



Welcome to

It-sikkerhedsupdate

2019

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Slides are available as PDF, kramse@Github
it-sikkerhedsupdate-2019-short.tex in the repo security-courses

slides are available on Github

Formålet idag



FreeFoto.com

Hvad skal en ansvarlig it-sikkerhedsstrategi være for 2019. Hvilke emner er de vigtigste, og hvad er truslerne, hvis man ikke straks kommer i gang med de 10 vigtigste punkter.

- Planen for idag:
- 1 timer, med pauser
- Inspiration til at løse opgaverne, prioritere opgaverne
- ... har desværre ikke løsningerne til allesammen skræddersyet til jer

Happy New Year 2019



- Same problems
- Repeat last year?
- ... or try something new!
- 2019 will become a nightmare of break-ins and data leaks
- GDPR is here and the snow ball is rolling



Try not to panic, but there are lots of threats

Paranoia defined



par·a·noi·a

/parə'noiə/ ◄)

noun

noun: paranoia

1. a mental condition characterized by delusions of persecution, unwarranted jealousy, or exaggerated self-importance, typically elaborated into an organized system. It may be an aspect of chronic personality disorder, of drug abuse, or of a serious condition such as schizophrenia in which the person loses touch with reality.
synonyms: persecution complex, delusions, obsession, psychosis More
- suspicion and mistrust of people or their actions without evidence or justification.
"the global paranoia about hackers and viruses"

Origin

GREEK

para
irregular

GREEK

MODERN LATIN

GREEK
noos
mind

paranoos
distracted

early 19th cent.

More

Source: google paranoia definition

Hackers don't give a shit

Your system is only for testing, development, ...

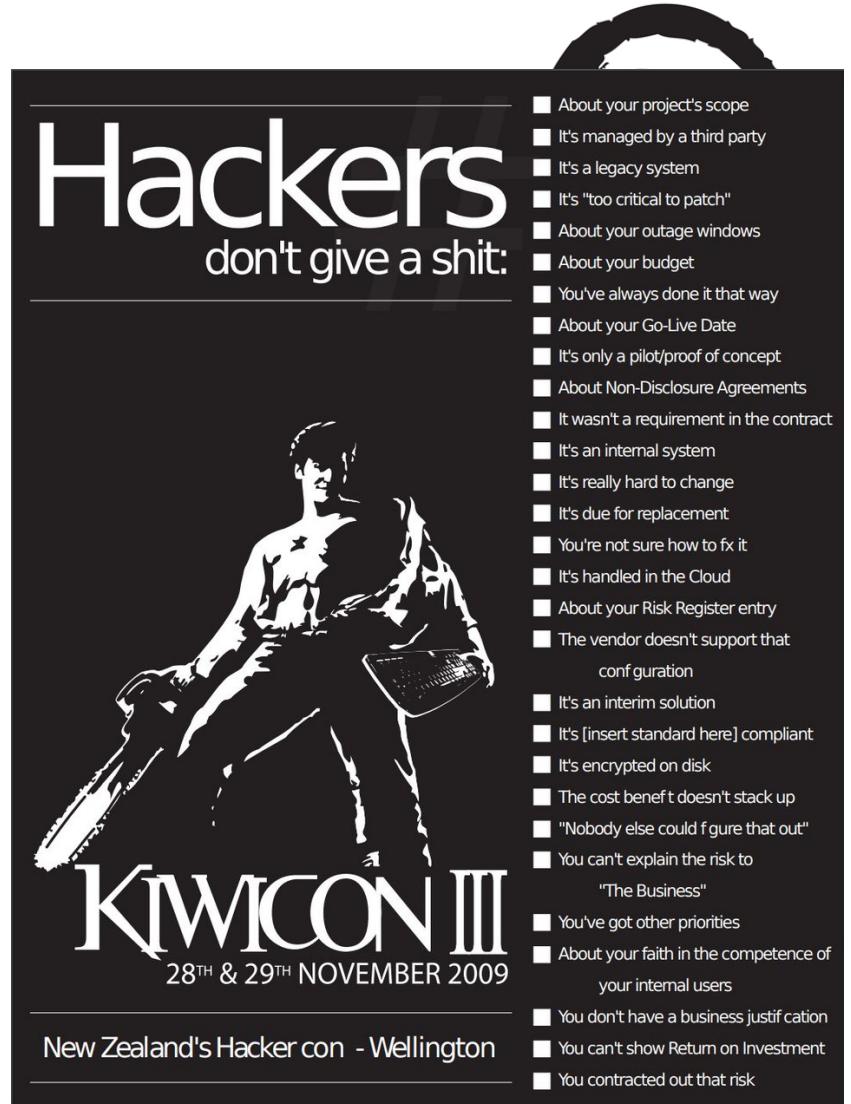
Your network is a research network, under construction, being phased out, ...

