

Task 7

Kali Linux - Install and Basic understanding

Kali Linux is a Debian-derived Linux distribution designed for digital forensics and penetration testing. It is maintained and funded by Offensive Security.

Kali Linux has around 600 penetration-testing programs (tools), including Armitage (a graphical cyber attack management tool), Nmap (a port scanner), Wireshark (a packet analyzer), Metasploit (penetration testing framework), John the Ripper (a password cracker), SQLmap (automatic SQL injection and database takeover tool), Aircrack-ng (a software suite for penetration-testing wireless LANs), Burp suite and OWASP ZAP web application security scanners.

Installing kali Linux and running it was very new to me. I made many errors during the installation process. After correcting each error, a new error appeared. It was a very difficult process. Even in some youtube videos, there are no full procedures. But they had skipped many steps. These small skipped steps were the important ones and that led to the error.

During the installation of Kali Linux, firstly I had to go to kali.org. Website and download the iso file. Downloading the files has 2 types of iso files, one is for the bare installer and the other one is for the virtual machine. I downloaded the installer and wanted to run it on a virtual box. After downloading the iso file, I directly tried to open the file, but it showed to burn the disc which was not there in the youtube video. Then I corrected the error by not directly opening the file but creating kali Linux os in the virtual box and running it. I learned in the installation process that different os requires different amounts of memory. If the memory is not sufficient then kali Linux will take a long time to get installed and it will have glitches while running.

Process of downloading and installing Kali Linux:

Error occurred:

<https://imgur.com/a/gAzJgv1>

Download Kali Linux iso file:

<https://imgur.com/a/GMjVZB2>

Kali Linux installation process:

<https://imgur.com/a/DKwgawG>

<https://imgur.com/a/xuDupuZ>

<https://imgur.com/a/2K7IN0m>

<https://imgur.com/a/czR9z5O>

<https://imgur.com/a/rOTftSX>

<https://imgur.com/a/Hy2l5Q9>

<https://imgur.com/a/hQxaBSM>

A basic understanding of Kali Linux, the technical applications of Kali Linux, use of Kali Linux as a hacking tool are all the things I learned through this task.

Features of Kali Linux:

1. Over 600 Penetration Testing Tools Pre-installed
2. Full Customization of Kali ISOs
3. Developed in a Secure Environment
4. Adherence to the Filesystem Hierarchy Standard(FHS)
5. Live USB Boot
6. Kali Linux Full Disk Encryption
7. Kali Linux Amazon EC2 AWS Images
8. Kali Linux Metapackages
9. Automating Kali Linux Deployment
10. Kali Linux NetHunter
11. Kali Linux Forensics Mode

And many more.

Kali Linux is widely used by security professionals, black hat hackers and many other people who are in the field of hacking.

Through this task, I got to know such a wonderful platform like Kali Linux. I was always curious about hacking. This task helped me to learn more about Kali Linux and its various uses in hacking and other fields of cyber security.