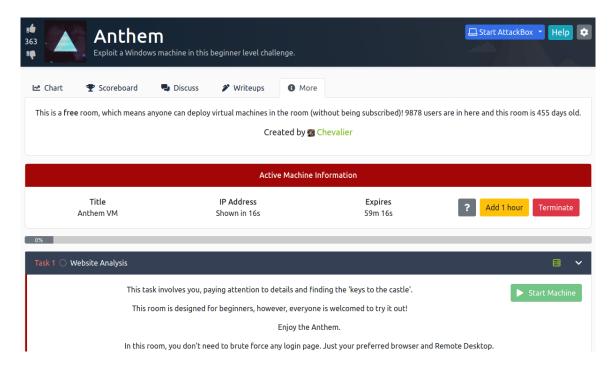
Anthem write-up by ChickenLoner

This is a write-up for Anthem room in TryHackMe which we need to do recon and explore website, find potential credentials, and connect to RDP, elevate our privilege to rock this box

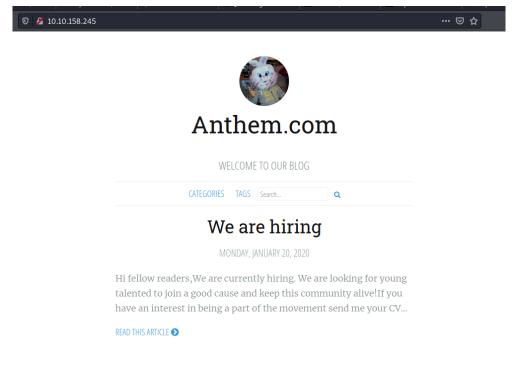
Site: https://tryhackme.com/room/anthem



Let's do recon! Always start with nmap we can see that web server is running and RDP port is opened

```
(kali@kali)-[~/snoopbees/CTF]
                                      10.10.158.245
Host discovery disabled (-Pn). All addresses will be marked 'up' and scan times will be slower.
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-13 09:38 EDT Nmap scan report for 10.10.158.245
Host is up (0.23s latency).
Not shown: 998 filtered ports
PORT STATE SERVICE
80/tcp open http
                                         VERSION
                                          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
3389/tcp open ms-wbt-server Microsoft Terminal Services
   rdp-ntlm-info:
Target_Name: WIN-LU09299160F
NetBIOS_Domain_Name: WIN-LU09299160F
     NetBIOS_Computer_Name: WIN-LU09299160F
DNS_Domain_Name: WIN-LU09299160F
DNS_Computer_Name: WIN-LU09299160F
Product_Version: 10.0.17763
      System_Time: 2021-08-13T13:39:20+00:00
  ssl-cert: Subject: commonName=WIN-LU09299160F
Not valid before: 2021-08-12T13:35:37
_Not valid after: 2022-02-11T13:35:37
   ssl-date: 2021-08-13T13:40:10+00:00; -1s from scanner time.
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
_clock-skew: mean: -1s, deviation: 0s, median: -1s
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 85.65 seconds
```

