Hva avanserte hackere gjør for å få tilgang

Oddvar Moe

TrustedSec | @oddvarmoe



Oddvar Moe

TrustedSec

Red Teamer @TrustedSec

Hacker/Blogger/Speaker/Researcher

Hobby: Fisking (ikke Phishing), 3dprinting, gaming, røyke kjøtt, dad jokes/memes







Hva er en avansert hacker?

Ofte referert som APT

Forskjellige mål avhengig av gruppe



CAUTION

ZHANG Haoran, TAN Dailin, QIAN Chuan, FU Qiang, and JIANG Lizhi are all part of a Chinese hacking group known as APT 41 and BARIUM.

On August 15, 2019, a Grand Jury in the District of Columbia returned an indictment against Chinese nationals ZHANG Haoran and TAN Dailin on charges including Unauthorized Access to Protected Computers, Aggravated Identity Theft, Money Laundering, and Wire Fraud. These charges primarily stemmed from alleged activity targeting high technology and video gaming companies, and a United Kingdom citizen.

On August 11, 2020, a Grand Jury in the District of Columbia returned an indictment against Chinese antionals QIAN Chuan, FU Qiang, and JIANG Lizhi on charges including Racketeering, Money Laundering, Fraud, Identity Theft, and Access Device Fraud. These charges stem from their alleged unauthorized computer intrusions while employed by Chengdu 494 Network Technology Company. The defendants allegedly conducted supply chain attacks to gain unauthorized access to networks throughout the world, targeting hundreds of companies representing a broad array of industries to include: social media, telecommunications, government, defense, education, and manufacturing. These victims included companies in Australia, Brazil, Germany, India, Japan and Sweden. The defendants allegedly targeted telecommunications providers in the United States, Australia, China (Tibet), Chile, India, indoesia, Malaysia, Pakistan, Singapore, South Korea, Jaiwan, and Thailand. The defendants allegedly deployed ransomware

If you have any information concerning these individuals, please contact your local FBI office, or the nearest American Embassy or Consulate.

Field Office: Washington D.C.



| China | | | | | | | | | | |
|--------------|----------------|----------------|-----------|------------------------|----------|------------|-------------|----------------|--------------------------------------|---|
| Common Name | CrowdStrike | IRL | Kaspersky | Secureworks | Mandiant | FireEye | Symantec | iSight | Cisco (Sourcefire/ Palo Alto Unit 42 | Other Names |
| Comment Crew | Comment Panda | PLA Unit 61398 | | TG-8223 | APT1 | | | BrownFox | Group 3 | GIF89a, ShadyRAT, Shanghai Group, Byzantine Candor |
| APT2 | Putter Panda | PLA Unit 61486 | | TG-6952 | APT2 | | | | Group 36 | SearchFire |
| UPS | Gothic Panda | | | TG-0110 | APT3 | | Buckeye | UPS Team | Group 6 | Boyusec – the Guangzhou Boyu Information Technology Company, Ltd |
| IXESHE | Numbered Panda | | | TG-2754 (tentative) | APT12 | BeeBus | | Calc Team | Group 22 | DynCalc, Crimson Iron, DNSCalc |
| APT16 | | | | | APT16 | | | | | |
| Hidden Lynx | Aurora Panda | | | | APT17 | Deputy Dog | Hidden Lynx | Tailgater Team | Group 8 | https://401trg.com/burning-umbrella/ |
| Wekby | Dynamite Panda | ₩ | | TG-0416 | APT18 | | | | | TA428 |
| Axiom | | | | | APT17 | | | Tailgater Team | Group 72 | Dogfish (iDefense), Deputy Dog (iDefense), Winnti Umbrella |
| Winnti Group | Wicked Panda | | | BRONZE ATLAS | APT41 | | | | | Winnti Umbrella, BARIUM, LEAD, RedEcho, Vanadinite, TAG-22 |
| | | I | | ı | | | I | I | 1 | MVP -Dagen |

https://docs.google.com/spreadsheets/d/1H9 xaxQHpWaa4O Son4Gx0YOIzlcBWMsdvePFX68EKU/edit#gid=16362 25066

Google etter: excel apt groups



RED TEAMER – HVA ER DET?

Være en "ekte" trussel

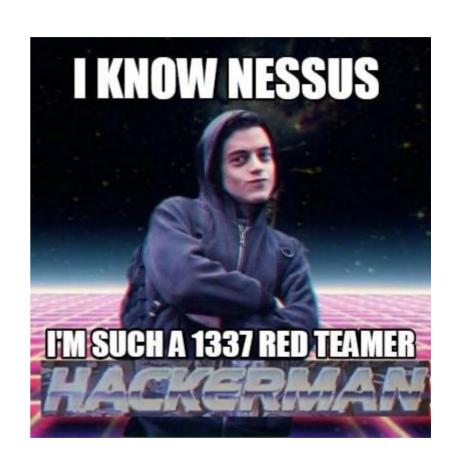
Minimum 4 uker

Ikke bli oppdaget (blue team)

Kan også være fysisk

Ikke en pentest

Målbasert!



Faser I et angrep

Scheduled

Task/Job (5)

Server Software

Component (5)

