

## **Introduction**

Wired Equivalent Privacy (WEP) key is shared by all the mobile devices and there is no built in key management. We are going to crack the WEP enabled Wi-Fi network to identify the weakness of WEP keys.

## **Process**

We have done the following tasks to crack the WEP key:

- We have enabled WEP to the access point and target client was booted and authenticated with the router.
- We have used the Back-Track to boot our laptop and logged in as a root.
- We have placed our Wi-Fi card to monitor mode using the iwconfig command.
- In order to obtain a lots of packets, we have done the ARP injection and De-authentication attack using the aireplay command.
- After that we have run airodump command for capturing packet from wireless router.
- As we have obtained a lots of packet using the ARP injection, we have used the aircrack command to crack the WEP key from the captured packets.

## **Conclusion**

By performing this lab, we have analyzed the traffic and crack the WEP keys to identify the problems and weakness of WEP enabled wireless network. We have also learned about several tools like aircrack, aireplay and airodump.