It's time to check website, its blog website that has Anthem.com as domain name

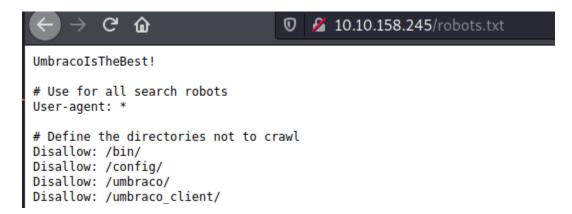


A cheers to our IT department

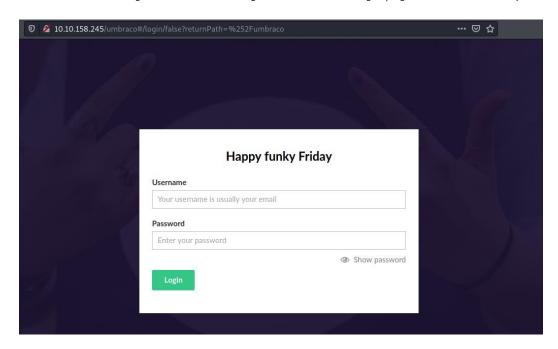
Inspect source code we can see a flag hidden in Search bar

```
C 0
                                 view-source:http://10.10.158.245/
               <h1 class="blog-title">
               <a href="/">
                   Anthem.com
               </a>
           </h1>
           <h2 class="blog-description">
       Welcome to our blog
43 </h2>
           <nav class="menu" role="nav">
       <a href="/categories">Categories</a><a href="/tags">Tags</a></a>
47
           <
      <div class="articulate-search">
<form method="get" action="/search">
<input type="text" name="term" placeholder="Search...
<button type="submit" class="fa fa-search fa"></button>
                                                                                                 THM{G!T_G00D}" />
       </form>
54 </div>
           57 </nav>
       -/headers
```

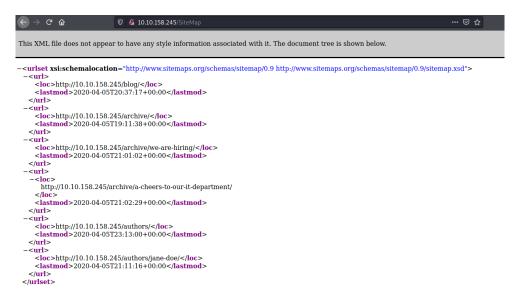
Check robots.txt every times if possible and there are 4 directories that will be blocked from crawler and seem like UmbracolsTheBest! could be the website owner's password



After checked /bin and /config, there 2 are nothing but /umbraco is login page now we need only an email



I launched gobuster and found /sitemap which will tell us every directory of this blog that we could visit



Check first post which posted by Jane Doe, we will get their email pattern here JD from Jane Doe and followed with @anthem.com

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

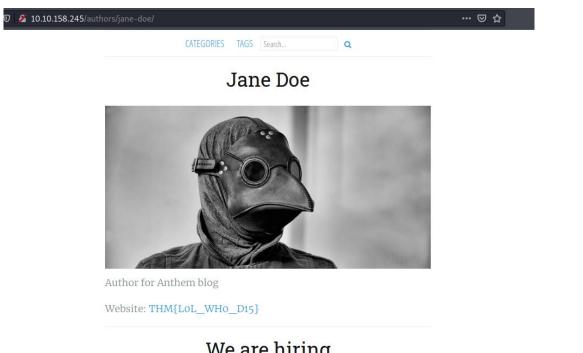


Inspect web page and there is a flag hidden in source code

```
→ C û
                                                view-source:http://10.10.158.245/archive/we-are-hiring/
    <!DOCTYPE html>
    <html>
    <head>
          <meta http-equiv="Content-Type" content="text/html" charset="UTF-8" />
          <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
   <title>We are hiring - Anthem.com</title>
    <meta name="description" content="Hi fellow readers,We are currently hiring. We are looking for young talented to join a good ca
    <meta name="twitter:card" value="summary">

    <meta content="We are hiring" property="og:title" />
    <meta content="article" property="og:type" />
    <meta content="article" property="og:type" />
    <meta content="http://10.10.158.245/archive/we-are-hiring/" property="og:url" />
    <meta content="THM{LOL_WHO_US3S_M3T4}" property="og:description" />
```

Let's see his/her profile and we also got a flag here!



We are hiring

MONDAY, JANUARY 20, 2020

Hi fellow readers, We are currently hiring. We are looking for young

Now let's go to the other post, this post is about the employer wrote something about his admin and we can do a little more osint base on this poem

A cheers to our IT department

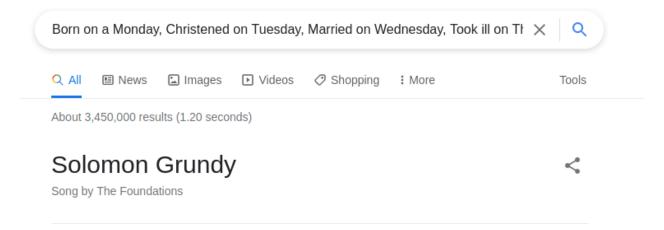
TUESDAY, DECEMBER 31, 2019

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...

