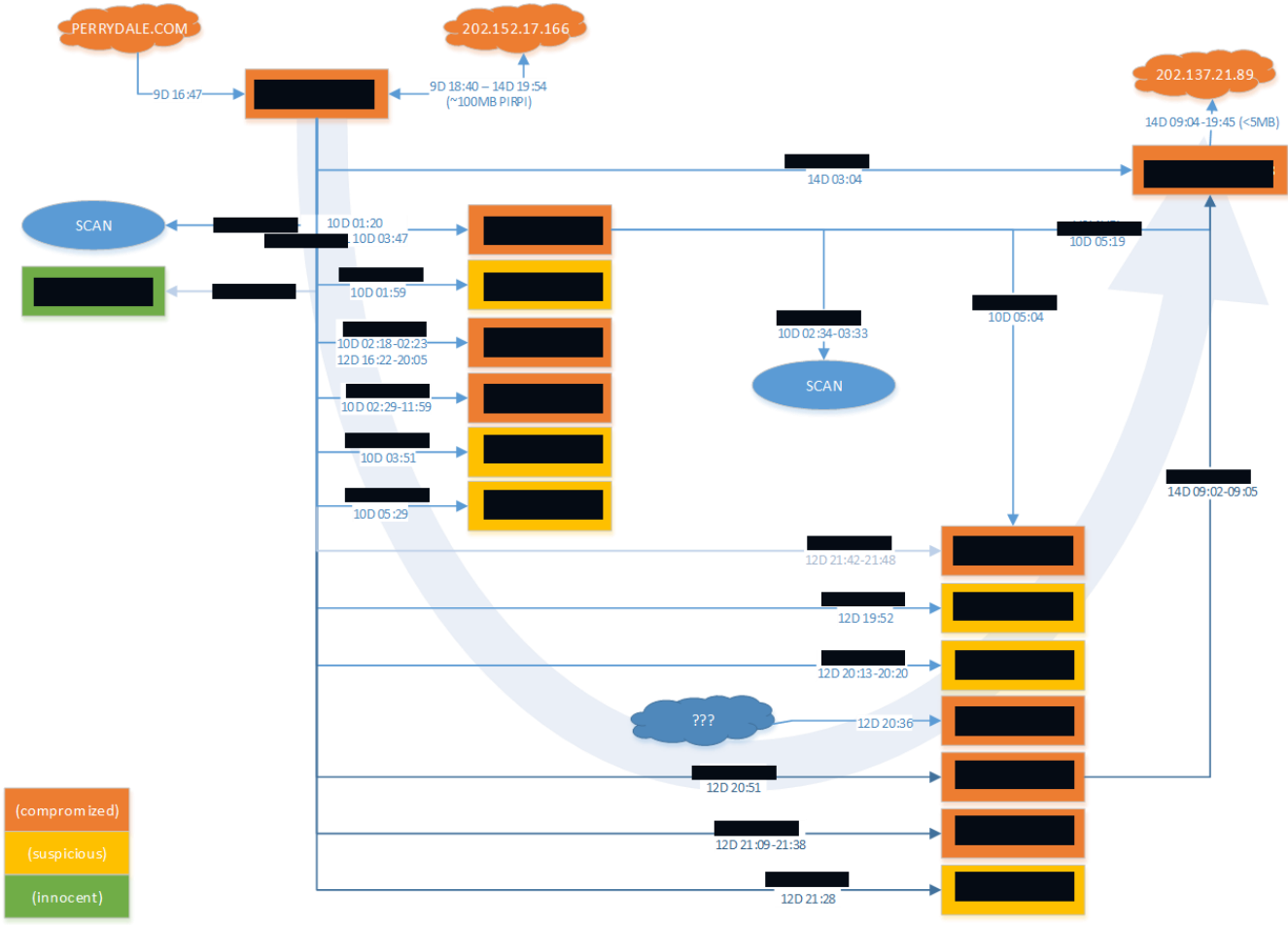
To: 

Dear.

Network analysis report - 2015.07

<http://Report.PerryDale.com/en/FAR201507.pdf>





From: CERN support
Date: Friday, 8 January 2016 11:14
To: [REDACTED]
Subject: Update failure for office 3

This is an automated test message from our new emailing system. Click [here](#) to verify if you've received this email.

Dear sir/madam,

Last night there was an Update for the o
Required actions

Due to the failure of the update some ac
Once the process is completed, you will b
Getting help

In the event of any questions or problem
Best regards,
CERN IT Department

Dear <name>,

We have identified succesful login attempts outside of our local network from the following location:
- Xiamen, China (IP address=163.177.112.32) on tuesday 5 January 2016 01:33 AM CET

Because we can not determine your cooperation with this incident we are forced to start a investigation. You will therefore be suspen
You will also receive a letter detailing the information regarding the investigation.
In order to verify and assist the investigation we would like to ask a few question regarding your account usage, please follow the fol

We await your cooperation.

Kind regards,
CERN Department IT

L'échec de mise à jour pour Office 365

Cher Monsieur, Madame,

La nuit dernière, il y avait une mise à jour pour le sy
actions requises

En raison de l'échec de la mise à jour des comptes i

Une fois le processus est terminé, vous serez en m

Obtenir de l'aide

En cas de questions ou de problèmes, s'il vous plait
Cordialement,
CERN Département IT

From: Evelyn [mailto:evelyn@cern.com]
Sent: 11 January 2016 15:29
To: [REDACTED]
Subject: Congratulations David

Dear colleagues,

Some of you might know David as the kind man he is. It has been 20 years ago since he first joined the financial department. To celebrate this moment, We've made a video for David. Click here<<http://support.x10.bz/?c=8gf3&u=01f4e8c8>> to view this video.

