

Tool Name:

BeEF (Browser Exploitation Framework) + msfvenom

Description:

A penetration testing combo used to exploit browser vulnerabilities (via BeEF) and deliver custom payloads (via msfvenom) to gain access or execute commands on the target system.

What Is This Tool About?

BeEF hooks a browser using XSS, then exploits the victim through browser-based modules. msfvenom is used to generate payloads (e.g., reverse shells) for post-exploitation access.

Key Characteristics / Features:

Browser hooking via XSS

Full control over victim browser

Live session tracking

Supports social engineering modules

Custom payload delivery (via msfvenom)

Works on LAN and WAN

Meterpreter support

Command execution via browser

Payload obfuscation support

Multiplatform payloads (Windows/Linux/macOS)

Fake update delivery (Flash, PDF, etc.)

Automation via RESTful API

Works with Kali Linux, ParrotOS, etc.

Real-time command execution

Multi-browser support (Chrome, Firefox, Edge)

 Types / Modules Available:

Fake Flash Update (Social Engineering)

Webcam Snapper

Keylogger Injection

Java Applet Attack

ClickJacking Module

Custom Script Injection

Browser Fingerprinting

Command Execution Shell

Payload Dropper

Clipboard Stealer

How Will This Tool Help?

Exploits browser-based sessions post-XSS

Drops and executes backdoors or reverse shells

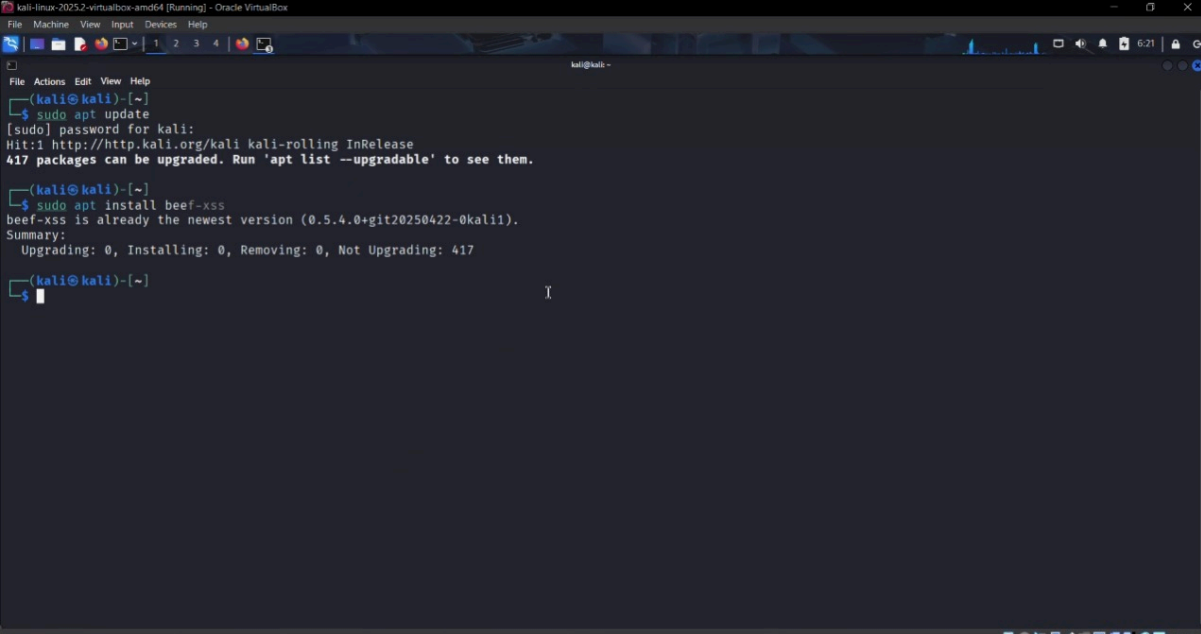
Acts as a foothold into internal networks

