

# RSA® Conference 2015

Singapore | 22-24 July | Marina Bay Sands

## Illuminating the Deep Dark Web with drugs, exploits, and zero- days

CLE-R09

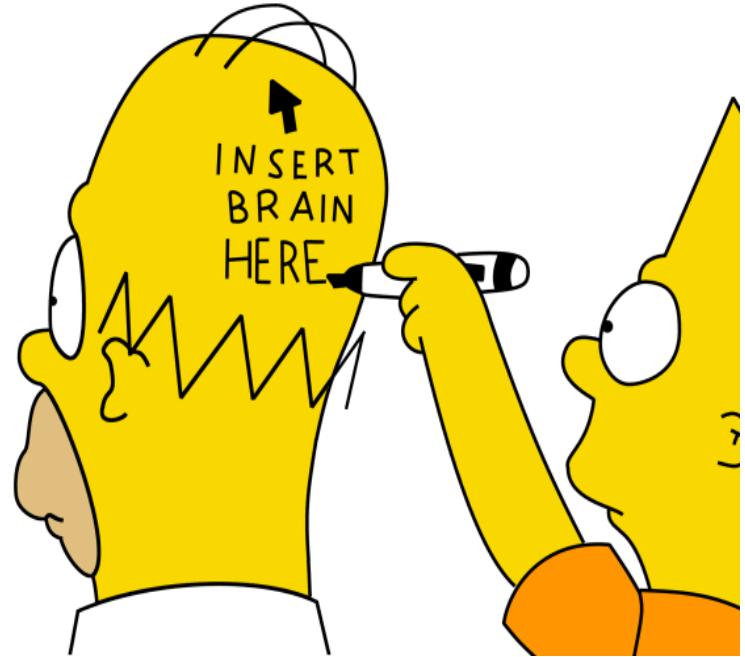
Jack Chan

Security Strategist  
FortiGuard Advanced Labs, Fortinet  
@FortiGuardLabs



# WARNING

- ◆ Presentation contains real world attacker methods and demos
- ◆ Some material is not suitable to all audiences
- ◆ Use common sense and ethical guidelines
- ◆ Don't be Homer Simpson



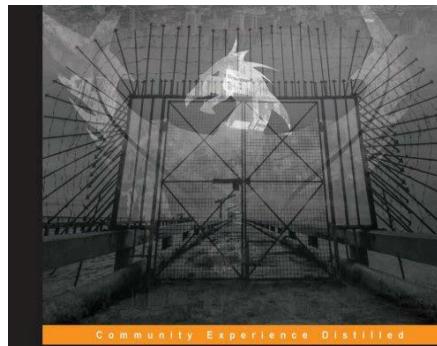
# Who are we...

**Aamir Lakhani**  
*Researcher / Consultant  
Ninja / Pirate / Hacker*

**Jack Chan**  
*Security Strategist, consultant*



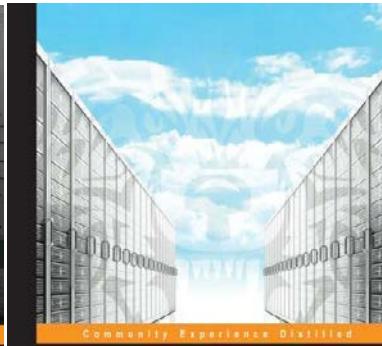
*Time Magazine's Person of the Year 2006...*



**Penetration Testing with Raspberry Pi**

Construct a hacking arsenal for penetration testers or hacking enthusiasts using Kali Linux on a Raspberry Pi

Joseph Muniz Aamir Lakhani



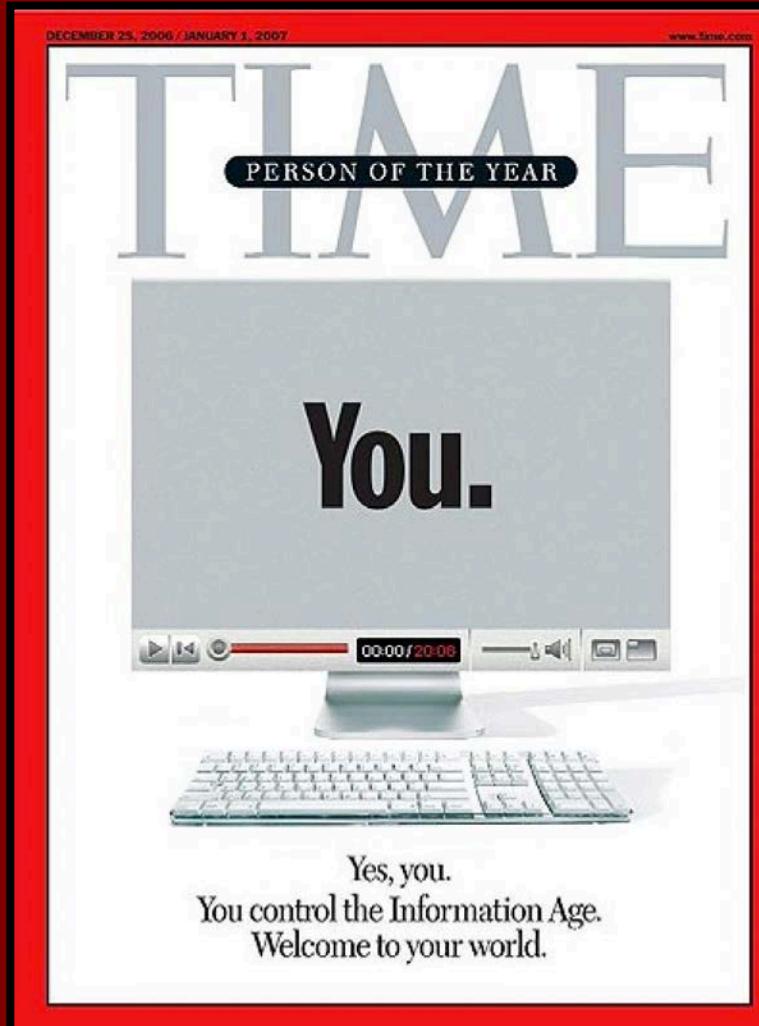
**Web Penetration Testing with Kali Linux**

A practical guide to implementing penetration testing strategies on websites, web applications, and standard web protocols with Kali Linux

Joseph Muniz Aamir Lakhani

[PACKT] open source PUBLISHING

And so were...



