

@Bugg

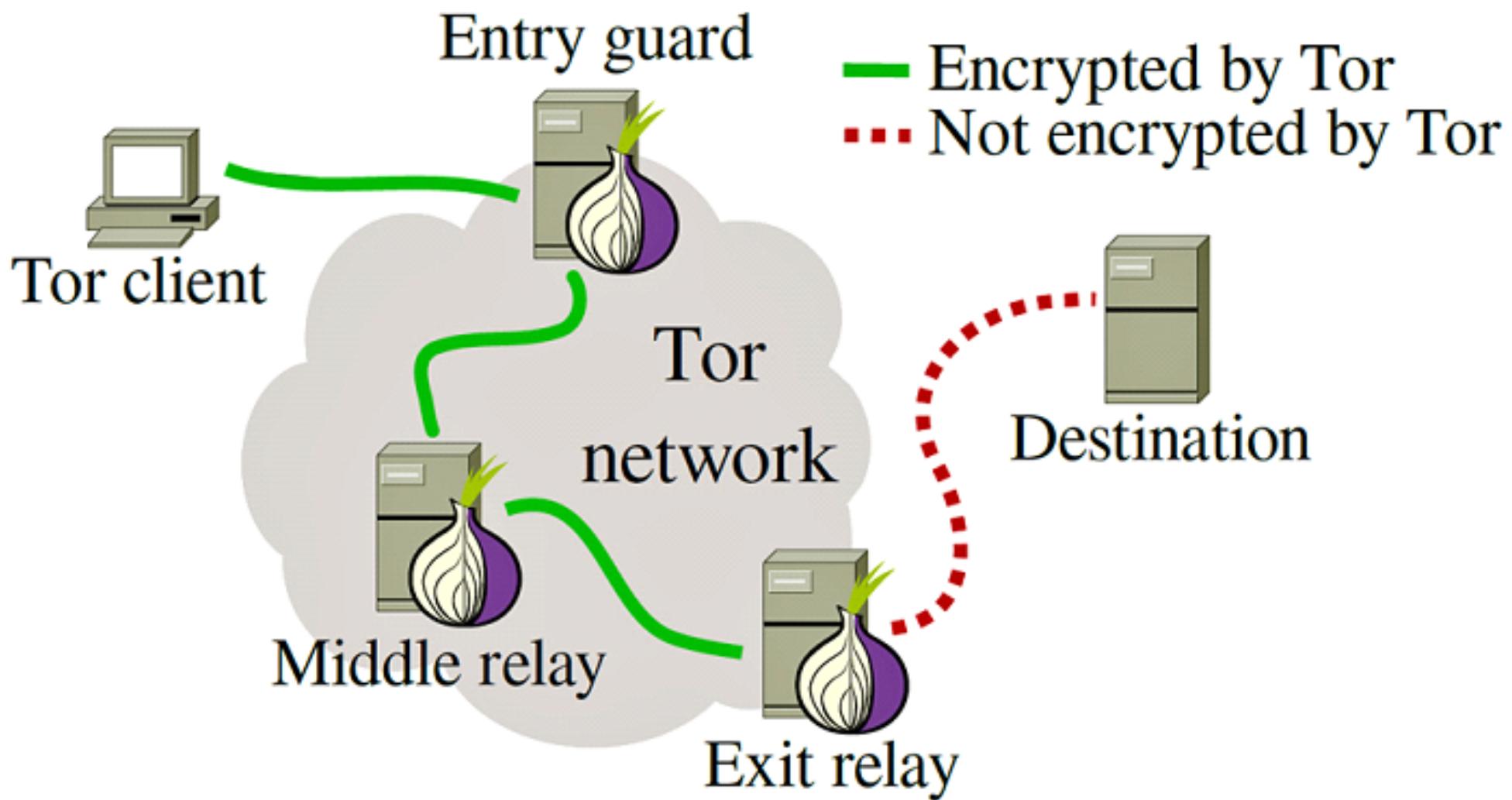
TOR = The Onion Router

“What is Tor?

Tor is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.”

-The Tor Project

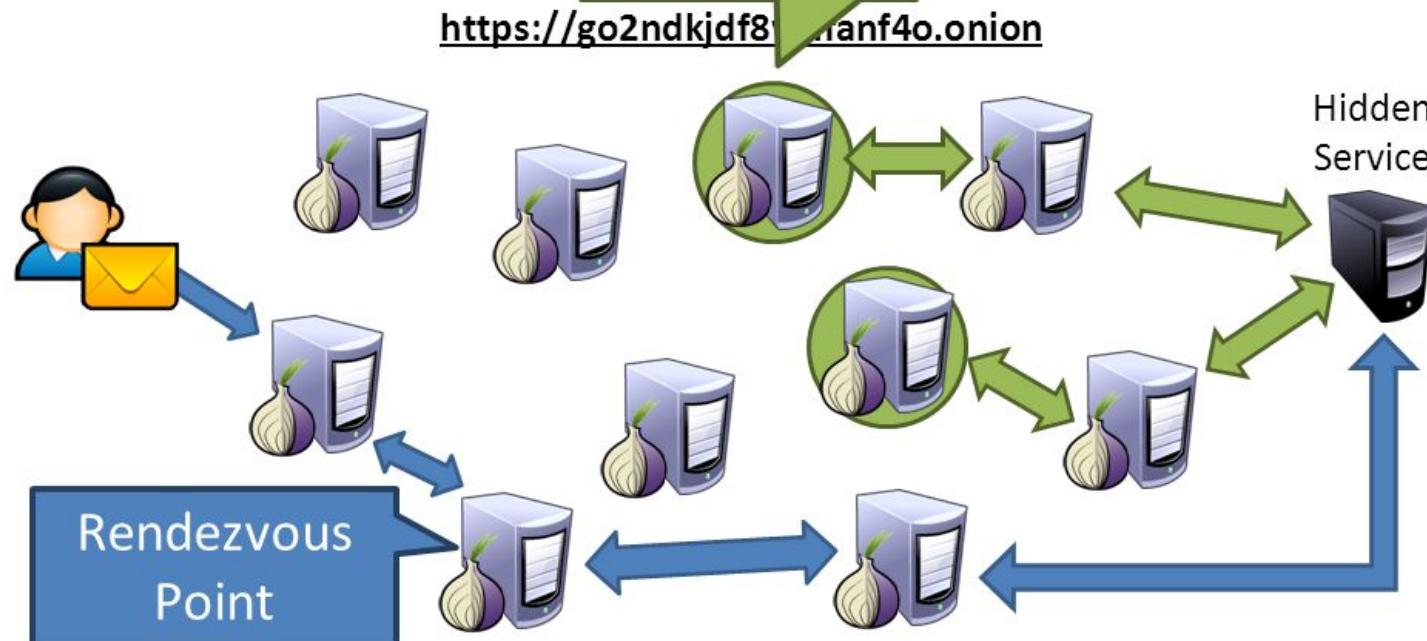
Like this



What's a Hidden Service?



