## Intelligence

Difficulty: Medium OS: Windows

## Nmap

Starting off with our aggressive nmap scan, we see ports 53, 80, 88, 135, 139, 389, 445, 464, 593, 636, 3268, and 3269 are open. A lot of these have to do with ldap so we assume that is the place to search, but first a little enumeration.

```
[~/htb/intelligence
nmap -A 10.10.10.248 | tee <u>nmap.txt</u>
Starting Nmap 7.91 ( https://nmap.org ) at 2021-07-16 15:33 EDT
Nmap scan report for 10.10.10.248
Host is up (0.082s latency).
Not shown: 988 filtered ports
PORT STATE SERVICE
PORT STATE SERVICE
53/tcp open domain
80/tcp open http
                                                  Simple DNS Plus
                                                  Microsoft IIS httpd 10.0
  http-methods:
  Potentially risky methods: TRACE
_http-server-header: Microsoft-IIS/10.0
_http-title: Intelligence
|_ntc-title: Intettigence
88/tcp open kerberos-sec Microsoft Windows Kerberos (server time: 2021-07-17 02:39:23Z)
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
389/tcp open ldap Microsoft Windows Active Directory LDAP (Domain: intelligence.htb0., Site: Default-First-Site-Name)
  ssl-cert: Subject: commonName-dc.intelligence.htb
Subject Alternative Name: othername:cunsupported>, DNS:dc.intelligence.htb
Not valid before: 2021-04-19700:43:16
_Not valid after: 2022-04-19700:43:16
_ssl-date: 2021-07-17702:40:49+00:00; +7h05m22s from scanner time.
445/tcp open microsoft-ds?
464/tcp open kpasswd5?
593/tcp open ncacn_http
636/tcp open ssl/ldap
                                               Microsoft Windows RPC over HTTP 1.0
Microsoft Windows Active Directory LDAP (Domain: intelligence.htb0., Site: Default-First-Site-Name)
   ssl-cert: Subject: commonName=dc.intelligence.htb
   Subject Alternative Name: othername:<unsupported>, DNS:dc.intelligence.htb
  3268/tcp open ldap Microsoft Windows Activ
| ssl-cert: Subject: commonName=dc.intelligence.htb
   Subject Alternative Name: othername:<unsupported>, DNS:dc.intelligence.htb
Not valid before: 2021-04-19700:43:16

Not valid after: 2022-04-19700:43:16

_ssl-date: 2021-07-17T02:40:49+00:00; +7h05m22s from scanner time.

3269/tcp open ssl/ldap Microsoft Windows Active Directory LDAP (Domain: intelligence.htb0., Site: Default-First-Site-Name)

ssl-cert: Subject: commonName=dc.intelligence.htb

Subject Alternative Name: othername: dispense.htb

Not valid before: 2021-07-10-4-107700-42:16
  Not valid before: 2021-04-19T00:43:16
_Not valid after: 2022-04-19T00:43:16
_ssl-date: 2021-07-17T02:40:48+00:00; +7h05m22s from scanner time.
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port OS fingerprint not ideal because: Missing a closed TCP port so results incomplete
No OS matches for host
Network Distance: 2 hops
Service Info: Host: DC; OS: Windows; CPE: cpe:/o:microsoft:windows
```

## Enumeration

Looking around smb and rpc, we find nothing of use.

Performing a fuzz scan brings back only one web directory, "documents". Attempting to go to this directory on the web server results in a 403 error.

Going over to ldap, we begin by gathering some basic information about the service. First, we pull out python3 to execute some commands to connect to ldap. Attempts to use ldapsearch show connection errors, so we use custom python commands.

```
| Python3 | Pyth
```

With our python commands, we have successfully made a connection to the ldap service. Now we can query for some basic information.

```
Naming contexts:
    DC=intelligence,DC=htb
    CN=Configuration,DC=intelligence,DC=htb
    CN=Schema,CN=Configuration,DC=intelligence,DC=htb
    DC=DomainDnsZones,DC=intelligence,DC=htb
    DC=ForestDnsZones,DC=intelligence,DC=htb

    server.info
```

We could have also acquired this information through nmap's "ldap-rootdse.nse" script

Going around ldap seems to do nothing. Stepping back, we go look at the website again and see there are some fairly useless documents there. However, these documents are named in a specific way. They begin with the year, month, and day, then end with "-upload.pdf". If we can construct our own wordlist and fuzz for pdfs, we may find something interesting.

First, we create a bash script to generate all the days in the year 2020. When we execute this, we redirect it to a file called "dates.txt". After we have this file, we concatenate "-upload.pdf" to every line to complete the wordlist.

Performing another fuzz scan, but this time in "/documents", we acquire a number of pdfs.

Before we go and painstakingly attempt to look at each of these files, we are also going to generate a list for 2021 and 2019. Doing so and running a fuzz scan also shows a few more documents

```
2021-01-14-upload.pdf
                        [Status: 200, Size: 10800, Words: 170, Lines: 137]
2021-01-30-upload.pdf
                        [Status: 200, Size: 24979, Words: 227, Lines: 194]
                        [Status: 200, Size: 26843, Words: 233, Lines: 206]
2021-01-03-upload.pdf
                        [Status: 200, Size: 26034, Words: 230, Lines: 205]
2021-02-10-upload.pdf
                        [Status: 200, Size: 10870, Words: 175, Lines: 135]
2021-03-01-upload.pdf
2021-01-25-upload.pdf
                        [Status: 200, Size: 26593, Words: 237, Lines: 215]
                        [Status: 200, Size: 10378, Words: 164, Lines: 139]
2021-03-07-upload.pdf
2021-02-13-upload.pdf
                        [Status: 200, Size: 26086, Words: 232, Lines: 212]
                        [Status: 200, Size: 25111, Words: 241, Lines: 214]
2021-02-21-upload.pdf
                        [Status: 200, Size: 11724, Words: 166, Lines: 141]
2021-03-27-upload.pdf
                        [Status: 200, Size: 25730, Words: 228, Lines: 180]
2021-02-25-upload.pdf
                        [Status: 200, Size: 24222, Words: 240, Lines: 199]
2021-03-10-upload.pdf
2021-03-18-upload.pdf
                        [Status: 200, Size: 27067, Words: 220, Lines: 203]
                        [Status: 200, Size: 25846, Words: 229, Lines: 205]
2021-03-21-upload.pdf
2021-03-25-upload.pdf
                        [Status: 200, Size: 26368, Words: 231, Lines: 211]
```