

install kali linux

- 1) ໂນໂລຢີນ web kali
- 2) ຖື່ນ vm ໂາ add ໄຟລ໌ .vbox

import debian

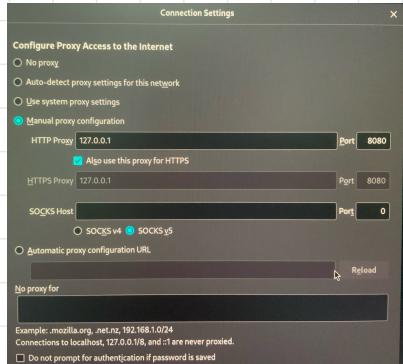
- 1) file ຫ້າຍໝນ
- 2) import Appliance
- 3) ເລືອກໄປ້ debian.ova
- 4) finish

ກາຮສ້າງ NAT

- 1) Tools → Network
- 2) ເລືອກ NAT network
- 3) ລາຍເນັດ
- 4) ອີ່ນ name, ip
- 5) ລາຍເນັດ
- 6) kali → setting → network → adapter 2
→ ຕັ້ນ Enable network adapter
→ ເລືອກ NAT network (ອັນ 3 ຈາກຈຳກັງ)
→ ເລືອກ NAT ກໍ່ສ້າງ
- 7) debian → ກ່ຽວຂ້ອງ kali

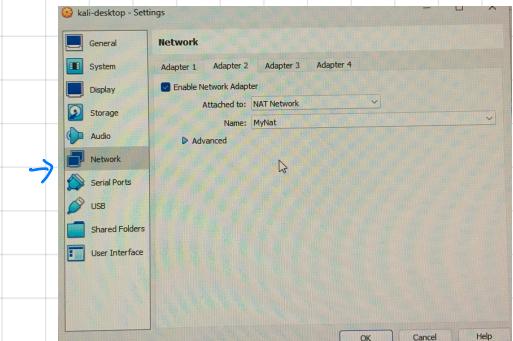
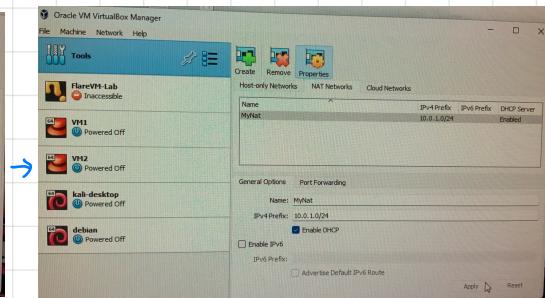
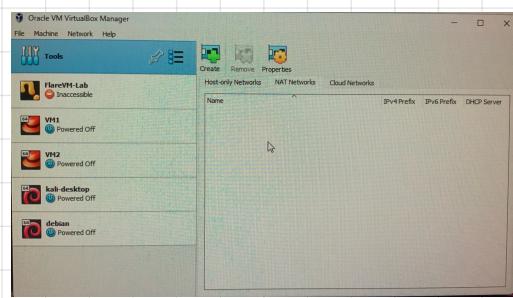
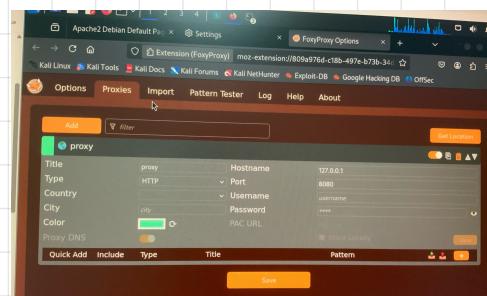
set firefox proxy

⇒ setting → ລ່າງຊັດ → network setting



set foxy proxy

download foxy proxy extension
→ option → proxy → ອີ່ນ name, hostname, port
→ save → ເລືອນນັ້ນ extension