Try something new, go to your management

Bring all the exceptions, all of them, update the risk analysis figures - if this happens it is about 1mill DKK

Ask for permission to go full monty on your security

Think like attackers - don't hold back



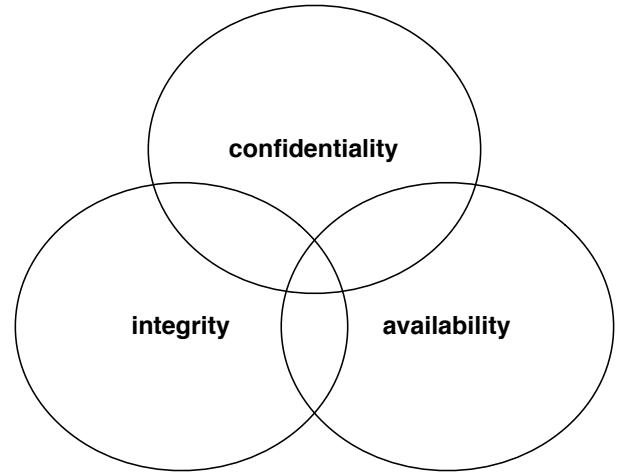
Hackers don't give a shit:

- About your project's scope
- It's managed by a third party
- It's a legacy system
- It's "too critical to patch"
- About your outage windows
- About your budget
- You've always done it that way
- About your Go-Live Date
- It's only a pilot/proof of concept
- About Non-Disclosure Agreements
- It wasn't a requirement in the contract
- It's an internal system
- It's really hard to change
- It's due for replacement
- You're not sure how to fix it
- It's handled in the Cloud
- About your Risk Register entry
- The vendor doesn't support that configuration
- It's an interim solution
- It's [insert standard here] compliant
- It's encrypted on disk
- The cost benefit doesn't stack up
- "Nobody else could figure that out"
- You can't explain the risk to "The Business"
- You've got other priorities
- About your faith in the competence of your internal users
- You don't have a business justification
- You can't show Return on Investment
- You contracted out that risk

KIWICON III
28TH & 29TH NOVEMBER 2009

New Zealand's Hacker con - Wellington

Confidentiality Integrity Availability



We want to protect something

Confidentiality - data holdes hemmelige

Integrity - data ændres ikke uautoriseret

Availability - data og systemet er tilgængelige når de skal bruges

Security engineering som job rolle



On any given day, you may be challenged to:

- Create new ways to solve existing production security issues
- Configure and install firewalls and intrusion detection systems
- Perform vulnerability testing, risk analyses and security assessments
- Develop automation scripts to handle and track incidents
- Investigate intrusion incidents, conduct forensic investigations and incident responses
- Collaborate with colleagues on authentication, authorization and encryption solutions
- Evaluate new technologies and processes that enhance security capabilities
- Test security solutions using industry standard analysis criteria
- Deliver technical reports and formal papers on test findings
- Respond to information security issues during each stage of a project's lifecycle
- Supervise changes in software, hardware, facilities, telecommunications and user needs
- Define, implement and maintain corporate security policies
- Analyze and advise on new security technologies and program conformance
- Recommend modifications in legal, technical and regulatory areas that affect IT security

Source: <https://www.cyberdegrees.org/jobs/security-engineer/>

also https://en.wikipedia.org/wiki/Security_engineering

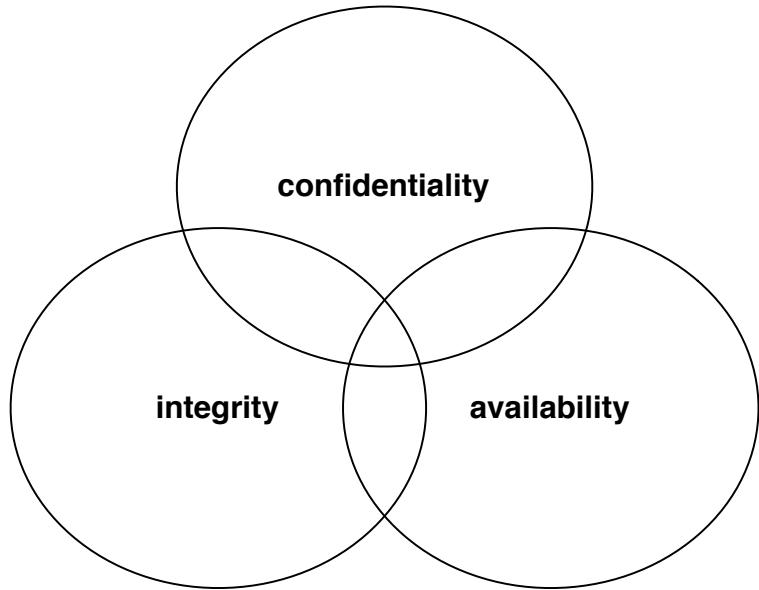
Fokus 2019



- Brugerstyring
- Asset management
- Laptop sikkerhed
- VPN alle steder
- Penetration testing
- Firewalls og segmentering
- TLS og VPN indstillinger
- DNS og email
- Syslog og monitorering
- Incident Response og reaktion

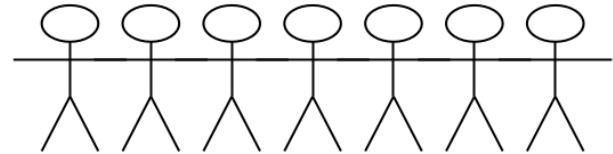
Håber ikke I er alene om det, ellers vælg et par stykker ad gangen

Fokus 2019: Brugerstyring



- Relevant for alle organisationer
- Er måden vi sikrer godkendte brugere kan udføre opgaver
- Kodeord bruges til at forhindre uautoriseret adgang

Brugerstyring



- Har I styr på brugerid?
- Hvor er brugere oprettet?
- Hvor hurtigt kan I fjerne "een bruger" eller "deaktivere en bruger" alle steder!
- Er det et kludetæppe - ja, mange steder er det

Du er FYRET!!!!