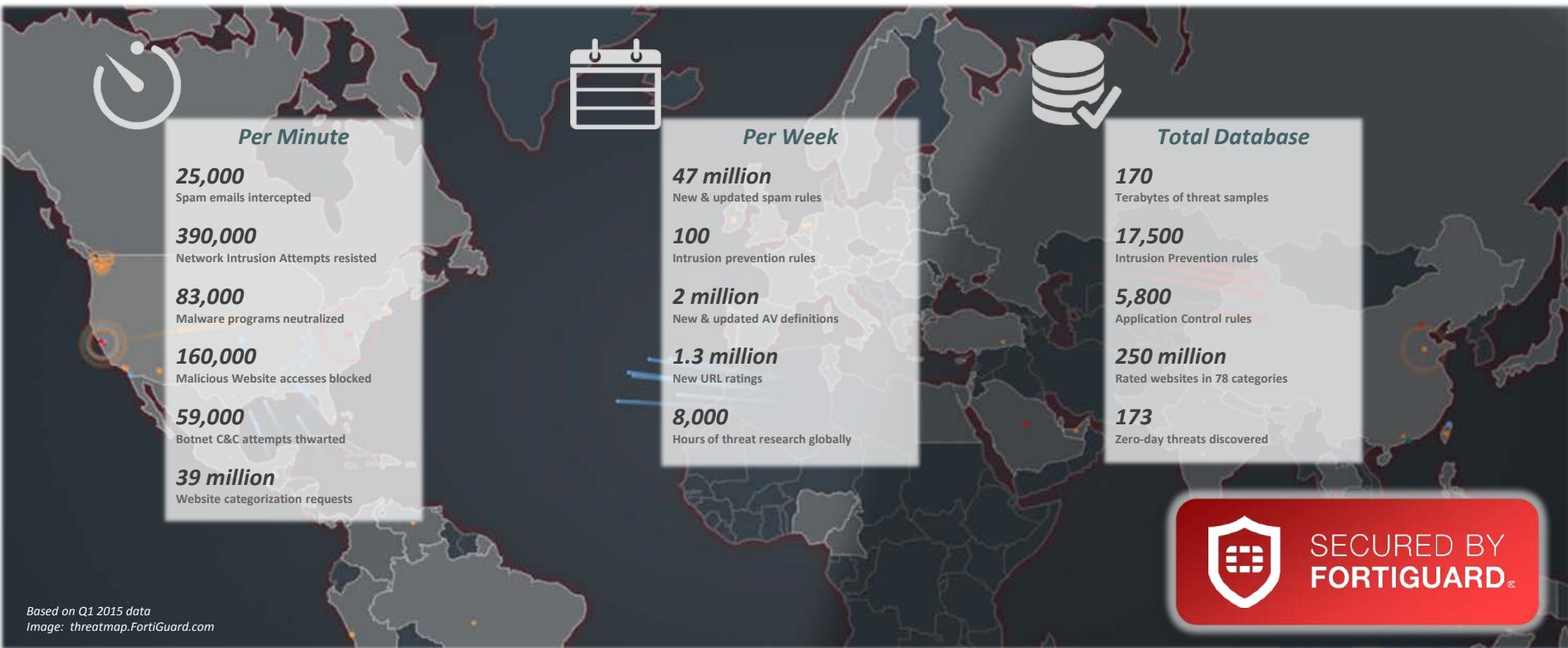


**"There are only two types of companies:**  
those that have been hacked,  
and those that will be."

Robert Mueller  
FBI Director, 2012

# Fortinet Advantage – FortiGuard Labs Threat Research

## The FortiGuard Minute



SECURED BY  
**FORTIGUARD**

# Deep Web

## Invisible web

## Hidden web



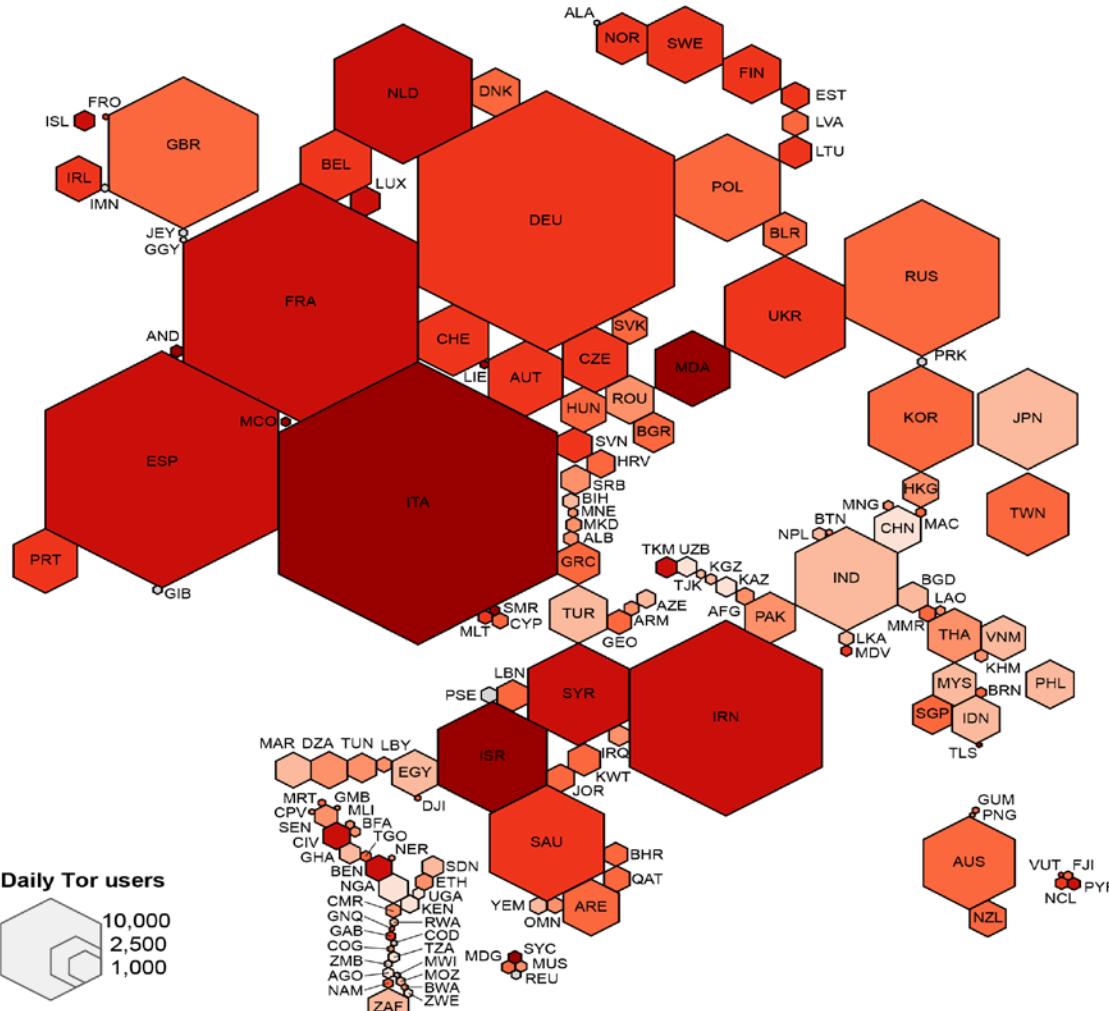
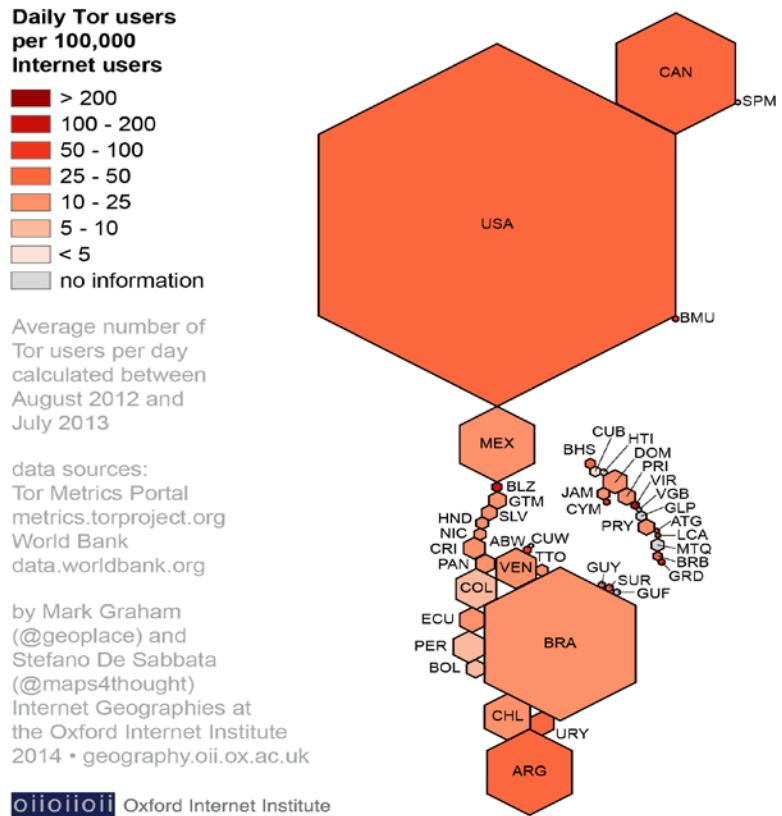
1994