ATT&CK Matrix for Enterprise

lavout: side ▼ show sub-techniques hide sub-techniques Initial Access Execution Persistence Privilege Escalation **Defense Evasion** Credential Lateral Collection Command and Exfiltration Reconnaissance Resource Discovery Impact Development Access Movement Control 10 techniques 7 techniques 9 techniques 12 techniques 19 techniques 13 techniques 42 techniques 16 techniques 30 techniques 9 techniques 16 techniques 9 techniques 17 techniques 13 techniques Application Laver Active Scanning (3) Acquire Drive-by Command and Account Abuse Elevation Abuse Elevation Control dversarv-in-the Account Discovery (4) Exploitation of Adversary-in-the-Automated Account Access Mechanism (4) Middle (3) Remote Services nfrastructure (6) Compromise Scripting Manipulation (5) Middle (3) Protocol (4) Exfiltration (1) Gather Victim Host Interpreter (8) Mechanism (4) **Application Window** Brute Force (4) Information (4) Compromise Exploit Public-BITS Jobs Access Token Discovery Internal Archive Collected Communication Data Transfer Data Destruction Data (3) Through Accounts (2) Facing Container Access Token Manipulation (5) Spearphishing Size Limits Gather Victim Identity Application Administration Boot or Logon Manipulation (5) Credentials from Browser Bookmark Removable Media Data Encrypted for Information (3) Command Autostart BITS Jobs Password Lateral Tool **Audio Capture Exfiltration Over** Compromise Discovery Impact Stores (5) Infrastructure (6) **External Remote** Execution (14) Boot or Logon Transfer Data Encoding (2) Alternative Gather Victim Network **Deploy Container Build Image on Host** Cloud Infrastructure **Automated** Protocol (3) **Autostart** Execution (14) Manipulation (3) Information (6) Develop Boot or Logon Exploitation for Discovery Remote Service Collection Data Capabilities (4) Hardware Exploitation for Initialization **Debugger Evasion** Credential Obfuscation (3) **Exfiltration Over** Gather Victim Org Additions Client Execution Boot or Logon Access Cloud Service Dashboard Hijacking (2) Browser Session C2 Channel Defacement (2) Scripts (5) Information (4) Establish nitialization Deobfuscate/Decode Hijacking Dynamic Scripts (5) Resolution (3) الله Disk Wipe Accounts (2) Phishing (3) Inter-Process Browser Files or Information Forced Cloud Service Discovery Remote **Exfiltration Ove** Phishing for Communication (3) Extensions Authentication Clipboard Data Other Network Services (6) Medium (1) Information (3) Obtain Replication Create or Modify **Deploy Container** Cloud Storage Object Endpoint Denial of Encrypted Capabilities (6) Through Native API Compromise System Forge Web Discovery Replication Data from Cloud Channel (2) Service (4) Exfiltration Ove Search Closed Removable Media Client Software Direct Volume Access Through Storage Object Process (4) Credentials (2) Sources (2) Scheduled Container and Resource Removable Fallback Channels Physical Firmware Corruption Supply Chain Input Capture (4) Medium (1) Capabilities (5) Task/Job (5) Domain Policy Domain Policy Discovery Media Data from Search Open Technical ompromise (3) Create Account Modification (2) Modification (2) Configuration Inhibit System Ingress Tool Databases (5) Repository (2) Shared Modules Modify Debugger Evasion Software Transfer Exfiltration Ove Recovery Trusted Create or Modify Escape to Host Execution Guardrails (1) Authentication Deployment Web Service (2) Search Open Relationship Software Domain Trust Discovery Tools Data from Multi-Stage Network Denial of System Process (5) Websites/Domains (2) Process (4) **Event Triagered** Exploitation for Defense Information Channels Scheduled **Deployment Tools** Service (2) Valid Accounts (4) Execution (15) Repositories (3) Evasion Multi-Factor File and Directory Taint Shared Transfer Search Victim-Owned Event Triggered Authentication Content Non-Application Resource Hijacking System Services (2) Discovery Execution (15) Websites Exploitation for File and Directory Interception Data from Local Laver Protocol Transfer Data User Execution (2) Privilege Permissions Group Policy Discovery Use Alternate System to Cloud Service Stop Modification (2) External Remote Escalation Multi-Factor Authentication Non-Standard Account Network Service Windows Authentication Material (4) Port Services Data from System Management Hijack Execution Hide Artifacts (10) Network Shared Shutdown/Reboot Request Discovery Instrumentation Hijack Execution Protocol Generation Drive Flow (12) Hijack Execution **Network Share Discovery** Tunneling Network Sniffing Data from Process Flow (12) Implant Internal Network Sniffing Injection (12) Removable Proxy (4) Impair Defenses (9) OS Credential Media Image Scheduled Dumping (8) Password Policy Remote Access Modify Indicator Removal on Data Staged (2) Software Task/Job (5) Discovery Authentication Host (6) Steal Application Valid Accounts (4) Access Token Peripheral Device Traffic Process (5) Indirect Command Discovery Collection (3) Signaling (1) Steal or Forge Office Application Execution Web Service (3) Startup (6) Kerberos Permission Groups Input Capture (A Masquerading (7) Tickets (4) Discovery (3) Pre-OS Boot (5) Screen Capture Modify Authentication Steal Web Process Discovery

Session Cookie

Credentials (7)

Unsecured

Query Registry

Discovery

Remote System

Video Capture

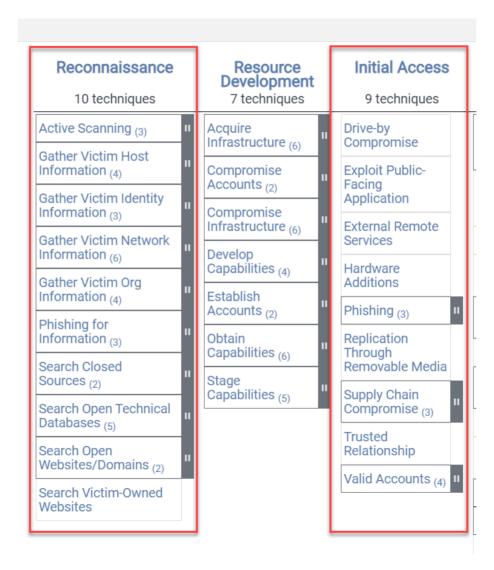
Process (5)

Infrastructure (4)

