Accepted Manuscript

Noise-resistant Mechanisms for the Detection of Stealthy Peer-to-Peer Botnets

Pratik Narang, Chittaranjan Hota, Husrev Taha Sencar

PII: S0140-3664(16)30234-1
DOI: 10.1016/j.comcom.2016.05.017
Reference: COMCOM 5338

To appear in: *Computer Communications*

Received date: 2 April 2015
Revised date: 27 May 2016
Accepted date: 28 May 2016

Please cite this article as: Pratik Narang, Chittaranjan Hota, Husrev Taha Sencar, Noise-resistant Mechanisms for the Detection of Stealthy Peer-to-Peer Botnets, *Computer Communications* (2016), doi: 10.1016/j.comcom.2016.05.017

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- A novel approach for P2P botnet detection using signal-processing approaches of Fourier transforms and information entropy
- Detection of stealthy P2P botnets in presence of traffic from benign P2P applications
- Detection models were evaluated for their robustness by injecting noise in the testing dataset. Our approach gave higher True Positive rate (90%) as compared to results obtained with features used by past research.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/4954494

Download Persian Version:

https://daneshyari.com/article/4954494

Daneshyari.com