Solutions to Secure a Network

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Abstract

Security is a very difficult topic. Everyone has a different idea of what ``security'' is, and what levels of risk are acceptable. Network security describes the policies and procedures implemented by a network administrator to avoid and keep track of unauthorized access, exploitation, modification, or denial of the network and network resources. Security implemented in a network helps protect users' data; it reduces the risk of legal action from data theft. This paper presents the methods used for having a secure network, how you can secure your network.

Index terms: network security, cyber-attack, VPN

References:

[1].   Why you should start using VPN. [Online] Available: lifehacker.com/5940565/why-you-should-start-using-a-vpn-and-how-to-choose-the-best-one-for-your-needs

[2].   What is network security. [Online] Available: http://www.cisco.com/cisco/web/solutions/small_business/resource_center/articles/secure_my_business/what_is_network_security/index.html?referring_site=smartnavRD

[3].   What is antispyware software. [Online] Available: http://www.microsoft.com/security/resources/antispyware-whatis.aspx

[4].   Virtual private network access protection. [Online] Available: http://www.trusteer.com/solutions/virtual-private-network-vpn-access-protection

[5].   IPSec VPN Fundamentals. [Online] Available: http://www.eetimes.com/document.asp?doc_id=1275828

[6].   Criptarea. [Online] Available: http://www.scientia.ro/tehnologie/34-cum-functioneaza-calculatorul/409-cum-functioneaza-criptarea-datelor.html

[7].   Intrusion prevention and detection basics. [Online] Available: https://www.paloaltonetworks.com/resources/learning-center/what-is-an-intrusion-prevention-system-ips.html

[8].   Firewall. [Online] Available: http://www.webopedia.com/TERM/F/firewall.html

[9].   How firewalls protect your PC. [Online] Available: https://www.comodo.com/resources/home/how-firewalls-work.php

[10].   Firewall detection. [Online] Available: http://www.bullguard.com/bullguard-security-center/pc-security/computer-security-resources/firewall-protection.aspx

[11]. Authentication, authorization and accounting. [Online] Available: http://searchsecurity.techtarget.com/definition/authentication-authorization-and-accounting

[12]. Improving network protection and performance with Network-based antivirus technology. [Online] Available: http://www.ckeynetworks.com/App_Notes/Fortinet/NetworkBasedAVTechnologyAdvantages.