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Washington, D.C. ~ October 18-25, 2002

SANS Network Security 2002

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DDOS SYMPOSIUM - Network Demonstrations

Monday, October 21, 2002 - Tuesday, October 22, 2002

Course Summary



One week after the historic Distributed Denial of Service (DDoS) attacks of February 2000, the President of the United States asked his National Security Council staff to gather the victims of the attacks, leaders of the Internet industry, and private

sector and academic security experts to talk with the President and members of the Cabinet. This and subsequent meetings resulted in a plan of action for the future. However, we have failed to make progress against these attacks, and we are actually losing ground. In 2000, individual sites on the Internet were taken down. This year whole ISPs have been dropped. This is not a time for despair; there are emerging tools and techniques available and in use right now to mitigate DDOS attacks at both endpoints and in some backbone networks, and emerging approaches to locate and filter the source of these attacks.

The SANS Institute's free response center, [Incidents.org](#), in conjunction with John Stewart, Independent Advisor, is pleased to present a two day symposium that frames the problems and presents working, in-the-field solutions from the top expert practitioners in the industry. Attendees are expected to have a thorough understanding of TCP/IP including routing and routers. The symposium will offer small groups hands-on opportunities to observe various tools and techniques up close. There will also be guided discussion groups for managers and leaders who are more interested in the policy aspects of this problem than the technology.

The DDOS Symposium is scheduled for Wednesday, October 21 and 22, 2002 in conjunction with SANS Network Security 2002. Vendor technologies that will be demonstrated and discussed include: [Cs3 Inc.](#), [TopLayer](#), [Arbor Networks](#), [Reactive Networks](#) and [Mazu Networks](#) as well as Cisco router hardening and attack mitigation strategies. Detection technologies demonstrated and discussed will include DShield/Internet Storm Watch, UUNet's backscatter, and an SNMP based approach from Lincoln Labs.

A variety of teaching and demonstration techniques will be employed to understand the problem and potential solutions including the ID'Net where tools can be demonstrated live. We do have tools and techniques available to us for detection and mitigation of denial of service attacks against our networks. Incident.org's DDOS Symposium is your opportunity to come up to speed fast and develop the necessary skills to minimize the harm done by these insidious attacks. We look forward to seeing you there!

What students have said about SANS

"SANS Training not only provided up to date security information, it provided real-life examples and demonstrations during the course."

- Chua Chye Guan,
LTA

"The speakers know their stuff!!"

- Heng Poh Haut,
Ministry of Defense

"SANS combines highly skilled instructors with an atmosphere that promotes intellectual growth and networking with other security professionals."

- Jamil Farshchi,
NASA

"The SANS tracks are fundamental "life" saving education for the time challenged IT professional."

- Gene Feliciano, Jr.,
Department of Defense

"Best source of security-centric information I have found to date."

- Bill Ceaven
Independence Blue Cross

"This is not training – it is a "conference". Get trained, meet people and get first-

Johannes Ullrich - CTO, Internet Storm Center
John N. Stewart - Chairperson, DDOS Symposium

hand knowledge."
- Suhail Muhammed,
UNICEF

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* NOTE: CISSP is a registered certification mark of ISC2.