

Module 1: Introduction to Kali Linux

1.1 What is Kali Linux?

Kali Linux is a Debian-based Linux distribution developed by Offensive Security, designed primarily for digital forensics, penetration testing, and ethical hacking. It comes pre-installed with hundreds of powerful security tools and is widely used by security professionals.

1.2 Homepage and Download Link

- Homepage: <https://www.kali.org>
 - Download: <https://www.kali.org/get-kali/>
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Module 2: System Requirements

2.1 Minimum Requirements

- CPU: 64-bit processor
 - RAM: 2 GB minimum (4 GB recommended)
 - Storage: 20 GB minimum (30+ GB recommended)
 - USB Drive: At least 4 GB (8 GB preferred)
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Module 3: Preparing Installation Media

3.1 Download ISO Image

- Choose from Installer, Live, or NetInstaller ISO (Installer is recommended for most users)

3.2 Create Bootable USB

On Windows:

- Use [Rufus](#)

On Linux/macOS:

```
sudo dd if=kali-linux.iso of=/dev/sdX bs=4M status=progress && sync
```

3.3 BIOS/UEFI Configuration

- Enable USB boot
 - Disable Secure Boot (recommended)
 - Set USB as first boot device
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Module 4: Booting and Live Environment

4.1 Boot from USB

- Insert USB and reboot
- Select "Graphical Install" or "Install"

4.2 Test System Compatibility

- Try the Live version if unsure about hardware compatibility
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Module 5: Installation Steps

5.1 Choose Language and Location

5.2 Set Hostname and Domain

5.3 Create User and Set Password

5.4 Disk Partitioning

Option A: Guided - Use entire disk

- Automatically sets up partitions

Option B: Manual

- `/boot/efi` (FAT32, 512MB)
- `/` (ext4, 20-30GB)
- `swap` (optional, size depends on RAM)

5.5 Configure Package Manager

- Use default network mirror

5.6 Software Selection

- Default selection includes top security tools

5.7 Install GRUB Bootloader

- Select your primary drive

5.8 Finish Installation

- Reboot when complete
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Module 6: First Boot and Post-Install Setup

6.1 Login to Kali Desktop

6.2 Update System

```
sudo apt update && sudo apt upgrade -y
```

6.3 Install Additional Tools

```
sudo apt install kali-tools-top10
```

6.4 Configure Network, Firewall, and SSH

```
sudo ufw enable  
sudo systemctl enable ssh && sudo systemctl start ssh
```

Module 7: Best Use Cases for Kali Linux

7.1 Penetration Testing

- Tools: Metasploit, Nmap, Burp Suite, Aircrack-ng

7.2 Ethical Hacking & CTFs

- Participate in Capture The Flag competitions

7.3 Cybersecurity Training

- Ideal for labs, certification practice (e.g., OSCP, CEH)

7.4 Digital Forensics

- Sleuth Kit, Autopsy, Volatility, and more
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Module 8: Tools and Maintenance

8.1 Package Management

```
sudo apt install <package-name>  
sudo apt remove <package-name>
```

8.2 Use Kali Metapackages

```
sudo apt install kali-linux-all
```

8.3 System Cleanup and Updates

```
sudo apt autoremove && sudo apt clean
```

Course Summary

✓ You've learned:

- How to install and configure Kali Linux
- Essential tools for penetration testing and cybersecurity
- Best practices for maintaining a secure ethical hacking environment

🔗 Download Kali Linux: <https://www.kali.org/get-kali/>

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