- Dr. Jill Ellsworth used the term *Invisible Web*

2001

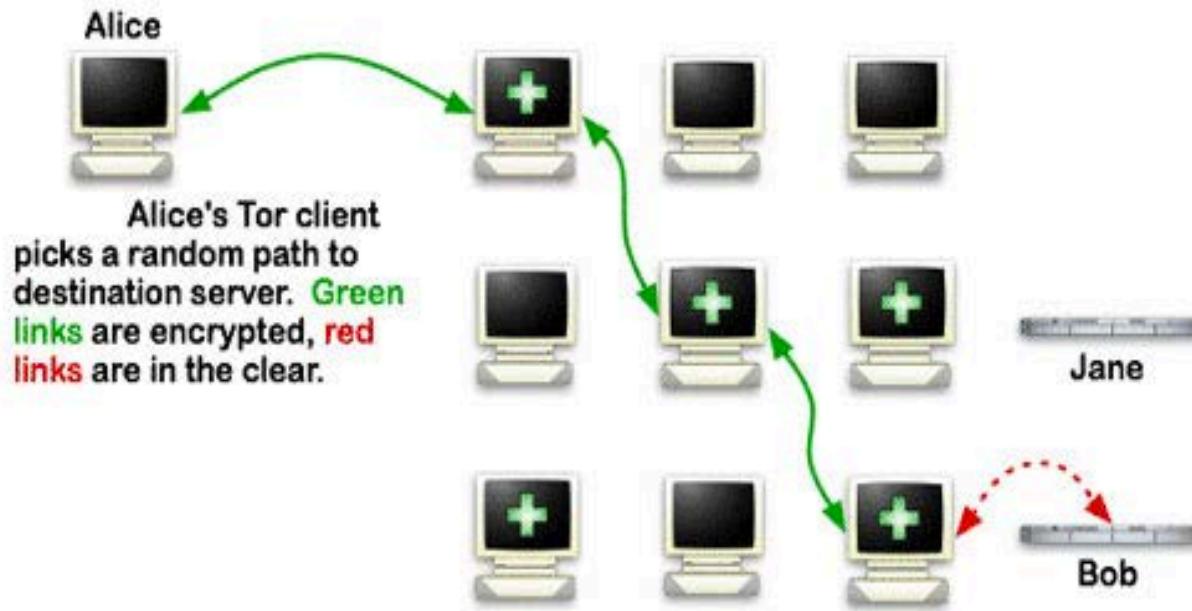
- The first use of the specific term *Deep Web* occurred in Michael Bergman study

# The anonymous Internet



# How Tor Works

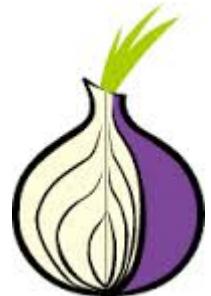
 Tor node  
 ... → unencrypted link  
 → encrypted link



Source: TOR Project

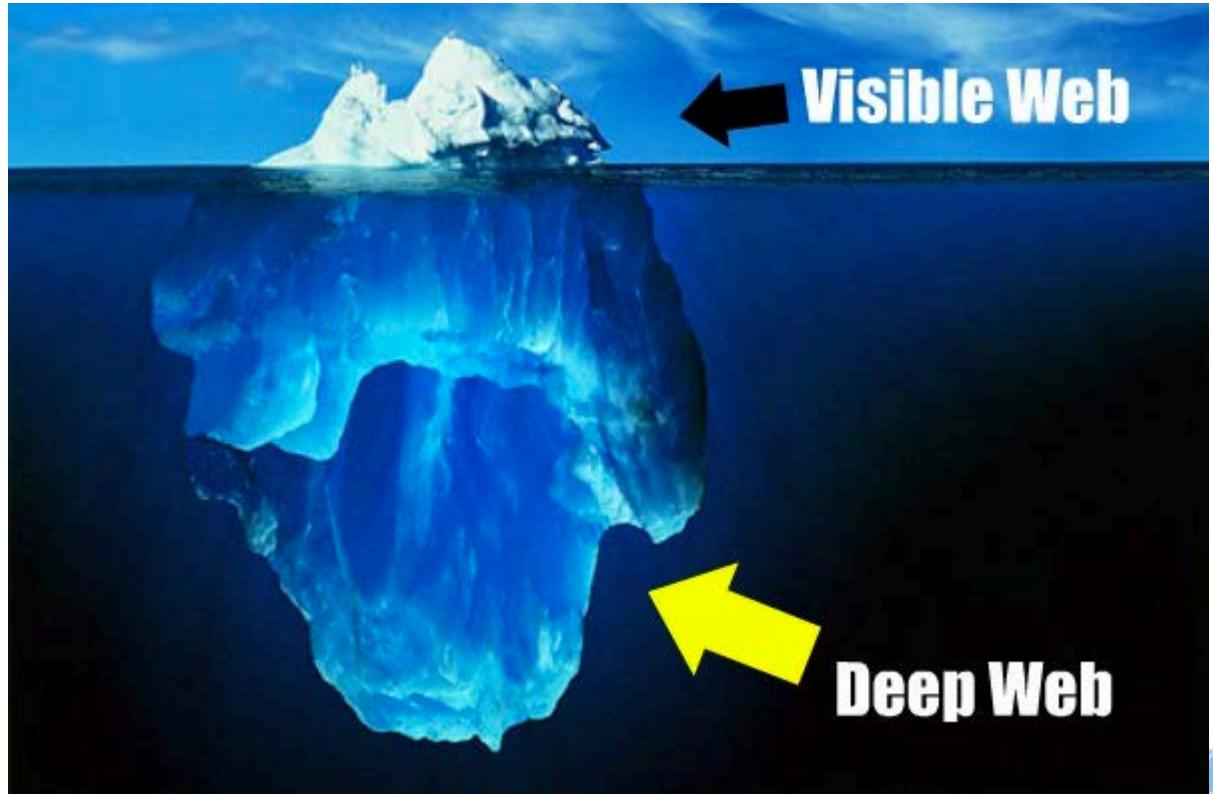
## .Onion

- Works like a top-level domain
- Tor Hidden Services
- Can be hosted or Peer-to-Peer
- Can be found by search engines only if they want to be
- Must be on the TOR network or use a Web-to-TOR proxy to access
- Looks like this: <http://3g2upl4pq6kufc4m.onion/> - DuckDuckGo Search
- Used for legitimate sites like Facebook and human right groups
- Used for illegal services and forums for illegal activity
- We are starting to see .onion sites with SSL – but that may actually reduce anonymity



## The Deep Web

- 1000X larger?
- 7Tb observed
- More than just WWW services
- Different levels of Deep Web



# Why Search Engines Can't find them

- ◆ Private web
- ◆ Unlinked content
- ◆ Dynamic content
- ◆ Limited-access content
- ◆ Non-HTML content
- ◆ Hidden source code



# Playing the Levels

- Level 0: Common Web

- Level 1: Surface Web

- Reddit
- Digg
- Temp Email Services

- Level 2: Bergie Web

- Google locked results
- Honeypots
- 4Chan, Newsgroups, FTP, other services
- Freehive, Bunny Tube, Streams



- Level 4: Charter Web

- Hacking Groups
- Shelling Networking
- AI Theorist
- Banned media
- Activist communications

- Level 5:

- Onion Sites
- Illegal Material
- Human Trafficking, Bounty Hunters, Rare Animal Trade
- Exploits, Black Markets, Drugs

## Deep Web Level 8

- What happened to levels 6 – 7?

