Welcome to Tor Metrics!

The Tor network is one of the largest deployed anonymity networks, consisting of thousands of volunteer-run relays and millions of users. Users, advocates, relay operators, and journalists can better understand the Tor network through data and analysis made available by Tor Metrics.

Analyzing a live anonymity system must be performed with great care so that the users' privacy is not put at risk. Any metrics collected *must not* undermine the anonymity or security properties of the Tor network. Read more »

📈 Analysis

View visualizations of statistics collected from the public Tor network and from Tor Project infrastructure.

Users

Where Tor users are from and how they connect to Tor.

Servers

How many relays and bridges are online and what we know about them.

Traffic

How much traffic the Tor network can handle and how much traffic there is.

Tor | Metrics

Work in progress notice

As of July 2018, this page is still a work in progress. Handle with care!

Reproducible Metrics

The graphs and tables on Tor Metrics are the result of aggregating data obtained from several points in the Tor network. Some of these aggregations are straightforward, but some are not.

We want to make the graphs and tables on this site easier to access and reproduce, so on this page, we specify how you can reproduce the data behind them to create your own. We also provide background for some of the design decisions behind our aggregations and link to technical reports and other additional information.

This page is a living document that reflects the latest changes to graphs and tables on Tor Metrics. Whenever we create new aggregations or visualizations, we may write down our thoughts in technical reports; but, if we later expand or change a statistic, we don't update the original technical reports. Instead, we update the specification here.

While we may refer to technical reports for additional details, we do not assume their knowledge in order to make sense of the specifications here. Knowledge of our source code is not needed, either.

👥 Users

The number of Tor users is one of our most important statistics. It is vital for us to know how many people use the Tor network on a daily basis, whether they connect via relays or bridges, from which countries they connect, what transports they use, and whether they connect via IPv4 or IPv6.

Due to the nature of Tor being an anonymity network, we cannot collect identifying data to learn the number of users. That is why we actually don't count users, but we count requests to the directories or bridges that clients clients make periodically to update their list of relays and estimate user numbers indirectly from there.

Tor | Metrics

ExoneraTor

243G > 63G

18.9s > 2.3s

Enter an IP address and date to find out whether that address was used as a Tor relay:

IP address

86.59.21.38

Date

TT . MM . JJJJ

Search

About Tor

Tor is an international software project to anonymize Internet traffic by encrypting packets and sending them through a series of hops before they reach their destination. Therefore, if you see traffic from a Tor relay, this traffic usually originates from someone using Tor, rather than from the relay operator. The Tor Project and Tor relay operators have no records of the traffic that passes over the network and therefore cannot provide any information about its origin. Be sure to learn more about Tor, and don't hesitate to contact The Tor Project, Inc. for more information.

About ExoneraTor

The ExoneraTor service maintains a database of IP addresses that have been part of the Tor network. It answers the question whether there was a Tor relay running on a given IP address on a given date. ExoneraTor may store more than one IP address per relay if relays use a different IP address for exiting to the Internet than for registering in the Tor network, and it stores whether a relay permitted transit of Tor traffic to the open Internet at that time.
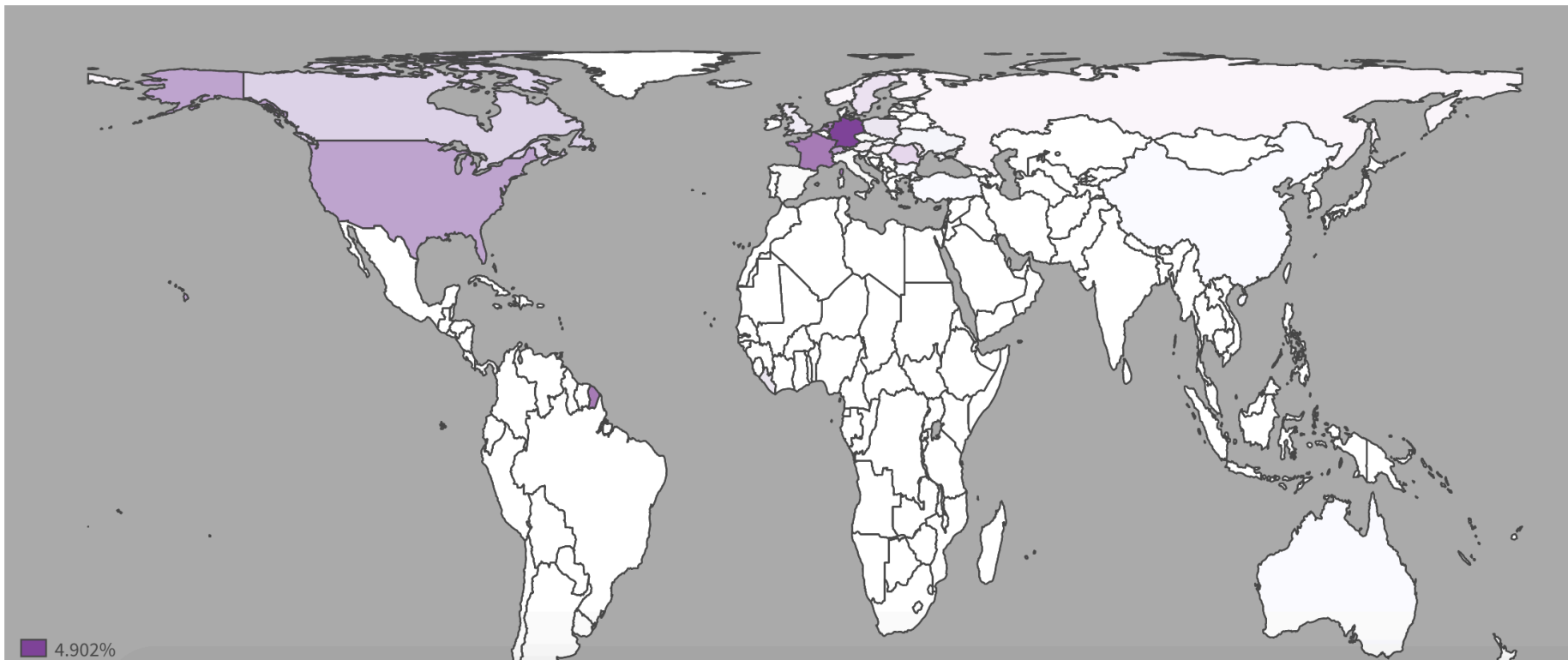
This page is also available in the following languages: Deutsch English français română svenska

Relay Search

flag:exit

Map view for flag:exit

4.902%

Tor Metrics Roadmap 2017/18 Burndown Chart