Hidden Service Example



- Onion URL is a hash, allows any Tor user to find the introduction points

52

TLDR: A server that only communicates with clients over TOR

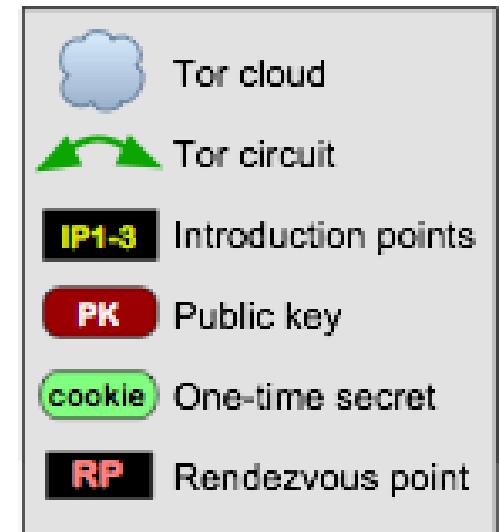
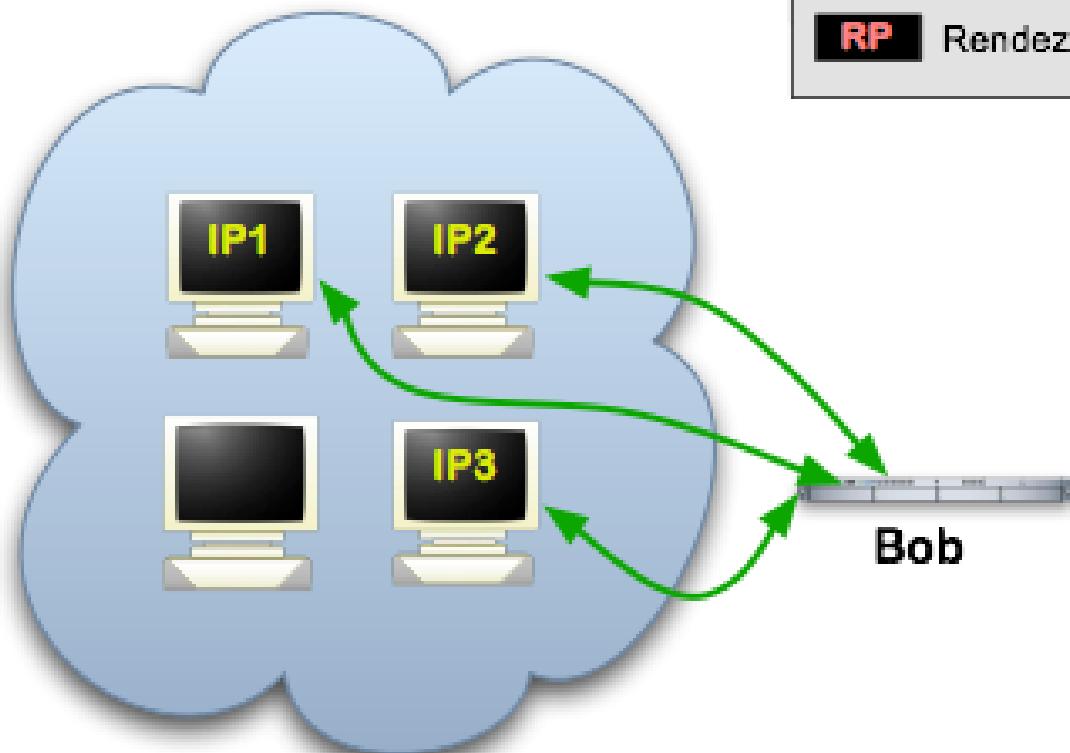
What's a Hidden Service?

Tor Hidden Services: 1

Step 1: Bob picks some introduction points and builds circuits to them.



