

# Anthem – TryHackMe

This challenge includes multiple flags and questions. I'll answer them as I go through the write-up.

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## 1.Reconnaissance

We start by checking if the host is alive.

```
[root@parrot]-[/home/user]
#ping 10.10.14.105
PING 10.10.14.105 (10.10.14.105) 56(84) bytes of data.
^C
--- 10.10.14.105 ping statistics ---
8 packets transmitted, 0 received, 100% packet loss, time 7086ms
```

There's no ICMP response – ping appears to be blocked.

So we run **Nmap** to check for open ports despite this.

```
[root@parrot]-[/home/user]
#nmap -Pn 10.10.14.105
Starting Nmap 7.94SVN ( https://nmap.org )
Nmap scan report for 10.10.14.105
Host is up (0.046s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
3389/tcp  open  ms-wbt-server

Nmap done: 1 IP address (1 host up) scanned in 5.49 seconds
```

**Question** - What port is for the web server? **80**.

**Question** - What port is for remote desktop service? **3389**.

## 2.Website

Let's check what's on the web server.

Browser window showing the Anthem.com blog. The browser tab is "Anthem.com - Welcome to o x". The address bar shows "http://10.10.14.105/". The browser's bookmark bar includes "Import bookmarks...", "Parrot OS", "Hack The Box", "OSINT Services", "Vuln DB", "Privacy and Security", and "Learning Resources".

The blog page features a circular profile picture of a blue bunny. The title "Anthem.com" is displayed in a large, bold, serif font. Below the title, it says "WELCOME TO OUR BLOG". There is a search bar with "Search..." and a magnifying glass icon. The categories "CATEGORIES" and "TAGS" are listed. The main heading is "We are hiring", dated "MONDAY, JANUARY 20, 2020". The text reads: "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...". A link "READ THIS ARTICLE" with a blue arrow icon is provided. Below this, the heading "A cheers to our IT department" is shown, dated "TUESDAY, DECEMBER 31, 2019".

In **robots.txt**, we find an interesting entry:

Browser window showing the robots.txt file. The browser tab is "10.10.14.105/robots.txt". The address bar shows "http://10.10.14.105/robots.txt". The browser's bookmark bar includes "Import bookmarks...", "Parrot OS", "Hack The Box", "OSINT Services", "Vuln DB", and "P".

```
UmbracoIsTheBest!
```

```
# Use for all search robots
User-agent: *
```

```
# Define the directories not to crawl
Disallow: /bin/
Disallow: /config/
Disallow: /umbraco/
Disallow: /umbraco_client/
```

**Question** - What is a possible password in one of the pages web crawlers check for?  
**UmbracoIsTheBest!**

I determined the CMS is Umbraco based on the context of this password.

# 2025 CMS Critic Awards: Umbraco's Unstoppable Rise

The CMS Critic Awards have wrapped up for another year, with thousands of votes cast across multiple categories.

This year's awards were particularly significant for **Umbraco**, which emerged as one of the biggest winners. Known for its flexibility, scalability, and user-friendly interface, Umbraco has solidified itself as a go-to CMS for businesses, developers, and digital agencies alike.

**Question** - What CMS is the website using? **Umbraco**.

At the bottom of the webpage, we find a domain reference:

WELCOME TO OUR BLOG

© 2025 [ANTHEM.COM](#). ALL RIGHTS RESERVED.

**Question** - What is the domain of the website? **Anthem.com**

I also found a nursery rhyme on the site, attributed to **Solomon Grundy**.



Born on a Monday, Christened on Tuesday, Married on Wednesday, Took ill on 1

Q All

Images Videos News More ▾

Assist

Duck.ai



Always protected ▾



Poland ▾

Safe search: moderate ▾

Any time ▾

## Solomon Grundy

Nursery rhyme

"Solomon Grundy" is an English nursery rhyme. It has a Roud Folk Song Index number of 19299. [Wikipedia](#)



Was this helpful? 👍 🗨

**Question** - What's the name of the Administrator? **Solomon Grundy**.

Another person is mentioned on the site – **Jane Doe**. Her email likely follows the pattern of initials.

# 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](mailto:JD@anthem.com)

SHARE THIS POST



AUTHOR

**Jane Doe**

Author for Anthem blog

**Question** - Can we find the email address of the administrator? [SG@anthem.com](mailto:SG@anthem.com)  
Following the naming convention (first name + last initial), we deduce the admin's email.

## 3. Website Flags

Now we need to locate **four flags** hidden in the site:

**Flag 2** – Found in the source code of the "we-are-hiring" page.

```
view-source:http://10.10.14.105/archive/we-are-hiring/

43 Welcome to our blog
44 </h2>
45 <nav class="menu" role="nav">
46 <ul>
47 <li><a href="/categories">Categories</a></li>
48 <li><a href="/tags">Tags</a></li>
49 <li>
50 <div class="articulate-search">
51 <form method="get" action="/search">
52 <input type="text" name="term" placeholder="Search..." THM{GIT_G00D}" />
53 <button type="submit" class="fa fa-search fa"></button>
54 </form>
55 </div>
56 </li>
57 </ul>
58 </nav>
```

**Flag 4** – Found in the source code of another subpage.



```
← → 🏠 ↺ 🔒 view-source:http://10.10.14.105/archive/a-cheers-to-our
🔖 Import bookmarks... 📁 Parrot OS 📁 Hack The Box 📁 OSINT Services 📁 Vuln

1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta http-equiv="Content-Type" content="text/html" charset="UTF-8" />
5   <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
6
7   <title>A cheers to our IT department - Anthem.com</title>
8   <meta name="description" content="During our hard times our beloved ad
9   <meta name="twitter:card" value="summary">
10  <meta content="A cheers to our IT department" property="og:title" />
11  <meta content="article" property="og:type" />
12  <meta content="http://10.14.105/archive/a-cheers-to-our-it-department/"
13  <meta content="THM{AN0TH3R_M3TA}" property="og:description" />
```

**Flag 3** – Found in the "Jane Doe" information section.

# Anthem.com

WELCOME TO OUR BLOG

CATEGORIES

TAGS

Search...



