

IT SECURITY AWARENESS

Experiences and Discussion on Training Strategies

Feb. 26th 2018 | Ralph Niederberger, rrn@fzj.de

JÜLICH Forschungszentrum

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SOME FACTS ILLUSTRATING JÜLICH

What has been done in the past

- Founded in Dec. 11th 1956
- Shareholder: BRD (90%) & NRW (10%)
- 2,2 square kilometers
- budget >500 M€/y incl. third party founds
- 6.500 employees
- 80 instituts coming from nine research areas
- Many projects, publications, and patents
- Several branch offices spread throughout Germany





Energy and Environment



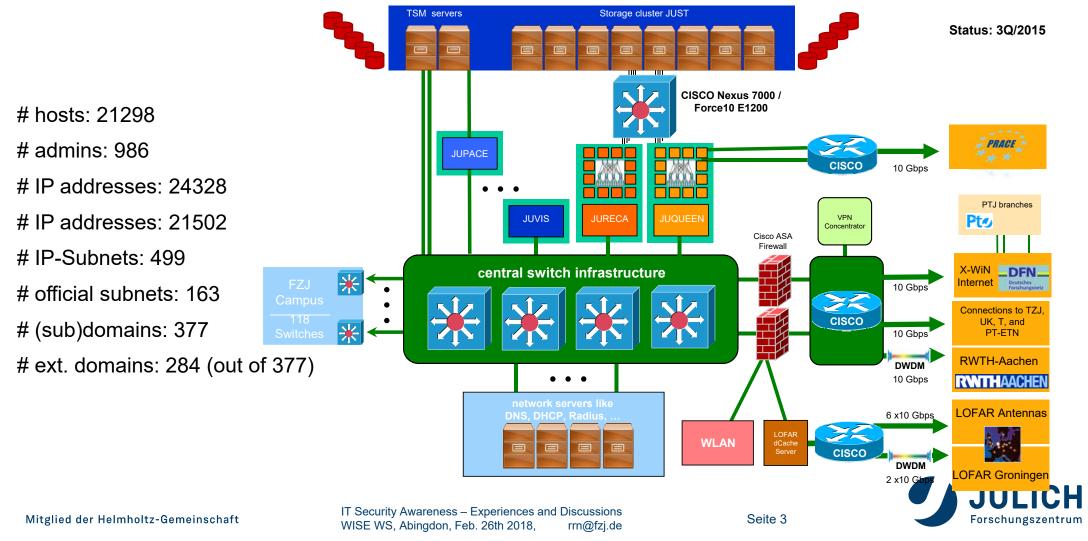
Information and the brain



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THE CAMPUS NETWORK



THE IT SECURITY AWARENESS CHALLENGE

Central question: How to make employees IT security aware?

Employees: gardener, cleaning personal,
 administrative, trading and secretary personal,
 technical personal, researchers, up to nobel price winners

Behaving and personal biases:

Nothing to find on my computer. Passwords have to be easy to remember. Anyone can know my personal data. Click on anything and "feel free"

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IT SECURITY ACTIVITIES / EVENTS AT JÜLICH

What has been done in the past

- IT security information for administrators for several years
 Replaced by IT security declaration to be signed by admins
- Phishing attacks for awareness and advertising events
- IT security presentations (always 6 times 90 minutes) last 5 years
- IT security breakfast (90 mins) 2 times (2016 and 2017)
- IT security day / Cyber Security day (2017)
- JuNet Internet Security day (14-17 afternoon) / yearly





BEING HACKED MAKES SENSITIVE

Sending two mail: a Phishing and resolution mail as invitation

"Phishing Mail" was an IT Security Test

1 October 2014.

Yesterday everyone received an e-mail from support@fz-juelich.de requesting volunteers to test Apple products. In return, the testers could keep the iPhones and iPads used in the test. In order to participate, one had to click on a link in the e-mail and then submit user name and password.

xx % of our colleagues fell for this so-called "phishing" attack and submitted their personal data. Even more – yy % - clicked on the link in the e-mail. Had the e-mail actually been from a cyber-criminal, she would now be able to misuse the sensitive data of many colleagues. However, the mail was in fact a test by our IT security management in order to raise awareness for the threat of such phishing attacks. The website linked in the e-mail was harmless and no user data was recorded or transmitted.

