Abstract

As Application Denial of Service attacks have rapidly become a commonplace threat for doing business on the Internet - more proof that Web application security is more critical now than ever. Denial of Service attacks can result in significant loss of service, money and reputation for organizations. The paper is proposed to build application layer filters to provide real time detection and mitigation of Daniel of service attack. Web Service filters helps protecting Web Service application and service disruption by removing application level DoS attacks. This can defend critical Web Service resource from attack while relying sophisticated filtering technologies to allow legitimate traffic to continue to flow. We compared the couple of filter designs and how they address the specific Web Service attack types. We briefly discuss the different common DoS attacks, risk associated with them and detail of Web Service filters benefits to the Web Service. Also, we carried out design, implementation and deployment details on a one of commonly used application server.
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**Index Terms**

Computer Science  
Security

**Keywords**

DoS attack  
REST  
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Web Service  
Filter etc.