Abstract

In the internet, BGP is de-facto inter-domain routing protocol. It is unprotected against number of attacks such as prefix hijacking and traffic interference. There have been many incidents of prefix hijacking on internet. To protect BGP against these kinds of attacks several mechanisms exist but they are not implemented fully because it requires cooperation among tens of thousands of independent ASes. This paper proposes two mechanisms which will show that safety can be achieved by implementing these mechanisms on small group of ASes.
Inter-Domain Routing with Shielded Infrastructure and Buzzer Technique

Internet?,&quot; Feb. 2006.
- http://www.nanog.org/

Index Terms

Computer Science

Security

Keywords

BGP  Prefix-hijacking  S-BGP  so-BGP