## Jane Doe



Author for Anthem blog

Website: [THM{LOL\\_WHO\\_D15}](#)

**Flag 1** – Also in the source of the "we-are-hiring" page.

```
← → 🏠 ↻ 🔒 view-source:http://10.10.14.105/archive/we-are-hiring/
🔗 Import bookmarks... 📁 Parrot OS 📁 Hack The Box 📁 OSINT Services 📁 Vuln DB

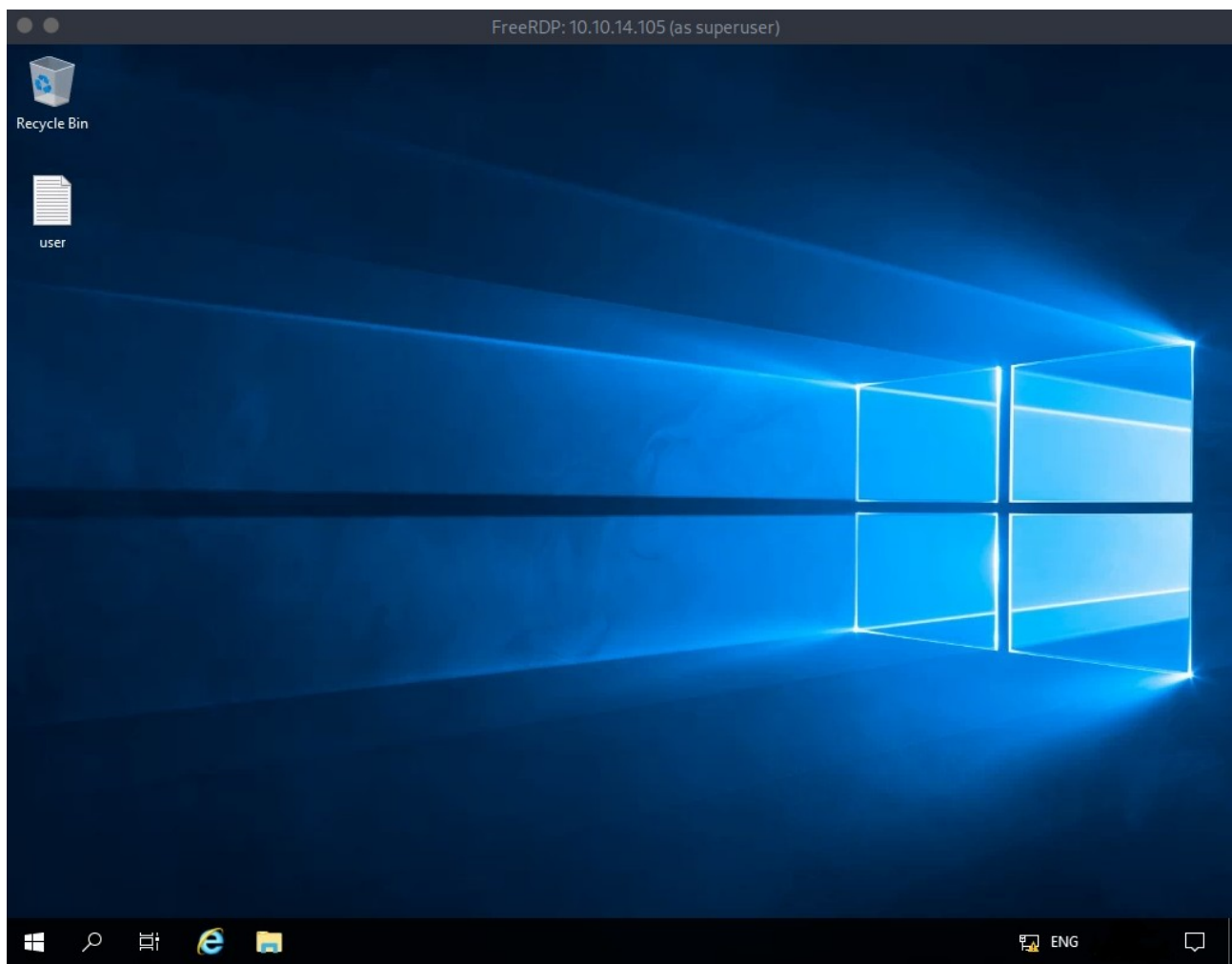
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <meta http-equiv="Content-Type" content="text/html" charset="UTF-8" />
5   <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" />
6
7   <title>We are hiring - Anthem.com</title>
8   <meta name="description" content="Hi fellow readers,We are currently hiri
9   <meta name="twitter:card" value="summary">
10  <meta content="We are hiring" property="og:title" />
11  <meta content="article" property="og:type" />
12  <meta content="http://10.10.14.105/archive/we-are-hiring/" property="og:url"
13  <meta content="THM{L0L_WH0_US3S_M3T4}" property="og:description" />
14
```