Mandifi Dominto

Modify Cloud Compute

Faser I et angrep – Fokus I denne sesjonen



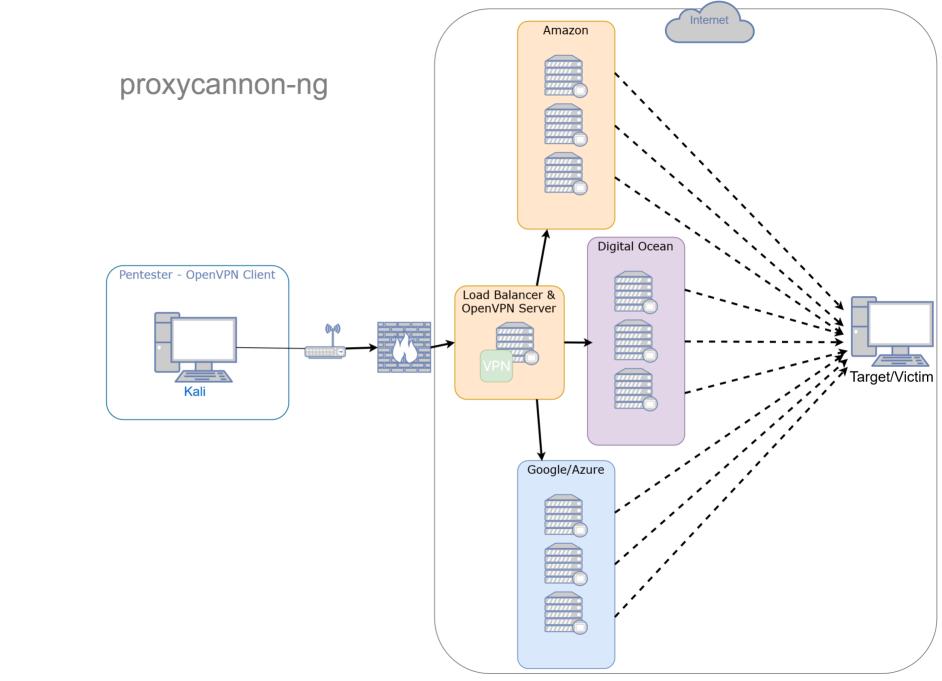
Kartlegging

Mål er å forstå bedriften

Se etter (med hacker øyne)

- DNS / IP / Porter
- Dorking / Filer / Metadata / Epost / Github
- Teknologi I bruk / skjermbilde fra webtjenester
- Passord lekkasjer
- Nylig aktivitet SoMe





Kartlegging - DNS

```
root@DESKTOP-00581QD:/tools# ./gobuster dns -d kristiansand.kommune.no -t 100 -w all.txt
Gobuster v3.2.0-dev
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Domain:
                kristiansand.kommune.no
   Threads:
             1s
[+] Timeout:
    Wordlist: all.txt
2022/10/10 20:29:37 Starting gobuster in DNS enumeration mode
Found: adfs.kristiansand.kommune.no
Found: ADFS.kristiansand.kommune.no
Found: Adfs.kristiansand.kommune.no
Found: admingp.kristiansand.kommune.no
Found: aia.pki.kristiansand.kommune.no
Found: aktor.kristiansand.kommune.no
```

Kartlegging - DNS

```
root@DESKTOP-00581QD:/tools/dnsrecon# python3 dnsrecon.py -d kristiansand.kommune.no -D namelist.txt -t brt
    Using the dictionary file: namelist.txt (provided by user)
    brt: Performing host and subdomain brute force against kristiansand.kommune.no...
         A adfs.kristiansand.kommune.no 158.150.116.103
        A ap.kristiansand.kommune.no 158.150.114.8
        CNAME autodiscover.kristiansand.kommune.no autodiscover.outlook.com
        CNAME autodiscover.outlook.com autod.ha-autod.office.com
        CNAME autod.ha-autod.office.com autod.ms-acdc-autod.office.com
        A autod.ms-acdc-autod.office.com 52.98.149.168
        A autod.ms-acdc-autod.office.com 132.245.230.1
        A autod.ms-acdc-autod.office.com 52.98.151.88
        A autod.ms-acdc-autod.office.com 40.101.1.1
        CNAME autodiscover.kristiansand.kommune.no autodiscover.outlook.com
        CNAME autodiscover.outlook.com autod.ha-autod.office.com
        CNAME autod.ha-autod.office.com autod.ms-acdc-autod.office.com
        AAAA autod.ms-acdc-autod.office.com 2603:1026:c11:b::8
        AAAA autod.ms-acdc-autod.office.com 2603:1026:900:2::1
        AAAA autod.ms-acdc-autod.office.com 2603:1026:900::1
        AAAA autod.ms-acdc-autod.office.com 2603:1026:c11:9::8
        A exchange.kristiansand.kommune.no 158.150.116.119
        A quest.kristiansand.kommune.no 158.150.114.4
        A lab.kristiansand.kommune.no 158.150.113.11
        A login.kristiansand.kommune.nb 194.63.248.52
        AAAA login.kristiansand.kommune.no 2a01:5b40:0:248::52
        A mail.kristiansand.kommune.no 158.150.116.42
        A mail2.kristiansand.kommune.no 158.150.116.43
        A mo.kristiansand.kommune.no 158.150.34.14
        A mr.kristiansand.kommune.no 158.150.114.8
         A outlook.kristiansand.kommune.no 158.150.116.84
         A owa.kristiansand.kommune.no 158.150.116.84
```

Kartlegging - IP





PROFILE ▼ CONNECT ▼ MONITOR ▼ SUPPORT

Whois Lookup

Q

- Quick Stats

IP Location Roman Kristiansand Kommune Kristiansand Kommune

ASN AS2119 TELENOR-NEXTEL Telenor Norge AS, NO (registered Feb 25, 1993)

Whois Server whois.ripe.net

IP Address 158.150.114.4

% No abuse contact registered for 158.150.0.0 - 158.150.255.255

inetnum: 158.150.0.0 - 158.150.255.255

netname: KRSAND-KOM

descr: Kristiansand Kommune

descr: Postbox 427

descr: N-4601 Kristiansand

country: NO status: LEGACY

admin-c: AS12835-RIPE tech-c: AS12835-RIPE tech-c: TBS-RIPE mnt-by: AS2119-MNT

mnt-routes: AS2119-MNT created: 2003-09-17T13:45:18Z last-modified: 2017-08-23T11:42:53Z