Alice



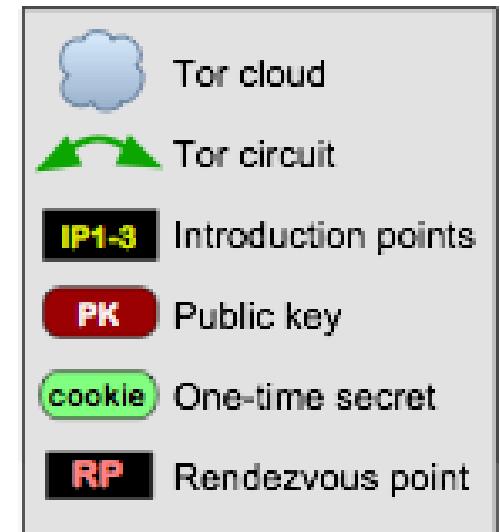
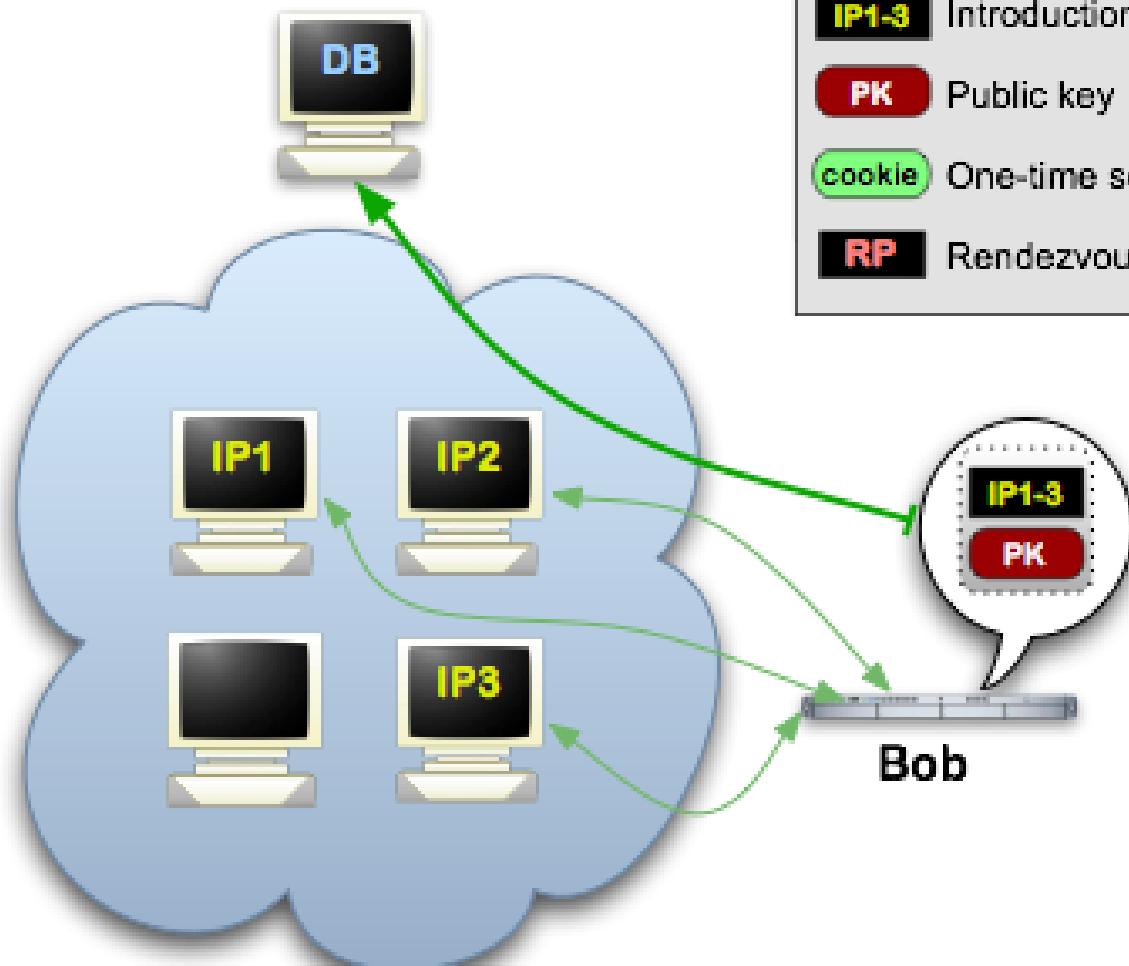
What's a Hidden Service?

Tor Hidden Services: 2

Step 2: Bob advertises his hidden service -- XYZ.onion -- at the database.



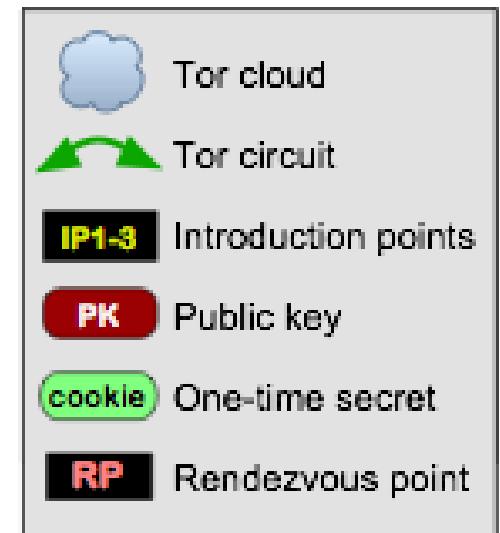
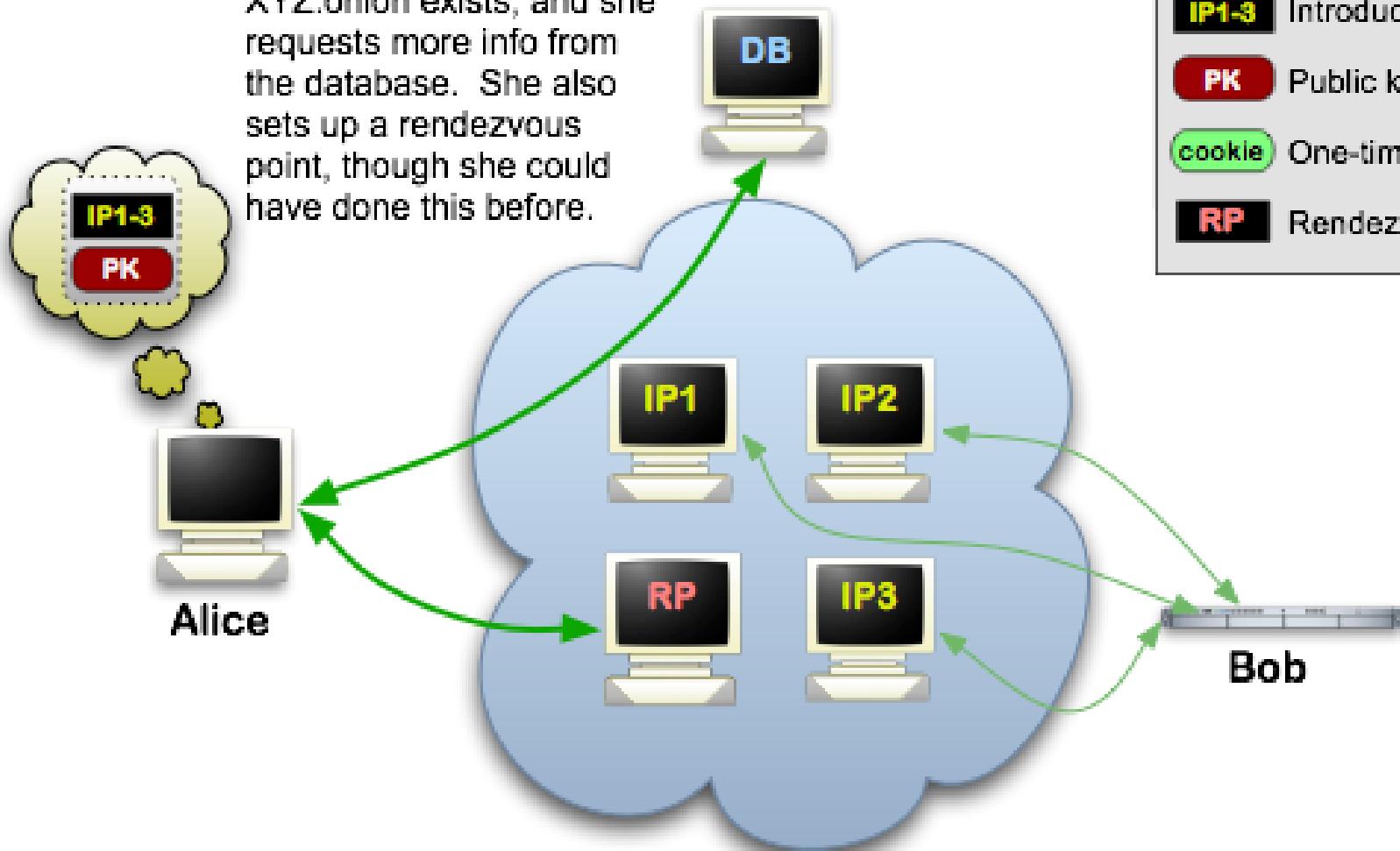
Alice



