Analyzing Interaction between Denial of Service

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Abstract - It has been observed from literature that denial of Service (DoS) attacks constitutes one of the major threats and among the hardest security problems in todays internet . Of particular concern are Distributed Denial of service (DDoS) attacks , whose impact can be proportionally severe . With little or no advance warning , a DDoS attack can easily exhaust the computing and communion resources of its victim within a short period of time . Because of the seriousness of the problem many defence mechanisms have been proosed to compact these attack . This paper aims to provide an understanding of the existing attack methods, tools and defense mechanisms , so that a better understanding of DDoS attacks can be achieved . The goal of the is to simulate an environment by extending NS2, setting attacking topology and traffic , which can be used to evaluate and compare the methods of DDoS attacks and tools . Based on the simulation and evaluation results , more efficient and effective algorithms , techniques and procedures to combat these attacks may be developed .