## 4.RDP Access

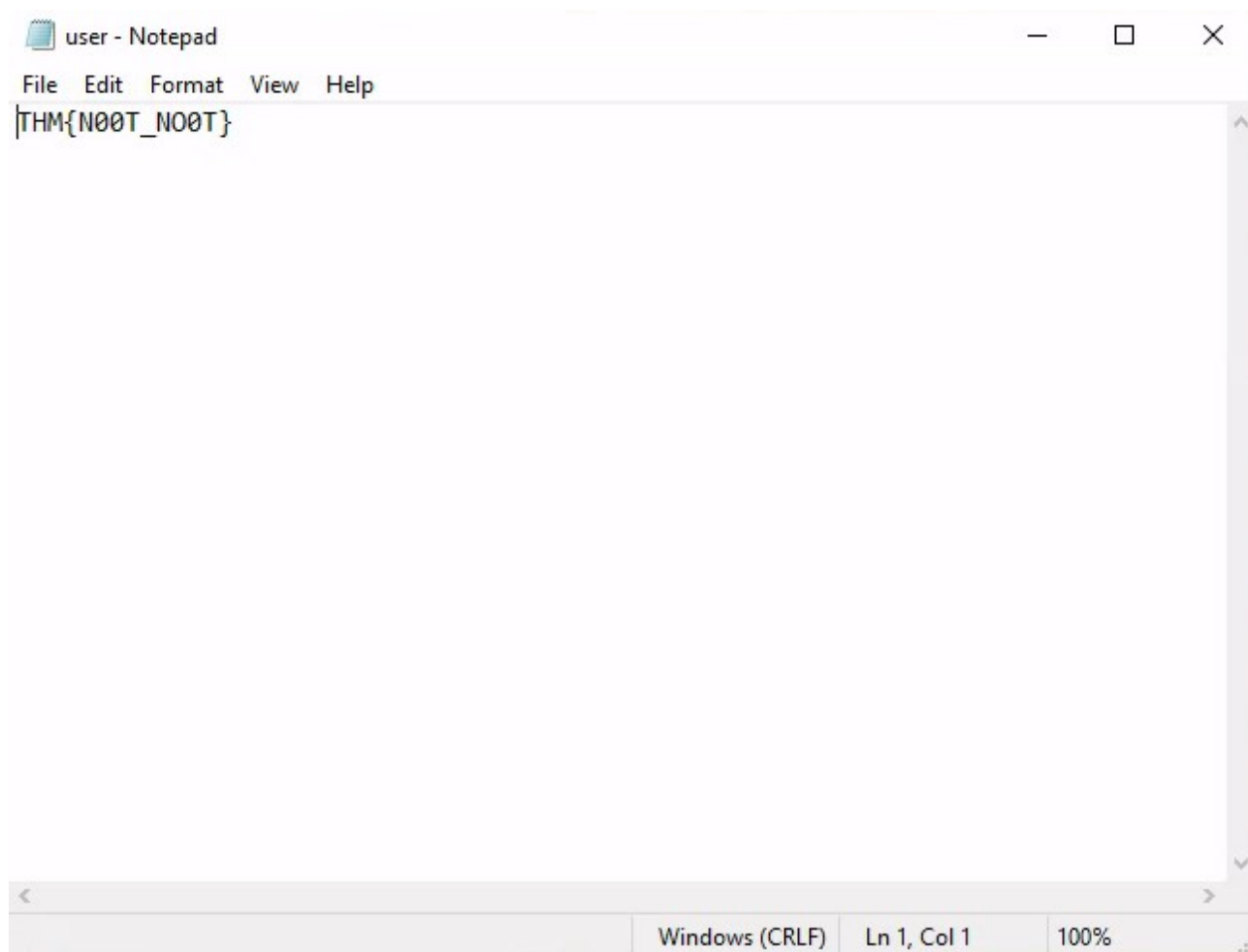
Using the acquired data, we connect via **RDP**.

```
[root@parrot]-[/home/user]
#xfreerdp /u:sg /p:UmbracoIsTheBest! /v:10.10.14.105 /cert:ignore
[16:54:57:060] [6239:6240] [INFO][com.freerdp.crypto] - creating directory /root/.config/freerdp
[16:54:57:060] [6239:6240] [INFO][com.freerdp.crypto] - creating directory [/root/.config/freerdp/certs]
[16:54:57:060] [6239:6240] [INFO][com.freerdp.crypto] - created directory [/root/.config/freerdp/server]
[16:55:01:732] [6239:6240] [INFO][com.freerdp.gdi] - Local framebuffer format PIXEL_FORMAT_BGRX32
[16:55:01:732] [6239:6240] [INFO][com.freerdp.gdi] - Remote framebuffer format PIXEL_FORMAT_BGRA32
[16:55:01:766] [6239:6240] [INFO][com.freerdp.channels.rdpnd.client] - [static] Loaded fake backend for rdpnd
```

It works – credentials are valid.



On the desktop, we immediately find the **user flag**.



Next, we need the **admin password**.

I started by checking the registry using PowerShell and the Winlogon key – but no success there.



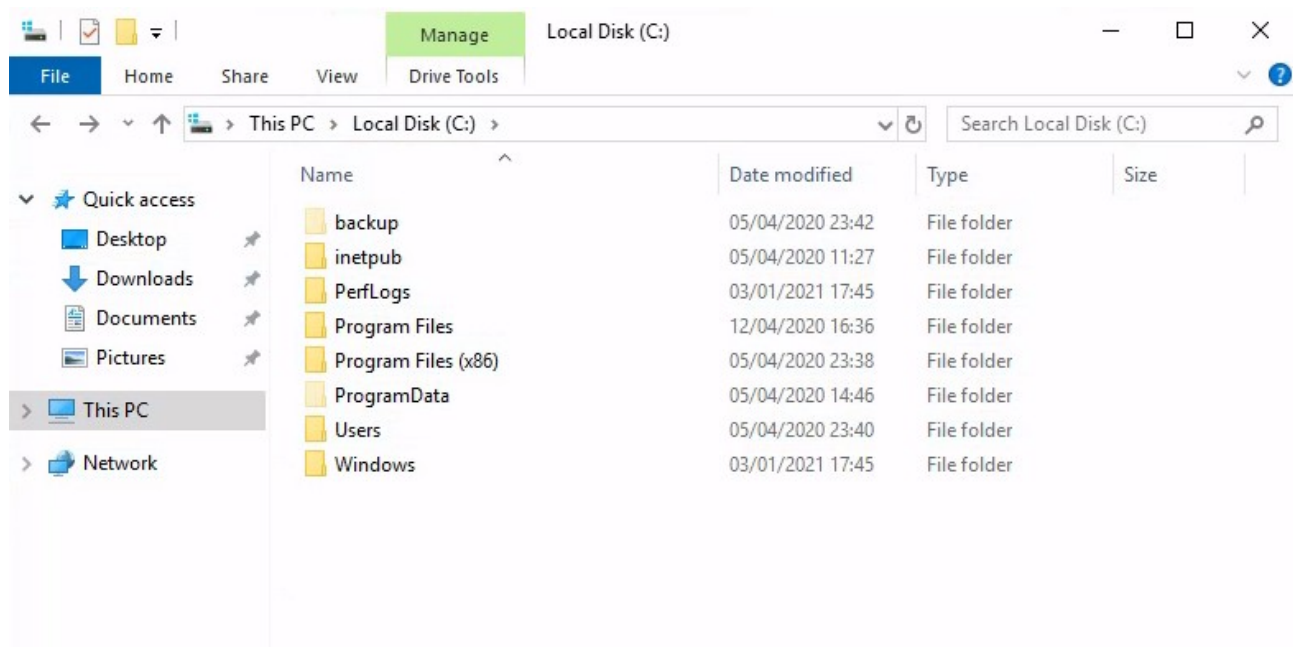
```

PS C:\Users\SG> reg query "HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon"

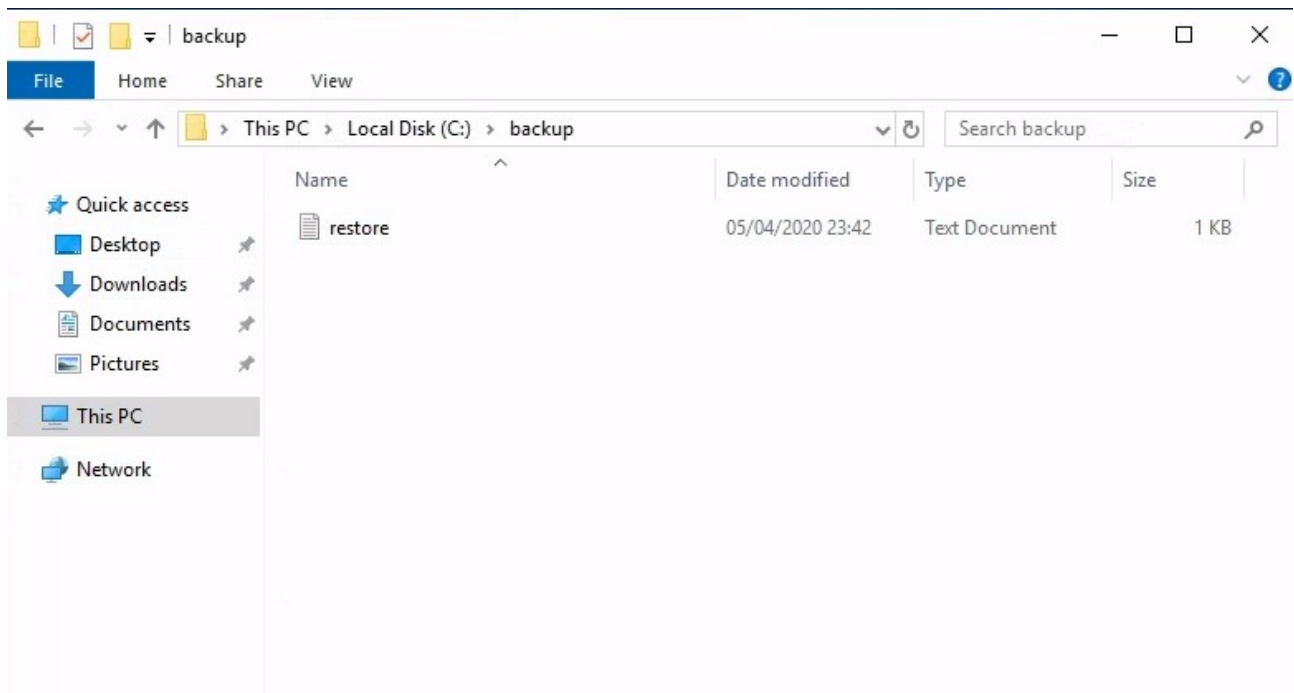
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon
    AutoRestartShell      REG_DWORD    0x1
    Background            REG_SZ       0 0 0
    CachedLogonsCount     REG_SZ       10
    DebugServerCommand    REG_SZ       no
    DefaultDomainName     REG_SZ
    DefaultUserName       REG_SZ
    DisableBackButton     REG_DWORD    0x1
    EnableSIHostIntegration REG_DWORD    0x1
    ForceUnlockLogon      REG_DWORD    0x0
    LegalNoticeCaption     REG_SZ
    LegalNoticeText       REG_SZ
    PasswordExpiryWarning REG_DWORD    0x5
    PowerdownAfterShutdown REG_SZ       0
    PreCreateKnownFolders REG_SZ       {A520A1A4-1780-4FF6-BD18-167343C5AF16}
    ReportBootOk          REG_SZ       1
    Shell                 REG_SZ       explorer.exe
    ShellCritical          REG_DWORD    0x0
    ShellInfrastructure    REG_SZ       sihost.exe
    SiHostCritical         REG_DWORD    0x0
    SiHostReadyTimeOut    REG_DWORD    0x0
    SiHostRestartCountLimit REG_DWORD    0x0
    SiHostRestartTimeGap  REG_DWORD    0x0
    Userinit              REG_SZ       C:\Windows\system32\userinit.exe,
    VMApplet              REG_SZ       SystemPropertiesPerformance.exe /pagefile
    WinStationsDisabled   REG_SZ       0
    scremoveoption        REG_SZ       0
    DisableCAD            REG_DWORD    0x1
    LastLogOffEndTimePerfCounter REG_QWORD    0x18c1d91c3
    ShutdownFlags         REG_DWORD    0x8000022b