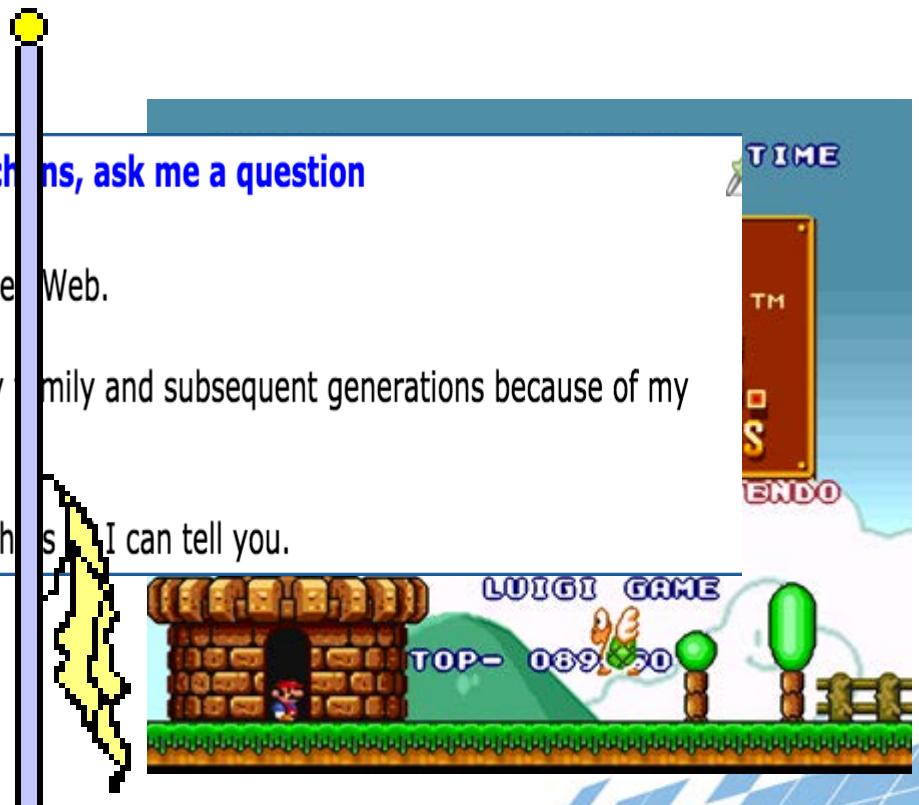
I entered the 8th Level of the Deep Web and met the Archons, ask me a question

Believe it or not but I managed to enter the 8th level of the Deep

How am I still alive? Well, they said they won't touch me or my accomplishment.

You do not need superior hacking skills to enter the 8th Level th

- Made up, BS, Fake?



# Jumping On



Home    About Tor    Documentation    Press    Blog    Contact

[Download](#)

[Volunteer](#)

[Donate](#)

HOME » PROJECTS » TORBROWSER

Software & Services: • [Arm](#) • [Orbot](#) • [Tails](#) • [TorBirdy](#) • [Onionoo](#) • [Metrics Portal](#) • [Tor Cloud](#) • [Obfsproxy](#) • [Shadow](#) • [Tor2Web](#)



 **DOWNLOAD**  
Tor Browser

Installation Instructions  
[Windows](#) • [OS X](#) • [Linux](#)

## What is the Tor Browser?

The **Tor** software protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, it prevents the sites you visit from learning your physical location, and it lets you access sites which are blocked.

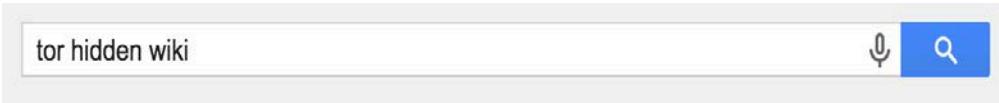
The **Tor Browser** lets you use Tor on Windows, Mac OS X, or Linux without needing to install any software. It can run off a USB flash drive, comes with a pre-configured web browser to protect your anonymity, and is self-contained.

Do you like what we do? Please consider making a donation »



# Tor Hidden Wiki – The First Place You will go to feel Dark

- Collection of hidden links and .onion sites
- How hard is it to find?



A screenshot of a web browser showing search results for "tor hidden wiki" on DuckDuckGo. The search bar at the top contains the query. Below the search bar, there are tabs for "Web", "News", "Videos", "Images", "Shopping", "More", and "Search tools". The "Web" tab is selected. The search results page shows a list of links, with the first link being "Hidden Wiki | Tor .onion urls directories" from [thehiddenwiki.org/](http://thehiddenwiki.org/).

Web News Videos Images Shopping More Search tools

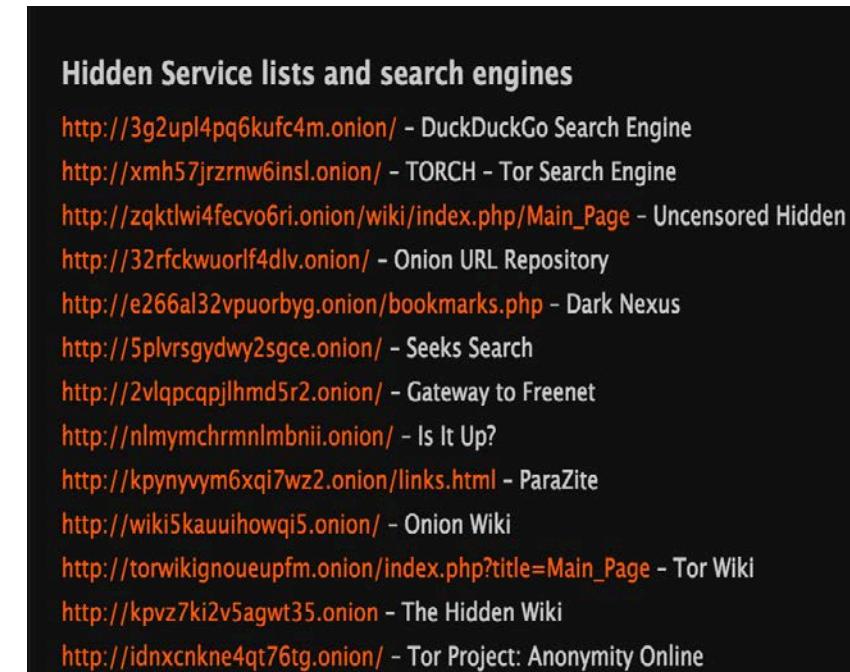
About 430,000 results (0.38 seconds)

## Hidden Wiki | Tor .onion urls directories

[thehiddenwiki.org/](http://thehiddenwiki.org/)

Hidden Wiki .onionUrls Tor Link Directory. Category: / Tags: no tag / Add ... All You're Wiki – clone of the clean hidden wiki that went down with freedom hosting.

[Deep Web Articles - BBC Horizon showing ... - Silk Road shutdown, domain ...](#)



A screenshot of a web browser showing search results for "Hidden Service lists and search engines" on DuckDuckGo. The search bar at the top contains the query. Below the search bar, there are tabs for "Web", "News", "Videos", "Images", "Shopping", "More", and "Search tools". The "Web" tab is selected. The search results page shows a list of links, including "Hidden Service lists and search engines" from [zqktlwi4fecvo6ri.onion/wiki/index.php/Main\\_Page](http://zqktlwi4fecvo6ri.onion/wiki/index.php/Main_Page).

