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PENTESTER ACADEMY TOOL BOX

TRAINING

Name	Fingerprinting Webapp (CLI)
URL	https://attackdefense.com/challengedetails?cid=1814
Туре	Beginner Skills : Linux For Pentesters

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Objective: Fingerprint the WebApp running on target machine using the following utilities/tools:

- curl
- wget
- nmap
- lynx
- browsh

Solution:

Check the IP address of the machine.

Command: ip addr

```
root@attackdefense:~# ip addr
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
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
16625: eth0@if16626: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:0a:01:01:08 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 10.1.1.8/24 brd 10.1.1.255 scope global eth0
        valid_lft forever preferred_lft forever
16628: eth1@if16629: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc noqueue state UP group default
    link/ether 02:42:c0:3c:e7:02 brd ff:ff:ff:ff:ff:ff link-netnsid 0
    inet 192.60.231.2/24 brd 192.60.231.255 scope global eth1
        valid_lft forever preferred_lft forever
root@attackdefense:~#
```

The IP of user's machine is 192.60.231.2, so as per the guidelines the IP of remote Linux machine should be 192.60.231.3

Method 1: Using curl

Command: curl 192.60.231.3

Method 2: Using wget

wget can be used to download the HTML page and then read it to know about the application.

Command: wget 192.60.231.3

Command: cat index.html

Method 3: Using nmap

Nmap script http-enum can be used to to know about the application.

Command: nmap --script=http-enum 192.60.231.3

```
root@attackdefense:~# nmap --script=http-enum 192.60.231.3
Starting Nmap 7.70 ( https://nmap.org ) at 2020-04-05 03:37 UTC
Nmap scan report for target-1 (192.60.231.3)
Host is up (0.000020s latency).
Not shown: 998 closed ports
PORT
         STATE SERVICE
80/tcp
         open http
 http-enum:
    /phpinfo.php: Possible information file
    /.git/HEAD: Git folder
    /README: XODA 0.4.5
    /files/: Potentially interesting directory w/ listing on 'apache/2.4.7 (ubuntu)'
   /js/: Potentially interesting directory w/ listing on 'apache/2.4.7 (ubuntu)'
3306/tcp open mysql
MAC Address: 02:42:C0:3C:E7:03 (Unknown)
Nmap done: 1 IP address (1 host up) scanned in 3.10 seconds
root@attackdefense:~#
```

Method 4: Using lynx

Lynx tool can be used to view local and remote HTML pages.

Check the help options for the tool

Command: lynx -h

```
root@attackdefense:~# lynx -h
lynx: Invalid Option: -h
USAGE: lynx [options] [file]
Options are:
                    receive options and arguments from stdin
  -accept all cookies
                    accept cookies without prompting if Set-Cookie handling
                    is on (off)
                    apply restrictions for anonymous account,
  -anonymous
                    see also -restrictions
  -assume charset=MIMEname
                    charset for documents that don't specify it
  -assume_local_charset=MIMEname
                    charset assumed for local files
  -assume_unrec_charset=MIMEname
                    use this instead of unrecognized charsets
```

Use lynx to open the remote web page.

Command: lynx http://192.60.231.3

root@attackdefense:~# lynx http://192.60.231.3
root@attackdefense:~#



The options to interact with lynx appears in the bottom part.

```
(NORMAL LINK) Use right-arrow or <return> to activate.

Arrow keys: Up and Down to move. Right to follow a link; Left to go back.

H)elp O)ptions P)rint G)o M)ain screen Q)uit /=search [delete]=history list
```

It also supports typing into text fields and submitting values to forms.

<<< XODA		
Username:	admin	
Password:	******	
login		
Enter text I	Use arrows or tab to move off of field.	
E	Enter text into the field by typing on the keyboard of delete all text in field, [Backspace] to delete a character	
CCI I-O CC	delete di text in liefu, [backspace] to defete a character	E

Method 5: Using browsh

Browsh uses firefox to represent the web page on CLI.

Check the help options for the tool

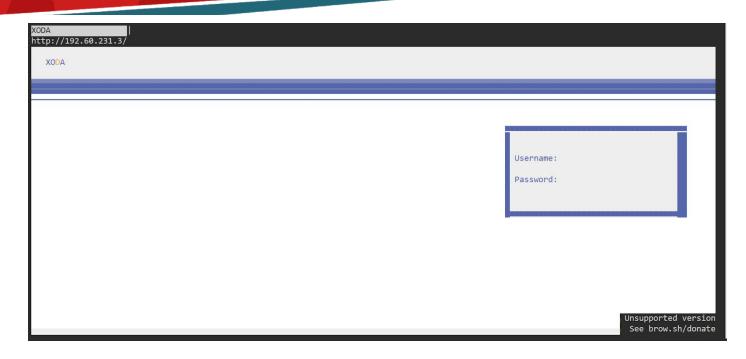
Command: browsh -h

```
root@attackdefense:~# browsh -h
Usage of browsh:
      --debug
                               Log to ./debug.log
      --firefox.path string
                               Path to Firefox executable (default "firefox")
      --firefox.use-existing
                              Whether Browsh should launch Firefox or not
                               Don't use headless Firefox
      --firefox.with-gui
                               Run as an HTTP service
      --http-server-mode
      --monochrome
                               Start browsh in monochrome mode
      --startup-url string
                               URL to launch at startup (default "https://www.brow.sh")
      --time-limit int
                               Kill Browsh after the specified number of seconds
      --version
                               Output current Browsh version
pflag: help requested
root@attackdefense:~#
```

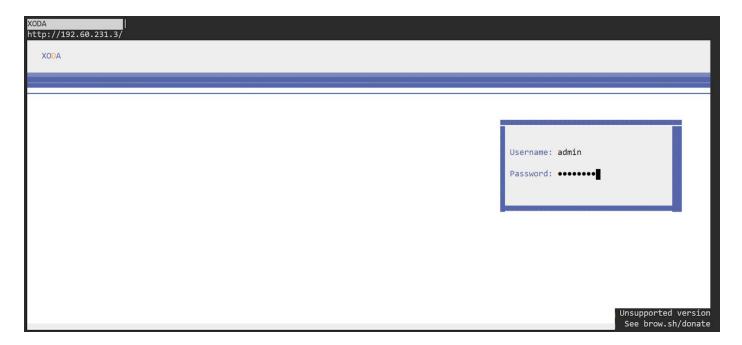
Use browsh to open the remote web page.

Command: browsh --startup-url http://192.60.231.3

```
root@attackdefense:~#
root@attackdefense:~# browsh --startup-url http://192.60.231.3
root@attackdefense:~#
```



It also supports submitting values to forms and interacting with clickable links/buttons.



References:

- Lynx (https://linux.die.net/man/1/lynx)
- Browsh (https://www.brow.sh/)