```

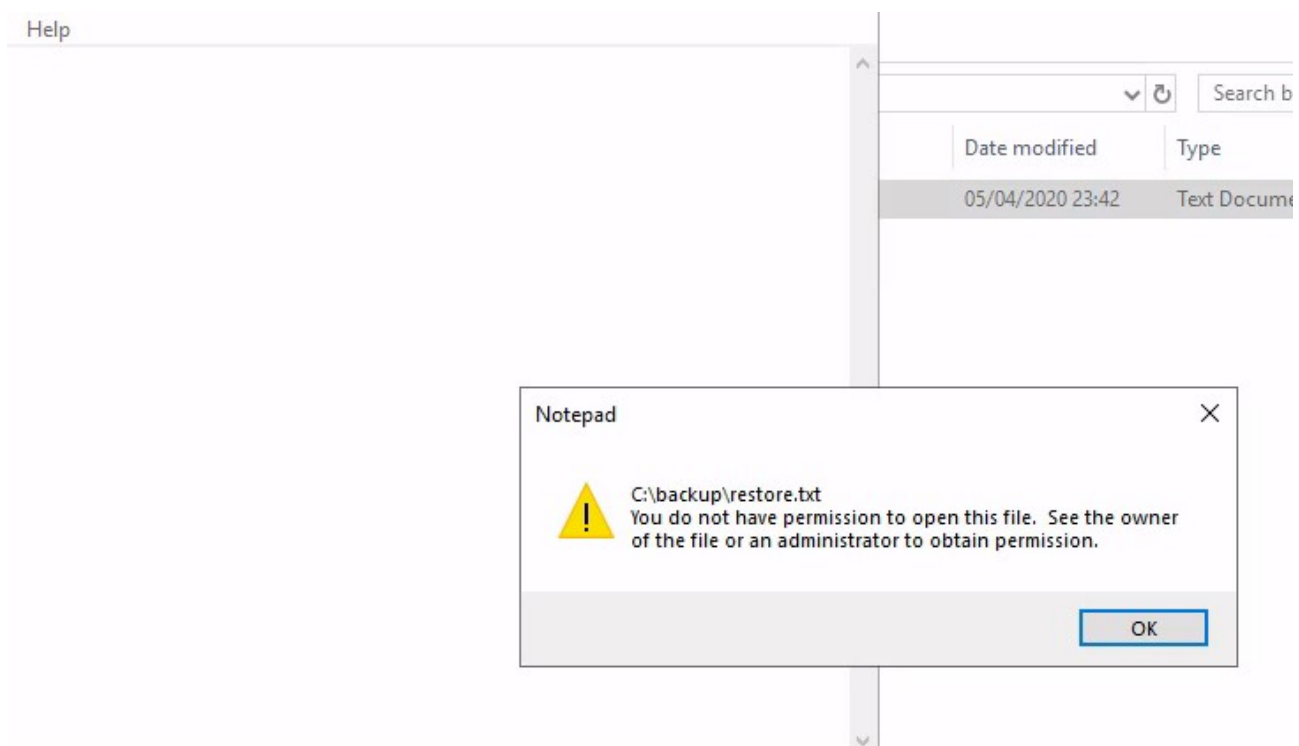
After enabling hidden files in File Explorer, I noticed a **backup** folder on drive \*C:\*



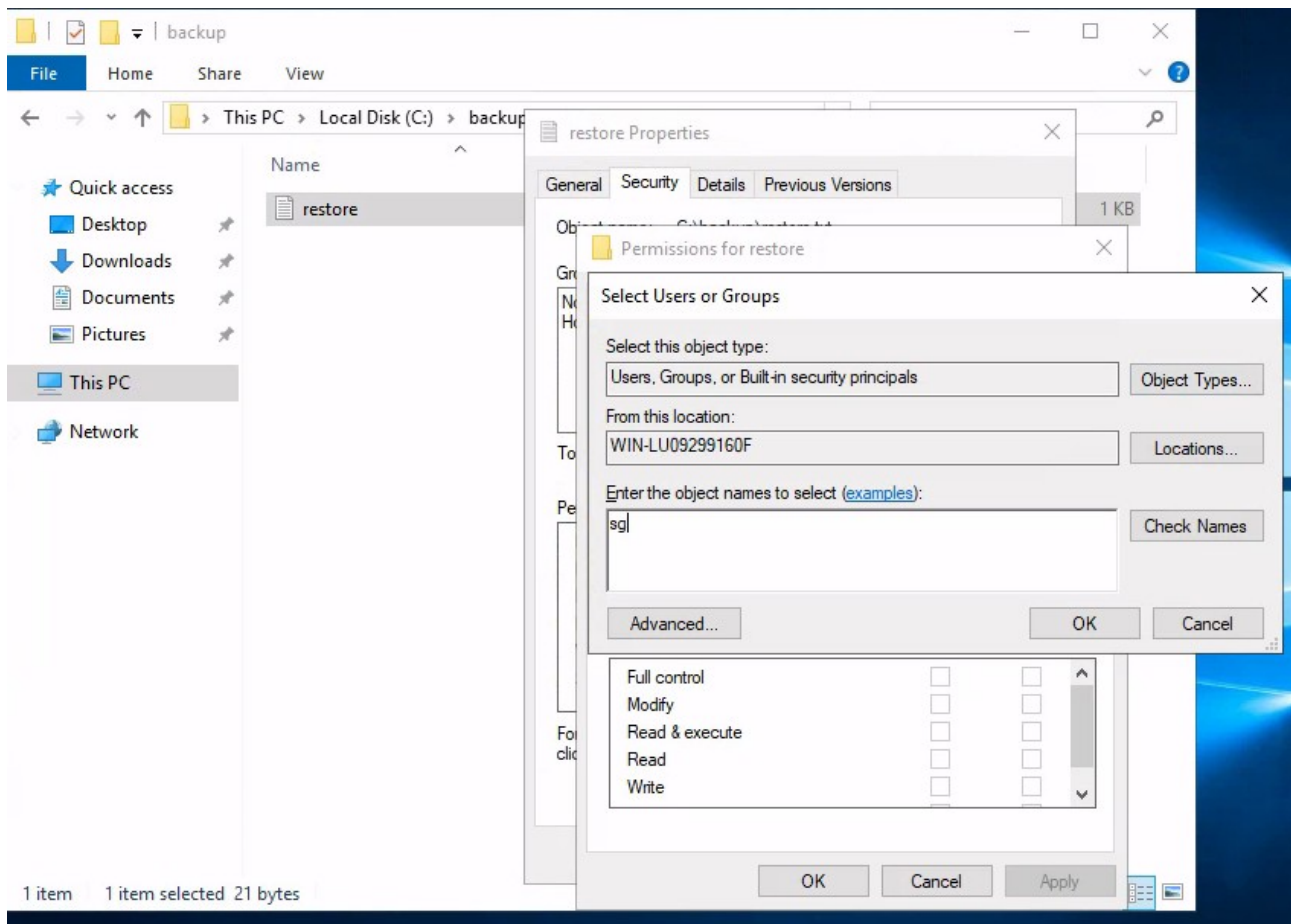
Inside, there was a file – **restore.txt**.



