



Operation: Kali

Installing Kali Linux on UTM

A critical mission tutorial for digital operatives venturing into the shadows of cyberspace.

The Mission Briefing

What is Kali Linux?

Kali Linux is a specialized Debian-based distribution designed for penetration testing, ethical hacking, and digital forensics. It's the tool of choice for cybersecurity professionals and ethical hackers worldwide.

In the shadows of cyberspace, Kali serves as your Swiss Army knife—packed with over 600 pre-installed security tools ready to probe, test, and defend digital infrastructures.



Your Toolkit: What You Need

1

UTM Application

*Installed on your macOS system
(free from getutm.app)*

2

Kali Linux ISO

*Downloaded from official
kali.org website*

3

Hardware Specs

*Minimum 2GB RAM (4GB
recommended), 20GB disk space*

4

Internet Connection

For downloads, updates, and additional tools

5

Courage 🦾

One ounce should suffice for this digital adventure

Download & Prep

01

Visit kali.org/get-kali

Navigate to the official Kali Linux download page and select the appropriate ISO for your Mac (Apple Silicon or Intel).

02

Verify Checksum

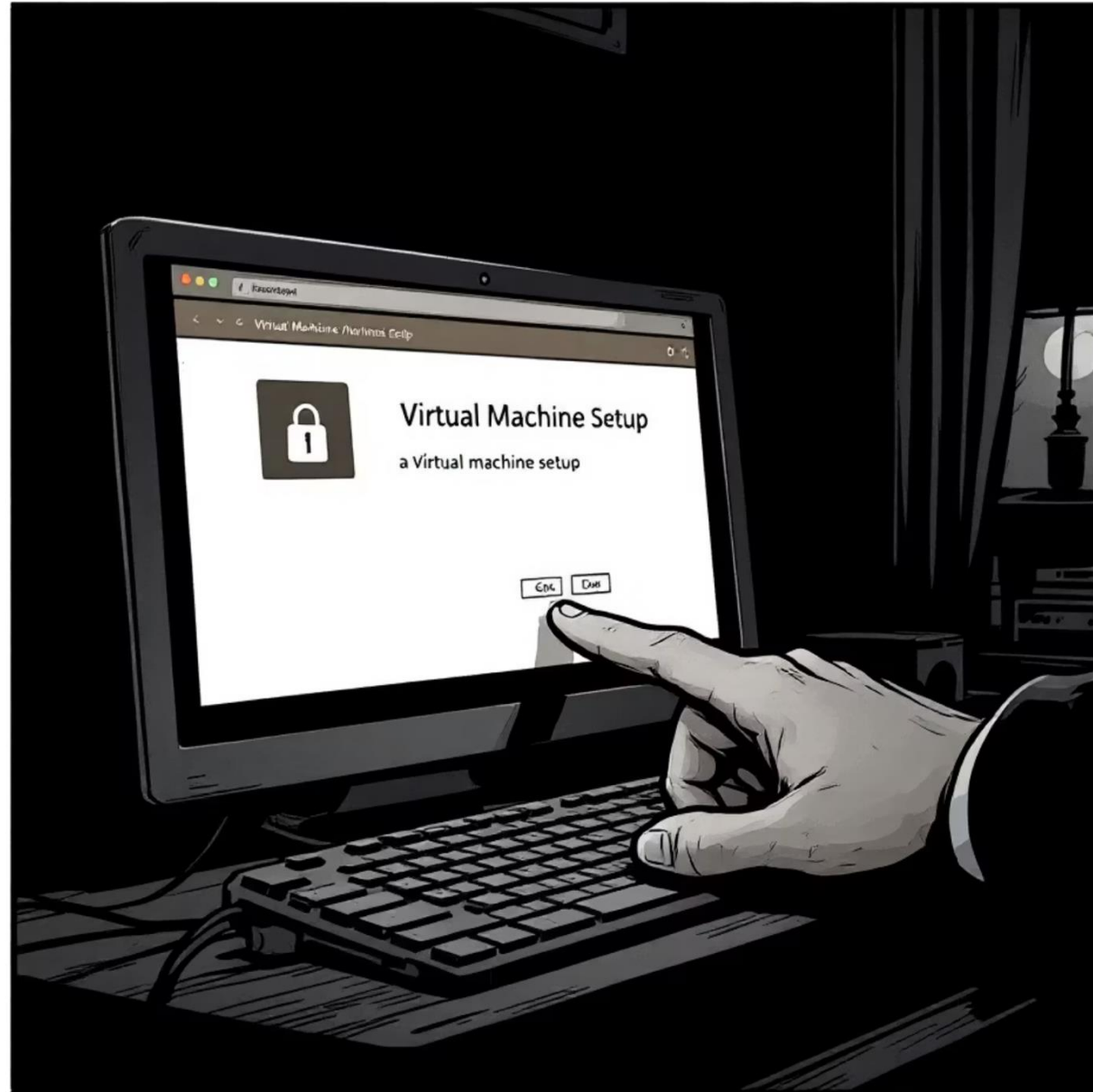
Use SHA256 verification to ensure your download is authentic and untampered. This step is crucial for security.

