### **Anthem**



At first we will do nmap scan to get information about ports.

nmap -Pn -sV -sS 10.10.114.249

```
map -Pn -sV -sS 10.10.114.249

Starting Nmap 7.93 ( https://nmap.org ) at 2023-07-29 07:56 EDT

Nmap scan report for 10.10.114.249

Host is up (0.18s latency).

Not shown: 998 filtered tcp ports (no-response)

PORT STATE SERVICE VERSION

80/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

3389/tcp open ms-wbt-server Microsoft Terminal Services

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

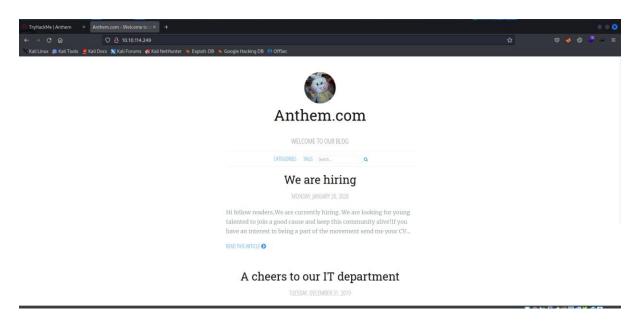
Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Nmap done: 1 IP address (1 host up) scanned in 63.51 seconds
```

Here we can see 2 ports are open, **port 80** and **port 3389**. As port 80 is open there must be a website.



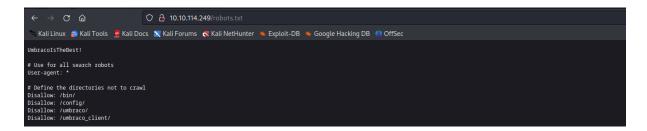
We found the website. Now we will try to find out what we get from this.



At first we will search for the **robots.txt** file, if that is available or not.



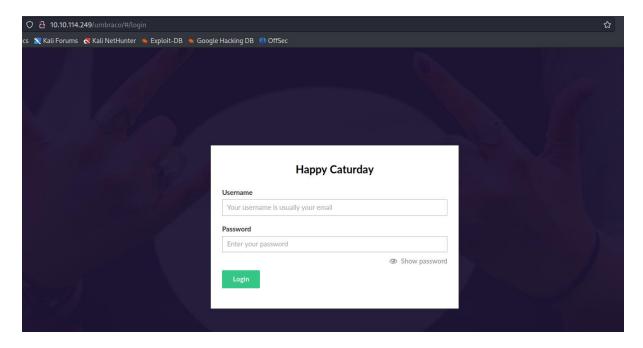
Looks like we found a text which looks like a possible password for something and we also got some directories which are disallow.



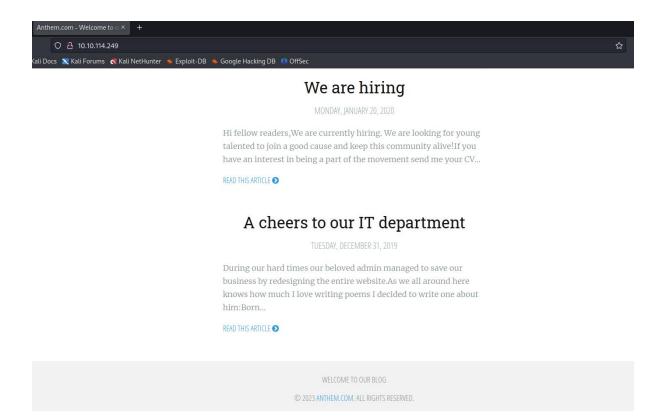
Let's try to go to /umbraco/ one.



Here we found out a login page. But we don't have any credentials to log in. Let's try to find the potential user.



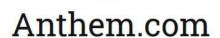
Let's go back to the anthem.com. here we can see there is 2 blog post in this website.



Now if we open the  $\mathbf{1}^{\text{st}}$  blog post we can see there is an email id and author name of the anthem blog.

Email id - JD@anthem.com

Name - Jane Doe



WELCOME TO OUR BLOG

CATEGORIES TAGS Search... Q

We are hiring

MONDAY, JANUARY 20, 2020

Hi fellow readers,

We are currently hiring. We are looking for young talented to join a good cause and keep this community alive!