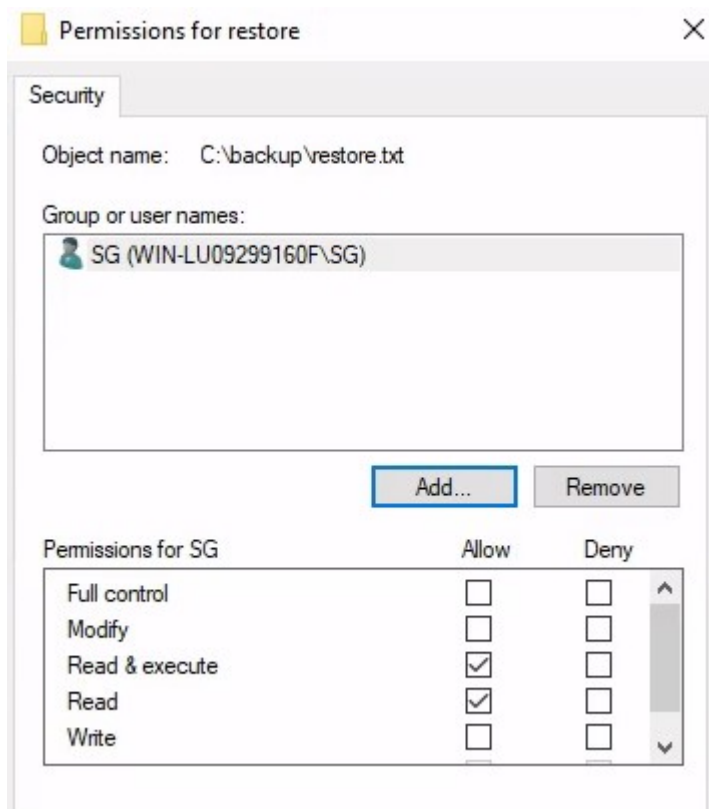
Trying to open it results in a **permission error**.

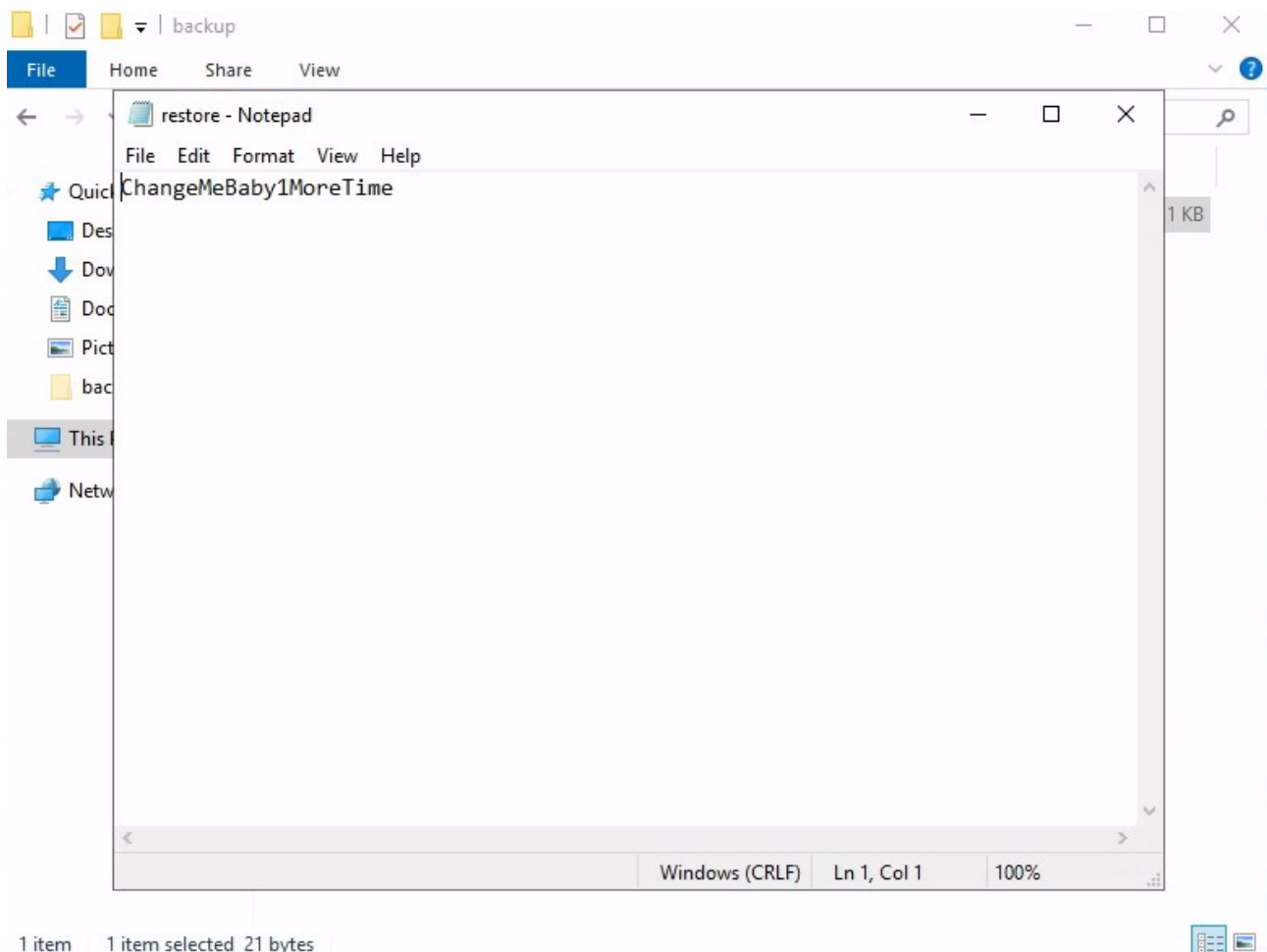


In the file's properties, I gave myself permission as user **SG**.

