

NETWORK SECURITY

Worksheet 1: Case Study 2014

You are an intern for Susan Woo at XXXSecurity. You have been assigned the task of creating the company's website that explains what a Denial of Service attack is with focus on the following three forms of attacks, together with possible countermeasures, using actual examples as an illustration:

- Stack-based Buffer Overflow
- SYN Flood
- Smurf Attacks

Resources:

Denial of Service (DoS) Attack

http://www.webopedia.com/TERM/D/DoS_attack.html

<http://computer.howstuffworks.com/zombie-computer1.htm> - Good Article!

Stack-based Buffer Overflow

<http://projects.webappsec.org/w/page/13246916/Buffer%20Overflow>

<http://watchguard.com/infocenter/editorial/135136.asp>

<http://searchsecurity.techtarget.com/news/1048483/Buffer-overflow-attacks-How-do-they-work>

<http://www.freebsd.org/doc/en/books/developers-handbook/secure-bufferov.html>

SYN Flood

http://en.wikipedia.org/wiki/SYN_flood

http://www.cisco.com/web/about/ac123/ac147/archived_issues/ipj_94/syn_flooding_attacks.html

<http://www.networkcomputing.com/unixworld/security/004/004.txt.html>

<http://www.youtube.com/watch?v=AqY3UxXyQTY>

Smurf Attacks

<http://www.techopedia.com/definition/17294/smurf-attack>

<http://searchsecurity.techtarget.com/definition/smurfing>

<http://www.nordu.net/articles/smurf.html>

http://www.youtube.com/watch?v=xQL3n_REkiw

http://www.symantec.com/security_response/glossary/define.jsp?letter=s&word=smurf-dos-attack