If you have an interest in being a part of the movement send me your CV at JD@anthem.com

SHARE THIS POST \*\* If \*\*

AUTHOR\*

To enable comments sign up for a Disqus account and enter your Disqus

Now if we open the 2<sup>nd</sup> blog post we can see a rhyme posted in here.

Author for Anthem blog



## A cheers to our IT department

TUESDAY, DECEMBER 31, 2019

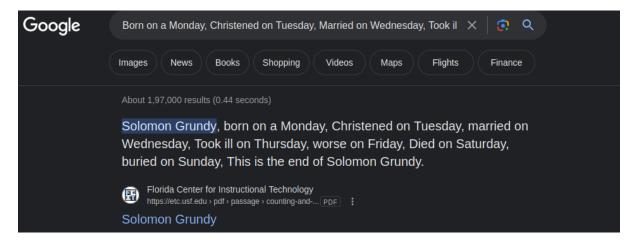
During our hard times our beloved admin managed to save our business by redesigning the entire website.

As we all around here knows how much I love writing poems I decided to write one about him:

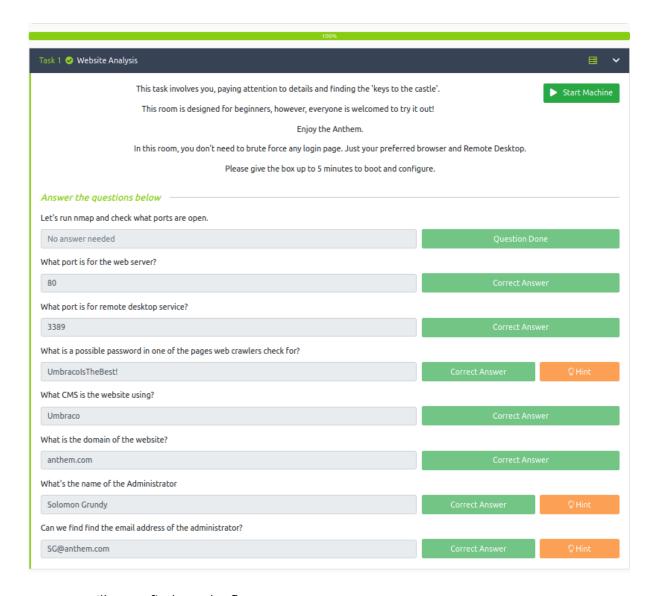
Born on a Monday, Christened on Tuesday, Married on Wednesday, Took ill on Thursday, Grew worse on Friday, Died on Saturday, Buried on Sunday. That was the end...

Now if we search the poem in ant search engine we can easily find out the name of the admin.

Admin name - Solomon Grundy



But the login page demands for email of the user. So let's find the email address of the admin. If we follow the pattern of the email that we got from the 1<sup>st</sup> blog post then the email id of the admin will be sg@anthem.com.



Now we will try to find out the flags.

now if we will go to the page source of the 1st blog post. Here we will get our 1st flag.

```
1st flag -THM{LOL WHO US3S M3T4}
```

Now if we scroll down the source code we will get the 2<sup>nd</sup> flag.

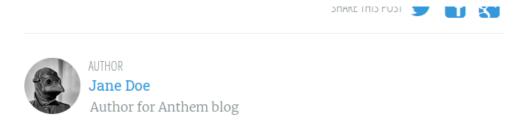
#### $2^{nd}$ flag - THM{G!T\_G00D}

```
43 | Welcome to our blog

44 | </h2>
45 | <nav class="menu" role="nav">
46 | 
47 | 48 | 46 | 
48 | 40 | 
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```

Now in the 1st blog post if we go to the profile of the author we will get another flag there.

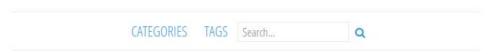
```
3rd flag - THM{LOL WHO D15}
```



To enable comments sign up for a Disqus account and enter your Disqus shortname in the Articulate node settings.

# Anthem.com

WELCOME TO OUR BLOG



## Jane Doe



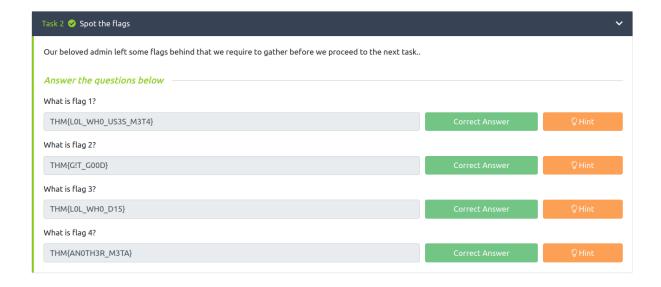
Author for Anthem blog

Website: THM{LoL\_WHo\_D15}

Now if we go to the page source of  $2^{nd}$  blog post we will get our  $4^{th}$  flag.

 $4^{th}$  flag - THM{ANOTH3R\_M3TA}

```
| Wew-sourcehttp://to.10.114.249/archive/a-cheers-to-our-it-department/ | Stations | California | California
```



As we already know that we have a remote desktop port 3389 open, we use the already found credentials to log in.

Username — SG

Password — UmbracolsTheBest!

rdesktop -u SG -p UmbracoIsTheBest! 10.10.114.249

```
root@ Mail) - [/home/kali]
Autoselecting keyboard map 'en-us' from locale

ATTENTION! The server uses and invalid security certificate which can not be trusted for the following identified reasons(a);

1. Certificate issuer is not trusted by this system.

Issuer: CN-WIN-LU09299160F

Review the following certificate info before you trust it to be added as an exception.

If you do not trust the certificate the connection atempt will be aborted:

Subject: CN-WIN-LU09299160F

Issuer: CN-WIN-LU09299160F

Valid From: Fri Jul 28 07:53:42 2023

To: Sat Jan 27 06:53:42 2024

Certificate fingerprints:

shal: 3bb98bs3710865377c08857b7a97331f4bldb33c
sha256: 3602c3c469352d25ld743flc4b4819990ac87f262331668b0ac9afaf4a8d583b

Do you trust this certificate (yes/no)? yes

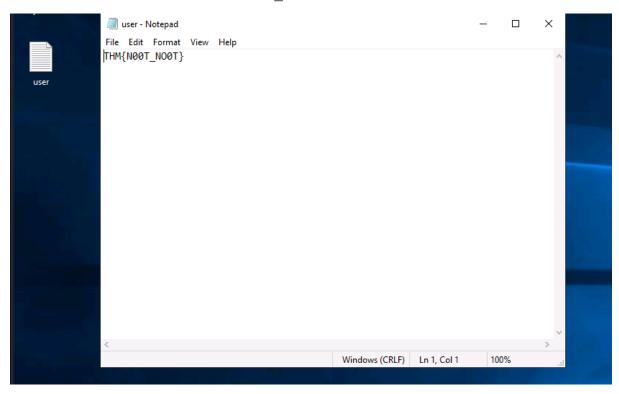
Core(error): tcp_tls_connect(), TLS handshake failed. GnuTLS error: The operation timed out

Core(warning): Certificate received from server is NOT trusted by this system, an exception has been added by the user to trust this specific certificate. Connection established using SSI.
```

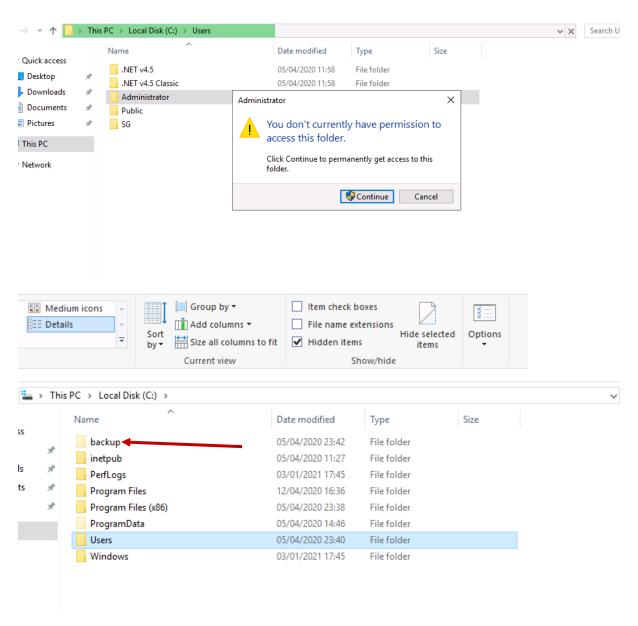


Now we can see that there is a user file on the desktop. Now we will open the user file.

Content of user.txt - THM{N00T\_N00T}

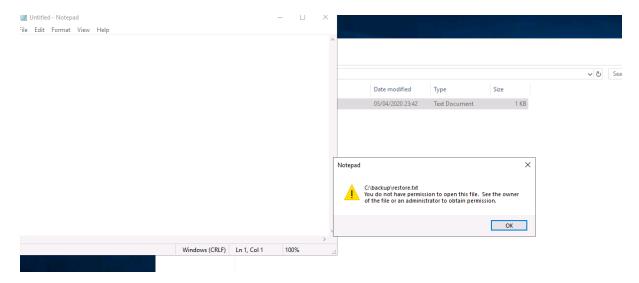


Password is required to access the Administrator folder. There is a backup folder that has the password. Enable hidden items folder to view it.



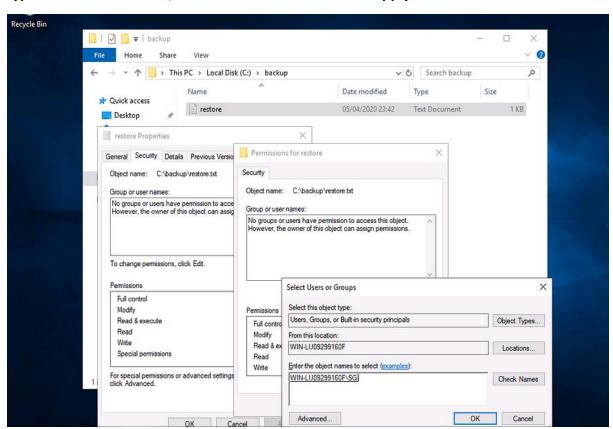
Inside the backup folder, we have a restore.txt file that we do not have permission to open. For that, we need to change permissions for this file.

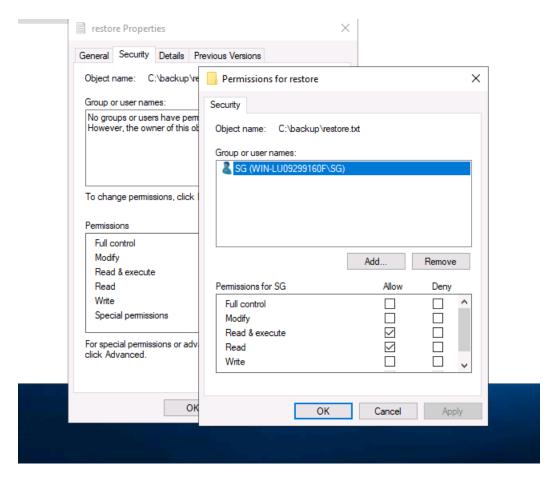




We will change the permission of the file through these following steps.

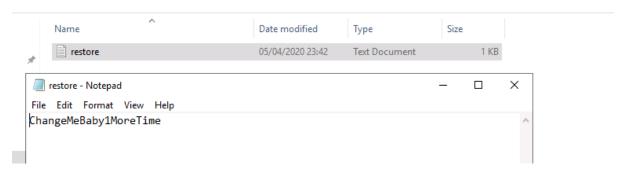
select restore.txt > Right click > properties > security > edit > add Group or Username > type WIN-LU09299160F\SG and click check names> ok>apply.



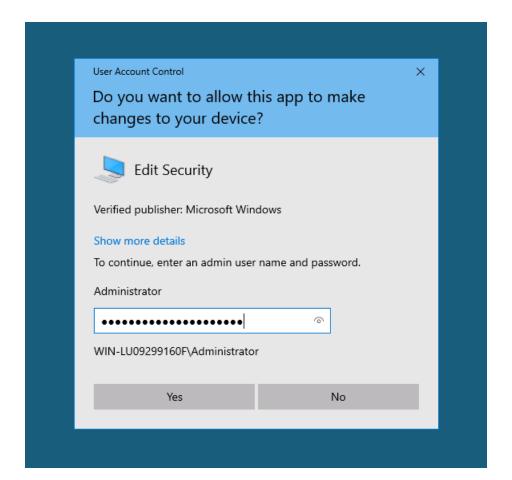


Now we can easily open the restore.txt file and see the admin password.

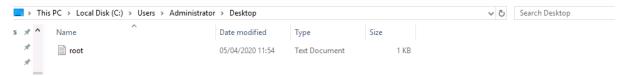
Restore.txt - ChangeMeBaby1MoreTime



Using this we access the Administrator folder.



Under administrator folder in desktop there is a root.txt file.



Now if we open the root.txt file we will get the root flag.

Root.txt - THM{Y0U 4R3 1337}

