Abstract

The network Security is the hottest topic in the current research scenario. The information security is really threatened by obnoxious users. With increasing vulnerabilities, caused by port scan attacks, replay attacks and predominantly IP Spoofing, targeting services, the network behavior is getting malevolent. But there is a lack of any clear threat model. The authors have endeavored to consider this problem in order to improve the network security and enhance secure shell daemon protection. A mechanism, QUICKKNOCK, improving upon the potentialities of technologies such as port knocking and SPA (Single Packet Authorization), using Firewall and Cryptography, has been proposed.
Network Security using Firewall and Cryptographic Authentication

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Index Terms

Computer Science
Security

Keywords
QUICKKNOCK SSH Daemon Network Security Port knock Encryption
algorithms IP Spoofing
Key-Exchange
Symmetric Cryptography
Single Packet Authorization
Fwknop
AfterGlow
Gnuplot