03

Save to Downloads

Keep your ISO in an accessible location—you'll need it in the next phase of the operation.

UTM Setup: Creating Your Virtual Machine



Launch the Operation

1. *Open UTM application*
2. *Click Create a New Virtual Machine*
3. *Select Virtualize (not Emulate)*
4. *Choose your architecture: ARM64 for Apple Silicon or x86_64 for Intel Macs*
5. *Select Linux as operating system*

Configuring the Virtual Machine

Memory Allocation

RAM: 2GB minimum, 4GB recommended for smooth operations

CPU Cores: Allocate 2-4 cores depending on your system capabilities

Storage Setup

Disk Space: Create a 20-30GB virtual drive

ISO Mount: Attach your downloaded Kali Linux ISO as a CD/DVD drive

Network Configuration

Mode: Enable NAT (Network Address Translation)

Purpose: Allows VM to access internet through your Mac's connection

Save your configuration with a memorable name like "Kali-Lab" or "Operation-Cyber." Your virtual machine is now ready for deployment.

Booting into Kali

First Contact

Start your newly created VM and watch as the Kali Linux boot menu appears. This is where your cyber noir journey truly begins.

1

Launch the VM

Hit the Play button in UTM. The boot sequence initiates.

2

Select Graphical Install

*Choose **Graphical Install** for a user-friendly experience with visual feedback.*

3

Go Full Screen

*Press **Command + Control + F** for maximum dramatic effect*



Installation Steps

Language & Location

Select your preferred language, location, and keyboard layout. These choices shape your system's locale settings.

1

Network Setup

Configure hostname (e.g., "kali-lab"). Domain name can be left blank for local use.

2

User Accounts

Set up root password (make it strong!) and optionally create a standard user account for daily operations.

3

Disk Partitioning

*Choose **Guided** - use entire disk for simplicity. All files in one partition works perfectly for beginners.*

4

Wait...

The installation runs for 10-20 minutes. Perfect time to sip some black coffee ☕ and contemplate your cybersecurity future.

5

First Login & Post-Install Tweaks

Welcome to Your Lab

After installation completes and the system reboots, you'll see the Kali login screen—sleek, dark, and ready for action.

Initial Setup

- ***Login with root or your created user account***
- ***Open terminal and run:*** `sudo apt update && sudo apt upgrade -y`
- ***Install guest additions/tools for better integration***
- ***Adjust display resolution in Settings → Display***
- ***Explore the Applications Menu to discover your new toolkit***





Mission Complete: What's Next?

Your Hacking Lab Awaits

Congratulations, operative. You've successfully deployed Kali Linux on UTM. Your secure, isolated cybersecurity laboratory is now operational.



Explore Nmap

Network scanning and discovery—the reconnaissance phase of any operation.