source: RIPE

role: TBS AS - Customer Internet Access

address: Telenor Norge AS
address: Snaroyveien 30

DEMO DNS / SHODAN OSINT



Kartlegging - Dorking

0-%20bruksendring%20GB%207323%20-%20Toftelandsveien%202%20-%20Gunders%20kafe.pdf

erv%20-%20Egel%20Terkelsen%202011981.pdf

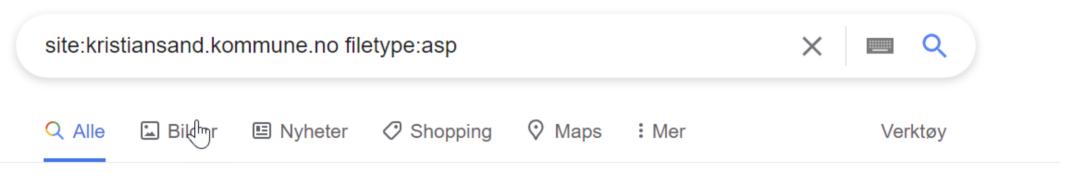
site:kristiansand.kommune.no secret https://sogneutvalg.kristiansand.kommune.no/utvalg/Kommunestyret/M%C3%B8te-2018-02-15/PS%201418%20Mottak%20av%20marint%20avfall%20fra%20fiskeb%C3% er%20i%205%C3%B8gne%20samt%20avsetting%20av%20tilskuddsmidler%20til%20tiltak%20mot%20marin%20fors%C3%B8pling.pdf https://www.kristiansand.kommune.no/contentassets/7d2e282dabd9476590033319a847ae0f/kulturminner-i-kristiansand.pdf https://www.kristiansand.kommune.no/contentassets/0bf874c958e547768ee960d5ffe93a38/notat-nr.-2---videre-analyse-av-utbygging-og-arealreserver.pdf https://www.kristiansand.kommune.no/contentassets/588c51bd744b41699e1551abc3dbba38/10985-kristiansand-kommune---kommunedirektorens-forslag-til-oko iplan-2021-2024-261020.pdf https://sogneutvalg.kristiansand.kommune.no/utvalg/R%C3%A5det%20for%20mennesker%20med%20nedsatt%20funksjonsevne/M%C3%B8te-2015-05-19/RS%204115%20V %A5rkonferansen%2024.04.15%20-%20Mandal,%20Buen.pdf https://sogneutvalg.kristiansand.kommune.no/utvalg/Tjenesteutvalget/M%C3%B8te-2018-05-09/RS%201418%20M%C3%B8te%20i%20Skolemilj%C3%B8utvalget%20-%2 nnti%C3%B8nn%20skole%2018.%2004.%202018%2020111366.pdf Results: 6 Execution time: 1.45855 site:kristiansand.kommune.no confidential https://sogneutvalg.kristiansand.kommune.no/utvalg/Formannskapet/M%C3%B8te-2013-08-28/RS%203813%20Ett%20politi%20-%20rustet%20til%20%C3%A5%20m%C3% e%20fremtidens%20utfordringer%20-%20NOU%2020139%20-%20h%C3%B8ring%202013114.pdf https://sogneutvalg.kristiansand.kommune.no/utvalg/Plan-%20og%20milj%C3%B8utvalget/M%C3%B8te-2014-06-18/PS%209214%20Ny%20behandling%20av%20klage%2 C3%A5%20avsl%C3%A5tt%20dispensasjon%20for%20innredning%20av%20leilighet%20i%20garasje%20-%20GB%201977%20-%20Daleheia%2014.pdf https://sogneutvalg.kristiansand.kommune.no/utvalg/Plan-%20og%20milj%C3%B8utvalget/M%C3%B8te-2014-12-10/PS%2018114%20S%C3%B8knad%20om%20dispensasj 20for%20%C3%B8kt%20utnyttelsesgrad%20-%20GB%201373%20-%20Langenesveien%20337C.pdf https://sogneutvalg.kristiansand.kommune.no/utvalg/Formannskapet/M%C3%B8te-2013-05-08/PS%206313%20Behandling%20av%20s%C3%B8knad%20om%20motorferdse 0i%20utmark%20-%20%C3%98ygarden.pdf https://sogneutvalg.kristiansand.kommune.no/utvalg/Plan-%20og%20milj%C3%B8utvalget/M%C3%B8te-2019-06-19/PS%2012219%20Reguleringsendring%20-%20Deta egulering%20for%20E39,%20plan%20ID%20201510.pdf

https://sogneutvalg.kristiansand.kommune.no/utvalg/Kommunestyret/M%C3%B8te-2018-12-13/PS%2012718%20Sluttbehandling%20-%20Detaljregulering%20for%20%98ygarden%207%20-%2011%20-%2015%20(Solstr%C3%A5len%20barnehage)%20-%20Plan%20ID%20201609.pdf

https://sogneutvalq.kristiansand.kommune.no/utvalg/Plan-%20og%20milj%C3%B8utvalget/M%C3%B8te-2019-02-27/PS%204419%20S%C3%B8knad%20om%20dispensasjo

https://sogneutvalg.kristiansand.kommune.no/utvalg/Valgnemnda/2012/M%C3%B8te-2012-10-08/PS%201512%20S%C3%B8knad%20om%20permisjon%20fra%20politisk%

Kartlegging - Dorking



Omtrent 1 resultater (0,20 sekunder)

http://pa.kristiansand.kommune.no > politiske_saker

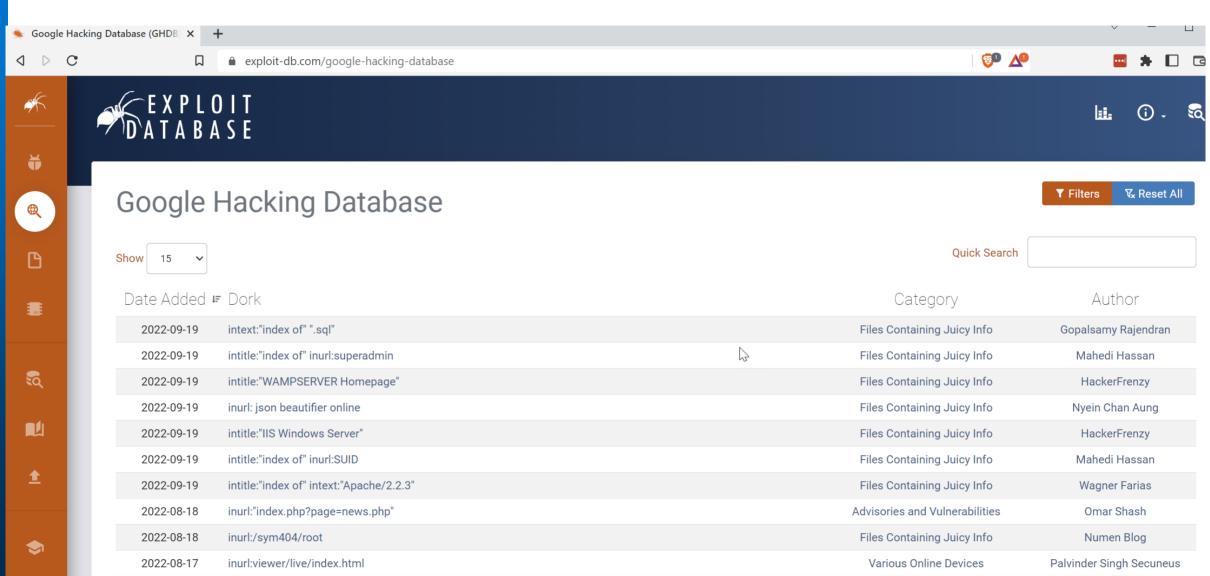
pa.kristiansand.kommune.no/politiske_saker/default.asp