With kind regards,

Head administration

Evelyn

Subject: Testing of new booking system
Date: Fri, 8 Jan 2016 11:13:49 +0100
From: CERN support <support@cern.com>
To: [REDACTED]

Dear,

Over the years we've gained feedback that the current booking system is not optimal. Because of this, we wish to replace this booking system with a system that is more innovative and less tiresome. To make sure we choose a system that's better, we've chosen your department to test this system. Your account has been premade and uses the same account details as your old booking system.



Subject: FW: Testing of new booking system

Hello,

I received the email below from the mail address @cern.COM and unfortunately I clicked on the link.
What should I do?

Best Regards

To: computer.security@cern.ch
Subject: CERN Internal Audit (fwd)

This is the weirdest thing ever.
Note the domain : cern.COM ?????

Subject: Fwd: Testing of new booking system

New spam ? Looks a bit more convincing than usual :(

To: cert-snow@cern.ch
Subject: FW: Successful login attempts

This seems a very well done phishing email, using the name of "C"
Regards,

Subject: FW: Congratulations David

Hello!

I have just received this e-mail and I clicked on the link but then I realized that it was a malware.
Could you tell me if something happen Just because I click on the link but I didn't open the video of course.

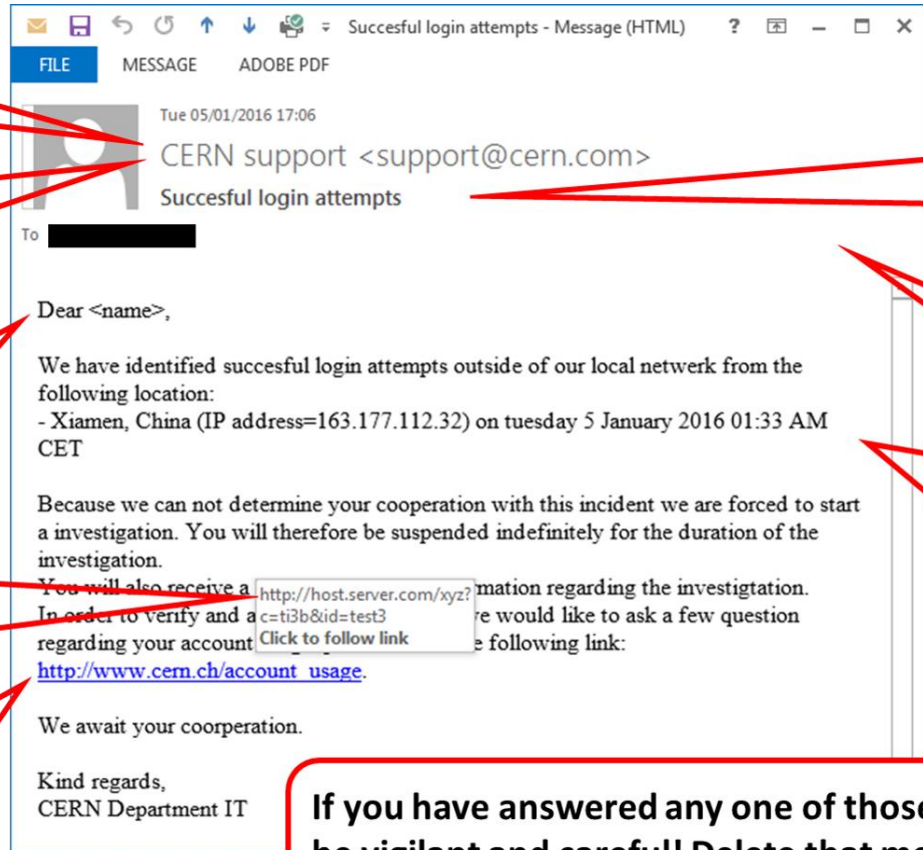
Thank you for your reply.

To: Computer.Security@cern.ch
Subject: Fw: Successful login attempts
Note to supporters: Please check the work notes.

I didn't click, but I forwarded it to a colleague and he clicked it to see the page...

I fell for this one hard! I knew most of the tricks, but somehow I didn't pay enough attention. Thank you for your efforts to keep me safe from hackers and phishing!
All the best!





Is the sender familiar to you?

Does the sender's name correspond with the shown e-mail-address?

Is the message addressed to you?

Hover your mouse pointer on top. Does the text correspond with the link?

Does the link look reasonable, is not too complex or unreadable?

Does the message concern you?
Is it one of your businesses?

Is the message signed ()?

Is the message correctly phrased, without blunt typos, in a language you are able to comprehend?

If you have answered any one of those questions with "NO" be vigilant and careful! Delete that message or check with us at Computer.Security@cern.ch when in doubt.



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Protecting Our/Your Assets

Protecting CERN's Reputation





ASHLEY MADISON®
Life is short. Have an affair.®

Get started by telling us your relationship status:

Please Select


See Your Matches

Voted the World's #1 Sex Personals with over **39.050.000** members.

Join FREE! Meet people looking to FUCK tonight!



