A Study on Password Strength in Wireless Encryption Protocols

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Abstract
Solutions that can be implemented to secure a LAN include firewalls and intrusion detection / prevention systems (IDS / IPS). For a wireless network, security is a challenge considering the specific elements of this type of network: the physical area from which the connection is possible, and the weaknesses of the protocols used for data encryption. This article presents a case study on the most widely used protocols (WEP, WPA and WPA2) to secure wireless networks and the methodology by which passwords can be decrypted using Kali Linux distribution - available for free on the Internet - and applications included in this operating system.

Index terms: WPA, WPA2, encryption, password strength, wireless networks

References: