

SIGN IN SIGN UP SEARCH

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



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

Tools and Resources

Save to Binder

Export Formats: BibTeXEndNoteACM Ref

Publisher Site

Share:

ShaseaseaseaseareMore

Tags: anonymous connections anonymous routing applicationindependent 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