Members Login



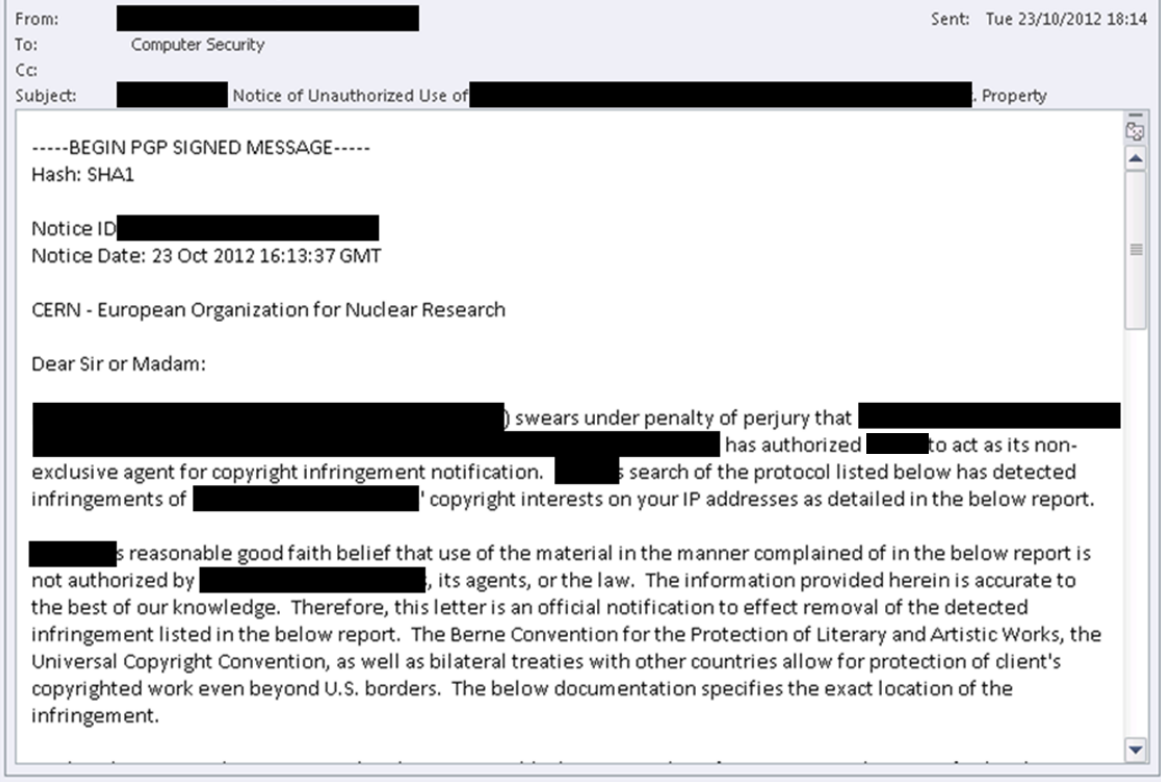
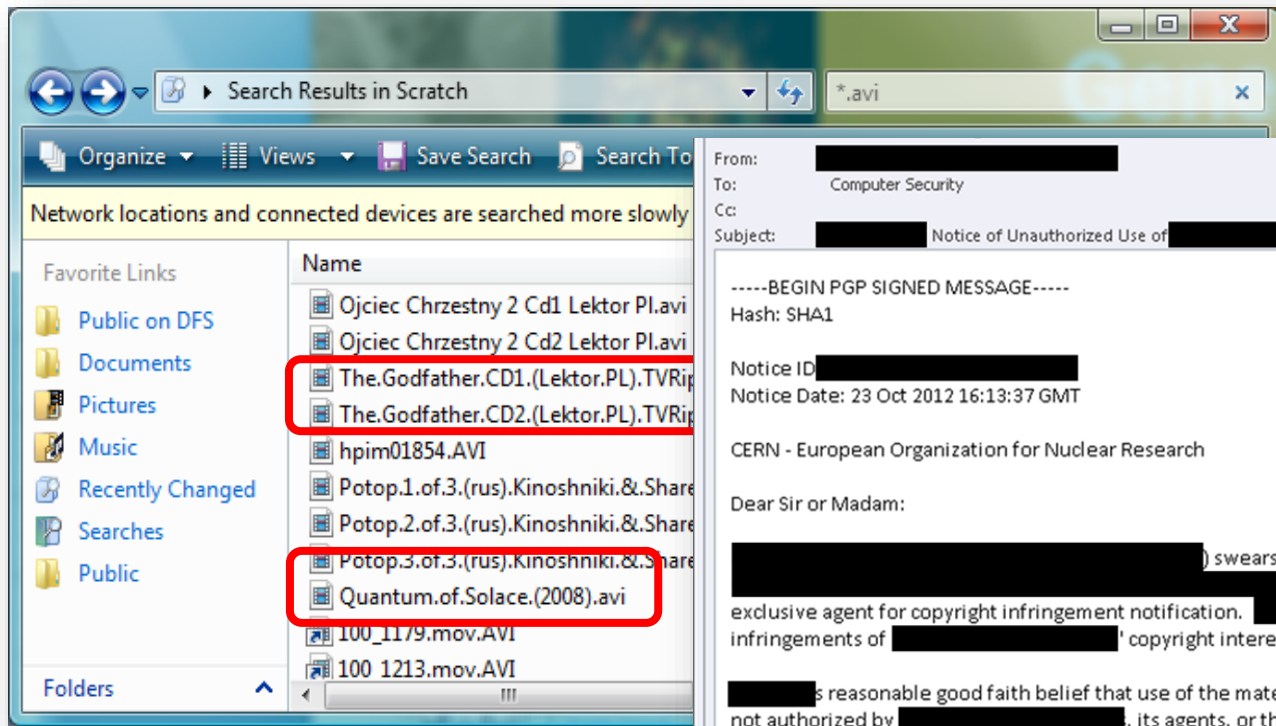
26'505 adresses ProtonMail (@protonmail.ch ou .com)
1'532 adresses GMX (@gmx.ch)
1'532 adresses Sunrise Suisse (@sunrise.ch)