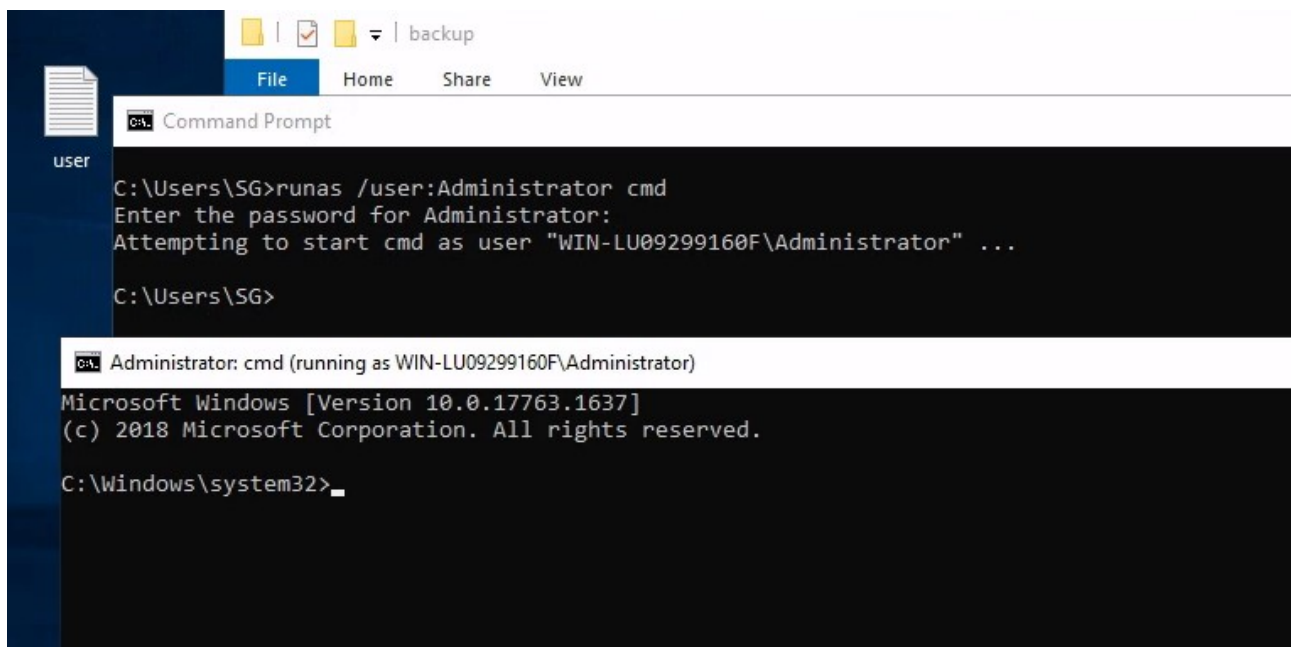


Now we can open the file – it contains the **admin password**.





We launch a console as **administrator**.



I explore the admin's folders – on the desktop, there's **root.txt**.



```
C:\Windows\system32>dir C:\Users\Administrator
Volume in drive C has no label.
Volume Serial Number is 1225-5238

Directory of C:\Users\Administrator

05/04/2020  17:34    <DIR>          .
05/04/2020  17:34    <DIR>          ..
05/04/2020  17:34    <DIR>          .vscode
03/01/2021  18:49    <DIR>          3D Objects
03/01/2021  18:49    <DIR>          Contacts
03/01/2021  18:49    <DIR>          Desktop
03/01/2021  18:49    <DIR>          Documents
03/01/2021  18:49    <DIR>          Downloads
03/01/2021  18:49    <DIR>          Favorites
03/01/2021  18:49    <DIR>          Links
03/01/2021  18:49    <DIR>          Music
03/01/2021  18:49    <DIR>          Pictures
03/01/2021  18:49    <DIR>          Saved Games
03/01/2021  18:49    <DIR>          Searches
03/01/2021  18:49    <DIR>          Videos
               0 File(s)                0 bytes
              15 Dir(s)  42,414,395,392 bytes free
```