What's a Hidden Service?

Tor Hidden Services: 3

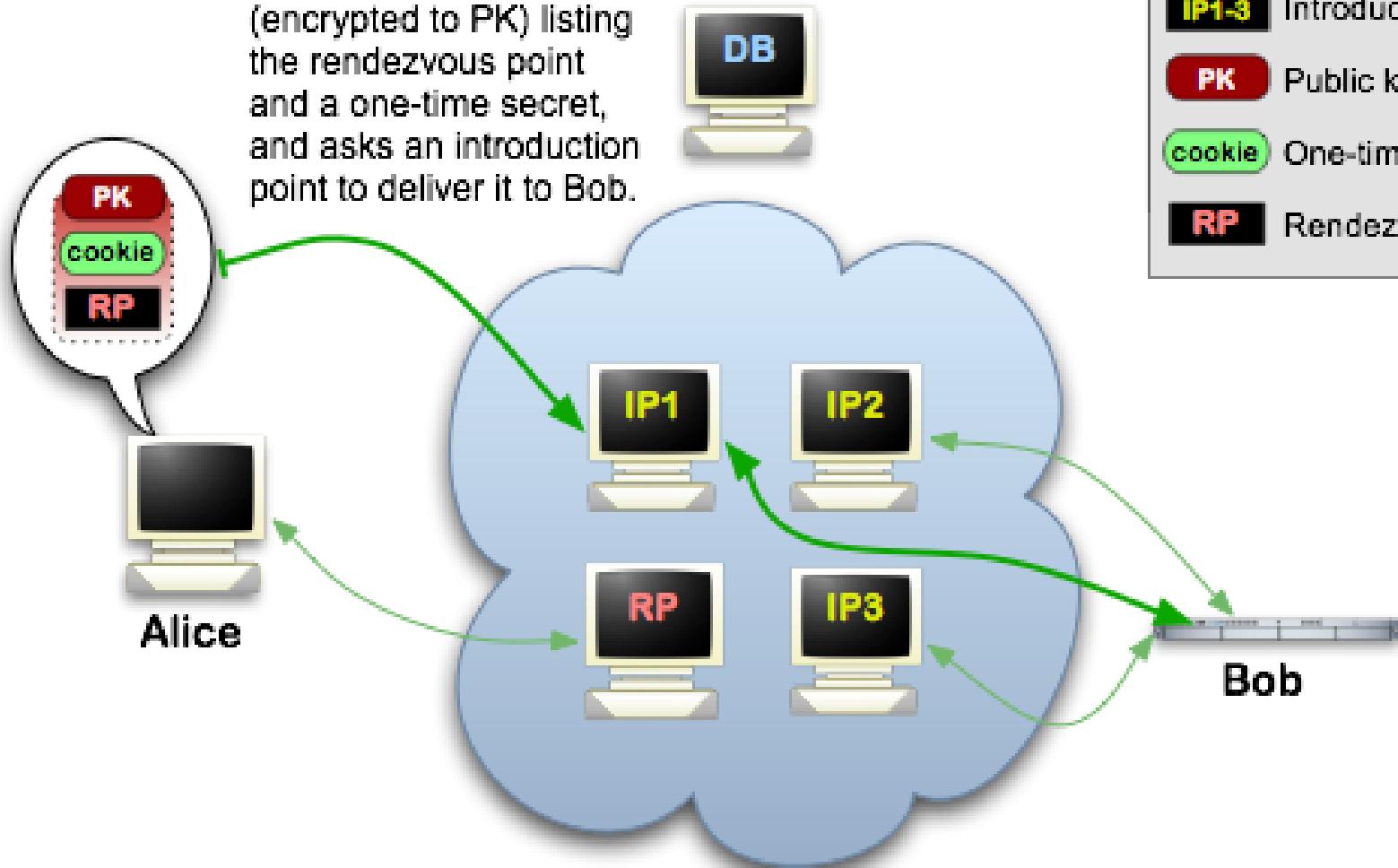
Step 3: Alice hears that XYZ.onion exists, and she requests more info from the database. She also sets up a rendezvous point, though she could have done this before.



What's a Hidden Service?