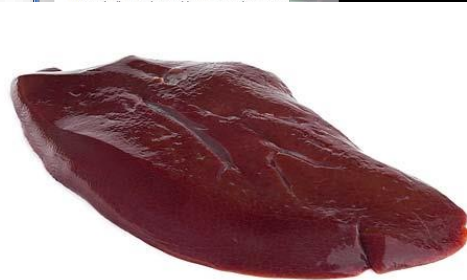
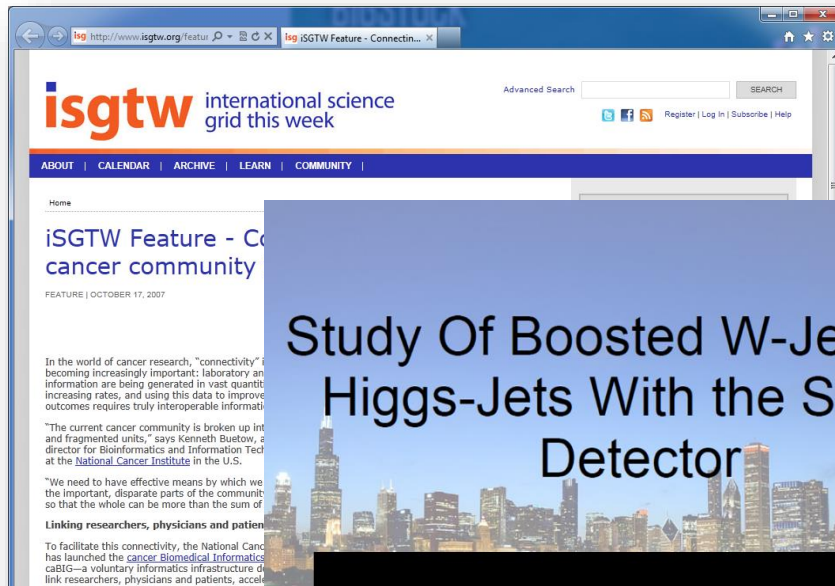
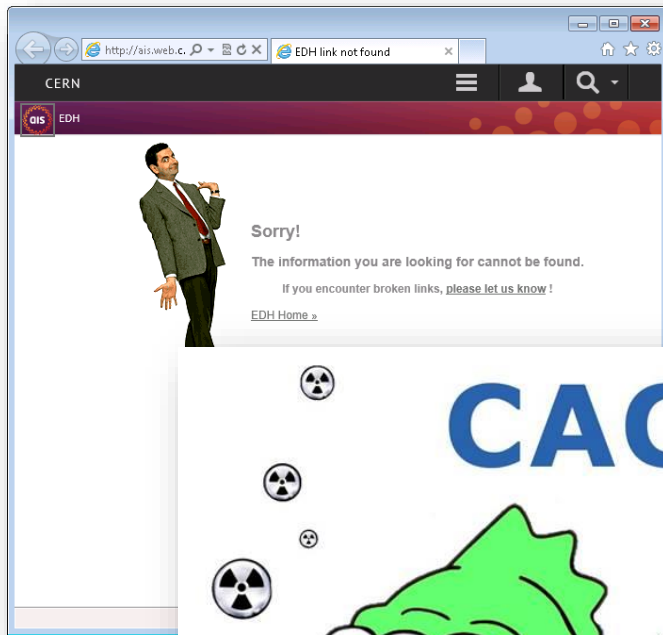
Institutions (basées en Suisse)

- 6 adresses du CERN (@cern.ch)**
- 20 adresses (au moins) des Nations Unies (@un.org)
- 11 adresses UNIL (@unil.ch)
- 2 adresses UNIGE (@unige.ch)
- 5 adresses de l'EPFL (@epfl.ch)
- 7 adresses de l'ETHZ (@ethz.ch)
- 1 adresse de la RTS (@rts.ch)

