

Proxies For Anonymous Routing

Authors: [M. G. Reed](#)
[P. F. Syverson](#)
[D. M. Goldschlag](#)

Published in:
 · Proceeding
 ACSAC '96 Proceedings of the 12th Annual Computer Security Applications Conference
 Page 95
 IEEE Computer Society Washington, DC, USA ©1996
[table of contents](#) ISBN:0-8186-7606-X



1996 Article



Bibliometrics

- Downloads (6 Weeks): 0
- Downloads (12 Months): 0
- Downloads (cumulative): 0
- Citation Count: 26

Tools and Resources


[Save to Binder](#)

[Export Formats:](#)

[BibTeXEndNoteACM Ref](#)

[Publisher Site](#)

Share:

[Share](#) [Share](#) [Share](#) [Share](#) [Share](#) [Share](#) [Share](#) [More](#)

Tags: [anonymous connections](#)
[anonymous routing](#) [application-independent](#) [real-time bi-directional](#) [anonymous connections](#) [more tags](#)

 [Feedback](#) | Switch to [single page view](#) (no tabs)

[Abstract](#) [Authors](#) [References](#) [Cited By](#) [Index Terms](#) [Publication](#) [Reviews](#) [Comments](#) [Table of Contents](#)

Using traffic analysis, it is possible to infer who is talking to whom over a public network. This paper describes a flexible communications infrastructure, called onion routing, which is resistant to traffic analysis. Onion routing lies just beneath the application layer, and is designed to interface with a wide variety of unmodified Internet services by means of proxies. Onion routing has been implemented on a Sun Solaris 2.4; in addition, proxies for World Wide Web browsing (HTTP), remote logins (RLOGIN), e-mail (SMTP) and file transfers (FTP) have been implemented. Onion routing provides application-independent, real-time and bi-directional anonymous connections that are resistant to both eavesdropping and traffic analysis. Applications making use of onion routing's anonymous connections may (and usually should) identify their users over the anonymous connection. User anonymity may be layered on top of the anonymous connections by removing identifying information from the data stream. Our goal is anonymous connections, not anonymous communication. The use of a packet-switched public network should not automatically reveal who is talking to whom; this is the traffic analysis that onion routing complicates.

Powered by **THE ACM GUIDE TO COMPUTING LITERATURE**

The ACM Digital Library is published by the Association for Computing Machinery. Copyright © 2013 ACM, Inc.
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)