## Hidden Service lists and search engines

- <http://3g2upl4pq6kufc4m.onion/> - DuckDuckGo Search Engine
- <http://xmh57jrzrnw6insl.onion/> - TORCH - Tor Search Engine
- [http://zqktlwi4fecvo6ri.onion/wiki/index.php/Main\\_Page](http://zqktlwi4fecvo6ri.onion/wiki/index.php/Main_Page) - Uncensored Hidden
- <http://32rfckwuorlf4dlv.onion/> - Onion URL Repository
- <http://e266al32vpuorbyg.onion/bookmarks.php> - Dark Nexus
- <http://5plvrsgydw2sgce.onion/> - Seeks Search
- <http://2vlqpcqpjlhmd5r2.onion/> - Gateway to Freenet
- <http://nlmyymchrmnlnmbnii.onion/> - Is It Up?
- <http://kpynyvym6xqi7wz2.onion/links.html> - ParaZite
- <http://wiki5kauuihowqi5.onion/> - Onion Wiki
- [http://torwikignoueupfm.onion/index.php?title=Main\\_Page](http://torwikignoueupfm.onion/index.php?title=Main_Page) - Tor Wiki
- <http://kpvtz7ki2v5agwt35.onion> - The Hidden Wiki
- <http://idnxcnkne4qt76tg.onion> - Tor Project: Anonymity Online



C



U.S. Immigration and  
Customs Enforcement



# THIS HIDDEN SITE HAS BEEN SEIZED

as part of a joint law enforcement operation by  
**the Federal Bureau of Investigation, ICE Homeland Security Investigations,  
and European law enforcement agencies acting through Europol and Eurojust**

in accordance with the law of European Union member states  
and a protective order obtained by the United States Attorney's Office for the Southern District of New York  
in coordination with the U.S. Department of Justice's Computer Crime & Intellectual Property Section  
issued pursuant to 18 U.S.C. § 983(j) by the  
United States District Court for the Southern District of New York



- ◆ Mind-reeling amount of information
- ◆ Powerful
- ◆ Secure
- ◆ Free of surveillance
- ◆ You can get anything



TorBrowser ▾

Cannabis

agorabasakxmewww.onion/cat/VS5XwFcJBY

Agora Beta

Welcome girlsJustWanna396 :: Wallet 0.0000000 BTC (Display USD/BTC) :: \$ 649.87 USD

0 NEW MESSAGES LOGOUT

DRUGS > CANNABIS >

Search

**Cannabis**

Concentrates (60+)

Edibles (40+)

Hash (100+)

Synthetics (20+)

Weed (800+)

Main menu:

Counterfeits (100+)

Data (100+)

Drug paraphernalia (9)

Drugs (3900+)

Electronics (5)

Forgeries (100+)

Information (600+)

Jewelry

Services (100+)

Tobacco (40+)

Weapons (60+)

1 Kg Perfect Outdoor 9.07873882 BTC

Bhang Fire Chocolate, 0.04616307 BTC

3 LB&#39;s Fruity Thai 2.46203086 BTC

1 ounce of Afghani #1 - 0.35083939 BTC

10gr Afghan Kush 0.16849523 BTC

1.1g HIGHGRADE 0.03539169 BTC

14g HIGHGRADE 0.31852524 BTC

1oz of &#39;100% O.G. 0.61550771 BTC

Open Indica Cartridge, 0.12310154 BTC

AAA+ Medical Indoor 1.46183082 BTC

7 grams(1/4 oz) Big Bud x 0.09078738 BTC

3.5g of &#39;100% O.G. 0.09694246 BTC

25gr Purple Kush 0.26005201 BTC

1.1g HIGHGRADE 0.03693046 BTC

28g (1oz) Medical-Grade 0.30775385 BTC

(1.2)Gram TOP SHELF 0.03077538 BTC

Super Rare Cantalope 0.03077538 BTC

10g Arjan&acute;s 0.25389693 BTC

Niqua Hotel Booking 2.30815393 BTC

CHARLIE BARTLETT 5\$ Dime Bag! 1.0 gram 0.00769384 BTC

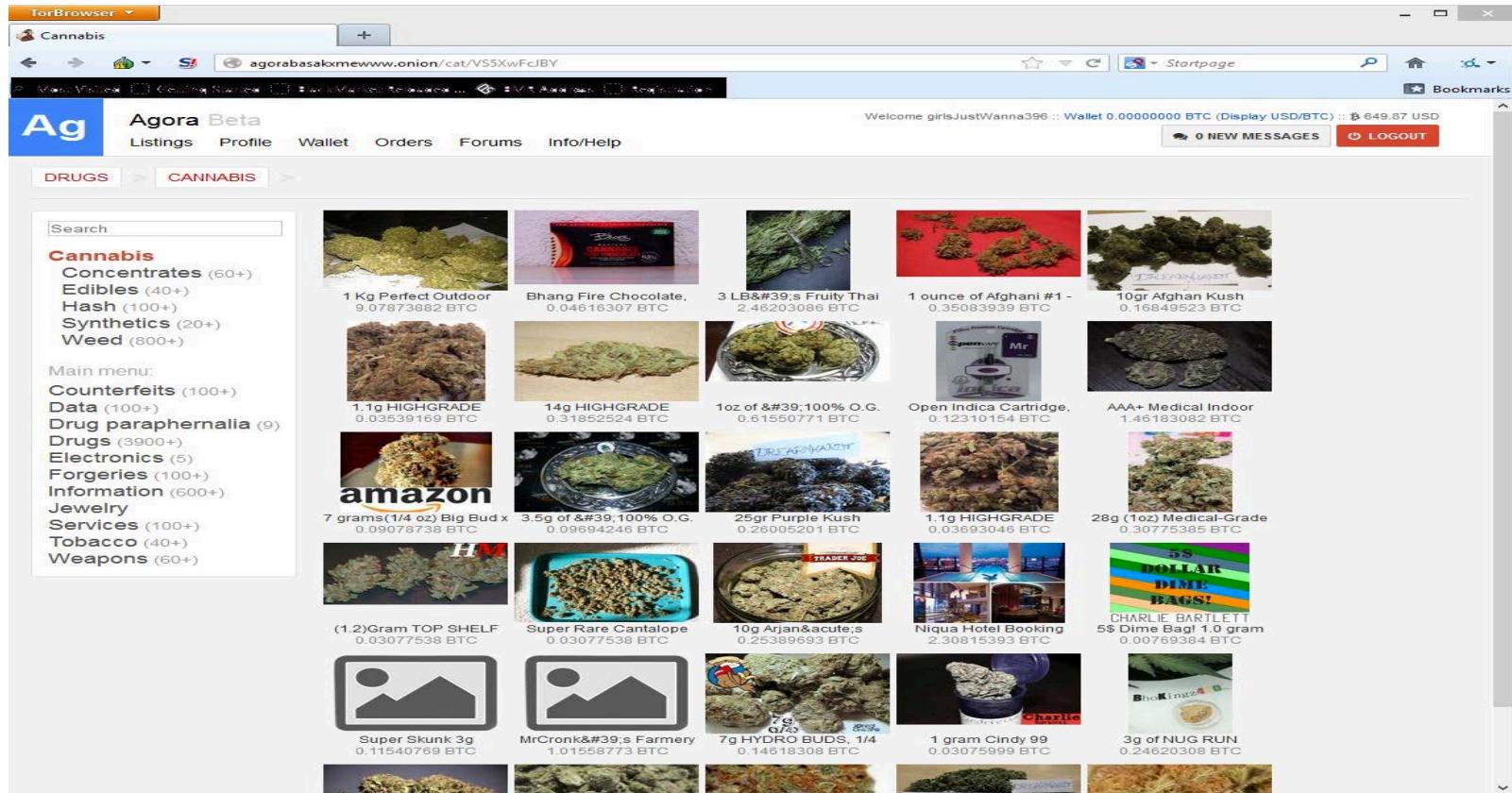
Super Skunk 3g 0.11540769 BTC

MrCronk&#39;s Farmery 1.01558773 BTC

7g HYDRO BUDS, 1/4 0.14618308 BTC

1 gram Cindy 99 0.03075999 BTC

3g of NUG RUN 0.24620308 BTC



COUNTERFEITS &gt;

ACCESSORIES &gt;

 Search

Counterfeits

**Accessories** (60+)

Clothing (200+)

Electronics (20+)

Money (60+)

Watches (300+)

Main menu:

Counterfeits (600+)

Data (400+)

Drug paraphernalia (100+)

Drugs (12800+)

Electronics (100+)

Forgeries (200+)

Information (1400+)

Jewelry (100+)

Services (500+)

Tobacco (200+)

Weapons (100+)

Other (100+)

## Louis Vuitton Eva Clutch

0.15633956 BTC

This stylish Louis Vuitton Eva Clutch comes with a golden chain wrist strap and a leather cross shoulder strap.