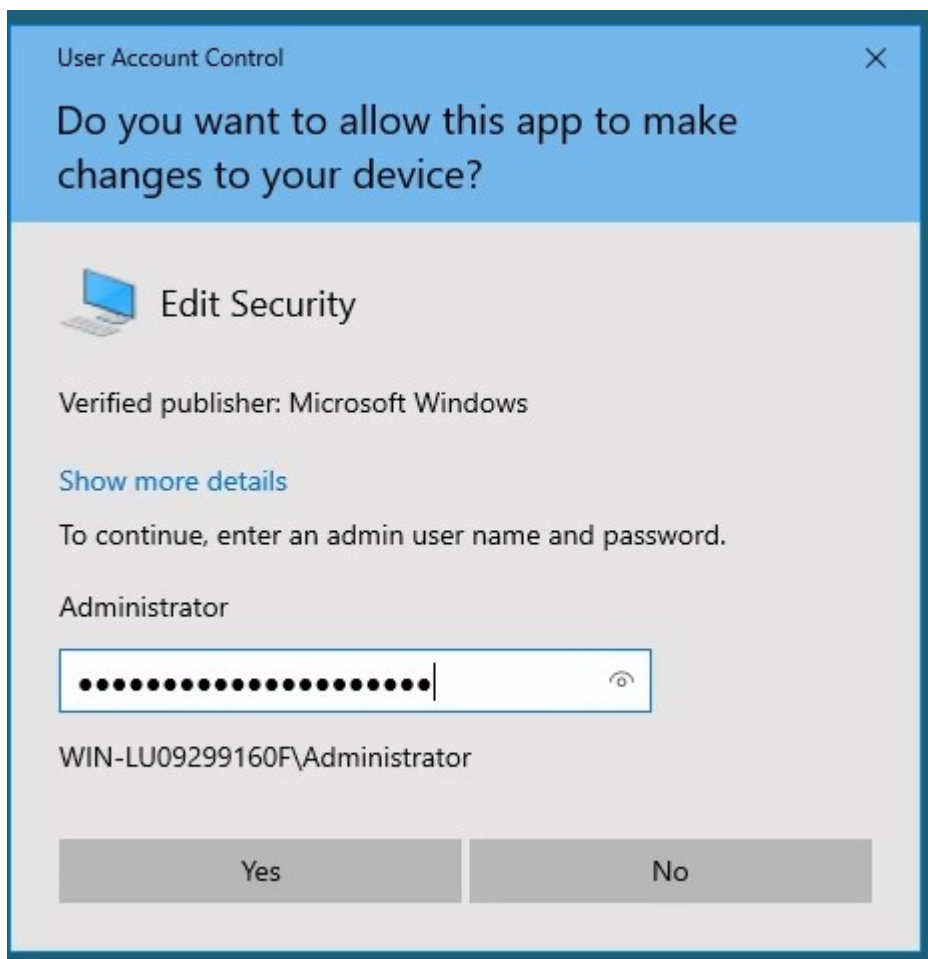
Na pulpicie, jest plik root.txt

```
C:\Windows\system32>dir C:\Users\Administrator\Desktop
Volume in drive C has no label.
Volume Serial Number is 1225-5238

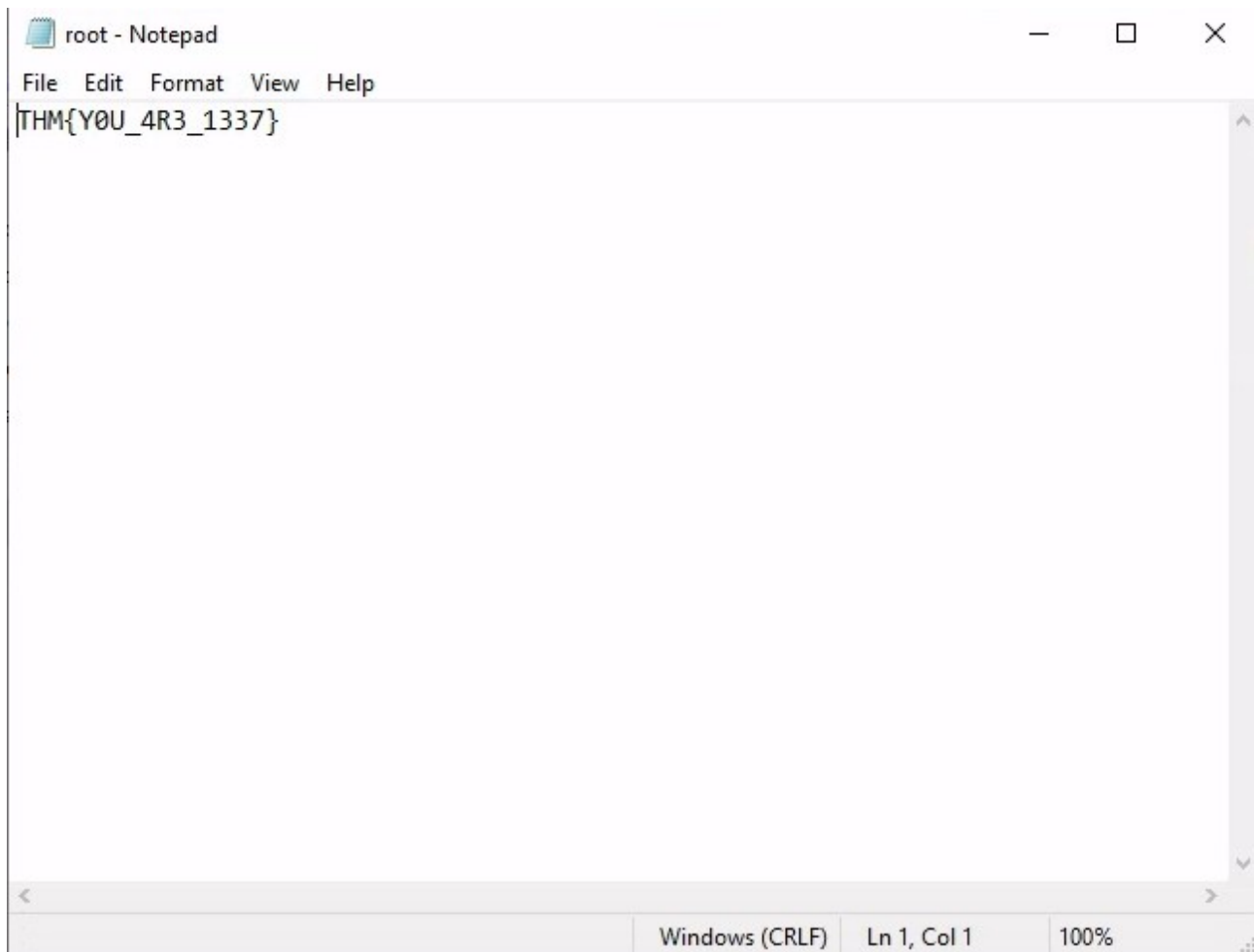
Directory of C:\Users\Administrator\Desktop

03/01/2021  18:49    <DIR>          .
03/01/2021  18:49    <DIR>          ..
05/04/2020  11:54                17 root.txt
               1 File(s)                17 bytes
               2 Dir(s)  42,407,280,640 bytes free
```

I opened it via the file explorer and entered the admin password.



And that gives us the **root flag**.



## 5.Summary

This was a CTF focused on **web enumeration and file discovery**.

The hardest part was finding the hidden backup folder on the C: drive.

A solid and enjoyable challenge for practicing **basic privilege escalation** in Windows.