Helps simulate phishing/drive-by download attacks

Offers red teams realistic attack scenarios

**\*\*Proof of Concept (PoC) Images:**

1)Installing Beef-xss



```
kali@kali:~$ sudo apt update
[sudo] password for kali:
Hit:1 http://http.kali.org/kali kali-rolling InRelease
417 packages can be upgraded. Run 'apt list --upgradable' to see them.

kali@kali:~$ sudo apt install beef-xss
beef-xss is already the newest version (0.5.4.0+git20250422-0kali1).
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 417

kali@kali:~$
```

2)Starting beef-xss

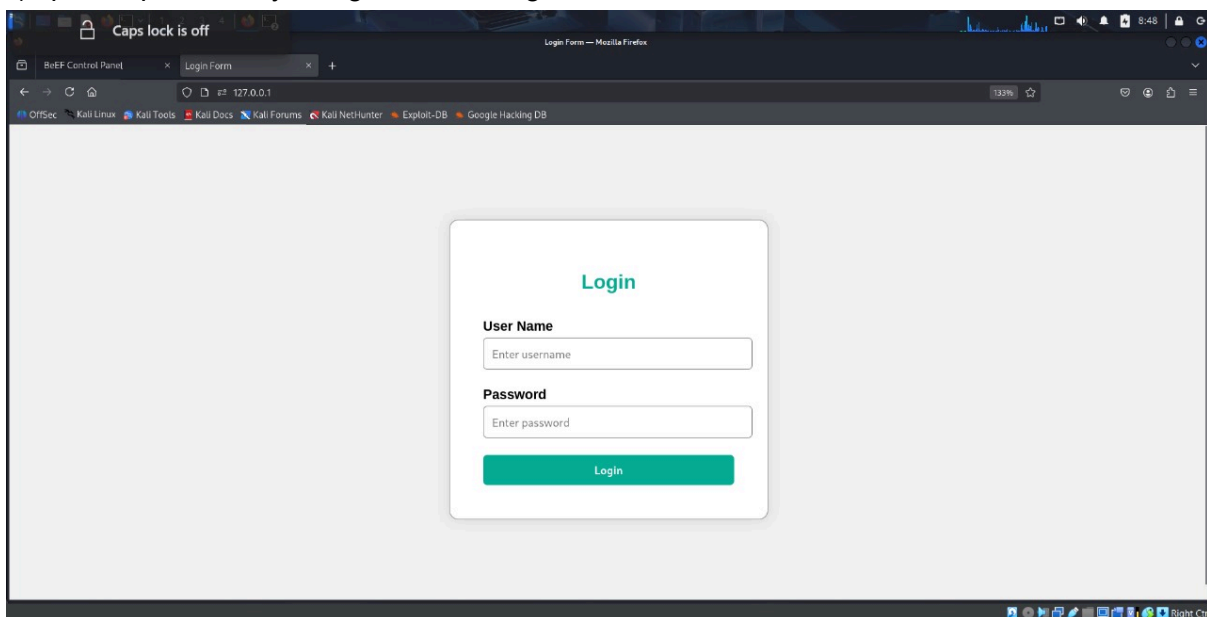


#### 4)Creating HTML file in HTTP server

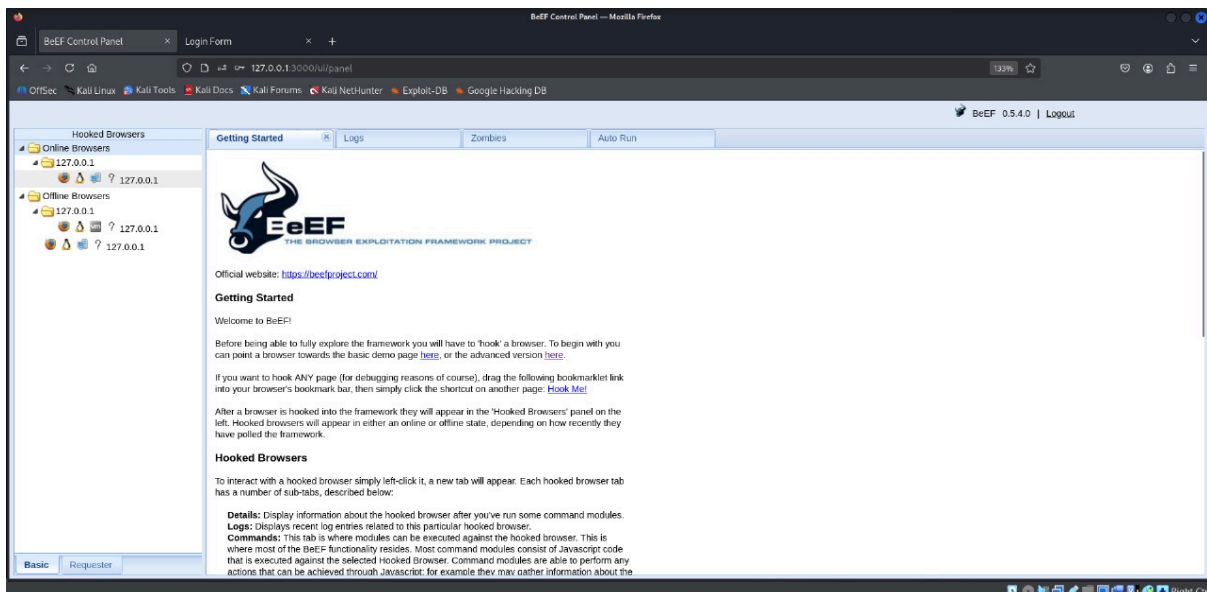
```
(root@kali)~#  
└─$ cd /var/www/html/ ; experienced problems while visiting www.example.com, you  
└─$ ls  
index.html  
└─$ sudo nano index.html  
└─$
```

#### 5)Creating html web page and inserting a hook javascript as a malicious code

#### 6)Open http server by using inet id through firefox



#### 7)After victim visits webpage their inet address is visible on beef-xss,which means the victim is hooked



8)By visitng the command section You can perform metasploit browser\_autopwn attack for that initiate msf console

9)Configure metasploit parameters by providing SRHOST id and LHOST id

10)Restarting beef-xss and metasploit after configuration

11)Now we are able to observe victims activities through session attacks which we are able to execute with help of metasploit

15-Liner Summary:  
Hook browsers via XSS

Control hooked clients

Execute JS in victim browser