Ingen informasjon er tilgjengelig for denne siden.

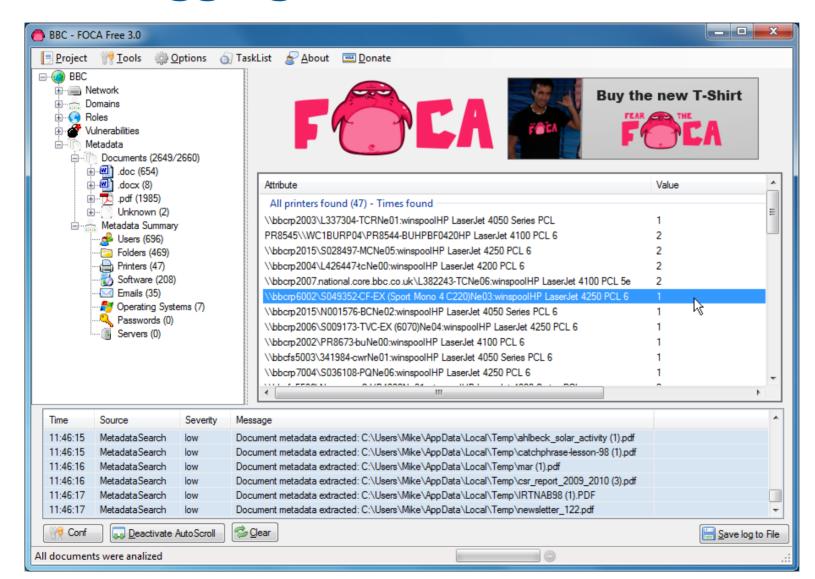
Finn ut hvorfor



Kartlegging - Dorking



Kartlegging - Metadata





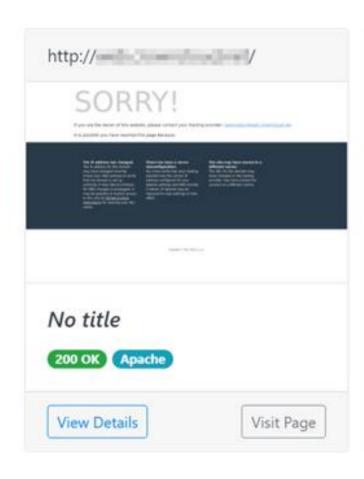
Kartlegging - Skjermbilde

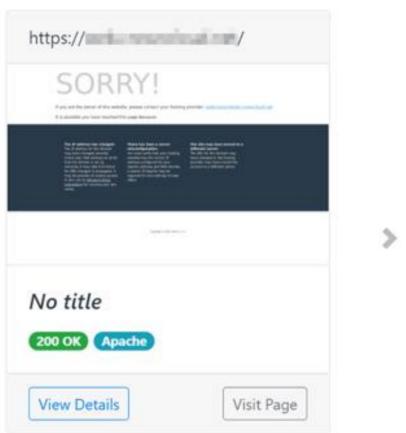
Mange verktøy

- Aquatone (Min favoritt)
- EyeWitness
- GoWitness

<

Pages by Similarity





Kartlegging – Passord lekkasjer

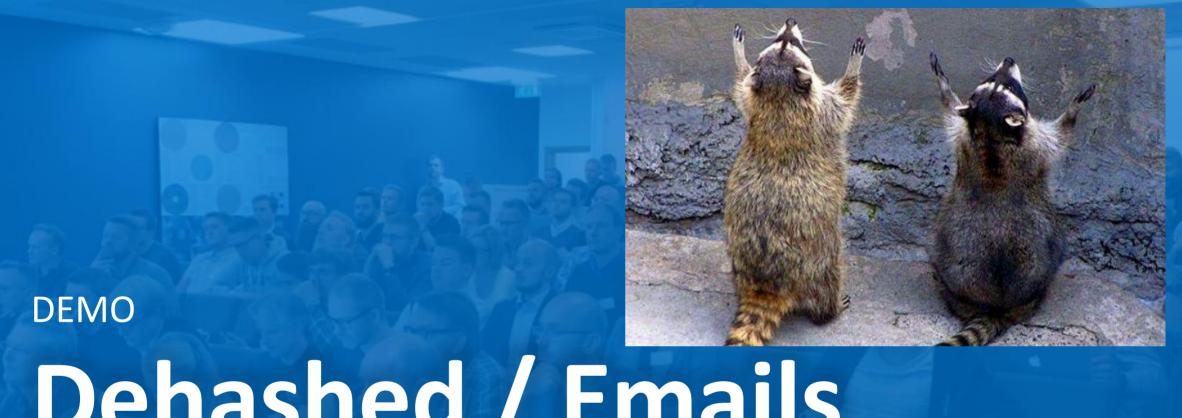
Finne e-post addresser

Mønster I passord

Finner dumps I forskjellige "forum" på nettet

Mange online tjenester også





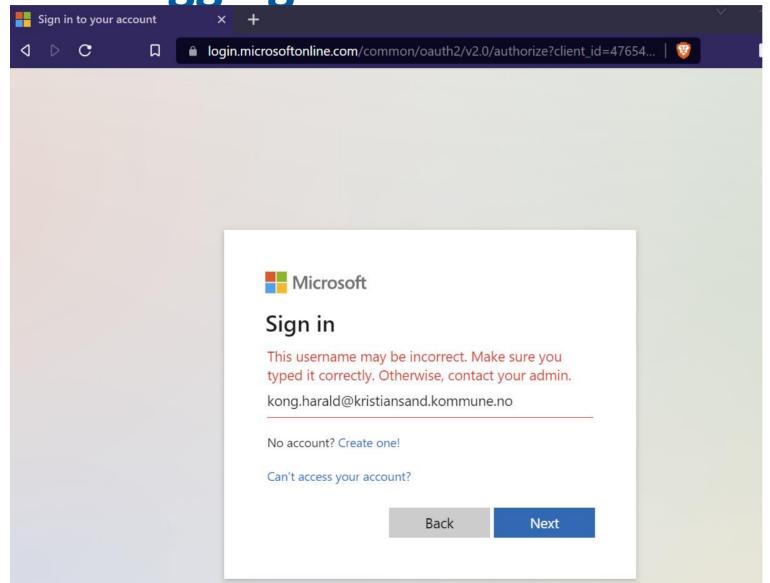
Dehashed / Emails

Benytte funnet e-post addresser

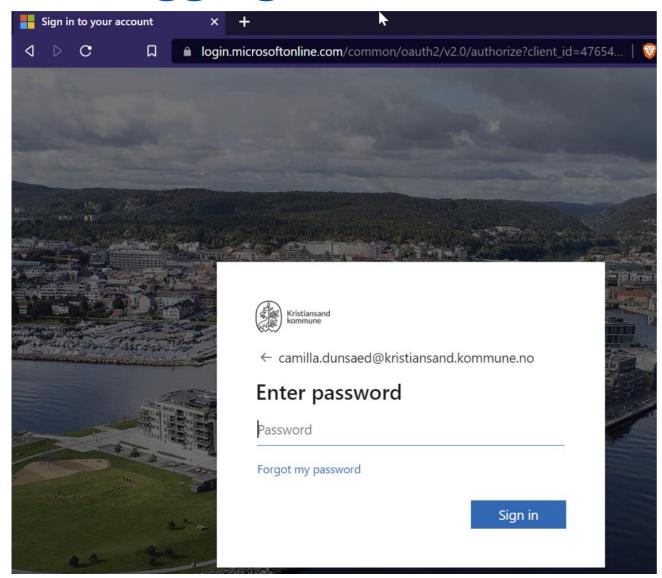
Verifiser mot O365 / Timing OWA / Teams

Finne flere? Bruke LinkedIn











```
TeamFiltration v0.3.3.6 PUBLIC, created by @Flangvik @TrustedSec
  Args parsed --outpath DefconDemo01\ --config TeamFiltrationConfig.json --enum --usernames usernames.txt --validate-login
[ENUM] 22.07.2022 11:38:44 EST Filtering out previusly attempted accounts
ENUM] 22.07.2022 11:38:44 EST Warning, THIS METHOD WILL PRODUCE LOGIN ATTEMPTS AND IF USED FREQUENTLY, MAY LOCKOUT ACCOUNTS!
ENUM] 22.07.2022 11:38:44 EST Enumerating 18 accounts with password Welcome@2022!, this will take ~0 minutes
     22.07.2022 11:38:45 EST dayle,bolden@legitcorp.net => VALID
ENUM] 22.07.2022 11:38:45 EST cuc.vanarsdale@legitcorp.net => VALID