Tor Hidden Services: 4

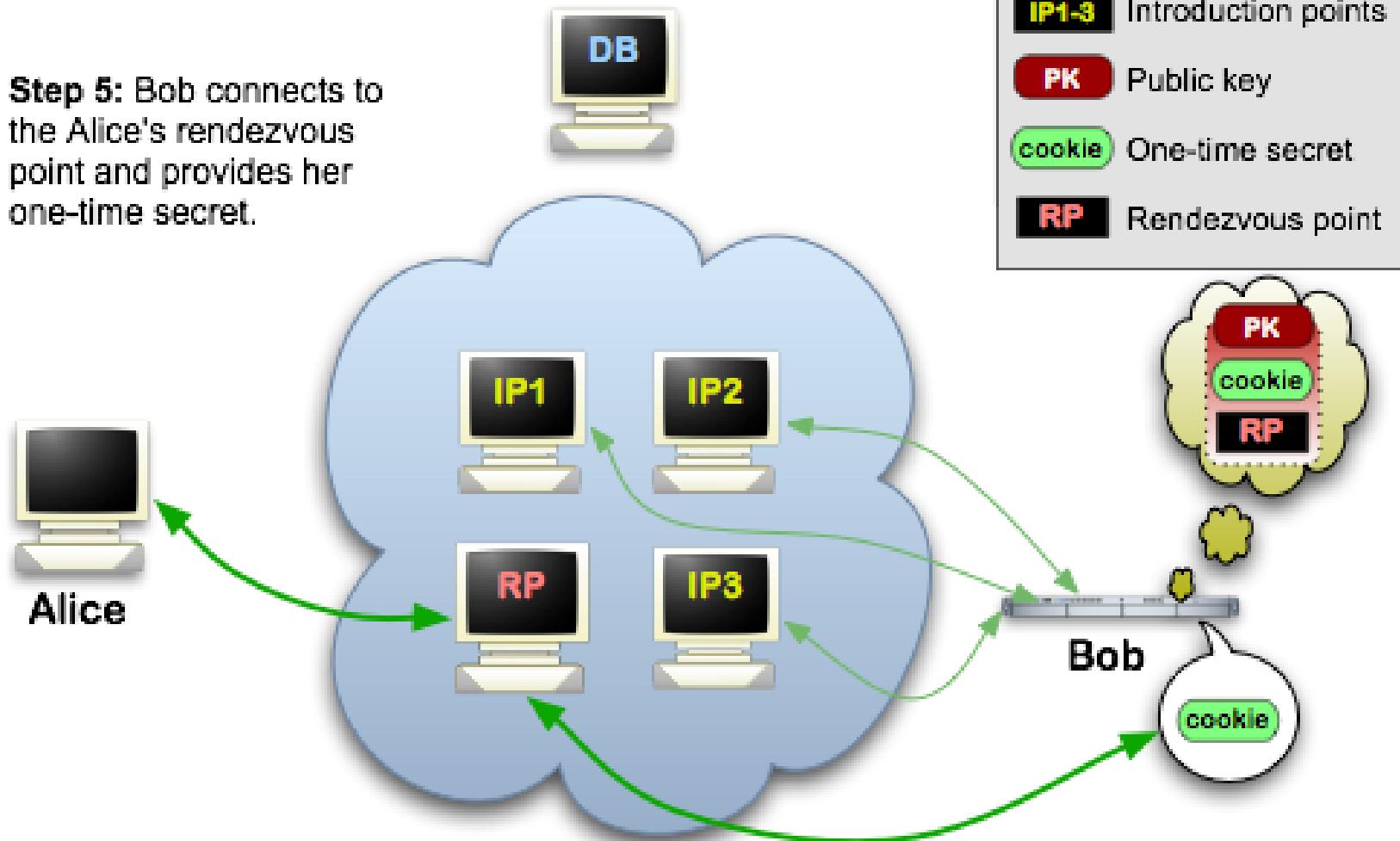
Step 4: Alice writes a message to Bob (encrypted to PK) listing the rendezvous point and a one-time secret, and asks an introduction point to deliver it to Bob.



What's a Hidden Service?

Tor Hidden Services: 5

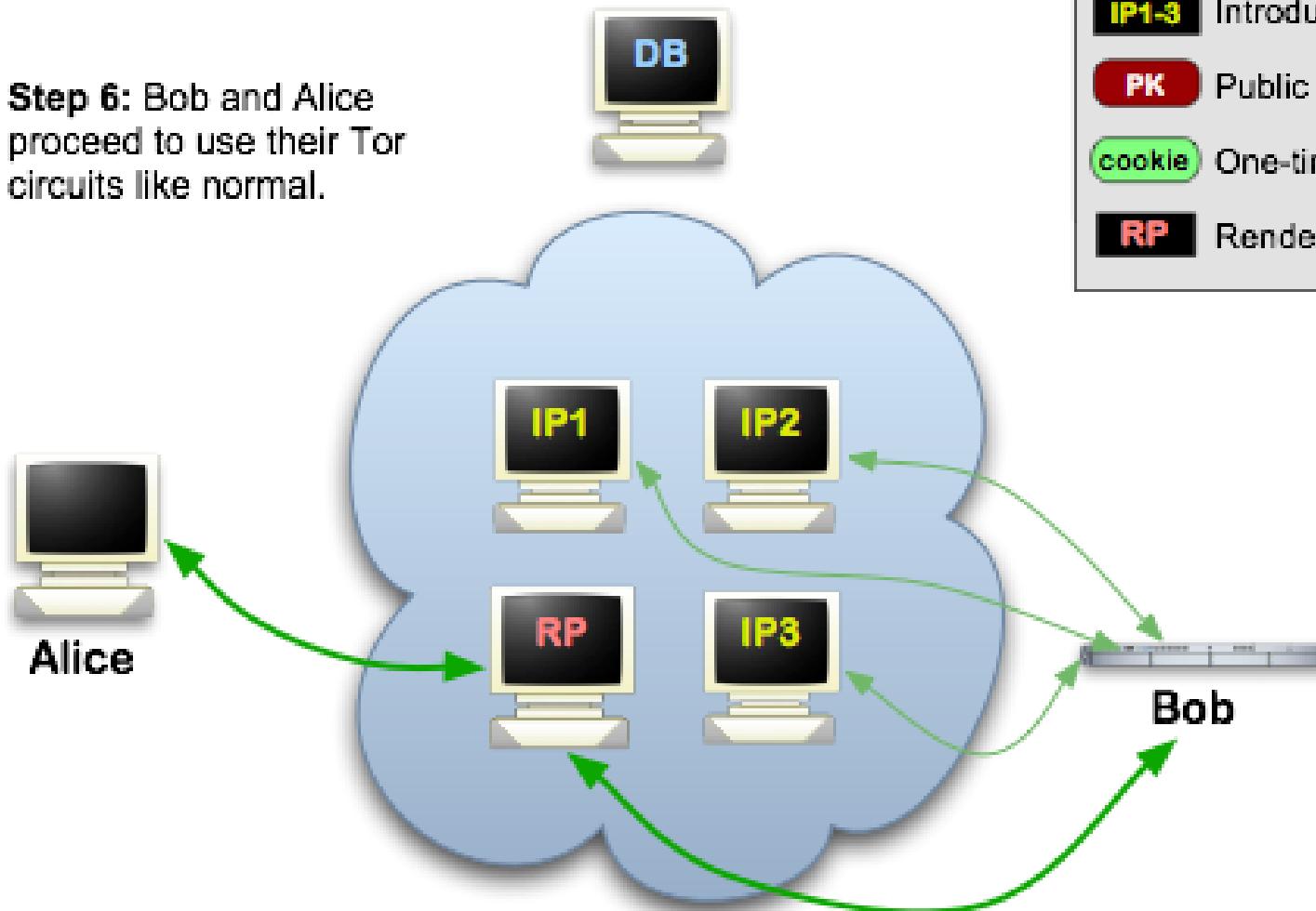
Step 5: Bob connects to the Alice's rendezvous point and provides her one-time secret.