Centraliseret brugerstyring



Active Directory, mange danske virksomheder bruger det
LDAP central brugerstyring

... men brug det endnu mere

- Konfigurer applikationer til central styring
- Fjern applikationer som ikke tillader central styring
- Overvågning på fejlslagne logins, og godkendte logins

Generelt minimer brugere andre steder end i den centrale database

Hvad med ILO, DRAC, temperaturovervågning - en fælles password database, med begrænset adgang, måske?

Passwords vælges ikke tilfældigt



The 50 Most Used Passwords

- | | | | | |
|--------------|--------------|----------------|--------------|-------------|
| 1. 123456 | 11. 123123 | 21. mustang | 31. 7777777 | 41. harley |
| 2. password | 12. baseball | 22. 666666 | 32. f*cky*u | 42. zxcvbnm |
| 3. 12345678 | 13. abc123 | 23. qwertyuiop | 33. qazwsx | 43. asdfgh |
| 4. qwerty | 14. football | 24. 123321 | 34. jordan | 44. buster |
| 5. 123456789 | 15. monkey | 25. 1234...890 | 35. jennifer | 45. andrew |
| 6. 12345 | 16. letmein | 26. p*s*y | 36. 123qwe | 46. batman |
| 7. 1234 | 17. shadow | 27. superman | 37. 121212 | 47. soccer |
| 8. 111111 | 18. master | 28. 270 | 38. killer | 48. tigger |
| 9. 1234567 | 19. 696969 | 29. 654321 | 39. trustno1 | 49. charlie |
| 10. dragon | 20. michael | 30. 1qaz2wsx | 40. hunter | 50. robert |

Source: <https://wpengine.com/unmasked/>

Your data has already have been owned by criminals



The screenshot shows a web browser window with the URL <https://haveibeenpwned.com>. The main heading is '';--have i been pwned?' in a large white font on a blue background. Below it is a subtitle 'Check if you have an account that has been compromised in a data breach'. A search bar contains the email address 'hlk@kramse.org'. To its right is a dark blue button labeled 'pwned?'. Below the search bar, the response is displayed on a red background with the text 'Oh no — pwned!' in white. Underneath, it says 'Pwned on 7 breached sites and found no pastes (subscribe to search sensitive breaches)'. The browser interface at the top includes standard navigation icons and a lock symbol indicating a secure connection.

Your data is already being sold, and resold on the Internet

Stop reusing passwords, use a password safe to generate and remember

Check your own email addresses on <https://haveibeenpwned.com/>

Go ahead try the web site - hold up your hand if you are in those dumps

Brug mere sikre passwords



Pwned Passwords overview

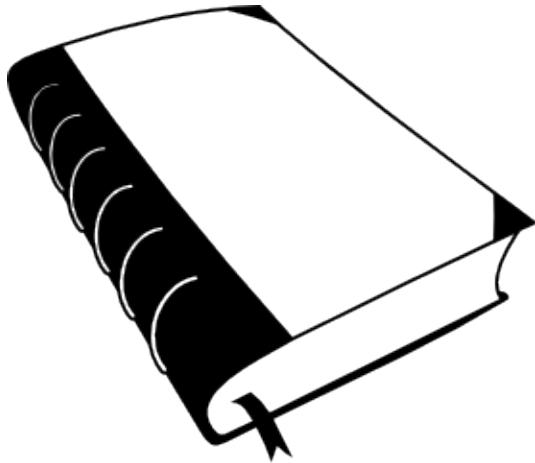
Pwned Passwords are more than half a billion passwords which have previously been exposed in data breaches. The service is detailed in the launch blog post then further expanded on with the release of version 2. The entire data set is both downloadable and searchable online via the Pwned Passwords page.

I kan forhindre brugere i at vælge passwords der ALLEREDE er lækket

I kan bruge deres API eller download

<https://www.troyhunt.com/introducing-306-million-freely-downloadable-pwned-passwords/>

Fokus 2019: Asset management



Free graphics by Lumen Design Studio

- Specielt relevant for mellemstore til store organisationer
- Hvilke assets har vi?
- Hvordan sikrer vi at vi ikke mister værdierne

Hvad er asset management



CIS Control 1:

Inventory and Control of Hardware Assets Actively manage (inventory, track, and correct) all hardware devices on the network so that only authorized devices are given access, and unauthorized and unmanaged devices are found and prevented from gaining access.

Source: <https://www.cisecurity.org/>

- Hardware - både indkøbte, opkoblede, udlånte, stjålne ...
- Software - licenser, indkøb, brug, opgraderingspriser
- Virtuelle arkiver
- ...

Hardware asset management



The screenshot shows the RackTables 0.17.0 main page. At the top, it displays "Hello, RackTables Administrator. This is RackTables 0.17.0. Click here to logout". Below this is a search bar labeled "Search". The main area features several management links with corresponding icons:

- Rackspace**: Represented by a rack unit icon.
- Objects**: Represented by a stack of papers icon.
- IPv4 space**: Represented by a vertical stack of IP address blocks icon.
- Files**: Represented by a folder icon.
- Configuration**: Represented by two wrenches icon.
- Reports**: Represented by a line graph icon.
- IPv4 SLB**: Represented by a stack of server racks icon.

