State of the Onion

The Tor Project

LibrePlanet
March 24, 2018
Let’s meet our panelists

• Isabela Bagueros, Tor UX Team Lead
• Nathan Freitas of The Guardian Project
• Nick Mathewson, Tor co-founder and Network Team Lead
• Steph Whited, Tor Communications Director
User Experience Team
Make Tor Usable for Everyone
Teams
• Applications
• Network
• Metrics
• Community
• OONI

UX TEAM

Users
Users are YOU
Our work is OPEN
#23411: Create Styleguide

styleguide.torproject.org
https://trac.torproject.org/projects/tor/ticket/23411
Grid

Our main used grid compositions are outlined here. Use them to generate one column or various column layouts.

Colors

The main Text Project color is Purple. Use Dark Purple as a secondary option.

Grid

Our main used grid compositions are outlined here. Use them to generate one column or various column layouts.
Identity Assets

The Tor Project brand assets are included here. Use them responsibly.

Typography

Our main typography is Source Pro made by Paul D. Hunt, as Adobe’s first open source typeface family, conceived primarily as a replacement for use in interfaces.

Privacy is a right, not a privilege

Privacy is a right, not a privilege.
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Privacy is a right, not a privilege.
Coming Next

New portals
• torproject.org (homepage)
• support.torproject.org
• dev.torproject.org
• community.torproject.org
#24309: Improve how circuits are displayed to the user

https://trac.torproject.org/projects/tor/ticket/24309
Trump’s Move on Jerusalem Fuels Alarm Across Mideast

By MARK LANDLER and DAVID M. HALBFINGER

• President Trump plans to name Jerusalem as the capital of Israel on Wednesday, upending nearly seven decades of American foreign policy.

• Arab leaders warned Mr. Trump that it would disrupt the Mideast peace process, perhaps fatally, and could unleash a new wave of violence across the region.

1074 Comments

‘One phone call and you’re done.’

Weinstein’s Complicity Machine

The producer Harvey Weinstein relied on powerful relationships across industries to provide him with cover as accusations of sexual misconduct piled up for decades.

By MEGAN TOWHEY, JODI KANTOR, SUSAN DOMINUS, JIM RUTENBERG and STEVE EDER

Opinion

Does Trump Want to Negotiate Mideast Peace?
By THE EDITORIAL BOARD

Moving the American Embassy to Jerusalem is almost certain to anger the Palestinians and most Arab nations.

Of Course Jerusalem Is Israel’s Capital
Editorial: Going National With Concealed Guns
Bruni: Donald Trump Could Really Use a Friend
Douthat: Living With the Republican Tax Plan

Is Media Driving Americans Apart?
By LEVI BOXELL, MATTHEW GENTZKOW and JESSIE M. SHAPIRO

Social media gets all the attention for polarization, but TV is doing more than its share.

Friedman: Obsession With Iran Is Driving the Mideast and the U.S. Crazy
Why the Rohingya Can’t Yet Return to Myanmar
The Price of War With North Korea
I Use a Wheelchair. And Yes, I’m Your Doctor.

TIMES INSIDER »
A Video Journalist Wrestles With the Candor of an Egyptian Woman

2h Germany is seeking a stronger role abroad in the age of Trump. Its acting foreign minister called for a new willingness to clash with
Coming Next

All this work/experience will also exist on Tor Browser for Android

More experience changes:
Security settings configuration experience
Continue to improve onion services experience
User Testing Program - identify new problems + test our solutions (hypothesis)
Tor on Mobile
Tor on Mobile

- Orbot & Orfox
  - Adoption
  - Features
  - Evolution
- Haven
Orfox
Tor Browser for Android
Tor on Mobile

• Get involved
  • IRC channel: #tor-mobile
  • Have mobile skills?
The Network Team
The Network Team

What’s going on inside the program “Tor”

• Recent work
• Coming developments
Massive upgrade to onion services

- Much better obsolete crypto
- No more enumeration attacks (the crypto is tricky; ask me how)
- Upgradable for the future
- Longer names
OnionShare

v1.3

OnionShare is an open source tool that lets you securely and anonymously share a file of any size.