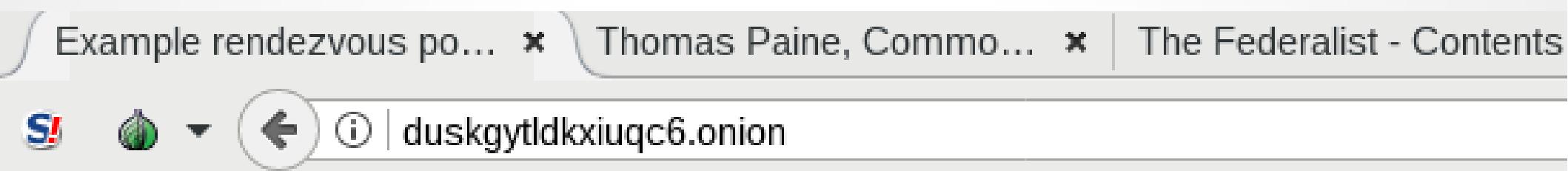
What's a Hidden Service?

Tor Hidden Services: 6

Step 6: Bob and Alice proceed to use their Tor circuits like normal.



The Dark Web!!!



This is the example page for [Tor's](#) rendezvous points system.

Read [Thomas Paine's Common Sense](#).

Or read [The Federalist papers](#), which were also originally published anonymously.

(If you were sent here by the Tor help desk, your Tor Browser is accessing hidden service, then it is most likely offline.)

Dark vs Deep Web

Dark Web

Deep web
networks which
require special
software to
access

Deep Web

The
un-indexed
web

So...Icebergs?

Google deep vs dark web

All Images News Videos Shopping More Settings Tools View saved SafeSearch ▾

The search results page displays several infographics illustrating the differences between the Surface Web, Deep Web, and Dark Web:

- SURFACE WEB:** Shows search engines like Google, Bing, and Wikipedia.
- DEEP WEB:** Described as "A part of the Deep Web accessible only through certain browsers such as Tor designed to ensure anonymity. Deep Web Technologies have been implemented with the Dark Web." It lists categories: Academic Information, Medical Records, Legal Documents, Scientific Reports, Subscription Information, Multilingual Databases, Financial Records, Government Resources, Competitor Websites, Organization-specific Repositories, and Social Media.
- Dark Web:** Labeled as "The Dark Web" and "Deep Web". It includes categories: Academic information, Government resources, Organization websites, Multilingual databases, Financial records, Government resources, Competitor websites, Organization-specific repositories, and Social media. It also mentions "Hacker's", "illegal Porn", "illegal information", "TOR-Encrypted Sites", and "Political Protest".
- The Deep Web:** Labeled as "The Deep Web" and "The Public Web". It states "Only 4% of Web content (~6 billion pages) is available via search engines like Google" and "Approximately 96% of the Web universe is on Deep Web sites protected by passwords". It shows a large iceberg with "7.9 Zettabytes" of data.
- Deep Web vs Surface Web:** A donut chart showing the distribution of the Web. The red ring represents the Deep Web at 96%, and the green center represents the Surface Web at 4%.
- Surface Web vs Deep Web vs Dark Web:** An infographic comparing the three types of web. It shows a large iceberg with "90%" of the Web being the Deep Web, "6%" being the Dark Web, and "4%" being the Surface Web. It includes icons for "Deep Web", "Visible Web", "Dark Web", and "Surface Web".
- Where is located on the Web?**: An infographic showing an iceberg where the visible part is labeled "On the surface is everything that can be found on a search engine." and the submerged part is labeled "The Deep Web is everything that can't be found on a search engine." and "The Dark Web is a small part of the Deep Web that has been intentionally hidden and is only accessible by another type of web browser."
- Current scenario:** A diagram showing the "Visible Web" (the part of the web indexed by common search engines) and the "Dark Web" (the part of the web not yet been indexed by common search engines). It also includes a "Deep Web" section which is a subset of the Dark Web.
- Surface Web vs Deep Web:** Similar to the first Deep Web infographic, it shows the categories of the Deep Web and the Surface Web.
- Visible Web vs Deep Web:** An infographic showing an iceberg where the visible part is labeled "Visible Web" and the submerged part is labeled "Deep Web".
- Deep Web:** An infographic showing the "Deep Web" as a large submerged portion of the iceberg, containing "Organizations Secret Files", "Secret Business Networks", and "WWW".
- The Web:** An infographic showing the "The Web" as a large iceberg with "SOURCES", "THE WEB", "THE CLOUD", and "GOOGLE" on it.

SURFACE WEB

Google

Bing

Wikipedia

Academic Information

DEEP WEB

Medical Records

Legal Documents

Scientific Reports

Subscription Information

*Contains 90% of the information on
the Internet, but is not accessible
by Surface Web crawlers.*

Social Media

Multilingual Databases

Financial Records

Government Resources

Competitor Websites

Organization-specific
Repositories

(DARK WEB)

A part of the Deep Web accessible only through certain browsers such as Tor designed to ensure anonymity. Deep Web Technologies has zero involvement with the Dark Web.

Illegal Information

Drug Trafficking sites

TOR-Encrypted sites

Political Protests

Private Communications

Ya, but *how* do I get there?

how do i get to the dark web?



GO

Web

Images

Videos

Advanced

Bookmark

How To Access The Dark Web | Dark Web News

<https://darkwebnews.com/help-advice/access-dark-web/> Proxy Highlight

Sep 20, 2016 ... Complete step by step guide on how to access the dark web in 15. minutes or less. Learn how to access deep web, how to remain anonymous ...



