

Capstone Incident Response Report (SANS Template)

Incident Title: SMB Brute-Force Attempt on Windows 10
Date: [Add your date here]
Reported by: Abhishek Tiwary
Tools Involved: CrowdSec Agent, CrowdSec Bouncer, Windows Event Viewer
Severity Level: High

1. Executive Summary

An active **SMB brute-force attack** was detected on the Windows 10 virtual machine.
The attack originated from **Attacker IP: 10.178.124.51** and was successfully identified by the **CrowdSec Agent**.
Within seconds, the system automatically contained the threat by banning the attacker’s IP using the CrowdSec Bouncer.
No system compromise occurred.

2. Timeline of Events

Time	Event Description
T0	Metasploit SMB Brute-Force initiated from Attacker VM (10.178.124.51).
T0 + 15s	Windows Agent detects multiple failed logins (Event ID 4625) and alerts the CrowdSec LAPI .
T0 + 30s	CrowdSec Server issues a BAN decision against attacker IP.
T0 + 45s	Ping test from attacker VM fails , confirming network-level containment.

3. Impact Analysis

- **Impact Level:** Low / Minimal
- No credentials were compromised.

- No lateral movement or privilege escalation observed.
 - The **CrowdSec Bouncer** effectively prevented unauthorized access attempts.
-

4. Remediation Steps

1. Containment:

- Attacker IP **10.178.124.51** was banned automatically by CrowdSec.

2. Eradication:

- **Windows Event Logs** reviewed for failed logins and confirmation of defense action.