The real ones go for \$775. You can own this identical version for just \$60.

Brought to you by:

[MagicHat](#)  4.82/5, 300~500 deals

 From:  USA

 To: Worldwide

### 0.15633956 BTC

 BUY...

#### Feedbacks:

**5/5** Terrific Vendor. Awesome product! Can't wait to order more :) Thanks  
MagicHat! 38 days ago anon  ~5/5, 6~10 deals

**5/5** Looks just as good as my real LV. Great product...looking for more LV products soon! 84 days ago anon  ~5/5, 10~15 deals

**5/5** Looks just as good as my real LV. Great product...looking for more LV products soon! 122 days ago anon  ~2/5, 3~5 deals

# Crime is Thriving



**Products** **About us** **FAQs** **Register** **Login**

**THE PEOPLES DRUG STORE** pride ourselves on offering the best quality products at competitive prices and making every effort to go above and beyond when it comes to customer satisfaction!

Choose a category by clicking on any of the following:

***Heroin, Cocaine, Ecstasy, Speed, Cannabis  
Prescriptions, Bitcoins and Services***

**WANNA MAKE SOME FREE BTC??**

Tell others about this shop, and earn 5% from every purchase they will make. Simply give them the following link:  
<http://www.peoplesharmacy.org/?ref=YOURUSERNAME> (or the original <http://newpdsslmzqazvr.onion/?ref=YOURUSERNAME>)  
Replace YOURUSERNAME with your actual username on this site and get earnings directly to your wallet.

# The Real Secret of PayPal

The PaypalCenter

TorLinks .onion... C Counterfeit USD... The PaypalCenter we rise again... Problem loadin... KC Obama urges w... lygnimwoedhioopl.onion/aboard.php

**PaypalCenter** Home Board FAQ Rules Feedback Contact / Manual

After you made your choice, click **'Buy this'**, to start the buying procedure! It's simple and only takes a minute. To prevent double-selling, if you start buying an account, it's state will change to "Locked", so nobody else can buy it again. If no payment is made within two hours, the account will be unlocked again. If the item is sold, it'll gone from this board completely.  
*(Note: The decimals are rounded in the listings.)*

**Our current account list:**

Current number of available accounts: **29**  
 Last updated: **10/01/2014**

Internal UID	Balance	Account type	Card	Country	Our Price	Add to cart
ECARQRKL	<b>701 USD</b>	<b>Personal</b>	Yes (confirmed)	United States	\$ 85	<a href="#">Buy this!</a>
QBJJSQAJY	<b>798 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 95	<a href="#">Buy this!</a>
HJNORSUL	<b>1.538 EUR</b>	<b>Personal</b>	Yes (confirmed)	Italy	\$ 200	<a href="#">Buy this!</a>
KQCPRQHR	<b>1.512 USD</b>	<b>Personal</b>	Yes (confirmed)	United States	\$ 166	<a href="#">Buy this!</a>
BAGHFGUR	<b>737 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 89	<a href="#">Buy this!</a>
XIEANRAA	<b>1.162 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 131	<a href="#">Buy this!</a>
GFFEZNLP	<b>766 USD</b>	<b>Personal</b>	No confirmed card	United States	\$ 81	LOCKED
TTCENANR	<b>1.358 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 151	<a href="#">Buy this!</a>
TVYUHGPW	<b>1.929 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 208	<a href="#">Buy this!</a>
FIKTXIEW	<b>1.718 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 187	<a href="#">Buy this!</a>
FMBMIUOF	<b>756 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 91	<a href="#">Buy this!</a>
TXOPYKYD	<b>719 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 87	<a href="#">Buy this!</a>
VOGVTCXJ	<b>1.130 USD</b>	<b>Premier</b>	Yes (confirmed)	United States	\$ 128	<a href="#">Buy this!</a>
WVQZPQ	<b>607 USD</b>	<b>Personal</b>	Yes (confirmed)	United States	LOCKED	

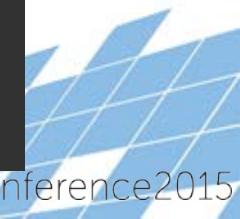
# Cyber Crime Sales

## ccPal Store - PayPals, CCs, CVV2s, Ebay accounts

We get new lists every day!

30%+ working guarantee, we will replace if more than 20% dont work!

Product	Price	Quantity	
100 PayPal accounts	100 USD = 0.260 ₩	1 X	<a href="#">Buy now</a>
100 Ebay accounts	100 USD = 0.260 ₩	1 X	<a href="#">Buy now</a>
100 CCs with CVV2	150 USD = 0.390 ₩	1 X	<a href="#">Buy now</a>





## Welcome

Welcome to **Fake Documents Service**- the unique producer of quality fake documents. We offer only original high-quality fake passports, driver's licenses, ID cards, stamps and other products for following countries: Australia, Belgium, Brazil, Canada, Finland, France, Germany, Italy, Netherlands, UK, USA and some others.

If you want to learn more about what kinds of documents can be found in our website please visit the sections "[Services](#)" and "[Samples](#)". You can find more details about ordering procedure and additional details visiting the sections "[FAQ](#)" and "[Order](#)".



# 50 USD BILLS



Our notes are produced of cotton based paper. They pass the pen test without problems. UVI is incorporated, so they pass the UV test as well. They have all necessary security features to be spent at most retailers. Free shipping in the US.

Product	Price	Quantity	
25 x 50 USD BILLS	600 USD = 1.343 ₩	1	<a href="#">Buy now</a>
100 x 50 USD BILLS	2000 USD = 4.475 ₩	1	<a href="#">Buy now</a>



# Credit Cards!

## ALL CREDIT CARD PIN CODES IN THE WORLD LEAKED ...

[pastebin.com/2qbRKh3R](http://pastebin.com/2qbRKh3R)

Sep 10, 2012 ... ALL CREDIT CARD PIN CODES IN THE WORLD LEAKED. 0000 0001 0002 0003 0004 0005 0006 0007 0008 0009. 0010 0011 0012 0013 ...

## [2015] Credit card - Pastebin.com

[pastebin.com/xB5aGiKf](http://pastebin.com/xB5aGiKf)

Jan 30, 2015 ... BANK BUKOPIN | Indonesia(ID) | VISA | CLASSIC | CREDIT CARD | LO:120 LA:- 5 [ResellerPanel]Live=> |  
4211670101485875|07/2017|844 ...

## Credit Card DUMP [Working] - Pastebin.com

[pastebin.com/0sJTUkf7](http://pastebin.com/0sJTUkf7)

Feb 10, 2015 ... Want a free creditcard? Dump below of working cards as of 10/02/2015. 4427919903011599 0817 257. 4427910007028860 1115 553.