Name	A Big ISP
URL	http://abigispddied4mec.onion
Description	A Big ISP is private website, he is not affiliated with the NSA. You can rent him and work on projects with promoting cryptographic excellence or privacy in some way.

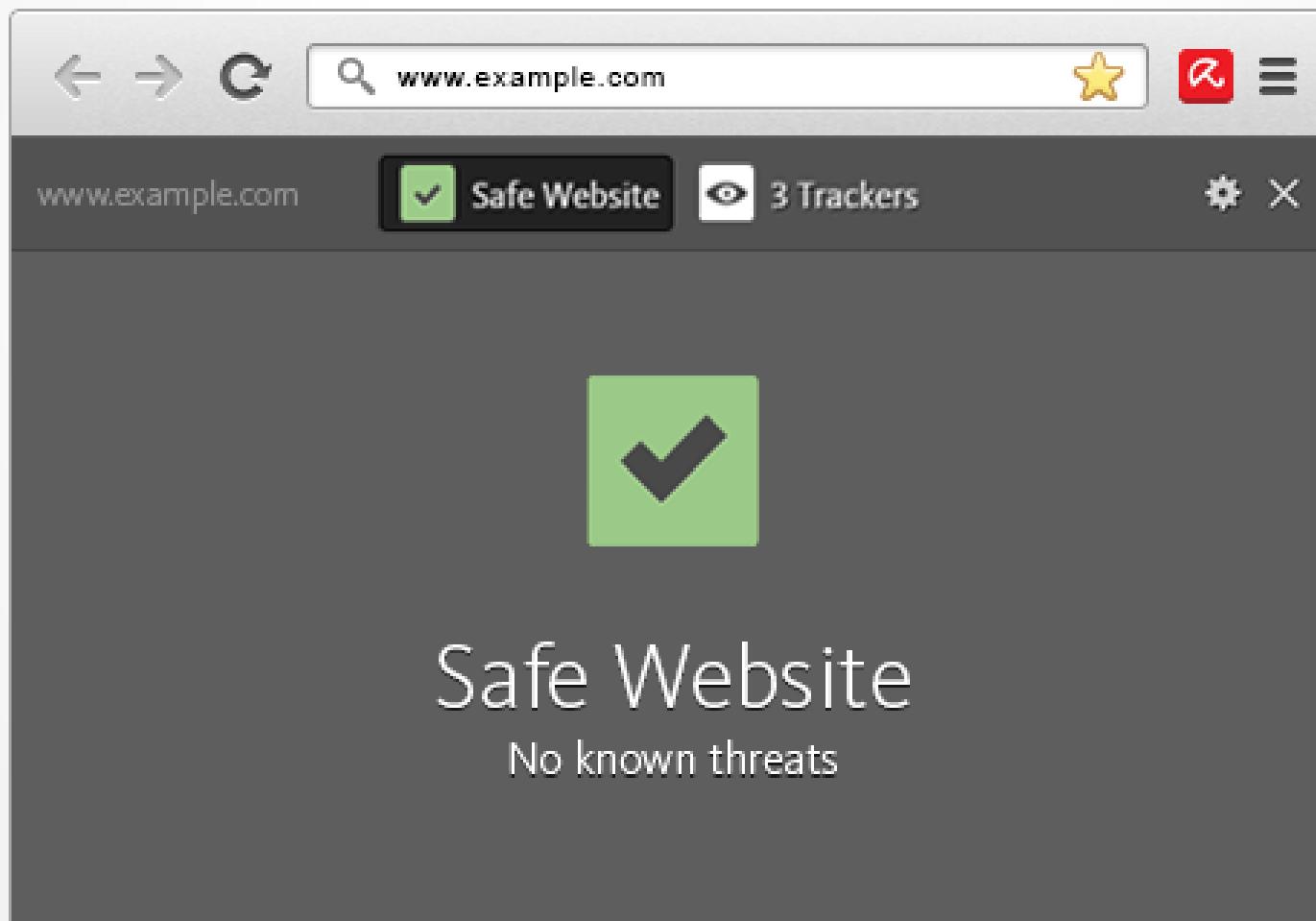
Ta-Da!

The screenshot shows a web browser window with the following details:

- Address Bar:** Displays the URL `abigispddied4mec.onion`.
- Toolbar:** Includes standard icons for back, forward, search, and refresh.
- Header:** A black navigation bar with white text containing links for Main, Projects, Talks, About, Contact, and social media icons for GitHub and Twitter.
- Section Header:** A large, bold heading **A Big ISP**.
- Text Content:** Three paragraphs of text:
 - Welcome to A Big ISP, my (_NSKEY) personal website. No, I'm not affiliated with the NSA.
 - Browse this site for a sampling of random things I do. The projects page has several good examples.
 - This site is also available as a Tor hidden service. If you feel like taking advantage of that functionality, fire up your copy of the Tor Browser and go [here](#). Thanks for playing.
- Footer:** A dark footer bar with the copyright notice `Copyright © A Big ISP 2016`.

So...can I go browse around?

It looks pretty safe!



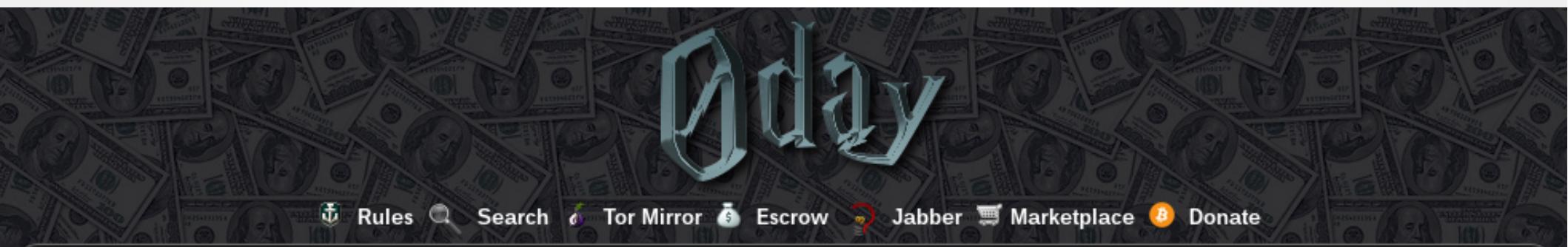
NO

A person wearing a dark hoodie is seated at a desk, facing a computer monitor. The monitor displays a Java code editor with several files open. One file shows a main method with a for loop. Another file contains a class with methods for swapping values and printing them. A third file shows a class with methods for more parameters. The background of the image is a terminal window showing the execution and output of the Java code, with green text on a black background.