- Der findes mange systemer
- Det anbefales at bruge specialiserede systemer, a la RackTables:
Have a list of all devices you've got, Have a list of all racks and enclosures, Mount the devices into the racks, Maintain physical ports of the devices and links between them

Software asset management - virtuelle arkiver



Flere detaljer i gigantisk hotel-hack: 5,25 mio. ukrypterede pasnumre taget
Jakob Møllerhøj | Sikkerhed | 07. jan 2019

7,6 millioner spillerkonti løkket fra populært onlinespil
Niels Møller Kjemstrup | Sikkerhed | 07. jan 2019

Største løk i tysk historie: Politikeres og kunstneres data smidt på nettet
Morten Egedal | Sikkerhed | 04. jan 2019

Gentleman-aftale mellem politiske partier skal danne mur mod dataløk, hacking og fake news
Louise Holst Andersen | Sikkerhed | 04. jan 2019

Boligfond beklager løk af følsomme persondata: En menneskelig fejl
Sikkerhed | 28. dec 2018

- Software - licenser, indkøb, brug, opgraderingspriser
- Virtuelle maskiner - er en server et asset, eller er det data?
- IP adresser
- Data arkiver - GDPR

Fokus 2019: Laptop sikkerhed



- Relevant for alle
- Hvordan sikrer vi at vi ikke mister værdierne, hardware og data typisk

Secure Laptops



- Laptops (og mobile enheder)
- Hvad kendetegner en laptop?
- Hardware naturligvis, en Macbook koster officielt mere end en brugt mellemklassebil
- - og husk brugen af laptops
- Er laptops sikre, og hvad betyder det?

Are your data secure - data at rest



Ipsum dolor sit amet, consectetur adipiscing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. At vero eos et accusamus et iusto odio dignissim qui blandit est praesent. Et harum dolor sit amet, consectetur adipiscing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. At vero eos et accusamus et iusto odio dignissim qui blandit est praesent. Et harum dolor sit amet, consectetur adipiscing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. At vero eos et accusamus et iusto odio dignissim qui blandit est praesent. Et harum dolor sit amet, consectetur adipiscing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. At vero eos et accusamus et iusto odio dignissim qui blandit est praesent. Et harum dolor sit amet, consectetur adipiscing elit, sed eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. At vero eos et accusamus et iusto odio dignissim qui blandit est praesent.

Stolen laptop, tablet, phone - can anybody read your data?

Do you trust "remote wipe"

How do you in fact wipe data securely off devices, and SSDs?

Encrypt disk and storage devices before using them in the first place!

2018 attack



Drive	1	2	3	4	5	6	7	8	9	Impact
Crucial MX100 (all form factors)	X	X	X							X Compromised
Crucial MX200 (all form factors)	X	X	X							X Compromised
Crucial MX300 (all form factors)	✓	✓	✓		X	✓	✓	✓	✓	X Compromised
Samsung 840 EVO (SATA)	X	✓	✓		✓	✓	✓	X	✓	~ Depends
Samsung 850 EVO (SATA)	X	✓	✓		✓	✓	✓	✓	✓	~ Depends
Samsung T3 (USB)				X						X Compromised
Samsung T5 (USB)				X						X Compromised

¹ Cryptographic binding in ATA Security (High mode)

² Cryptographic binding in ATA Security (Max mode)

³ Cryptographic binding in TCG Opal

⁴ Cryptographic binding in proprietary standard

⁵ No single key for entire disk

⁶ Randomized DEK on sanitize

⁷ Sufficient random entropy

⁸ No wear leveling related issues

⁹ No DEVSLP related issues

self-encrypting deception: weakness in the encryption of solid state drives (SSDs)

<https://www.ru.nl/publish/pages/909282/draft-paper.pdf>

Recommendations - Comply Everywhere, Act Anywhere



Laptop storage must be encrypted

Firewall must be enabled

Next suggestion:

- Try sniffing data from a laptop, setup Access Point/Monitor port
- Portscan your laptopping networks - use Nmap
- Write an email to everyone in your organisation:
"Hi All, we need to identify laptops without full disk encryption
- come see us, we have christmas cookies left, Best regards IT"

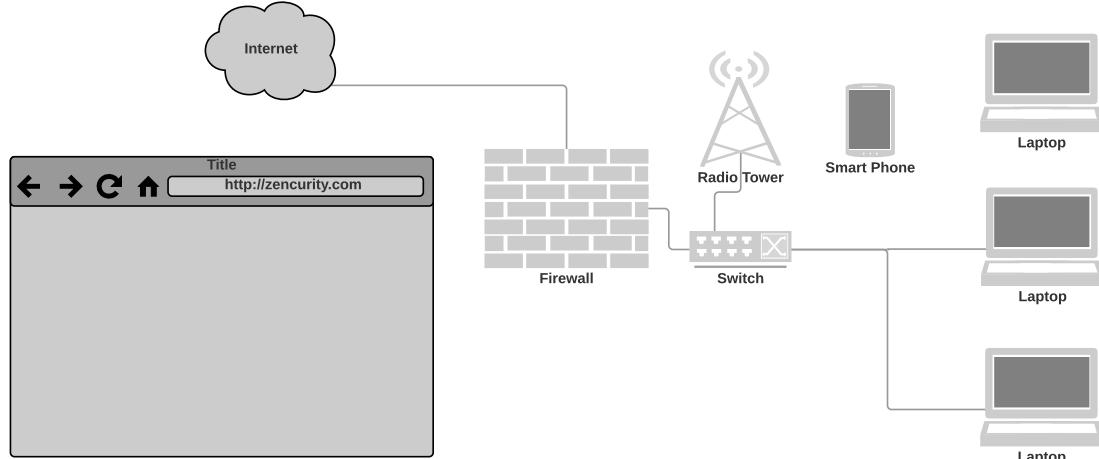


Fokus 2019: VPN alle steder



- VPN er relevant for alle der har data af værdi
- Sikrer data der flyttes
- Virtual Private Network dækker over klienter der kobler op, og site-2-site