## #OpUSA 10000 credit card leak - Pastebin.com

[pastebin.com/8QB5018R](http://pastebin.com/8QB5018R)

May 7, 2013 ... Credit card: American Express, 373276618282003. Expiration date: 8 2007. Cardholders Name: Nicole George. Credit card verification ...

## [C++] USA Credit Card LeakeD By XhàckerTN - Pastebin.com

[pastebin.com/Ay39ejx9](http://pastebin.com/Ay39ejx9)

Sep 8, 2013 ... USA Credit Card LeakeD By XhàckerTN. ( 13:34 GMT ). XhàckerTN Facebook Page : <https://www.facebook.com/Xhackertnofficial>.

XhàckerTN ...

## credit card leaked hacked - Pastebin.com

[pastebin.com/KMPwvdLs](http://pastebin.com/KMPwvdLs)

Oct 16, 2013 ... City : Hayden Lake. State : ID. Zip Code : 83835. Contry : United States. Payment Type : Visa. Debit or credit card number :



# Cybercrime Marketing

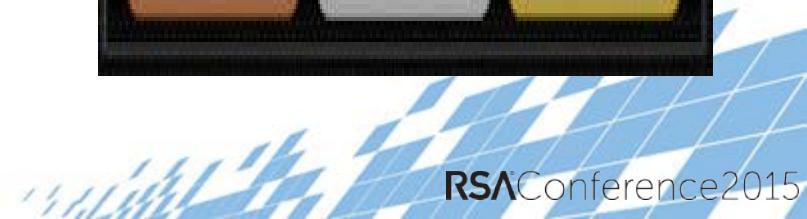
## FEATURES

- Exploit FUD 0/35
- Scan Service Online
- Crypt Service Fud 0/35
- Traffic Service
- Support All Files (pdf, movies, bat, etc)
- Domains Included
- Hosting Included
- Lifetime Support
- Automatic Update
- All OS Compatible



## PACKAGES

Pack Day	Pack Week	Pack Month
<b>20\$</b> 1 Day Unlimited Domain Names 150k Traffic Limit	<b>100\$</b> 1 Week Unlimited Domain Names 150k Traffic Limit	<b>300\$</b> 1 Month Unlimited Domain Names 150k Traffic Limit



Mr. TwoFaces 2014-11-25 16:01 (edited by Mr. TwoFaces 2014-12-04 17:39)



## Member

Offline

Registered: 2014-11-25

Posts: 17

User Karma: 10

## Collection of Cracked Paid RATs

I'd like to present to you my list of cracked paid RATs sorted by coding language.  
Please PM me if any download link isn't working. I will provide a new one for you.

Format:

Language

Name (Thread Design)

Download Link

Thank you hackb0t for providing .onion links

VB.NET (.NET 2.0)

Proton RAT (<http://i.imgur.com/Mq5hVKb.png>)

<http://sh.st/uBM0r>

Diamond RAT (<http://i.cubeupload.com/AfyMG2.png>)

<http://4zjgf5i7dkafxpdm.onion/index.php...&q=838>

LuxNET (<http://i7.minus.com/ibiXfLEOy381VW.jpg>)

<http://4zjgf5i7dkafxpdm.onion/index.php...&q=839>

Nanocore (<https://i.imgur.com/R1xLbyf.png>)

<http://4zjgf5i7dkafxpdm.onion/index.php...&q=840>

Plasma RAT v1.5.1(<http://i.imgur.com/O75WJNg.png>)

<http://ge.tt/7D7PV6x1/v/0>

PHP

KazyBot (<http://i.imgur.com/rnETeTb.png>)

<http://4zjgf5i7dkafxpdm.onion/index.php...&q=845>

# Casting some light



# Stopping TOR

- ◆ Application Protocols
- ◆ SSL Intercept
- ◆ IP Reputation-Based Filtering
- ◆ Sandbox Solutions
- ◆ DLP Solutions

# Policies that make sense

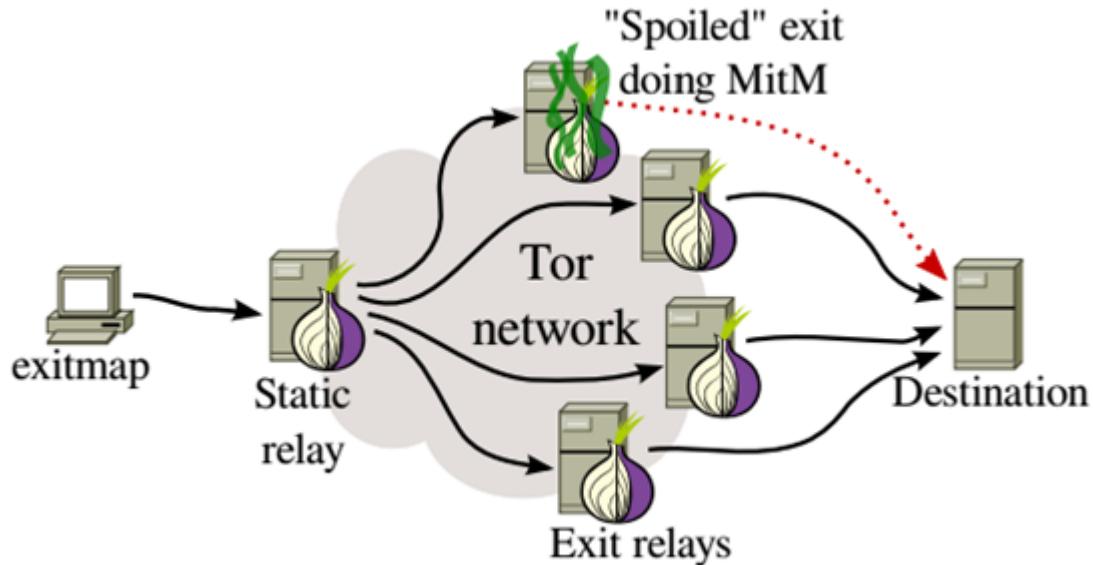




"Oh, look . . . they're reading '1984' in Ms. Smith's English class."