Deliver payload with msfvenom

Use CLI/GUI for modules

Exploit across OS (Win/Linux/Mac)

Gain Meterpreter shell

Integrate with Metasploit

Use Fake Update to trick victims

Create custom payloads

Track live browser sessions

Post-exploitation browser attacks

Simulate real-world threats

Useful for training labs

Scriptable and modular


🕒 Time to Use / Best Case Scenarios:  
After identifying XSS vulnerability

During red team simulation

To test user awareness and SE defenses

For phishing campaign simulation

During penetration test PoC phase


 When to Use During Investigation:  
Web-based attack vector testing

Internal security assessment

Simulated phishing & drive-by attacks

Post-XSS exploitation path

Recon and payload delivery via browsers

 Best Person to Use This Tool & Required Skills:  
Best User: Red Team Operator / Ethical Hacker / Exploit Developer

Required Skills:


Strong knowledge of XSS and client-side scripting

Familiarity with Metasploit and msfvenom

Basic reverse shell and payload techniques

Command-line proficiency (Linux)

Understanding of social engineering vectors


 Flaws / Suggestions to Improve:  
No HTTPS support out of the box (manual config needed)

Real-time payload detection by AVs

Browser-based limitations (sandboxing)

Needs more encrypted payload options

Improve UI stability and client refresh rate

 Good About the Tool:  
Easy to set up on Kali Linux

Real-world attack simulation

Powerful with msfvenom integration

Works with wide range of browsers

Excellent for PoC and training