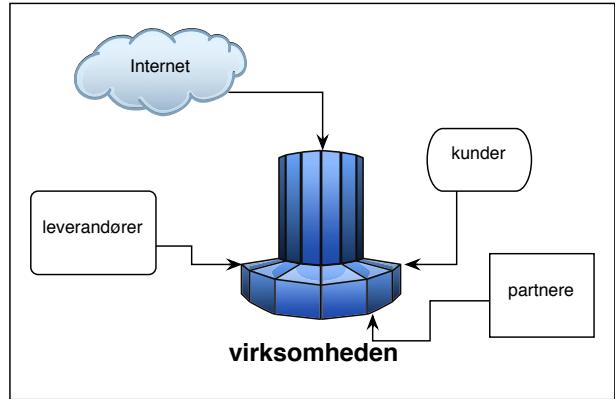
Your Privacy



- Your data travels far
- Often crossing borders, virtually and literally

Maybe use VPN more - or always!

Fokus 2019: Penetration testing



- Relevant hvis du driver et netværk, specielt hvis det er forbundet til internet eller stort
- Du bliver hele tiden testet - internet-tinnitus
- Penetration testing
- Kontrol af sikkerheden med aktive værktøjer
- Brug Nmap pakken til at checke åbne porte

Start Attacking from the Inside



- Now imagine you were in control of a company laptop
- Do you have a large internal world wide network?
Having a large open network may cost you 1.9 billion DKK - ref Maersk
- Try scanning everything, start in a small corner, expand
- Scan all your danish segments, one by one, then the nordic, then the world
- Yes, things may break - FINE, BREAKING is GOOD

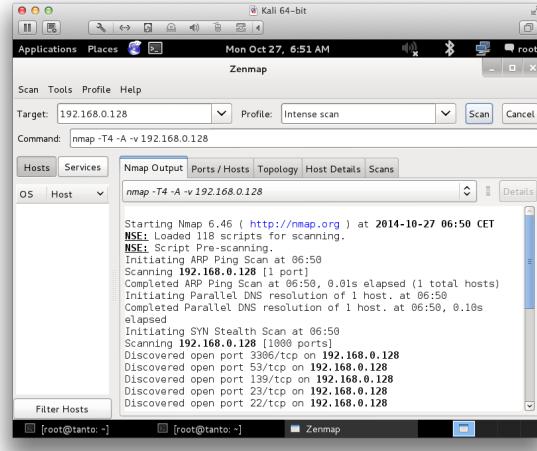
Better to break while we are ready to un-break

Hackertools are for everyone!



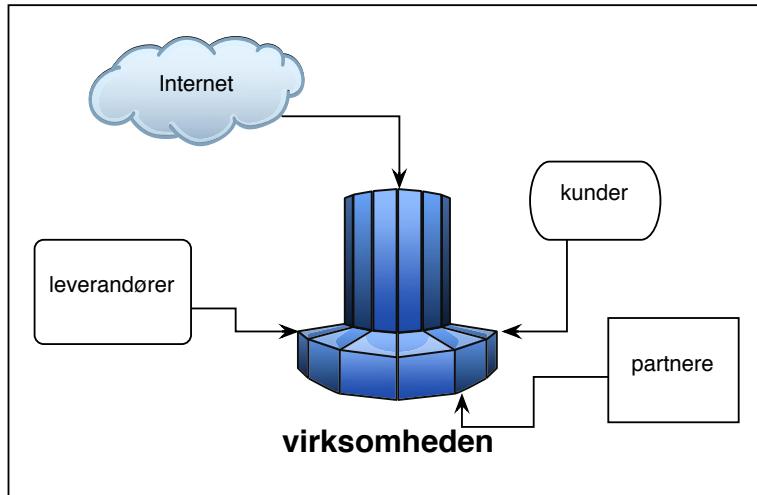
- Hackers work all the time to break stuff, Use hackertools:
- Nmap, Nping <http://nmap.org>
- Wireshark - <http://www.wireshark.org/>
- Aircrack-ng <http://www.aircrack-ng.org/>
- Metasploit Framework <http://www.metasploit.com/>
- Burpsuite <http://portswigger.net/burp/>
- Kali Linux <http://www.kali.org>