# “Spoiled” exit Nodes and being anonymous

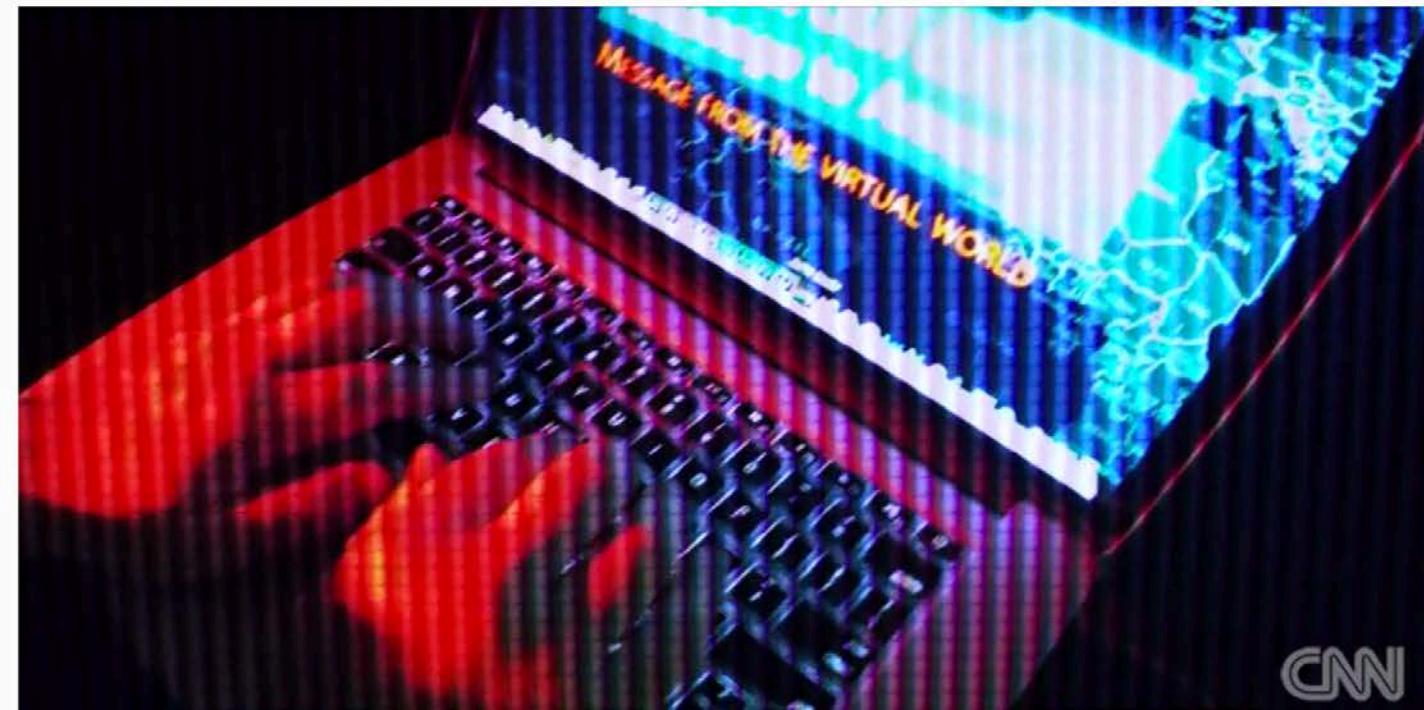
- ◆ Exit nodes doing MitM
  
  
  
- ◆ Controlling both entry and exit nodes
  
  
  
- ◆ Using NON-Tor Services



# Pentagon hunts for ISIS on the secret Internet

By **Barbara Starr** and **Jamie Crawford**, CNN

Updated 6:08 PM ET, Tue May 12, 2015



CNN

## ISIS: Full coverage



How ISIS controls Iraq from birth to foosball



ISIS loses quarter of territory in Iraq - 3 things to know



The Americans linked to ISIS



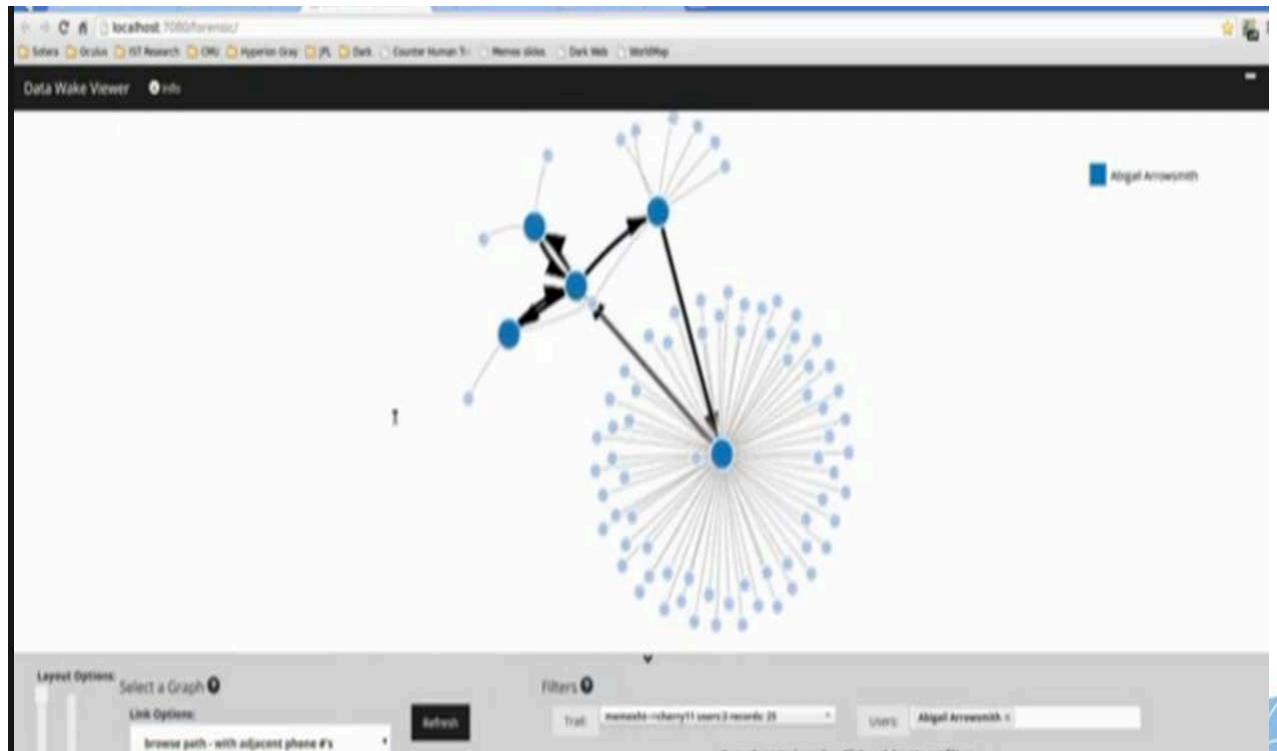
ISIS releases some Christian hostages - why?



Who's doing what in coalition battle against ISIS

# MEMEX Deep Web Search Engine

- ◆ Deep Web Crawlers
- ◆ Indexers
- ◆ Threat Intelligence
- ◆ US Gov't Program



# Want to play a game?

- ◆ Use a different system to test. Don't use VMs. Use Live CDs or USBs
- ◆ Use a VPN on top of TOR (I like Private Internet Service – others? Tweet me @aamirlakhani)
- ◆ Don't connect back to your network
- ◆ Spend time building a offline image.
- ◆ Listen, surf, and don't participate
- ◆ Almost all newbie's will get scammed, hacked, or in some sort of illegal trouble (e.g .onion Twitter)

# Apply Knowledge to Real World

Educate + Learn = Apply

Awareness

Technology

Risk Mitigation

DarkNET can be a valuable tool for security professionals

# How to Apply what I learned

- ◆ Darknet is a valuable tool for researchers to gauge the state of their cyber security program :
  - ◆ Users need to be aware of the dark and dangerous groups of attackers.
  - ◆ Reputation and Unified Threat Management Systems can help mitigate risks.
  - ◆ Researchers need to understand traffic is not anonymous. Controlling entry and exit nodes may be able to reveal true identity of users. ISPs and law enforcement may monitor TOR and other protocols.
  - ◆ Threat Intelligence can be gained by monitoring “chatter” on your employees and your organizations.

# Reputation Filtering



# 'Blastware' Beware

## Recent destructive malware in the wild

- **Disk Wipers**
  - Overwrites hard-drive and MBR
  - Triggered by logic bomb/timer
  - South Korea, March 2013
    - 3 banks, 2 media companies
    - 50,000 systems
- **Ransomware**
  - Encrypts data
  - Leaves hard drive intact
  - Forensics unhampered



## New 2014 FortiGuard Labs discovery: **DorkBot**

- Erases hard drive if analysis is detected
- New variations likely to destroy other targets



# Shout Out

- ◆ RSA and RSA Asia
- ◆ Fortinet and FortiGuard Labs
- ◆ Singapore
- ◆ TOR Project
- ◆ Google Image Search (or this presentation would have no pictures)



[www.FortiGuard.com](http://www.FortiGuard.com)

Thank You  
Thank  
you

# Thank You

- ◆ Jack Chan
- ◆ Fortinet Blog:  
[blog.fortinet.com](http://blog.fortinet.com)
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