Here's a nice looking place

Name	Oday Forum
URL	http://qzbkwsfwf5k2oj5d.onion
Description	This is hidden forum with more than 37.000 posts by 20.000 members. You can read for any hidden topic and discuss for any topic. There are a lot of Tutorials, Marketplace dicssuss. Hack ing etc.
Goods/Services	Discussions

Let's take a look



0day

Rules Search Tor Mirror Escrow Jabber Marketplace Donate

Hello There, Guest! (Login — Register)

Current time: 10-12-2017, 08:42 PM

Official Domains: 0day.su - qzbkwsfv5k2oj5d.onion (Tor)

Support: [Jabber: 0day@0day.ms](#) | [ICQ: 567382](#) (English Support Only, Jabber Preferred)

468 x 60 Advertisement

468 x 60 Advertisement

0day Forum

Welcome To 0day Forums

I don't get it?



Tor Browser Zero-Day Exploits Bounty

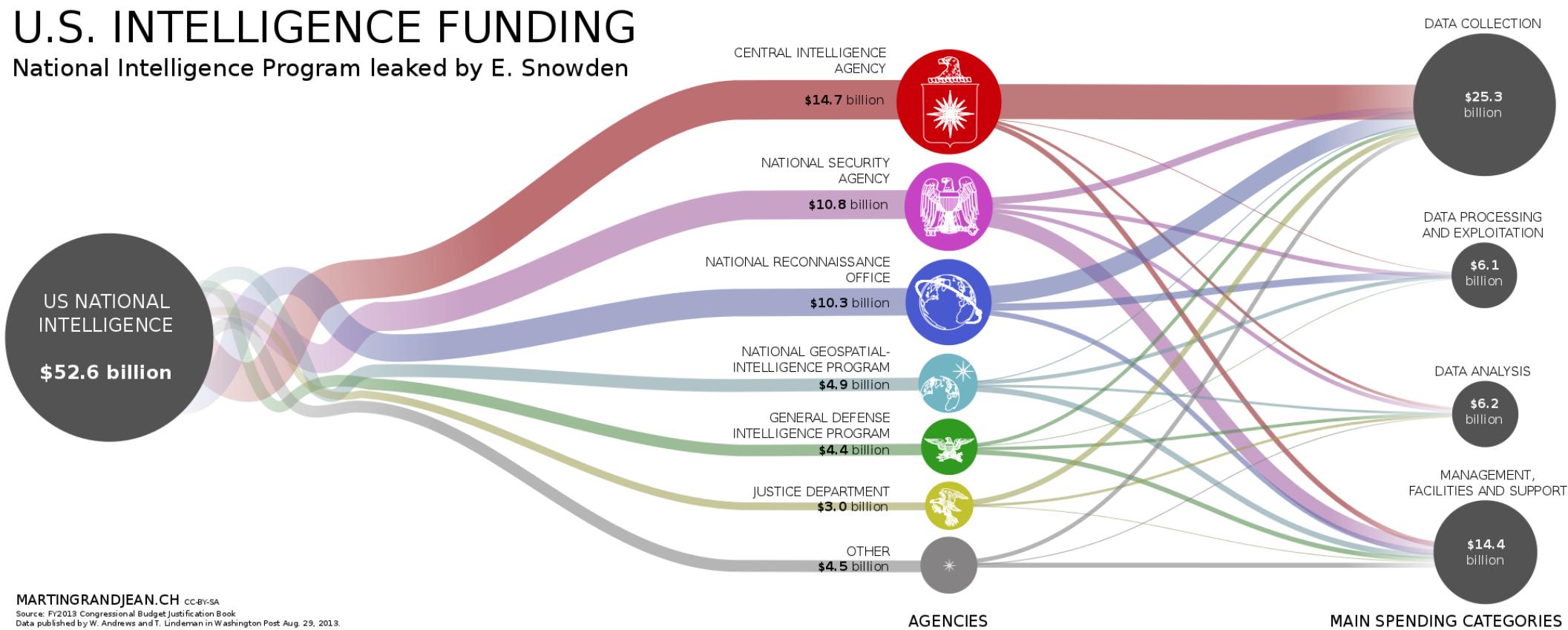
Software / OS	JavaScript Blocked (Security Settings: HIGH)		JavaScript Allowed (Default) (Security Settings: Low)	
	RCE+LPE to Root/SYSTEM	RCE Only (No LPE)	RCE+LPE to Root/SYSTEM	RCE Only (No LPE)
Tor Browser on Tails 3.x (64bit) AND on Windows 10 RS3/RS2 (64bit)	\$250,000	\$185,000	\$125,000	\$85,000
Tor Browser on Tails 3.x (64bit) OR on Windows 10 RS3/RS2 (64bit)	\$200,000	\$175,000	\$100,000	\$75,000

That's a lot of money, right?

No

U.S. INTELLIGENCE FUNDING

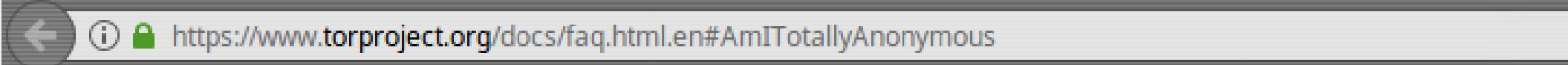
National Intelligence Program leaked by E. Snowden



MARTINGRANDJEAN.CH CC-BY-SA

Source: FY2013 Congressional Budget Justification Book
Data published by W. Andrews and T. Lindeman in Washington Post Aug. 29, 2013.

Seriously



So I'm totally anonymous if I use Tor?
No.

Warning

← [System requirements](#)

Even though we do our best to offer you good tools to protect your privacy while using a computer, **there is no magic or perfect solution to such a complex problem.**

You vs The Dark Web



Is it worth it?

Pros

- Cool Free Software
- Great organization of privacy-loving people
- Pretty-Good Privacy
- Nifty websites

Cons

- Hackers
- The Government
- Private Intelligence Firms
- “Researchers”
- Your meek skillz

Questions?