8) ອີ່ນ "ip a" command ທັງໆຈະໄດ້ debian ແລະ kali ດັ່ງນັ້ນ

debian

```
debian:~# ip a
cn351 login: cn351
Password:
Linux cn351 6.1.0-29-aml64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.123-1 (2025-01-02) x86_64
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Mar 27 22:06:25 +07 2025 on ttys0
cn351:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
        valid_lft forever preferred_lft forever
        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
            valid_lft forever preferred_lft forever
            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                valid_lft forever preferred_lft forever
                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                    valid_lft forever preferred_lft forever
                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                        valid_lft forever preferred_lft forever
                        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                            valid_lft forever preferred_lft forever
                            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                valid_lft forever preferred_lft forever
                                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                    valid_lft forever preferred_lft forever
                                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                        valid_lft forever preferred_lft forever
                                        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                            valid_lft forever preferred_lft forever
                                            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                valid_lft forever preferred_lft forever
                                                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                    valid_lft forever preferred_lft forever
                                                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                        valid_lft forever preferred_lft forever
                                                        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                            valid_lft forever preferred_lft forever
                                                            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                valid_lft forever preferred_lft forever
                                                                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                    valid_lft forever preferred_lft forever
                                                                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                        valid_lft forever preferred_lft forever
                                                                        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                            valid_lft forever preferred_lft forever
                                                                            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                valid_lft forever preferred_lft forever
                                                                                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                    valid_lft forever preferred_lft forever
                                                                                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                        valid_lft forever preferred_lft forever
                                                                                        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                                        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                            valid_lft forever preferred_lft forever
                                                                                            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                                            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                                valid_lft forever preferred_lft forever
                                                                                                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                                                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                                    valid_lft forever preferred_lft forever
                                                                                                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                                                                                                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                                                                                                        valid_lft forever preferred_lft forever
................................................................
```

* debian : status → sudo systemctl status networking

restart → sudo systemctl restart networking

set foxy proxy

download foxy proxy extension
→ option → proxy → ອີ່ນ name, hostname, port
→ save → ເລືອນນັ້ນ extension

```
kali:~# ip a
lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
        valid_lft forever preferred_lft forever
        link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
            valid_lft forever preferred_lft forever
            link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
            inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                valid_lft forever preferred_lft forever
                link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                    valid_lft forever preferred_lft forever
                    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
                    inet 127.0.0.1/8 brd 127.0.0.1 scope host lo
                        valid_lft forever preferred_lft forever
................................................................
```

* kali : status → sudo systemctl status NetworkManager

service networking status

restart → sudo systemctl restart NetworkManager

service networking restart

9) add interfaces 9u debian

```
GNU nano 7.2
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
source /etc/network/interfaces.d/*
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
allow-hotplug enp0s3
iface enp0s3 inet dhcp
# The primary network interface
allow-hotplug enp0s8
iface enp0s8 inet dhcp
```

web path

- 1) sudo apt install apache2
- 2) sudo systemctl start apache2 or sudo service apache2 start
- 3) systemctl status apache2 or service apache2 status

Web Path ของ Apache2 และ Nginx:

1. Apache2:

- Default Document Root: /var/www/html/
- โดยปกติ Apache2 จะใช้ path นี้ในการเก็บไฟล์เว็บไซต์ที่ใช้แสดงผล หากไม่ได้ตั้งค่าให้จะเป็นที่นี่
- หากต้องการเปลี่ยนแปลงสามารถทำได้ในไฟล์การตั้งค่า เช่น /etc/apache2/sites-available/000-default.conf (บน Ubuntu/Debian) หรือ /etc/httpd/conf/httpd.conf (บน CentOS/RHEL)

2. Nginx:

- Default Document Root: /usr/share/nginx/html/
- Nginx ใช้ path นี้เป็นที่เก็บไฟล์เว็บไซต์ที่ตั้งค่า
- หากต้องการเปลี่ยนแปลงสามารถทำได้ในไฟล์การตั้งค่า เช่น /etc/nginx/sites-available/default หรือ /etc/nginx/nginx.conf

ในที่ส่องกรณี ว่าต้องการกำหนดหรือเปลี่ยนแปลง web path ที่จะใช้สำหรับเว็บไซต์ของคุณ สามารถแก้ไขไฟล์ config ไฟล์ในตำแหน่งที่ถูกตั้งขึ้นแล้วทำการรีสตาร์ทเซอร์ฟเวอร์ที่ส่องให้ทำงานตามการตั้งค่าใหม่。

วิธีดู target ip

(10.0.1.0/24)

① sudo nmap "Nat network" ✓ | sudo nmap -O "Nat network" ณ OS debian

② sudo arp-scan -l --interface=eth1 (อ่านว่า สกัด)

หา port ของ target (check for http by url=http://target-ip:port, ถ้าหา nmap http service)