How phishing mails work and how they can be recognized is explained in a video in the newly designed intranet webpages on IT security:

Phishing Video

Hacking-Day on November 5th 2014

Cyber attacks on companies are increasing steadily and the Forschungszentrum is no exception. Successful attackers can access sensitive research and employee data. Thus, it's important to know the threats and how to defend oneself. At the Hacking Day on Nov. 5th in the large auditorium of the central library ZB, IT security experts will give live demonstrations of how cyber attackers forge e-mails or crack passwords.

As part of the IT-Security Awareness Campaign, the intranet webpages on IT security were redesigned. They give users and administrators assistance and numerous tips on how to use the network securely.

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IT SECURITY AWARENESS IN THE WEB

The web info for

- users -
- administrators

Info on

- contact persons
- hints for practice
- documentation
- videos and e-learnings

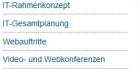
Links to

- IT security guidline
- and IT security rules
- basic protection for guests

IT-THEMEN IT-Standards IT-Sicherheit 5 Für Anwender ~ E-Mail und Phishing Sichere Passwörter Viren und Trojaner Cloud und Social Media Ransomware Zu Hause und unterwegs Für Administratoren

Ansprechpartner Dokumentation Videos und E-Learnings Praxistipps SecurityINFO Aktuell Cyber Security Day 2017

Datenschutz IT-Strategie



SERVICE Selfservice

Stichwortliste IT-Belande

Tipps für die sichere Nutzung der IT Technische Lösungen funktionieren nur, wenn Mitarbeiterinnen und Mitarbeiter

umgehen. Auf diesen Seiten sind die wichtigsten Verhaltensregeln, Tipps und Tricks im sicheren Umgang mit den IT-Systemen des Forschungszentrums zusammengestellt

sowie Führungskräfte sie korrekt anwenden und nicht - bewusst oder unbewusst



-----Sichere Passwörter

→ Tipps für den Umgang mit Passwörtern Password

Login

Viren und Trojaner

im Ernstfall

Schutz gegen Viren und Trojaner

Ransomware → Schutz vor Erpressungssoftware und Verhalten

Cloud und Social Media

→ Hinweise zur sicheren Nutzung von Cloud Diensten und Sozialen Netzwerken

Zu Hause und Unterwegs

→ IT-Sicherheit zu Hause und Unterwegs



M IT-Sicherheitsrichtlinie des Forschungszentrums Jülich (PDF, 467 KB) 3 IT-Sicherheitsregeln für den

Notfall

6440

(0)

FZJ-CERT

NOTFALL?

ist zu tun?

VIDEOS

platziert

- Grundschutz (PDF, 122 KB) Merkblatt IT-Grundschutz für Gäste (PDF, 60 KB)
- S Folien der Informationsveranstaltung zur IT-Sicherheit 2014 (PDF,
- 988 KB) D Weitere Dokumente IT-Sicherheit

ENGLISH VERSION

This site in english

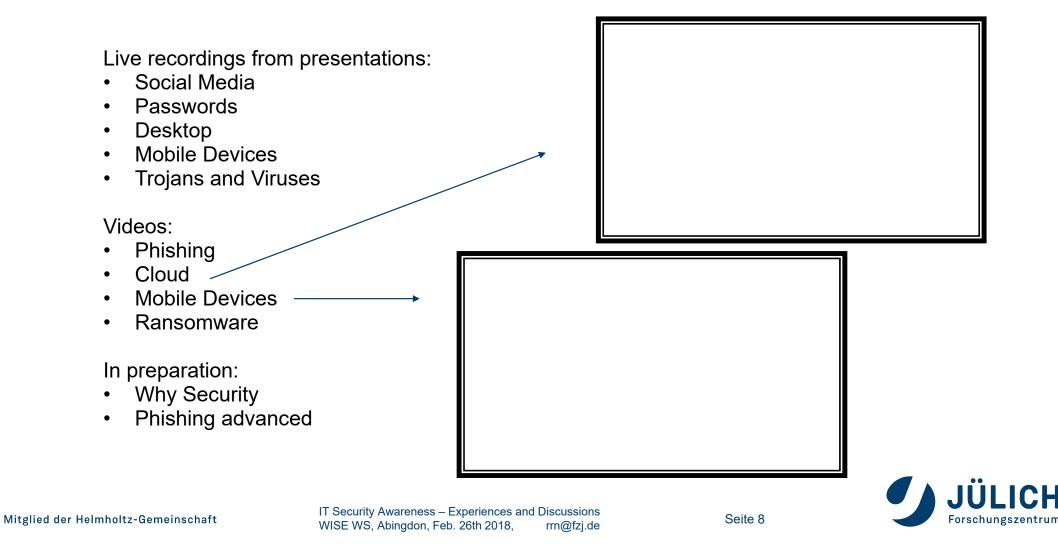


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IT SECURITY VIDEOS ON JÜLICH WEB PAGE