Download  Learn More
Riseup provides online communication tools for people and groups working on liberatory social change. We are a project to create democratic alternatives and practice self-determination by controlling our own secure means of communications.

Support Riseup!

Riseup Red

We provide Riseup Red accounts for traditional services, including Email (IMAP), Chat (XMPP), and VPN.
Better denial-of-service resistance

• We've been working against an ongoing DoS attack since December or so
• Relays now support limiting requests from same/similar IPs
• We're much more careful with recovering memory
Lower bandwidth overhead

• Directory information now transmitted via diff...
• ... and compressed better
Upcoming: Better mobile performance

- Adventures with the mainloop
- Learning to sleep
Upcoming: Postquantum crypto support

- Probably lattice-based
- Encryption-focused; signatures can wait
Upcoming: Rust

- Tor is now optionally in Rust
- More optional Rust features coming
- Rust will be required eventually
- Why?
You can help!

- Guide in tor git repository: doc/HACKING/GettingStarted.md
- We are friendly and glad to help!
Community and Communications
Community and Communications

- More frequent, regular communications
- New outreach initiatives, resources, and opportunities to connect
- New campaigns
- What’s next
New Resource: Tor Relay Guide

• Comprehensive
• Community driven
The Tor Relay Guide

The Tor network relies on volunteers to donate bandwidth. The more people who run relays, the faster the Tor network will be.

Using this guide

This guide includes the best practices that are essential for healthy Tor relays. We've included technical steps, legal considerations, and information about running relays with others. It's organized into three parts:

- Part one: Deciding to run a relay
- Part two: Technical setup
- Part three: Legal info, social info, and more resources

If you wish to skip directly to setting up a relay, read part two only.

Usage of "Tor" and "tor" in this guide

We use "tor" (lower case) whenever we talk specifically about the program tor (the daemon), in all other cases we use "Tor".

Part one: deciding to run a relay

Why run a Tor relay?

By running a Tor relay you can help make the Tor network:

- faster (and therefore more usable)
Come pick up a flyer from our table!

**Run a Relay**

If you have basic command-line experience, you can become one of the thousands of relay operators donating bandwidth to the Tor network.

**WHAT YOU NEED**

- Minimum of 1GB RAM, 2 GHz CPU, & 500 MB disk
- Ability to upload at least 10Mb/s
- Ability to transfer at least 1 TB/month
- VPS or dedicated server
- IPv4

Get started with the Tor Relay Guide:

[torproject.org/relay-guide](torproject.org/relay-guide)
New Opportunity: Mozilla Fellowship

LEARN MORE: FOUNDATION.MOZILLA.ORG/FELLOWSHIPS
Opportunity: Become a Tor Relay Advocate!

We’re hosting a Mozilla Fellow to:

• Support our current relay operators
• Encourage tech-savvy people to run relays
• Make the Tor network stronger and more decentralized
• You’ll have a bird’s-eye view of the relay community, understanding the technical, social, and legal aspects of being a relay operator.

Learn more at our blog!
New Campaign: Onionize the Web

• Demystify onion services
• Share stories of how onion services are securing the web
• Encourage others to onionize their sites
Italian Anti-Corruption Authority (ANAC) Adopts Onion Services

Volunteer Spotlight: Alec Helps Companies Activate Onion Services

The Enterprise Onion Toolkit (EOTK)

hello onion

Tor is a labor of love built by a small group of committed individuals, but we're lucky to have the support of a dedicated volunteer base who help us make Tor the strongest anonymity tool out there.
What’s next

• More examples of people using onions for good
• More resources and opportunities for you to get involved and help others use and talk about Tor
• More blog posts from community authors
• Trying out Mastodon
What you can do

• Stay connected with Tor on social media and subscribe to our newsletter: newsletter.torproject.org
• Hold a meetup
• Run a relay, encourage others to run relays, **come pick up a flyer at our table!**
IRC: #tor-project

social: @torproject
It’s time for questions!

torproject.org

torproject@lists.torproject.org