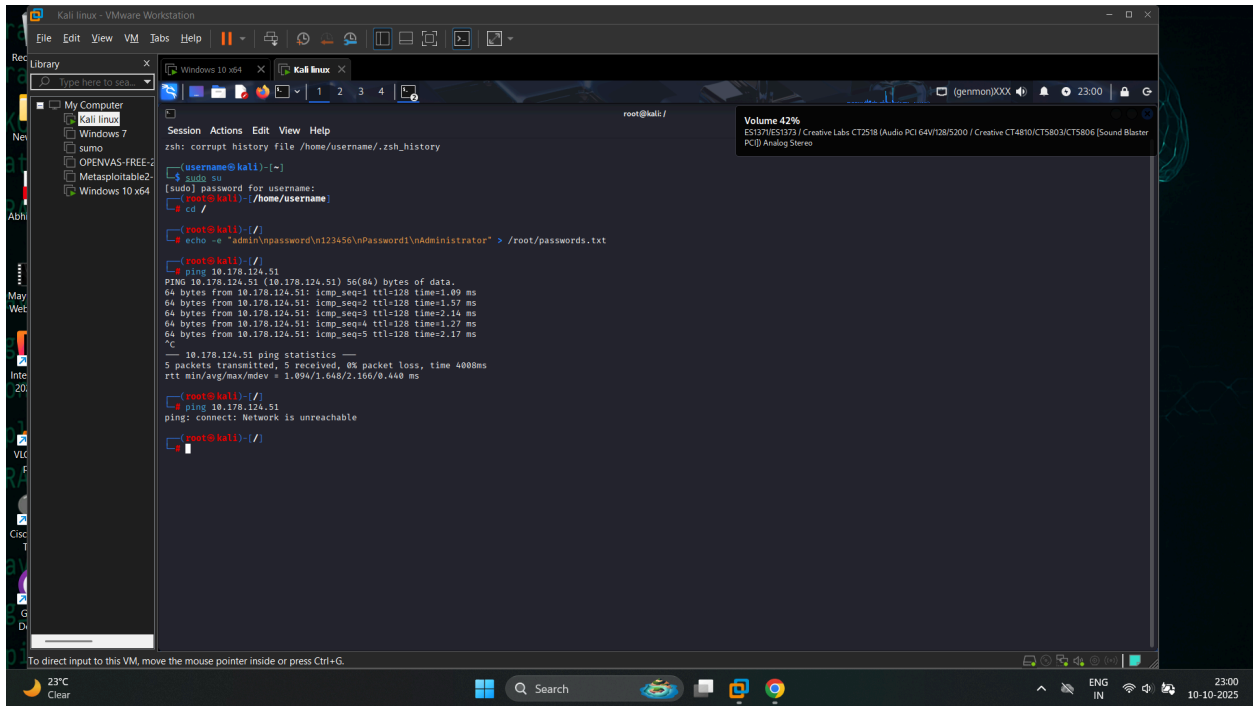
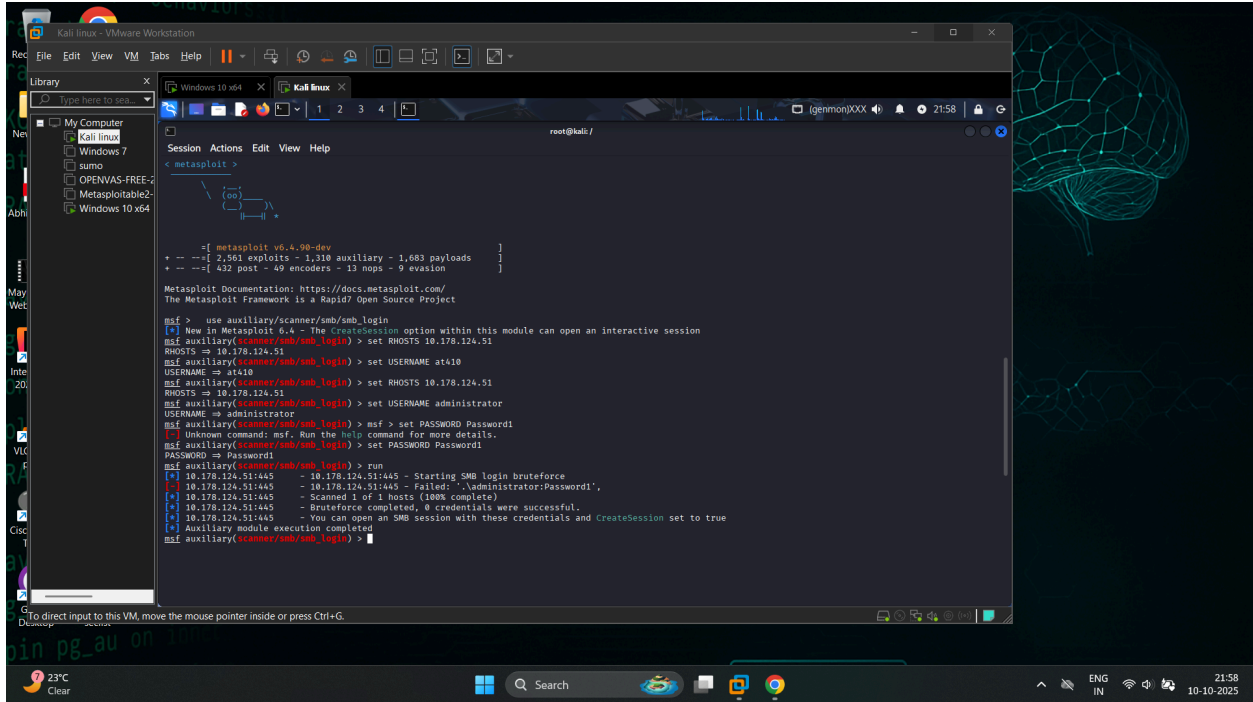
3. Recovery:

- **Account Lockout Policy** reviewed and strengthened to mitigate future brute-force attempts.
-

5. Lessons Learned

- Automated containment via **CrowdSec** proved highly effective.
 - **Velociraptor forensic acquisition** failed due to kernel incompatibility, suggesting improved VM configuration and planning are needed.
 - Future steps: automate log forwarding to **Wazuh** or **SIEM dashboard** for unified monitoring.
-