     22.07.2022 11:38:45 EST cristal.valazquez@legitcorp.net => VALID
ENUM 22.07.2022 11:38:45 EST beverlee.lowy@legitcorp.net => VALID
ENUM] 22.07.2022 11:38:45 EST alona.marr@legitcorp.net => VALID
ENUM 22.07.2022 11:38:45 EST buena.delsignore@legitcorp.net => VALID
ENUM 22.07.2022 11:38:45 EST claudia.lunn@legitcorp.net => VALID
     22.07.2022 11:38:45 EST biff.tannen@legitcorp.net => VALID
     22.07.2022 11:38:45 EST charlotte.goosby@legitcorp.net => VALID
     22.07.2022 11:38:45 EST daria.kuehn@legitcorp.net => VALID
ENUM 22.07.2022 11:38:45 EST cathleen.demelo@legitcorp.net => VALID
ENUM] 22.07.2022 11:38:45 EST ahmed.kroner@legitcorp.net => VALID
ENUM 22.07.2022 11:38:45 EST bruce.wayne@legitcorp.net -> VALID ENUM 22.07.2022 11:38:45 EST antwan.waltrip@legitcorp.net -> VALID
     22.07.2022 11:38:45 EST claris.mackinnon@legitcorp.net => VALID
ENUM 22.07.2022 11:38:46 EST catrice.haggins@legitcorp.net => VALID
     22.07.2022 11:38:46 EST coleman.gabriele@legitcorp.net => VALID
```

Kartlegging - Skanning

Skanne porter (noen utvalgte)

Dirbusting (Se etter filer på webservere)



Oppnå tilgang

Passord spraying

Ekstern sårbarhet

Phishing

3.part (ServiceNow...)

Plante fysisk enhet

Ny kartlegging ved oppnådd tilgang



Passord Spraying

Forskjellige verktøy avhengig av tjenester

- Office 365
- On-Prem
- ADFS
- Andre? Okta?