Really do Nmap your world



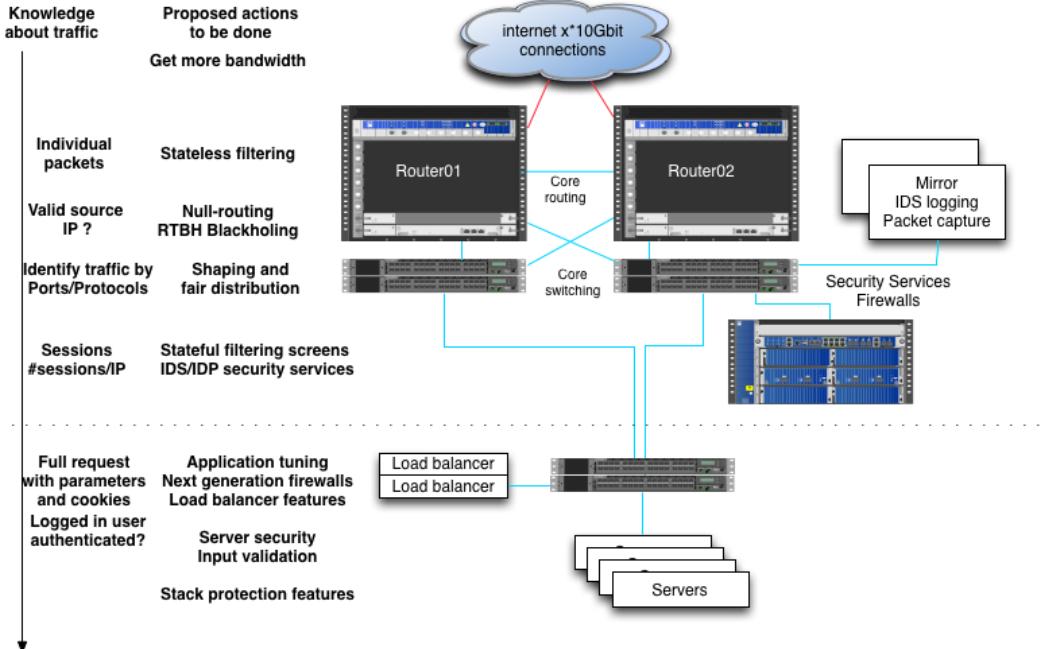
- Nmap is a port scanner, but does more
- Finding your own infrastructure available from the guest network?
- See your printers having all the protocols enabled AND a wireless?

Fokus 2019: Firewalls og segmentering



- Hvis du har et netværk, så bør du have en firewall
- En firewall tillader autoriseret trafik og blokerer resten
- Hvornår har du sidst set din løsning efter?
- Hvor lang tid tager det at se en 5.000 linier Cisco ASA config igennem?

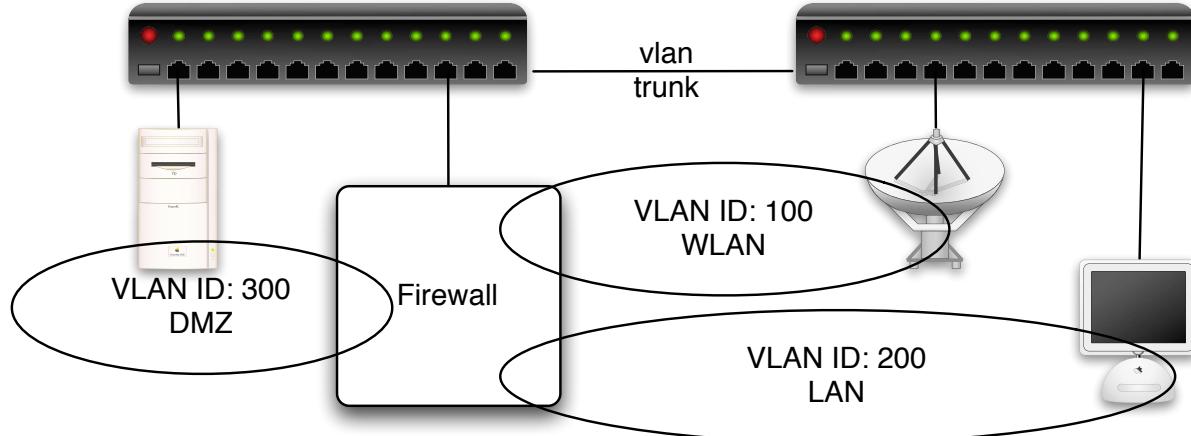
Big firewalls



Big firewalls are not a single device

PS also check for updates to your network devices, at least once a year 😊

IEEE 802.1q VLANs



Med 802.1q tillades VLAN tagging på Ethernet niveau

Data skal omkring en firewall eller en router for at krydse fra VLAN1 til VLAN2

VLAN trunking giver mulighed for at dele VLANs ud på flere switches

Fokus 2019: TLS og VPN indstillinger



```
ssl_prefer_server_ciphers on;
ssl_protocols TLSv1 TLSv1.1 TLSv1.2; # not possible to do exclusive
ssl_ciphers 'EDH+CAMELLIA:EDH+aRSA:EECDH+aRSA+AESGCM:EECDH+aRSA+SHA384:EECDH+\ \
\ aRSA+SHA256:EECDH:+CAMELLIA256:+AES256:+CAMELLIA128:+AES128:+SSLv3:!aNULL:!\
\ eNULL:!LOW:!3DES:!MD5:!EXP:!PSK:!DSS:!RC4:!SEED:!ECDSA:CAMELLIA256-SHA:AES256\ \
\ -SHA:CAMELLIA128-SHA:AES128-SHA';
add_header Strict-Transport-Security max-age=15768000; # six months
# use this only if all subdomains support HTTPS!
# add_header Strict-Transport-Security "max-age=15768000; includeSubDomains";
```

Listing 2.6: SSL settings for nginx
[configuration/Webservers/nginx/default]

- De fleste har https nu, men er det konfigureret optimalt
- Vi bruger også VPN til at forbinde sites, kontorer
- Anbefaler at alle indstillingerne gennemgås regelmæssigt!

