

Create the Attacker VM

1. Download the Kali ISO

- Visit the [Kali Linux downloads page](#) and grab the latest 64-bit VMware/VirtualBox ISO.


2. Create a New VM in VirtualBox

1. Click **New**.
2. Name: Attacker-Kali.
3. Type: Linux; Version: Ubuntu (64-bit).
4. **Memory:** Allocate at least **2 GB** (4 GB recommended).
5. **Hard Disk:** Create a **20 GB** dynamically allocated VDI.

3. Configure Network Adapters

- **Adapter 1 (NAT):**
 - Enable and attach to **NAT** (for internet).
- **Adapter 2 (Host-Only):**
 - Enable, attach to **Host-Only Adapter (vboxnet0)**.

4. Attach the ISO

1. Go to **Settings** → **Storage**.
2. Under Controller: IDE, click the CD icon  and choose “**Choose a disk file...**”.
3. Select the Kali ISO you downloaded.

5. Boot and Install

1. Start Attacker-Kali.
2. Follow the standard Kali installer:
 - **Graphical Install** → set your locale, keyboard, hostname (attacker-kali), user account & password.
 - Disk Partition: **Guided – use entire disk** → finish.
3. When prompted, enable network mirror for updates.
4. Install GRUB on the virtual disk.

6. Post-Install Tasks

- **Remove ISO** from the virtual drive (Storage → detach).
- **Lunch Kali and update:**

Kali Terminal:

```
sudo apt update
```

Verify Network

On your Kali machine, open NetworkManager and add a new ethernet adapter since Kali has two network adapters.

Kali Terminal:

```
ip a      # Should show eth0 on 10.0.2.x (NAT) and eth1 on 192.168.56.x (Host-Only)
```

```
ping -c 3 192.168.56.1 # Should reach your host
```

Your Task for Step 2.2

1. Download the Kali ISO and create the Attacker-Kali VM with the settings above.
2. Install Kali and verify both network adapters are functioning (you can ping your host on the Host-Only network and the internet on the NAT).