Passord Spraying – Verktøy

On-Prem Exchange:

- Mailsniper
- Ruler
- Metasploit owa_login

On-Prem Lync/S4B:

LyncSmash



Passord Spraying – Verktøy

Office 365

- o365Spray (også ADFS)
- TeamFiltration

```
TeamFiltration v0.3.3.6 PUBLIC, created by @Flangvik @TrustedSec
  Args parsed --outpath DefconDemo01\ --config TeamFiltrationConfig.json --spray --force
SPRAY 22.07.2022 11:39:09 EST Sleeping between 60-100 minutes for each round
SPRAY] 22.07.2022 11:39:12 EST There has only been 0 minutes since last spray, be careful about lockout
SPRAY] us-west-1 22.07.2022 11:39:13 EST Sprayed claudia.lunn@legitcorp.net:January2022
                                                                                                      => INVALID
SPRAY] us-west-1 22.07.2022 11:39:13 EST Sprayed alona.marr@legitcorp.net:January2022
SPRAY
      us-west-1 22.07.2022 11:39:13 EST Sprayed cristal.valazquez@legitcorp.net:January2022
      us-west-1 22.07.2022 11:39:14 EST Sprayed coleman.gabriele@legitcorp.net:January2022
      us-west-1 22.07.2022 11:39:14 EST Sprayed adam.wally@legitcorp.net:January2022
      us-west-1 22.07.2022 11:39:14 EST Sprayed ahmed.kroner@legitcorp.net:January2022
      us-west-1 22.07.2022 11:39:15 EST Sprayed charlotte.goosby@legitcorp.net:January2022
SPRAY
              -1 22.07.2022 11:39:16 EST Sprayed cathleen.demelo@legitcorp.net:January2022
      us-west-1 22.07.2022 11:39:16 EST Sprayed dayle.bolden@legitcorp.net:January2022
SPRAY
      us-west-1 22.07.2022 11:39:16 EST Sprayed bruce.wayne@legitcorp.net:January2022
      us-west-1 22.07.2022 11:39:17 EST Sprayed buena.delsignore@legitcorp.net:January2022
SPRAY
SPRAY
              -1 22.07.2022 11:39:17 EST Sprayed beverlee.lowy@legitcorp.net:January2022
                                                                                                      => INVALID
SPRAY
      us-west-1 22.07.2022 11:39:17 EST Sprayed daria.kuehn@legitcorp.net:January2022
                                                                                                      => INVALID
      us-west-1 22.07.2022 11:39:18 EST Sprayed biff.tannen@legitcorp.net:January2022
                                                                                                      => VALID NO MFA!
SPRAY
      us-west-1 22.07.2022 11:39:18 EST Sprayed claris.mackinnon@legitcorp.net:January2022
                                                                                                      => INVALID
      us-west-1 22.07.2022 11:39:18 EST Sprayed antwan, waltrip@legitcorp.net:January2022
                                                                                                      => INVALID
       us-west-1 22.07.2022 11:39:19 EST Sprayed cuc.vanarsdale@legitcorp.net:January2022
                                                                                                      => INVALID
                            11:39:19 EST Sprayed catrice, haggins@legitcorp.net:lanuary2022
                                                                                                      => INVALID
```

MVP-Dagen

Passord Spraying

Passord lister er viktig

Bedriftsnavn + år +!



August1 August123 August2022 August2022! August22 August22! August@2022 August@2022! August@22 August@22! Autumn1 Autumn123 Autumn2022 Autumn2022! Autumn22 Autumn22! Autumn@2022 Autumn@2022! Autumn@22 Autumn@22! Fall1 Fall123 Fall2022 Fall2022! Fall22 Fall22! Fall@2022 Fall@2022! Fall@22 Fall@22! Julv1 July123 July2022 July2022! Julv22 July22! July@2022 July@2022! July@22

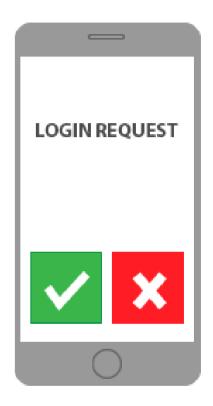


Passord Spraying - MFA

Logge inn et par ganger ila dagen

Noen ganger godtar bruker push

VERIFICATION



2ND FACTOR



Ekstern sårbarhet

Ikke vanlig, men skjer

- Mest vanlig er SQL Injection, Webshell upload
- Dårlig eller default passord på ekstern tjeneste (test/test)
- Manglende patch





USB STICK

GUI r DELAY 500 STRING notepad.exe **ENTER DELAY 1000** STRING Hello World!

Phishing

Tilpasses til hvert oppdrag

Bygger pretext basert på sosiale medier og ansatte

Personlig liker jeg å gå mot nyansatte (LinkedIn)



| ==" Send | | From + | no-reply@survey-supercompany.com |
|-------------|--|---------|----------------------------------|
| | | То | |
| | | Сс | |
| | | Subject | |

Dear Supercompany employee,

At Supercompany, we strive to attract, retain, and motivate a quality workforce. Together with our investor focus and our community social responsibility, we acknowledge our employees as our greatest asset. To help us continually improve, we are sending you a short, anonymous survey that will help us improve internal communications and management.

Please go to this link to complete your survey in the next 48 hours:

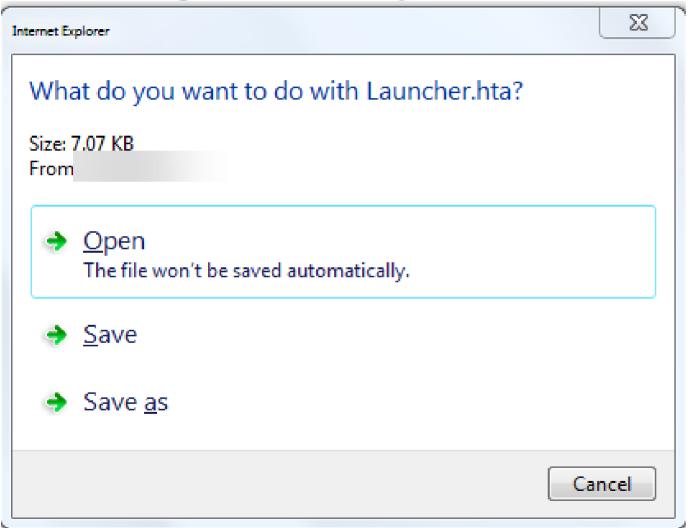
https://survey-supercompany.com/survey/gkd3dzxxwrk423tjsdkjvzxqa

Supercompany is committed to attracting the best people in the industry, increasing their levels of job satisfaction, and encouraging them to grow and develop. Our goal is to build a culture that utilizes the talents that individuals bring to the company.