6. Supporting Evidence



```
root@kali: /
Session Actions Edit View Help
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 0

root@kali:~# sudo ufw allow 8889/tcp
Rules updated
Rules updated (v6)

root@kali:~# sudo ufw allow 8888/tcp
Rules updated
Rules updated (v6)

root@kali:~# sudo ufw enable
Firewall is active and enabled on system startup

root@kali:~# sudo ufw status
Status: active

To Action From
--
8889/tcp ALLOW Anywhere
8888/tcp ALLOW Anywhere
8889/tcp (v6) ALLOW Anywhere (v6)
8888/tcp (v6) ALLOW Anywhere (v6)

root@kali:~# sudo /usr/local/bin/velociraptor --config /etc/velociraptor/server.config.yaml frontend
^C[ERROR] 2025-10-07T11:10:50Z [ClientTask Manager] SaveSnapshot: <nil>

root@kali:~# sudo /usr/local/bin/velociraptor --config /etc/velociraptor/server.config.yaml config client > /tmp/client.config.yaml

root@kali:~# sudo scp /usr/local/bin/velociraptor msfadmin@10.178.124.21:/home/msfadmin/
zsh: no such file or directory: 10.178.124.21

root@kali:~# sudo scp /usr/local/bin/velociraptor msfadmin@10.178.124.114:/home/msfadmin/
Unable to negotiate with 10.178.124.114 port 22: no matching host key type found. Their offer: ssh-rsa,ssh-dss
scp: Connection closed

root@kali:~# sudo scp -o StrictKeyAlgorithm=ssh-rsa /usr/local/bin/velociraptor msfadmin@10.178.124.114:/home/msfadmin/
The authenticity of host '10.178.124.114 (10.178.124.114)' can't be established.
RSA key fingerprint is SHA256:8Qm5S0xK9Gc1OLuVscqPKLQ2u0P+I9d/rR8B4rk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.178.124.114' (RSA) to the list of known hosts.
msfadmin@10.178.124.114's password:
velociraptor
```

```
root@kali: /
Session Actions Edit View Help

root@kali:~# sudo cscli machines add win10-agent -f -
Error: cscli machines add: please specify a password with --password or use --auto

root@kali:~# sudo cscli machines add win10-agent --password crowdpass123 -f -
Machine 'win10-agent' successfully added to the local API.
url: http://127.0.0.1:8888
login: win10-agent
password: crowdpass123

root@kali:~# ifconfig
docker0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    inet 172.17.0.1 netmask 255.255.0.0 broadcast 172.17.255.255
    ether 02:42:0b:96:9a:72 txqueuelen 0 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 08:0d:ac:35:4d:71 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 46767 bytes 16797245 (16.0 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 46767 bytes 16797245 (16.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.178.124.21 netmask 255.255.255.0 broadcast 10.178.124.255
    inet6 2489:180d:f9:45da:a892:24b4:9cf6:85b9 prefixlen 64 scopeid 0<global>
    inet6 fe80::2acd:c4ff:fe3f:c2a7 prefixlen 64 scopeid 0<link>
    inet6 2489:180d:f9:45da:2acd:c4ff:fe3f:c2a7 prefixlen 64 scopeid 0<global>
    ether 28:cd:c4:f3:c2:a7 txqueuelen 1000 (Ethernet)
    RX packets 88851 bytes 1285431129 (1.1 GiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 34434 bytes 42532579 (40.3 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@kali:~# sudo cscli machines list
```

