Total successes and failures

5 MiB bulk transfer, between 2018–11 and 2019–01

- failed before sending request
- failed before receiving first byte
- failed before receiving last byte
- successfully received last byte

2019–02–02 – The Tor Project – https://metrics.torproject.org/
Time to first byte

5 MiB bulk transfer, between 2018–11 and 2019–01, successful measurements only

- public server: $P_{99} = 10.6$
- onion server: $P_{99} = 32.8$

2019–02–02 – The Tor Project – https://metrics.torproject.org/
Time to last byte

5 MiB bulk transfer, between 2018–11 and 2019–01, successful measurements only

- Public server: $P_{99} = 149.1$
- Onion server: $P_{99} = 98.2$

2019–02–02 – The Tor Project – https://metrics.torproject.org/
Average bandwidth during second half of download

5 MiB bulk transfer, between 2018–11 and 2019–01, successful measurements only

- Public server: $P_1 = 0.32$
- Onion server: $P_1 = 0.46$
Slowest successful requests to public server

5 MiB bulk transfer, between 2018–11 and 2019–01, public server, slowest 1%

- Create socket
- Connect to socket
- Negotiate SOCKS methods
- Send SOCKS request
- Write HTTP request
- Receive first byte
- Receive 10% of response
- Receive 20% of response
- Receive 30% of response
- Receive 40% of response
- Receive 50% of response
- Receive 60% of response
- Receive 70% of response
- Receive 80% of response
- Receive 90% of response
- Receive last byte

2019–02–02 – The Tor Project – https://metrics.torproject.org/
Slowest successful requests to onion server

5 MiB bulk transfer, between 2018–11 and 2019–01, onion server, slowest 1%

- Create socket
- Connect to socket
- Negotiate SOCKS methods
- Send SOCKS request
- Write HTTP request
- Receive first byte
- Receive 10% of response
- Receive 20% of response
- Receive 30% of response
- Receive 40% of response
- Receive 50% of response
- Receive 60% of response
- Receive 70% of response
- Receive 80% of response
- Receive 90% of response
- Receive last byte

2019–02–02 – The Tor Project – https://metrics.torproject.org/
Time to last byte by smallest consensus weight in path

5 MiB bulk transfer, between 2018−11 and 2019−01

2019−02−02 – The Tor Project – https://metrics.torproject.org/