In order to help facilitate a productive and successful work environment, we need your help. We have developed a very brief survey, which will help us to anonymously get your feedback. Please take a few moments of your time to fill out this brief employee survey. We have created a secure page to access the survey. This will provide you secure access to our private survey link and to allow the survey to only be taken once per account. All survey information will be kept anonymous and not connected with you or your user account. We feel that this will allow you to be honest and accurate with your answers.

We truly value all of our employees' feedback. Thank you for your prompt attention to this survey.



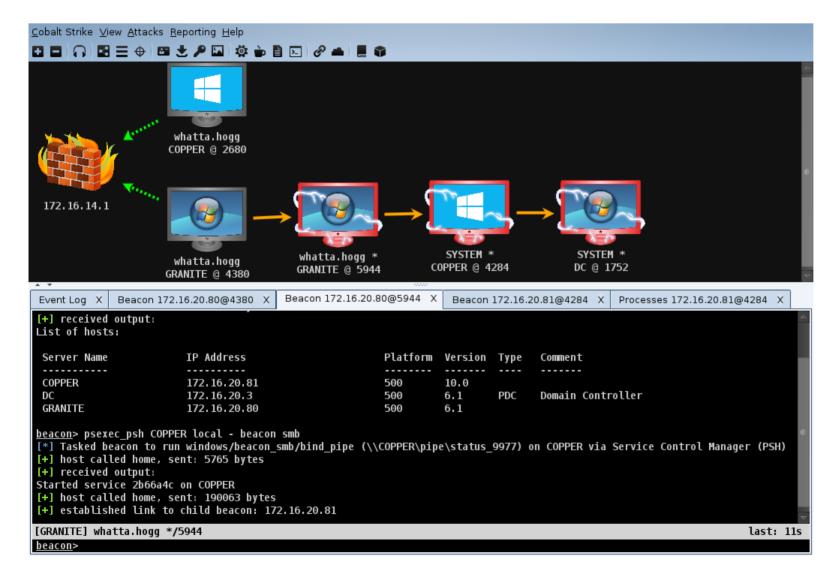


Community-Quality-of-Life Survey

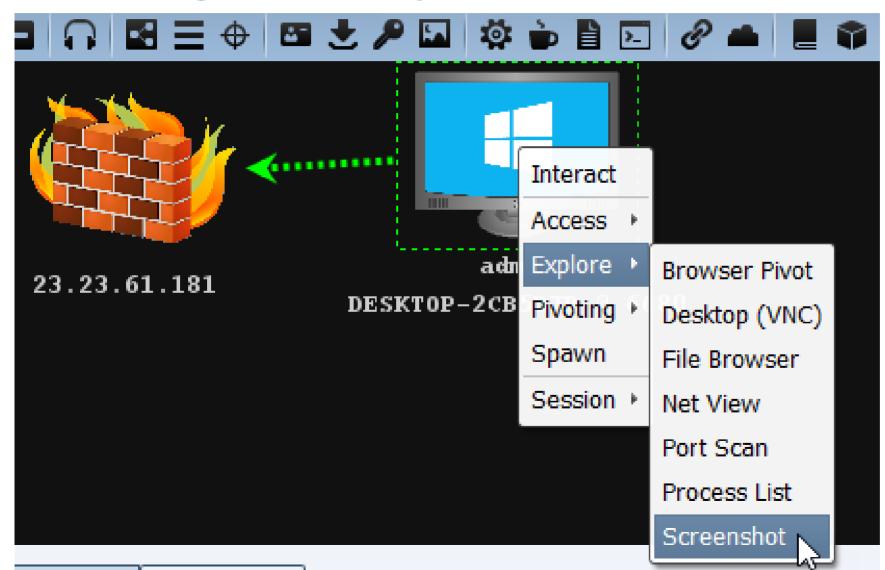
| Local Conditions | | | | | | | | | | |
|---|-------------------------|-------------|------------------------|-------------------|---------------------|---------|-------------|--|--|--|
| How do you feel about the following local conditions? | | | | | | | | | | |
| | terrible | unhappy | mostly dissatisfied | mixed feelings | mostly satisfied | pleased | delighted | | | |
| Physical environment | \circ | 0 | 0 | 0 | \circ | 0 | 0 | | | |
| Neighborhood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Housing | \circ | 0 | 0 | 0 | \circ | \circ | 0 | | | |
| Public Safety | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Street Lighting | \circ | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Cost of Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Real Estate Taxes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| How do you feel about local conditions in your city overall? terrible unhappy | | | | | | | | | | |
| o mostly dissatisfied | | | | | | | | | | |
| mixed feelings | | | | | | | | | | |
| o mostly satisfied | | | | | | | | | | |
| O pleased | | | | | | | | | | |
| delighted | | | | | | | | | | |
| BACK Never submit passwo | NEXT ords through Go | ogle Forms. | | | | | Page 2 of 9 | | | |











Tiltak

Sjekk din egen bedrift for åpne ting på nettet

Tren brukere på phishing

Utfør herding av systemene

Gjennomfør pentest / red team

Bygg deteksjoner

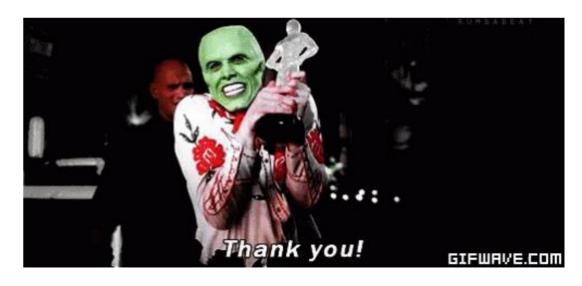




TAKK FOR MEG!

@oddvarmoe

Oddvar.moe@trustedsec.com





LINKER

https://github.com/OJ/gobuster/releases

https://github.com/Flangvik/TeamFiltration

https://github.com/darkoperator/dnsrecon

https://github.com/FortyNorthSecurity/EyeWitness

https://github.com/michenriksen/aquatone

https://dnsdumpster.com

https://shodan.io

https://osintframework.com

https://www.exploit-db.com/google-hacking-database

https://github.com/0xZDH/o365spray

https://github.com/nyxgeek/lyncsmash

https://github.com/proxycannon/proxycannon-ng



Takk til våre sponsorer





glasspaper





























Tusen takk! MP-Dagen