

Reading Response 5

Due IN CLASS, Thursday 1 May

Handout R5
CSCI 334: Spring, 2008
24 April

Readings

Please read and write a short response to the following paper(s). Hand in the response *in class* on the due date. Responses need not be longer than one-half to three-quarters of a page. Your response should address the general questions asked below, as well as anything you found particularly interesting in the articles.

1. (15 points) Security Reading

The following readings are all available on the cs334 handouts web page. *Read* the following short articles.

- Ken Thompson, “Reflections on Trusting Trust”, ACM Turing Award Lecture, 1984.
- Bob Page, A REPORT ON THE INTERNET WORM, 1988.
- Social aspects of the Love Bug virus- Email clients and operating systems must better protect the end user, 2000.

Skim the following web pages to pick up the main ideas of the attacks described.

- Aleph One, “Smashing the stack for fun and profit”, Phrack 7, 49 (1996). (Just read the first few pages).
- The Williams antivirus web page.
<http://www.williams.edu/go/antivirus/>.

What are the basic ideas behind the Thompson and Love Bug attacks? How much technical knowledge is required to construct each attack? (A few sentences is sufficient— technical details are not necessary).