49







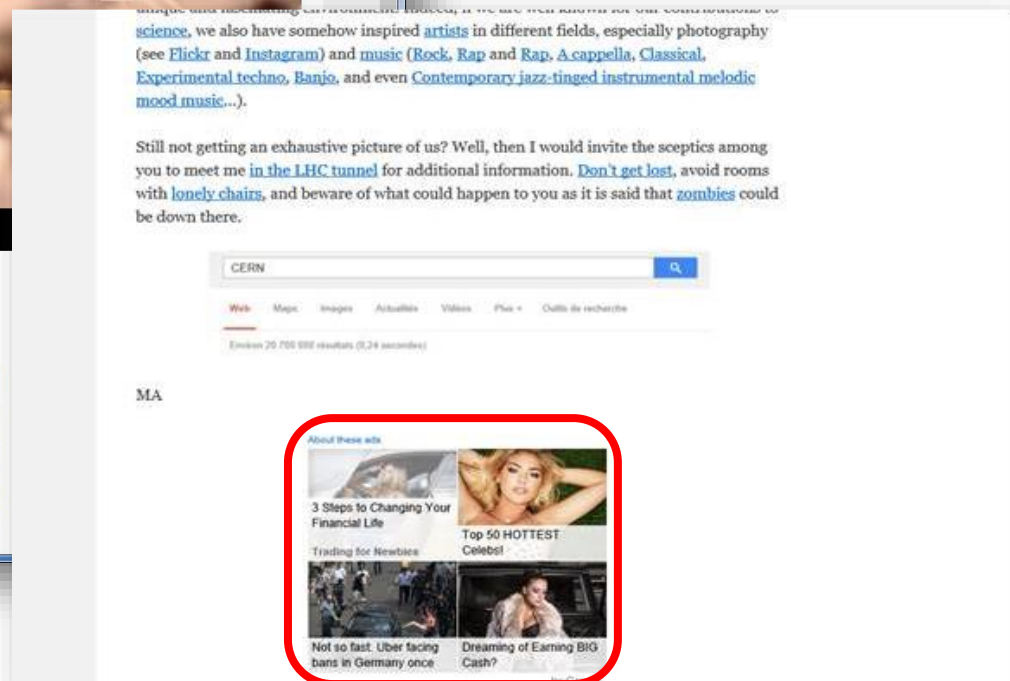
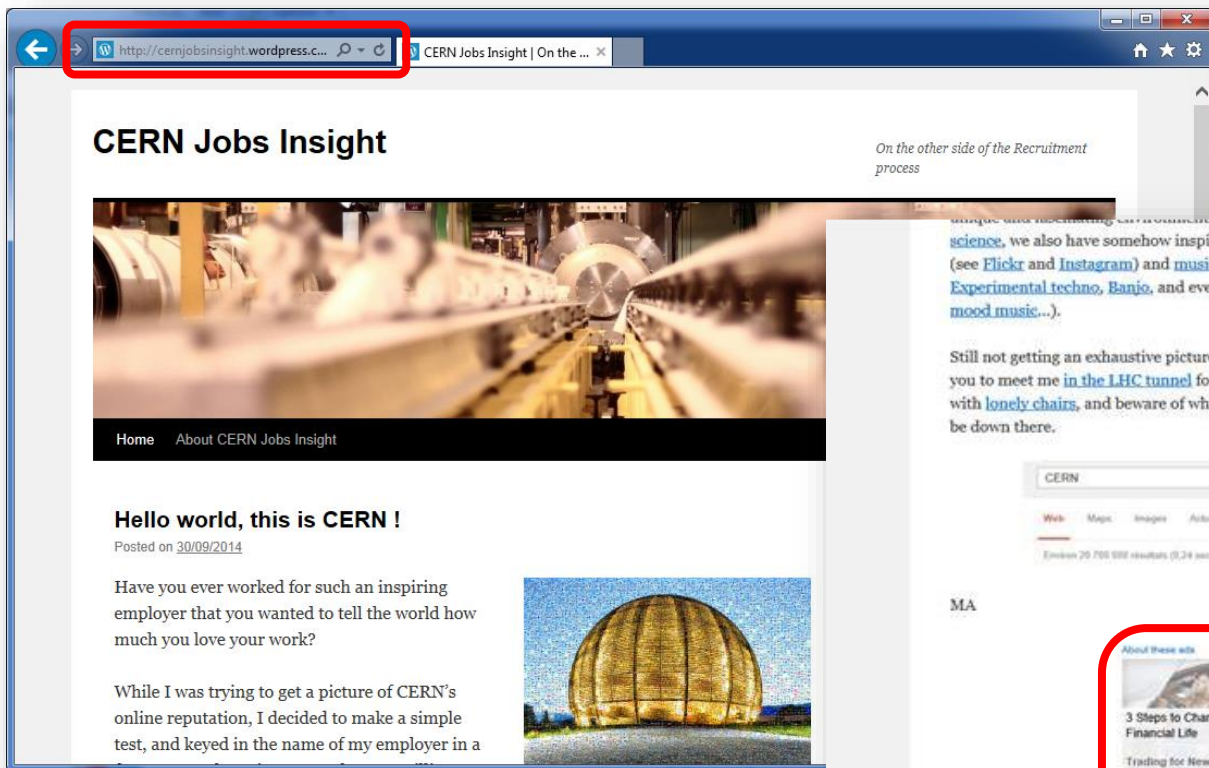
Anti-Piracy Compliance Statement

Hereby I confirm that no illegal copies of the software [REDACTED] are installed on my computers / any previously installed have been deleted completely. I am aware that further installation and usage of pirated copies will have strict legal consequences.

[REDACTED]	[REDACTED]	[REDACTED]
Date	Signature	Stamp

As supervisor of the above person I hereby confirm that I have informed my staff and subordinates that the usage of pirated software licenses / activation of unauthorized copies is a criminal act and shall not be tolerated under my supervision. I have taken active measures in my group to prevent software abuse.

Title:	Dr.
Name:	[REDACTED]
Position:	Group Head [REDACTED]
Phone/E-Mail:	+41 22 76 [REDACTED]@cern.ch



Mandate:

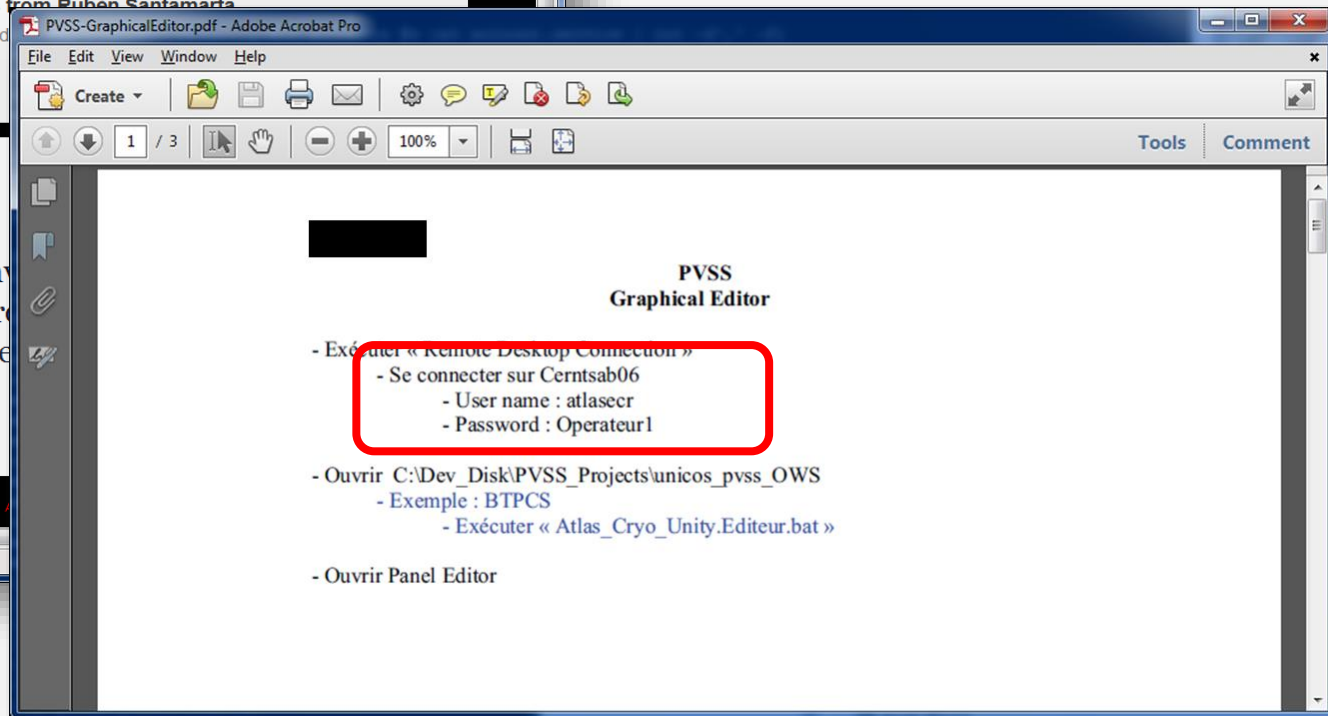
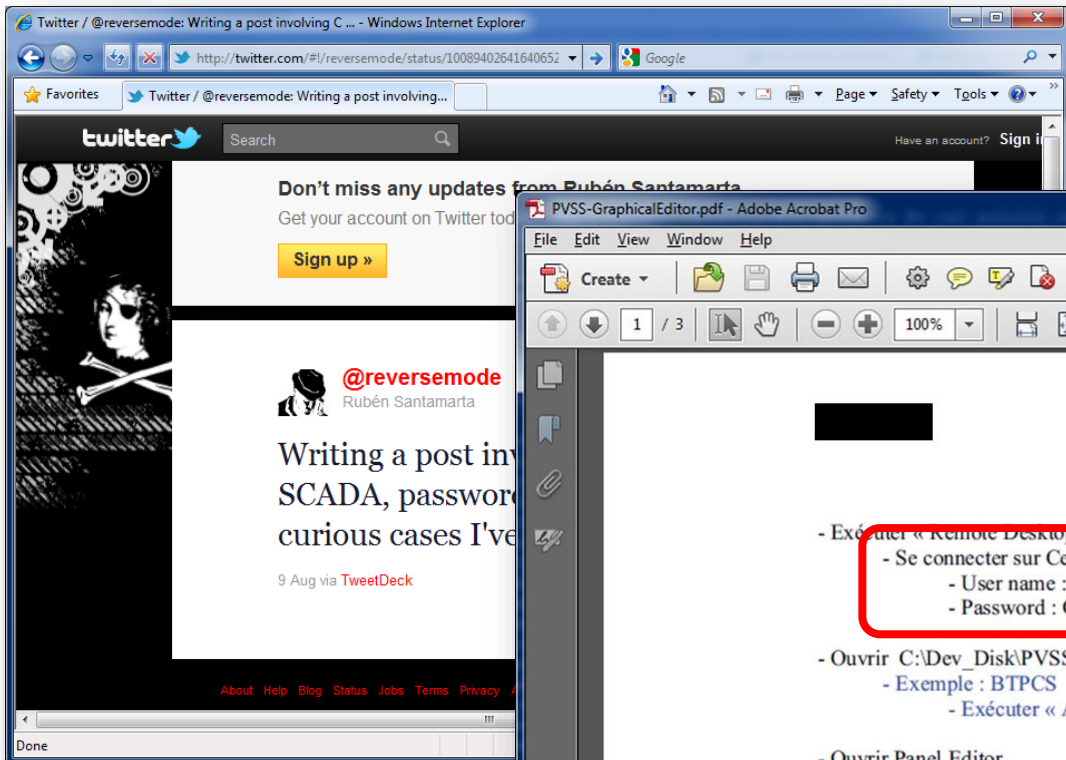
Protect the operations and reputation of CERN against cyber-threats