① ใช้ sudo nmap "target ip" -p 0-65535 ✓ | can nmap their self using 127.0.0.1

ณ default web page ของ target (9 port ที่ nmap ที่ scan ได้)

lowest port

http://<target_ip>:<lowest_port>

highest port

http://<target_ip>:<highest_port>

เข้าเว็บ

3 request: /favicon.ico; style.css; /

```
(2) x Terminal Actions Edit View Help
OS:SXT+FXCD+S

Network Distance: 1 hop
Nmap scan report for 10.0.1.2
Host is up (0.00059s latency).
Not shown: 999 closed tcp ports (no-response)
PORT      STATE SERVICE
135/tcp   open  msrpc
445/tcp   open  microsoft-ds
MAC Address: 32:54:00:00:35:00 (GIGAvirtual NIC)
Masscan OS results say an unreliable because we could not find at least 1 open and 1 closed port
Device type: VoIP phone/webcam/specialized/firewall
Running (JUST GUESSING): Grandstream embedded (91%), Garmin embedded (89%), ZN embedded (88%),
Firebrick FB2700 Firewall (85%)
Aggressive OS guesses: Grandstream GPX195 VoIP phone (91%), Garmin Vibz Elite action camera (89%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 1 hop

Nmap scan report for 10.0.1.4
Host is up (0.00021s latency).
All 1000 scanned ports on 10.0.1.4 are in ignored states.
Not shown: 1000 closed tcp ports (reset)
MAC Address: 08:00:27:7C:94:1B (Oracle VirtualBox virtual NIC)
Too many fingerprints match this host to give specific OS details
Network Distance: 1 hop

Nmap scan report for 10.0.1.5
Host is up (0.00072s latency).
Not shown: 999 closed tcp ports (reset)
PORT      STATE SERVICE
22/tcp   open  ssh
MAC Address: 08:00:27:7C:94:1B (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 4.X|5.X
OS details: Linux 4.15 - 5.8
OS details: Linux 4.15 - 5.8
Network Distance: 0 hops

OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 256 IP addresses (5 hosts up) scanned in 32.34 seconds
```

จัดการ cookie ว่าเก็บบันทึก user ไว้ที่ไหนก็ login ได้

หากต้องการป้องกันจาก ช้อตกรีฟfore ควรจะหักบันทึกไว้ใน cookie

Brute force (burpsuite intruder)

Here's a detailed, step-by-step guide to using Burp Suite Intruder for brute-forcing:

Step 1: Set Up Burp Suite

1. Open Burp Suite.
2. Configure your browser to use Burp Suite as a proxy:
 - By default, Burp listens on 127.0.0.1:8080.
 - Set your browser's proxy settings to 127.0.0.1:8080 for HTTP and HTTPS traffic.

Step 2: Capture the Request

1. Open Burp Suite and go to the Proxy tab.
2. Make sure Intercept is on. If you are testing a website, go to the login page or the page you want to brute-force.
3. Fill out the form with dummy data and submit it (for example, entering a username and password if you're testing a login form).
4. Burp will intercept this request. Click Forward to pass the request to the server, or you can Send to Intruder directly from here.

Step 6: Configure the Intruder Attack Type

1. Select the Attack Type:
 - **Sniper:** Used when you're testing one payload on one parameter at a time (useful for brute-forcing a single field like the password).
 - **Battering Ram:** Used when you're testing the same payload across multiple parameters.
 - **Pitchfork:** Use different payloads for different parameters (useful for brute-forcing both the username and password).
 - **Cluster Bomb:** Used for combining multiple payloads across different parameters in all possible combinations.
2. For a simple password brute-force, Sniper is usually the best option.

Step 7: Start the Brute-Force Attack

1. Once the configuration is complete, click on Start Attack at the top of the Intruder tab.
2. Burp Suite will begin sending requests with the payloads you specified and display the results in real-time.

Step 8: Monitor Results

1. While the attack is running, you'll see a live update of the request responses, including:
 - **Status Code:** This tells you if the request was successful (e.g., a 200 status might mean successful login, while a 403 might indicate failure).
 - **Response Length:** This can help indicate a successful login (the response size might be different for successful vs. failed attempts).
 - **Response Body:** You may also analyze the body for messages like "Incorrect password" or "Welcome back!" to identify successful login attempts.
2. Look for anomalies or differences in the response that indicate a successful brute-force attempt.

Step 9: Analyze the Results

1. After the attack completes, review the results.
2. Look for successful attempts:
 - Look for any responses that might indicate a successful login, such as a different HTTP status code or response body.
3. You can stop the attack at any time by clicking Stop Attack.

Additional Tips:

- **Rate Limiting:** Be mindful of rate limits and account lockout mechanisms that could block you after too many failed attempts.
- **Ethical Use:** Make sure you have explicit permission to perform penetration testing on the target. Unauthorized brute-forcing can be illegal and unethical.

This is a basic guide to using Burp Suite Intruder for brute-forcing a login form. Would you like more details on any specific step?