the center for education and research in information assurance and security

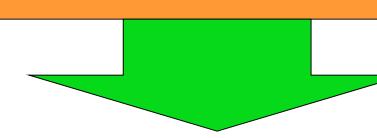
Network Security Support

Problem:

Many network scanning tools provide a snapshot of a network at a given time. However, they do not allow a way to compare two reports.



two reports, a new machine may be present and the administrator will have no knowledge of that. Said machine could be malicious.



Benefits:

- Provides administrator with useful information
- •Makes viewing reports quicker
- Possibility of a configuration file for administrators to compare data in specified intervals

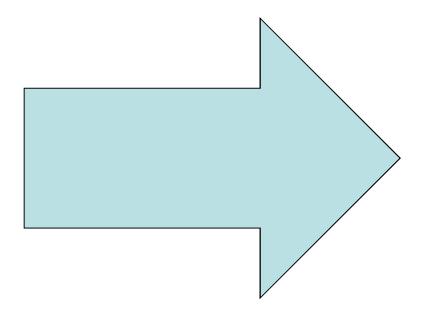
Before

- -Nmap 5.00 at 2010-03-01 13:00
- +Nmap 5.00 at 2010-02-28 13:00
- +sheol.cerias.purdue.edu (128.10.247.57, 00:30:65:4D:C9:BA):
- +Host is up.
- +Not shown: 999 closed ports
- +PORT STATE SERVICE VERSION
- +22/tcp open ssh
- -golgafrincham.cerias.purdue.edu (128.10.247.62, 00:16:CB:D1:4D:49):
- -Host is up.
- -Not shown: 1000 filtered ports
- -dhcp-254-1.cerias.purdue.edu (128.10.254.64):
- -Host is up.
- -Not shown: 999 closed ports
- -PORT STATE SERVICE VERSION
- -3689/tcp open rendezvous
- -dhcp-254-2.cerias.purdue.edu (128.10.254.65):
- -Host is up.
- -Not shown: 997 closed ports
- -PORT STATE SERVICE VERSION
- -135/tcp open msrpc
- -139/tcp open netbios-ssn
- -445/tcp open microsoft-ds

Solution:

Nmap is one of these network scanning tools. An extension of nmap, ndiff, compares the outputs of two nmap files and prints the results in a format similar to that of the Unix command diff. The purpose of this project is to improve on this output so that administrators can get more information out of the results of the ndiff program.

After



Found 44 Services and 24 Hosts Today
Difference of 3 Services and 2 Hosts from <u>Yesterday</u>
Difference of -7 Services and -2 Hosts from <u>a week ago</u>
Difference of 10 Services and 11 Hosts from a month ago