Protecting Our/Your Assets

Protecting CERN's Reputation

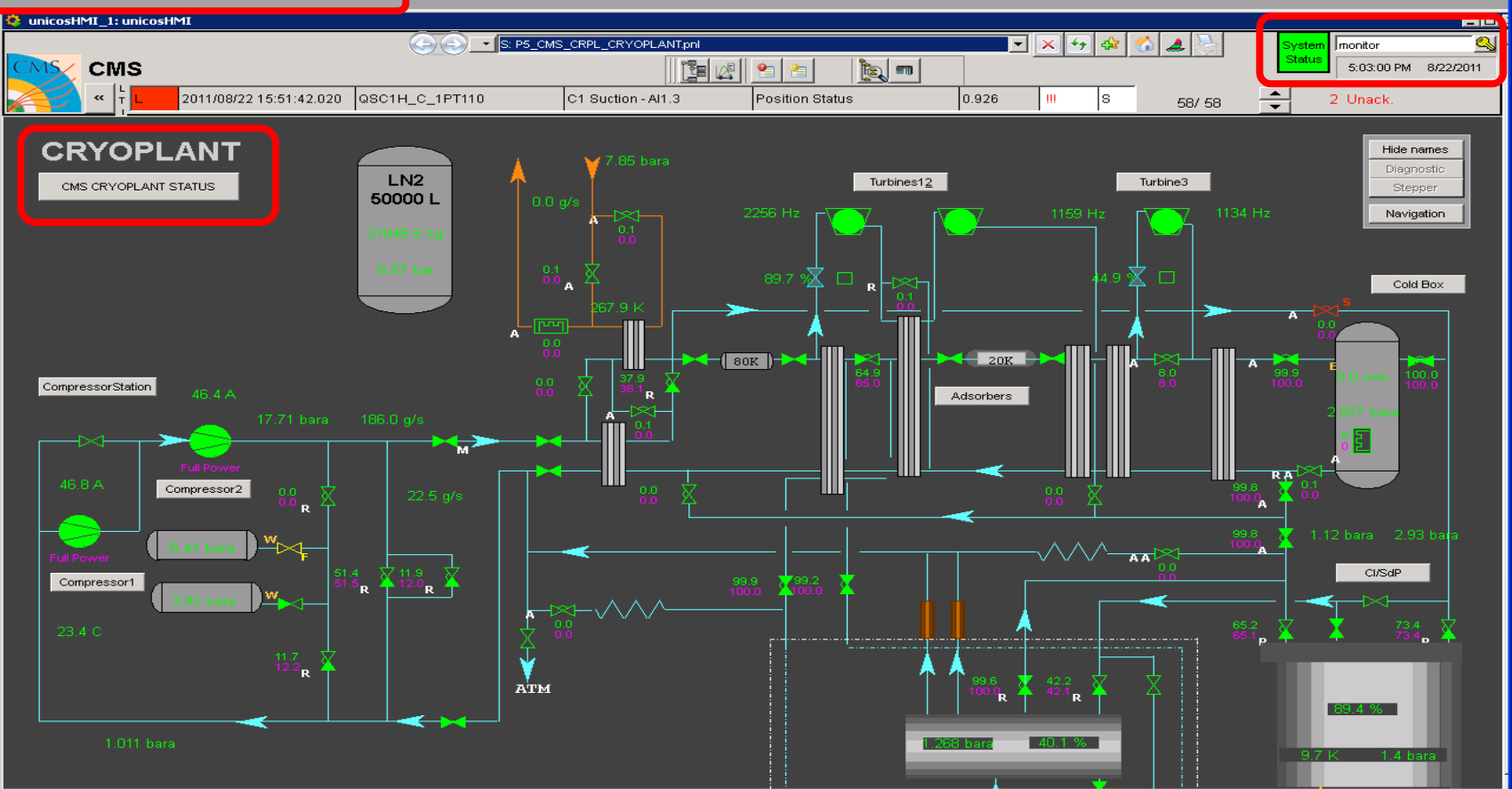
Protecting CERN's Operations





Windows taskbar and desktop icons:

- Hummingbird Connectivity
- Printkey
- Measurement & Automation
- Remote Desktop ...
- ATLAS Cryo Operation
- Security Configurati...
- Supervision Accelerateur
- Launch Inter...
- Server Administrator
- TIMBER_DA...
- cms
- Shortcut to SM18
- Server Space OD
- Calculator
- fwTrending...
- Supervision Experiences



```
https://pastebin.com/6vGZLDq [Python] import urllib.requ... x
```

PASTEBIN + new paste trends API tools faq search...

Untitled
A GUEST JUL 11TH, 2017 49 NEVER

Not a member of Pastebin yet? [Sign Up](#). It unlocks many cool features!

Python 1.00 KB raw

```
1. import urllib.request
2. import json
3. import subprocess, shlex
4.
5. private_token = [REDACTED]
6.
7. n_page = 1
8.
9. while True:
10.     request = urllib.request.Request("https://gitlab.cern.ch/api/v4/groups/[REDACTED]p
11.                                     headers={"PRIVATE-TOKEN": [REDACTED]}
12.
13.     n_page += 1
14.     all_projects = urllib.request.urlopen(request)
15.     all_projects_dict = json.loads(all_projects.read().decode())
16.     if len(all_projects_dict) == 0:
17.         break
18.
19.     for project in all_projects_dict:
20.         try:
21.             thisProjectURL = project['ssh_url_to_repo']
22.             print(thisProjectURL)
23.             command = shlex.split('git clone %s' % thisProjectURL)
24.             resultCode = subprocess.Popen(command)
```

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[REDACTED] / RateMon Watch 10 Star 3 Fork 6

