

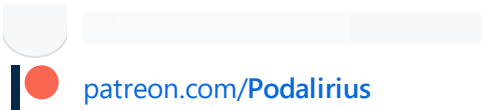
With this tool you can quickly see if your attack worked and if it changed LDAP attributes of the target object.

```
[p0dalirius@thor]# ./ldapmonitor.py -d LAB.local -u Administrator -p 'Admin123!' --dc-ip 192.168.2.1
[+]=====
[+] LDAP live monitor v1.3 @p0dalirius
[+]=====

[>] Trying to connect to 192.168.2.1 ...
[>] Listening for LDAP changes ...
[2022-01-04 08:27:02] 'CN=newuser,CN=Users,DC=LAB,DC=local' was added.
[2022-01-04 08:27:02] CN=RID Set,CN=DC01,OU=Domain Controllers,DC=LAB,DC=local
| Attribute "ridNextRID" changed from '143482' to '143483'
[2022-01-04 08:27:19] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute "physicalDeliveryOfficeName" changed from 'Woo' to 'First floor'
| Attribute "whenChanged" changed from '2022-01-04 08:26:19+00:00' to '2022-01-04 08:27:18+00:00'
| Attribute "uSNCChanged" changed from '831565' to '831574'
[2022-01-04 08:27:29] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute "description" changed from '['New Description']' to '['Changed Description']'
| Attribute "whenChanged" changed from '2022-01-04 08:27:18+00:00' to '2022-01-04 08:27:29+00:00'
| Attribute "uSNCChanged" changed from '831574' to '831575'
```

Features

Feature	Python (.py)	CSharp (.exe)	Powershell (.ps1)
LDAPS support	✓	✓	✓
Random delay in seconds between queries	✓	✓	✓
Custom delay in seconds between queries	✓	✓	✓
Save output to logfile	✓	✓	✓
Colored or not colored output with <code>--no-colors</code>	✓	✗	✗
Custom page size for paged queries	✓	✓	✓
Authenticate with user and password	✓	✓	✓

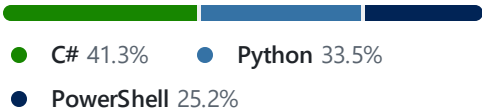


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Languages



Authenticate as current shell user	✗	✓	✓
Authenticate with LM:NT hashes	✓	✗	✗
Authenticate with kerberos tickets	✓	✗	✗
Option to ignore user logon events	✓	✓	✓
Custom search base	✓	✓	✓
Iterate over all naming contexts	✓	✓	✓

Typical use cases

Here is a few use cases where this tool can be useful:

- Detect account lockout in real time

```
[2021-10-17 10:56:58] CN=user1,CN=Users,DC=LAB,DC=local
| Attribute "whenChanged" changed from '2021-10-16 19:48:25+00:00' to '2021-10-17 10:56:58+00:00'
| Attribute "uSNChanged" changed from '789476' to '784557'
| Attribute "badPwdCount" changed from '4' to '5'
| Attribute "badPasswordTime" changed from '2021-10-17 10:56:56.038124+00:00' to '2021-10-17 10:56:58.066355+00:00'
| Attribute "lockoutTime" = '2021-10-17 10:56:58.066355+00:00' was created.
```

- Check if your privilege escalation worked (with ntlmrelay's `--escalate-user` option)
- Detect when users are login in to know when to start a network poisoning.

```
[2021-10-17 12:49:58] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute "lastLogon" changed from '2021-10-17 12:48:32.709038+00:00' to '2021-10-17 12:49:57.943645+00:00'
| Attribute "logonCount" changed from '3' to '4'
```

Cross platform !