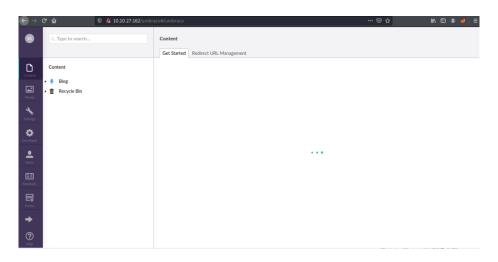
And there is it! Solomon Grundy could be his admin, so his email would be SG@anthem.com



But we also need 1 flag left so inspect this post too we will get our last recon flag

```
| clibCCTYPE html>
| chtml> | chtml> | chtml> | chtml> | chtml- |
```

Now back to /umbraco and try to login with that credentials and its legit!



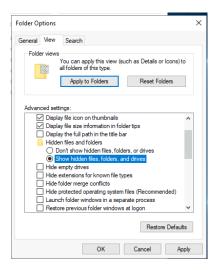
Now it's time to connect to his machine via RDP

```
(kali@ kali)-[~/Tryhackme]
$ xfreerdp /u:SG /p:UmbracoIsTheBest! /cert:ignore /v:10.10.138.101
```

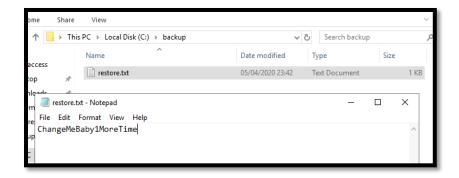
Once we connected we will get our user flag on Desktop



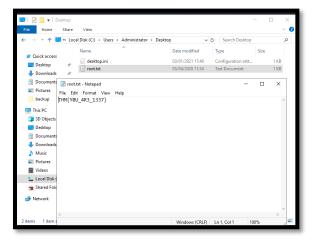
We don't have much to do here since I have no idea how to transfer file to this machine so I checked hint and it said that admin credential is hidden so I went to explorer and set up to show everything



I found out that backup directory have a text file which could be administrator password



Now we can go to Administrator directory directly and read root flag



Or you can use Administrator PowerShell and loot this flag

All answers and flags

Website Analysis

Let's run nmap and check what ports are open.

No answer needed

What port is for the web server?

80

Correct Answer

What port is for remote desktop service?

3389

Correct Answer

What is a possible password in one of the pages web crawlers check for?

UmbracolsTheBest!

Correct Answer

What is the website using?

Umbraco

Correct Answer

What is the domain of the website?

anthem.com

Correct Answer

What's the name of the Administrator

Solomon Grundy

Correct Answer

P Hint

Can we find find the email address of the administrator?

SG@anthem.com

Correct Answer

Spot the flags

What is flag 1?

THM{L0L_WH0_US3S_M3T4}	Correct Answer	
What is flag 2?		
THM{G!T_G00D}	Correct Answer	© Hint
What is flag 3?		
THM{L0L_WH0_D15}	Correct Answer	© Hint
What is flag 4?		
THM{ANOTH3R_M3TA}	Correct Answer	© Hint

Final stage

Let's figure out the username and password to log in to the box.(The box is not on a domain)

No answer needed	Question Done	
Gain initial access to the machine, what is the contents of user.txt?		
THM{N00T_N00T}	Correct Answer	
Can we spot the admin password?		
ChangeMeBaby1MoreTime	Correct Answer	
Escalate your privileges to root, what is the contents of root.txt?		
THM{Y0U_4R3_1337}	Correct Answer	