

## Objective 1: Generate a Tor Technical Report on Metrics.

### Activity 1.1: Evaluate batch processing frameworks for CollecTor data and publish a paper.

We published two technical white papers that describe the entire measurement and metrics production process.

The first technical paper is called “Towards modernizing data collection and archive for the Tor network” and distills the requirements for a prototype modernized replacement of the CollecTor service, and evaluates frameworks and libraries that are available to reduce code maintenance costs for the CollecTor service. CollecTor is developed by Tor Project’s Metrics Team for the purpose of archiving data relating to the public Tor network and applications developed by Tor Project.

It is published here: <https://research.torproject.org/techreports/modern-collector-2018-12-19.pdf>

The second technical paper is called “Tor Metrics Data Collection, Aggregation, and Presentation” and explains the central mechanism that The Tor Project uses to evaluate the functionality and ongoing relevance of its technologies as Internet freedom software. The report is divided in several sections:

- The first section gives a high level overview of the software behind these services.
- Sections 2 to 8 of this report give an overview of the codebases that make up the software.
- Section 9 then briefly compares our approach to collect, aggregate, and present data with OONI’s data pipeline.
- Finally, it makes recommendations for next steps to be taken for improving the existing code that makes up Tor Metrics.

It is published here: <https://research.torproject.org/techreports/metrics-evaluation-2019-03-25.pdf>

A blogpost announcing the publication of the reports will be published soon at <https://blog.torproject.org/>