Nmap efter SSL og TLS



Example Usage

```
nmap -sV -sC <target>
```

Script Output

```
443/tcp open  https  syn-ack
| sslv2:
|   SSLv2 supported
|   ciphers:
|     SSL2_DES_192_EDE3_CBC_WITH_MD5
|     SSL2_IDEA_128_CBC_WITH_MD5
|     SSL2_RC2_CBC_128_CBC_WITH_MD5
|     SSL2_RC4_128_WITH_MD5
|     SSL2_DES_64_CBC_WITH_MD5
|     SSL2_RC2_CBC_128_CBC_WITH_MD5
|     SSL2_RC4_128_EXPORT40_WITH_MD5
```

Nu vi har lært Kali og Nmap at kende

- Find nemt alle ssl version 2 og 3

```
nmap --script ssl-enum-ciphers
```

- Brug ssllabs <https://www.ssllabs.com/>

sslscan



```
root@kali:~# sslscan --ssl2 web.kramse.dk
Version: 1.10.5-static
OpenSSL 1.0.2e-dev xx XXX xxxx
```

Testing SSL server web.kramse.dk on port 443

...

SSL Certificate:

```
Signature Algorithm: sha256WithRSAEncryption
RSA Key Strength: 2048
```

Subject: *.kramse.dk

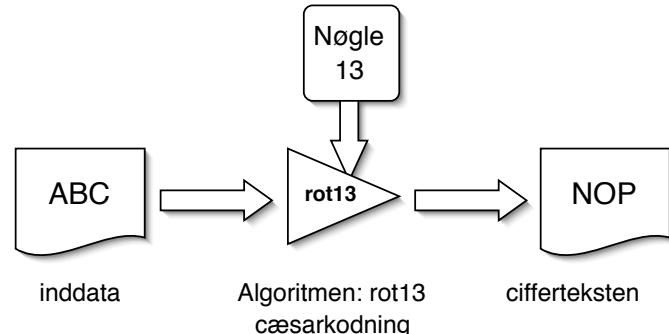
AltNames: DNS:*.kramse.dk, DNS:kramse.dk

Issuer: AlphaSSL CA - SHA256 - G2

Source: Originally sslscan from <http://www.titania.co.uk> but use the version on Kali

SSLscan can check your own sites, while Qualys SSL Labs only can test from hostname

VPN indstillinger



PPTP, hvis du bruger det så er det godt du er kommet :-D

Check hvert år:

- Certifikater/nøgler - ligesom TLS lange og rulles indimellem
- Algoritmer DES/3DES bye bye, husk både encryption og auth algoritmer
- DH-Group - +15 tak
- Check både client VPN og site-2-site

Anbefalinger til VPN



Use the following guidelines when configuring Internet Key Exchange (IKE) in VPN technologies:

Avoid IKE Groups 1, 2, and 5.

Use IKE Group 15 or 16 and employ 3072-bit and 4096-bit DH, respectively.

When possible, use IKE Group 19 or 20. They are the 256-bit and 384-bit ECDH groups, respectively.

Use AES for encryption.

Paper:

<https://www.cisco.com/c/en/us/about/security-center/next-generation-cryptography.html>

- Certifikater/nøgler - ligesom TLS lange og rulles indimellem
- Algoritmer DES/3DES bye bye, husk både encryption og auth algoritmer
- DH-Group - +15 tak
- Check både client VPN og site-2-site

Fokus 2019: DNS og email



- Vi er afhængige af email, modtagelse og afsendelse
- Når vi modtager skal det helst gå hurtigt
- Når vi sender skal vi ikke ende i spam mappen
- Phishing, hvem kan sende *fra vores domæne*



Various key attack types, clients and employees



- Phishing - sending fake emails, to collect credentials
- Spear phishing - targetted attacks
- Person in the middle - sniffing and changing data in transit
- Drive-by attacks - web pages infected with malware, often ad servers
- Malware transferred via USB or email
- Credential Stuffing, Password related, like re-use of password, see slide about being pwned

If we all wait a bit, and not click links immediately

Hackers try to create "urgency", click this or loose money

Email security 2019 - Goals



- SPF Sender Policy Framework
https://en.wikipedia.org/wiki/Sender_Policy_Framework
- DKIM DomainKeys Identified Mail
https://en.wikipedia.org/wiki/DomainKeys_Identified_Mail
- DMARC Domain-based Message Authentication, Reporting and Conformance
<https://en.wikipedia.org/wiki/DMARC>
- DNSSEC Domain Name System Security Extensions
https://en.wikipedia.org/wiki/Domain_Name_System_Security_Extensions
- DANE DNS-based Authentication of Named Entities
https://en.wikipedia.org/wiki/DNS-based_Authentication_of_Named_Entities
- Brug allesammen, check efter ændringer!

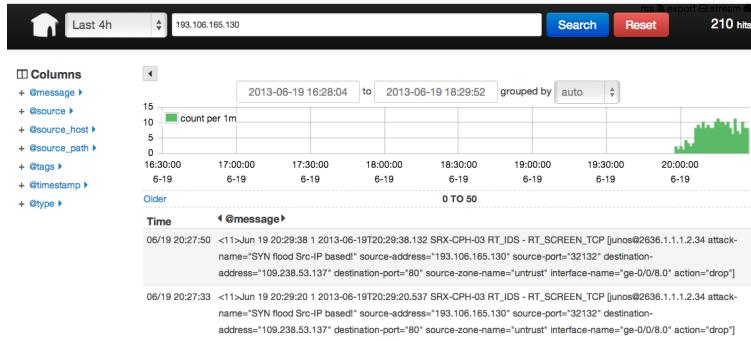
Jeg er glad for at teste med <https://dmarcian.com/>

Fokus 2019: Syslog og monitorering



- Vi har allesammen security incidents
- Vi skal kunne efterforske, derfor er et niveau af syslog vigtigt
- Også i dagligdagen til at sikre at systemerne kører optimalt

Network tools - examples



- Net + SSL/TLS: Zeek <http://www.bro-ids.org>
Suricata <http://suricata-ids.org>
- DNS query logs, keep it for at least a week?
 - with DSC and PacketQ <https://github.com/DNS-OARC/PacketQ>
- Log with Elasticsearch?

