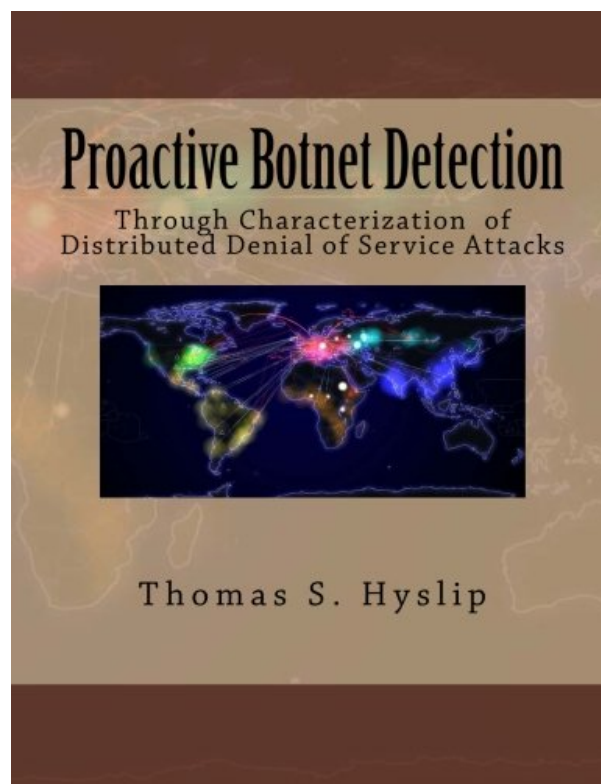


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# Proactive Botnet Detection

Through Characterization of  
Distributed Denial of Service Attacks



Thomas S. Hyslip

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## About the Author

Dr. Hyslip is currently an adjunct faculty member at Norwich University and Wake Technical Community College. Dr. Hyslip received his Doctor of Science degree in Information Assurance from Capitol College in 2014, and he previously obtained a Master of Science degree from East Carolina University and a Bachelor of Science degree from Clarkson University. He is a Certified Ethical Hacker C|EH, and certified forensic examiner.

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In this quantitative quasi-experimental study two distributed denial of service attacks were captured and the characteristics of the attacks were used to detect botnets by identifying egressing distributed denial of service attack packets at the source of the attack. A sample Dark DDoSer botnet was constructed and used to launch a distributed denial of service attack. The characteristics of the distributed denial of service attacks were used as the independent variables in a quasi-experiment where network traffic was monitored with Snort to detect DDoS packets. The dependent variable for the experiment was false positive alerts for the DDoS packets. The findings showed that the characteristics of a distributed denial of service attack can be used to proactively detect botnets through egress monitoring.

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thorough review of past botnet detection techniques, which was very interesting to read. The book concludes with the results of Dr. Hyslip's experiment that showed his proactive technique is effective and will help with the battle against botnets. Any infosec professional will appreciate the detailed analysis of past and current botnet techniques, and students can use the book as good reference for research into botnets and ddos attacks. If you are none technical reader, the book is still of value, as the introduction is a great overview of how botnets work and why they are such a concern.

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I really enjoy books on computer networking and protection, so I couldn't wait to get started when I found this book. The tables and charts were clear and detailed, the writing was educational and easy to read, the formatting was well organized, and sources were cited perfectly.

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