Name	IP Address	Last Update	Status	Version	OS	Auth Type	Last Heartbeat
efadadea201d4650ab0826744af863019rhk57fwpP3nyfn?	127.0.0.1	2025-10-10T14:14:03Z	✓	v1.7.0-debian-pragmatic-and64-c3036e21-linux	Kali GNU/Linux/2025.3	password	34s
win10-agent		2025-10-10T14:01:19Z	✓		?	password	-

```
root@kali:~#
```

```

root@kali:~#
Session Actions Edit View Help
64 bytes from 10.178.124.51: icmp_seq=2 ttl=128 time=45.3 ms
64 bytes from 10.178.124.51: icmp_seq=3 ttl=128 time=200 ms
64 bytes from 10.178.124.51: icmp_seq=4 ttl=128 time=98.0 ms
C
--- 10.178.124.51 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 400ms
rtt min/avg/max/mdev = 45.305/113.621/207.791/58.826 ms

root@kali:~/f/#
-sudo curl -X GET https://raw.githubusercontent.com/crowdsecurity/cs-windows-firewall-bouncer/releases/download/v0.0.4/cs_windows_firewall_bouncer_setup.msi
No active decisions

root@kali:~/f/#
-sudo curl -X GET https://raw.githubusercontent.com/crowdsecurity/cs-windows-firewall-bouncer/releases/download/v0.0.4/cs_windows_firewall_bouncer_setup.msi
No active decisions

root@kali:~/f/#
cd
root@kali:~/f/#
cd /tmp
root@kali:~/f/#/tmp#
-s wget https://github.com/crowdsecurity/cs-windows-firewall-bouncer/releases/download/v0.0.4/cs_windows_firewall_bouncer_setup.msi
2025-10-10 22:28:55 -- https://github.com/crowdsecurity/cs-windows-firewall-bouncer/releases/download/v0.0.4/cs_windows_firewall_bouncer_setup.msi
Resolving github.com (github.com)... 64:ff9b::1ac:f4952, 20.207.73.82
Connecting to github.com (github.com)[64:ff9b::1ac:f4952]:443... connected.
HTTP request sent, awaiting response... 302 found
Location: https://release-assets.githubusercontent.com/github-production-release-asset/455501807/a20908f1-e259-4855-b4f1-a6f026d45de5?rfv=rsv-2018-11-09&rs=bgspr-httpsse-2025-10-10T17K3AS0K3A32Z8rscd-attachment38x-filename3Dcs_windo
s_firewall_bouncer_setup.msibrspr-application0m2fcet-stream0sd1e-96c2d41e-3711-4341-aedd-ab1947aa7ab08skid=39ba665a-997b-47e9-b12b-9515b9864debskt-2025-10-10T10K3AS3KA497nske-2025-10-10T17K3AS0K3A32Z8rsksbksve-2018-11-09&sig=wYyQc
3kz2b1BgnFI7P7F1bnCnZkbCs+v5stlChG6MjODJwjeWyeJ0eXA01JKV1QLICjHmGe1OI7Iu1InL3ru.eYpQeZtZWZt4fRCCoobK3RUbrspose-content-disposition=attachment38x-filename3Dcs_windo
s_firewall_bouncer_setup.msibrspr-response-content-type=application/octet-stream [following]
2025-10-10 22:28:55 -- https://release-assets.githubusercontent.com/github-production-release-asset/45501807/a20908f1-e259-4855-b4f1-a6f026d45de5?rfv=rsv-2018-11-09&rs=bgspr-httpsse-2025-10-10T17K3AS0K3A32Z8rscd-attachment38x-filen
ame3Dcs_windows_firewall_bouncer_setup.msibrspr-application0m2fcet-stream0sd1e-96c2d41e-3711-4341-aedd-ab1947aa7ab08skid=39ba665a-997b-47e9-b12b-9515b9864debskt-2025-10-10T10K3AS3KA497nske-2025-10-10T17K3AS0K3A32Z8rsksbksve-2018-
11-09&sig=wYyQc3kz2b1BgnFI7P7F1bnCnZkbCs+v5stlChG6MjODJwjeWyeJ0eXA01JKV1QLICjHmGe1OI7Iu1InL3ru.eYpQeZtZWZt4fRCCoobK3RUbrspose-content-disposition=attachment38x-filename3Dcs_windo
s_firewall_bouncer_setup.msibrspons
e-content-type=application/octet-stream
Resolving release-assets.githubusercontent.com (release-assets.githubusercontent.com)... 64:ff9b::b9c7:6485, 64:ff9b::b9c7:6485, ...
Connecting to release-assets.githubusercontent.com (release-assets.githubusercontent.com)[64:ff9b::b9c7:6485]:443... connected.
HTTP request sent, awaiting response... 200 OK
length: 1695744 (1.6M) [application/octet-stream]
saving to: 'cs_windows_firewall_bouncer_setup.msi'

cs_windows_firewall_bouncer_setup.msi
100%[=====>] 1.62M 359K/s in 5.4s

2025-10-10 22:29:03 (306 KB/s) - 'cs_windows_firewall_bouncer_setup.msi' saved [1695744/1695744]

root@kali:~/f/#/tmp#
-sudo scp -C oskeykeyAlgorithm=ssh-psa /tmp/cs_windows_firewall_bouncer_setup.msi at100@10.178.124.51:/Users/at10/Desktop/
ssh: connect to host 10.178.124.51 port 22: Connection refused
scp: connection closed

root@kali:~/f/#/tmp#
-sudo apt update && sudo apt install -y cifs-utils
Hit:1 http://http.kali.org/kali kali-rolling InRelease
Hit:2 https://packagecloud.io/crowdsec/debian bullseye InRelease
All packages are up to date.
WARNING: apt does not have a stable URL configuration: /var/lib/dpkg/Lock-frontent. It is held by process 2854 (apt)... 193s

```