Code Issues 0 Pull requests 0 Projects 0 Insights

Branch: master RateMon / sql_query_tool.py Find file Copy path

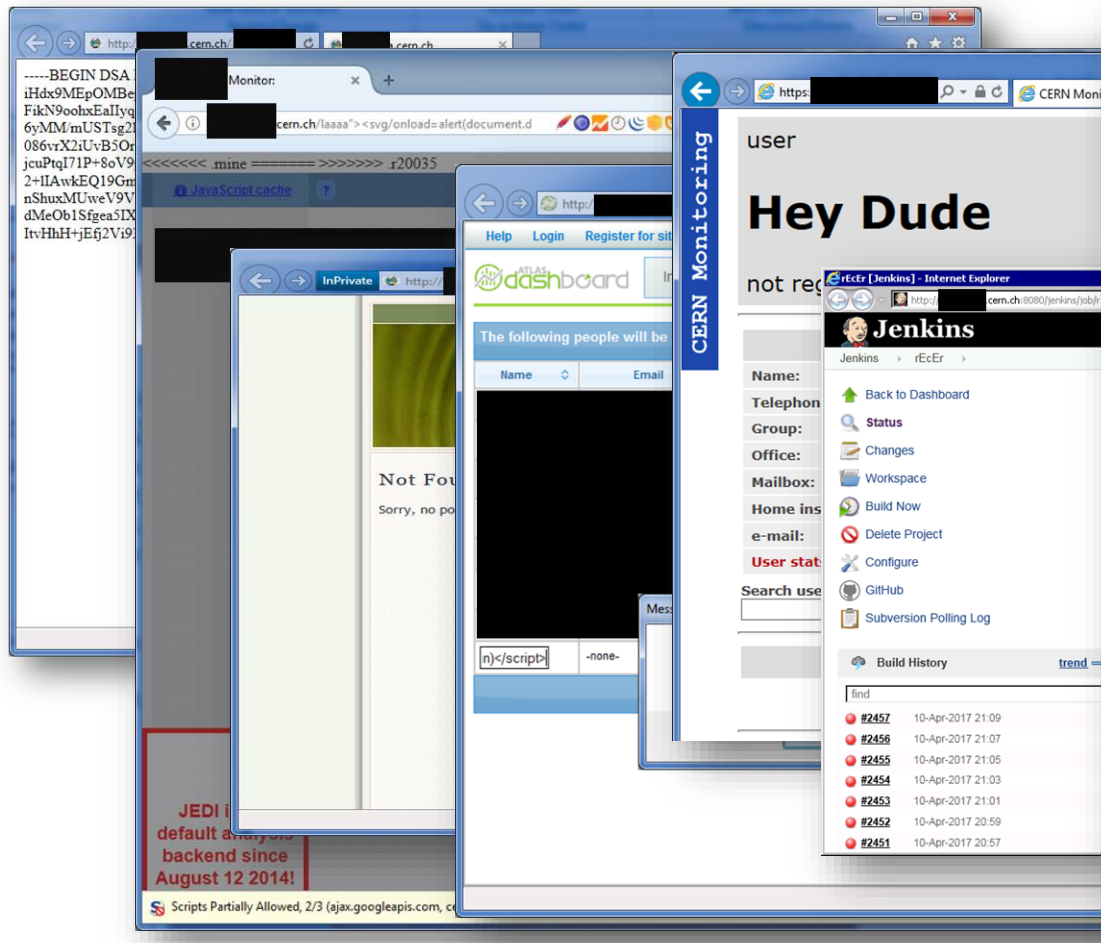
[REDACTED] adding sql debuggin query tool 8351e85 on 3 May 2016

1 contributor

38 lines (26 sloc) 1.28 KB Raw Blame History

```
1 # Imports
2 import cx_Oracle
3 import socket
4 # For the parsing
5 import re
6
7
8 class DBQueryTool:
9
10     def __init__(self) :
11         # Connect to the Database
12         hostname = socket.gethostname()
13         if hostname.find('\xplus') > -1: self.dsn_ = [REDACTED] #offline
14         else: self.dsn_ = [REDACTED] #online
15
16         orcl = cx_Oracle.connect(user=[REDACTED], password=[REDACTED], dsn=self.dsn_)
17         orcl = cx_Oracle.connect(user=[REDACTED], password=[REDACTED], dsn=self.dsn_)
18         # Create a DB cursor
19         self.curs = orcl.cursor()
20
```






J.L. Vázquez-Poletti
 @jl vazpol Follow

#FDIst: hacking in progress ;-).
 @informaticaucm @LibreLabUCM @AsciiFdi
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2:56 am - 10 Mar 2017



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https://[redacted] Google

26/11/09 ZeuL's Connect B Dumping Ar Connect

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' saved [3492005/3492005]

tar -zxvf exploit2.tgz && cd wunderbar_emporium
wunderbar_emporium/
wunderbar_emporium/pwnkernel.c
wunderbar_emporium/tzameti.avi
wunderbar_emporium/wunderbar_emporium.sh
wunderbar_emporium/exploit.c
id
uid=48(apache) gid=48(apache) groups=48(apache),50004(ticketgroup),1100241092 context=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(apache),50004(ticketgroup),1100241092 context=
root:system_r:system_mail_t
sh-3.00#
```

or Monitoring

26/11/09

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**With (academic) freedom at home and at CERN:
You are responsible for securing your assets!**

**Don't share your passwords.
Make it complex: e.g. "DeltaX*DeltaP>=h/2/pi"**

**Get a hardened PC (soon)!
Encrypt your laptop!!!**

Stop! — Think! — Don't Click!

**Don't reinvent the wheel:
Use existing services!**

**Be reasonable.
Respect the rules!**



**Ask an expert,
get a book, or
train yourself!**





Computer security emergency contact
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