IT SECURITY AWARENESS – ADVERTISING EVENTS

🕗 JÜLICH Hacking Day Reloaded im Forschungszentrum Jülich am 23. Juni 2015 im großen Hörsaal der ZB Passwort knacken D3D4I Trojaner bauen 207 Phishing E-Mail A69 704E5B237 206B6 375E2C6 6572 656967202 8666 B6 2 D 3 D 4 A (E-Mail Absender fälschen 682 Hacking Slots 09:00 - 09:45 Uhr 13:00 - 13:45 Uhr 10:00 - 10:45 Uhr 2:00 - 2:45 p.m. (english) 11:00 - 11:45 Uhr 15:00 - 15:45 Uhr



 18. August
 19. August
 20. Oktober
 21. Oktober

 09:30 - 12:00 Uhr
 09:30 - 12:00 Uhr
 09:30 - 12:00 Uhr
 09:30 - 12:00 Uhr

 13:30 - 16:00 Uhr
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 13:30 - 16:00 Uhr

IT-Security Awareness Kampagne 2015: ein Projekt von IKM, JSC und UK http://intranet.fz-juelich.de/IT-Sicherheit Coffee Break Cyber Security Thema "E-Mail" – so schützen Sie sich ! 21. Juni 2016 im Seecasino, 9:00 – 10:00 Uhr



Alle Mitarbeiterinnen und Mitarbeiter sind eingeladen! Bringen Sie Ihr Frühstück mit. Wir sorgen für den Kaffee.

Nächster Coffee Break "Mobile Geräte" im September 2016.

IT-Security Awareness Kampagne 2016: ein Projekt von IKM, JSC und UK http://intranet.fz-juelich.de/IT-Sicherheit

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Advertisement

- Posters within campus
- Flyers in post box and at lunch locations
- Newsletter
- Intranet web pages





am 21. September 2017 von 9:00 Uhr bis 16:00 Uhr im Foyer der ZB Alle Infos im Intranet

IT-Security Awareness Kampagne: ein Projekt von IKM, JSC und UK http://intranet.fz-juelich.de/IT-Sicherheit

Wechselnde Vorträge + Livedemos + Experten-Stände + Interaktiver Infopoint

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Presentations and booths

Presentations:

- "Cyber security Breakfast": Detect and defend phishing (incl. President Scam)
- Federal Office of Cyber security: Travels abroad and related risks
- Cloud / "Personal Outsourcing"
- Protecting your smartphones
- Trojans and Viruses
- · Cracking passwords and how to secure
- Security @ Home: Net and PC (Wireless, router, child protection, antivirus, updates, etc.

Booths "Meet the expert"

- FZJ-CERT
- Protecting mobile devices
- Cyber security in general
- Physical security

Learning stations / mini e-learning / videos

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Some impressions



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More impressions







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WHAT NEXT

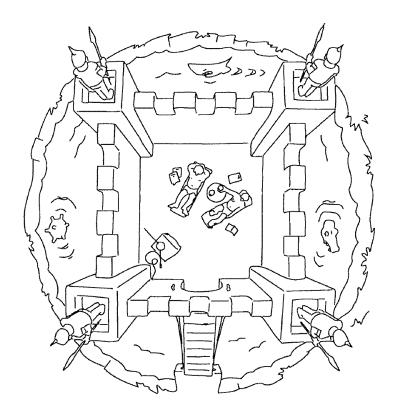
- PC drivers licence for local users and administrators?
- IT security awareness for community users?
- More videos, moodles, info material?
- Webinars, presentations by external security expert?
- Working together with others with similar problems...



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DISKUSSIONS



"Sure, I'm paranoid.

But am I paranoid enough? "

The Security manager

Internet - Everyday

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