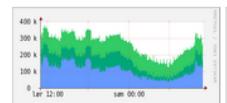
<https://www.elastic.co/guide/en/elasticsearch/guide/current/index.html>

Network visibility: Netflow with NFSen

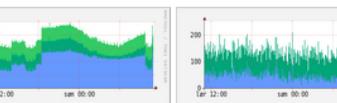


Profile: live

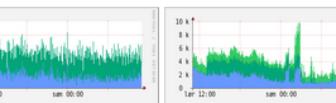
TCP



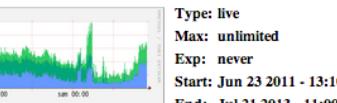
any



ICMP



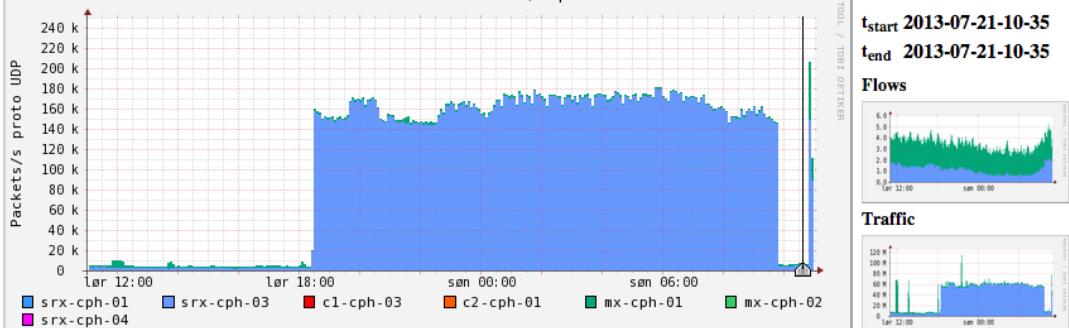
other



Profileinfo:

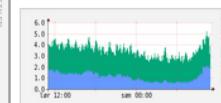
Type: live
Max: unlimited
Exp: never
Start: Jun 23 2011 - 13:10 CEST
End: Jul 21 2013 - 11:00 CEST

Sun Jul 21 10:35:00 2013 Packets/s proto UDP



t_{start} 2013-07-21-10-35
t_{end} 2013-07-21-10-35

Flows



Traffic



Lin Scale Stacked Graph

Log Scale Line Graph

Select

Display:

An extra 100k packets per second from this netflow source (source is a router)

How to get started



How to get started searching for security events?

Collect basic data from your devices and networks

- Netflow data from routers
- Session data from firewalls
- Logging from applications: email, web, proxy systems

Centralize!

Process data

- Top 10: interesting due to high frequency, occurs often, brute-force attacks
- *ignore*
- Bottom 10: least-frequent messages are interesting

Fokus 2019: Incident Response og reaktion



- Fortsat fra logningen ... hvad så nu!
- Hvis du har en sikkerhedshændelse skal den håndteres
- jo hurtigere og mere effektivt det håndteres jo bedre

Lifeguard training photo by Margarida CSilva on Unsplash

Overlapping Security Incidents



New data breaches nearly every week, these from danish news site
version2.dk

Problem, we need to receive data from others

Data from others may contain malware

Have a job posting, yes

- then HR will be expecting CVs sent as .doc files

Flere detaljer i gigantisk hotel-hack: 5,25 mio. ukrypterede pasnumre taget

Jakob Møllerhøj | Sikkerhed | 07. jan 2019

3

7,6 millioner spillerkonti løkket fra populært onlinespil

Niels Møller Kjemstrup | Sikkerhed | 07. jan 2019

2

Største løk i tysk historie: Politikeres og kunstneres data smidt på nettet

Morten Egedal | Sikkerhed | 04. jan 2019

2

Gentleman-aftale mellem politiske partier skal danne mur mod dataløk, hacking og fake news

Louise Holst Andersen | Sikkerhed | 04. jan 2019

12

Boligfond beklager løk af følsomme persondata: En menneskelig fejl

Sikkerhed | 28. dec 2018

6



or the other way

Attackers used a LinkedIn job ad and Skype call to breach bank's defences

The attack

One of these is the Chilean news site's claim that the attack started with a LinkedIn advert offering a developer role to which a Redbanc employee replied.

The attackers set up a Skype call to conduct an interview during which the individual was tricked into downloading a file called ApplicationPDF.exe, sent via a weblink, which subsequently infected the employee's computer.

<https://nakedsecurity.sophos.com/2019/01/21/attackers-used-a-linkedin-job-ad-and-skype-call-to-breach-banks-defences/>

Øv krisesituationer



- Lav rollespil
- Lav tabletop exercises

Spørgsmål og mere debat



"On the Internet, nobody knows you're a dog."

Henrik Lund Kramshøj hlk@zecurity.com