In Python (.py)

```
[p0dalirius@thor]# ./ldapmonitor.py -d LAB.local -u Administrator -p 'Admin123!' --dc-ip 192.168.2.1
[+]=====
[+] LDAP live monitor v1.3 @p0dalirius_
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| Attribute "physicalDeliveryOfficeName" changed from 'Woo' to 'First floor'
| Attribute "whenChanged" changed from '2022-01-04 08:26:19+00:00' to '2022-01-04 08:27:18+00:00'
| Attribute "uSNCChanged" changed from '831565' to '831574'
[2022-01-04 08:27:29] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute "description" changed from '['New Description']' to '['Changed Description']'
| Attribute "whenChanged" changed from '2022-01-04 08:27:18+00:00' to '2022-01-04 08:27:29+00:00'
| Attribute "uSNCChanged" changed from '831574' to '831575'
```

In CSharp (.exe)

```
Microsoft Windows [Version 10.0.19043.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dev>ldapmonitor.exe /dcip:192.168.2.1 /user:LAB\user1 /pass:October2021!
[+]=====
[+] Sharp LDAP live monitor v1.3 @p0dalirius_
[+]=====

[+] Using the following credentials:
| Target: LDAP://192.168.2.1:389
| User: 'LAB\user1'
| Pass: 'October2021!'

[>] Listening for LDAP changes ...
[2021/10/16 07:58:18] 'CN=newuser,CN=Users,DC=LAB,DC=local' was added.
[2021/10/16 07:58:18] CN=RID Set,CN=DC01,OU=Domain Controllers,DC=LAB,DC=local
| Attribute ridnextrid changed from '143453' to '143454'
[2021/10/16 07:58:41] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute usnchanged changed from '696374' to '700486'
| Attribute whenchanged changed from '10/16/2021 5:33:57 PM' to '10/16/2021 7:58:40 PM'
| Attribute physicaldeliveryofficename changed from 'Woo' to 'First floor'
[2021/10/16 07:58:50] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute usnchanged changed from '700486' to '700487'
| Attribute whenchanged changed from '10/16/2021 7:58:40 PM' to '10/16/2021 7:58:50 PM'
| Attribute description changed from 'New Description' to 'Changed Description'
```

In Powershell (.ps1)

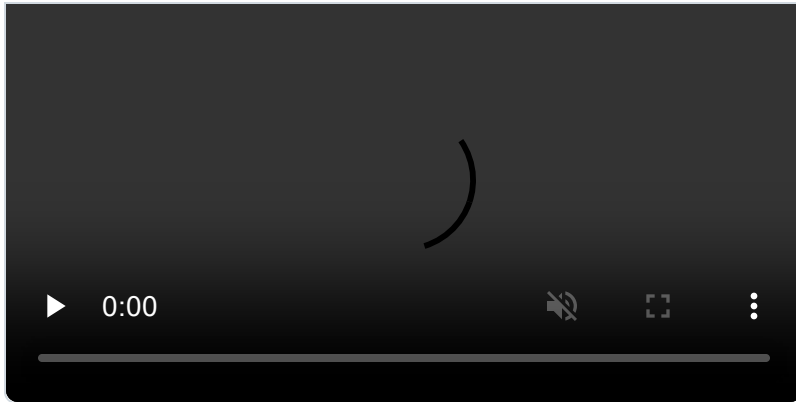
```
PS C:\Users\dev> .\ldapmonitor.ps1 -dcip 192.168.2.1 -Username "LAB\user1" -Password "October2021!"
[+]=====
[+] Powershell LDAP live monitor v1.3 @p0dalirius_
[+]=====

[>] Listening for LDAP changes ...

[2021/10/16 09:58:18] 'CN=newuser,CN=Users,DC=LAB,DC=local' was created.
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[2021/10/16 09:58:50] CN=user2,CN=Users,DC=LAB,DC=local
| Attribute description changed from 'New Description' to 'Changed Description'
| Attribute usnchanged changed from '700486' to '700487'
| Attribute whenchanged changed from '10/16/2021 7:58:40 PM' to '10/16/2021 7:58:50 PM'
```

Demonstration

📎 Ildapmonitor_demo.mp4 ▼



Limitations

LDAP paged queries returns **pageSize** results per page, and it takes approximately 1 second to query a page. Therefore your monitoring refresh rate is **(number of LDAP objects // pageSize)** seconds. On most domain controllers **pageSize = 5000**

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