



Information Security Archive

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A database of technical papers on information security and cyber security that were published in the earlier stages of field but are still considered fundamental.

The database is Drupal an open source content management platform. The classification system is modified Dublin Core Metadata Standard for search and retrieval.

PURDUE UNIVERSITY. The Center for Education and Research in Information Assurance and Security **CERIAS Information Security Archive** The Internet Worm Program: An Analysis Search Eugene H. Spafford Date: Friday, January 1, 1988 Subjects: <u>Worms</u> Language: On the evening of 2 November 1988, someone infected the Internet with a worm program. That program exploited flaws in utility programs in systems based on BSD-derived versions of UNIX. The flaws allowed the program to break into those machines and copy itself, thus infecting those systems. This infection eventually spread to thousands of machines, and disrupted normal activities and Internet connectivity for many days. This report gives a detailed description of the components of the worm program\320data and functions. It is based on study of two completely independent reverse-compilations of the worm and a version disassembled to VAX assembly language. Almost no source code is given in the paper because of current concerns about the state of the ``immune system" of Internet hosts, but the description should be detailed enough to allow the reader to understand the behavior of the program. The paper contains a review of the security flaws exploited by the worm program, and gives some recommendations on how to eliminate or mitigate their future use. The report also includes an analysis of the coding style and methods used by the author\(s\) of the worm, and draws some conclusions about his abilities and intent. Link (URL): http://protovision.textfiles.com/100/tr823.txt CERIAS, Purdue University / Recitation Building / 656 Oval Drive / West Lafayette IN 47907-2086 phone (765)494-7841 / fax (765)496-3181 Copyright © 2012, Purdue University, all rights reserved. Purdue University is an equal access/equal opportunity university.





Conducted a survey on most requested documents or top choices to be included in the archive. The participants included authorities in the Cyber Security fields who offered assistance with document selection and other suggestions for the project.





