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 Code


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 0d70108 ▼



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>  linuxprivchecker

 LICENSE

 README.md

 linuxprivchecker.py

 pyproject.toml

 requirements.txt

 setup.cfg

 setup.py

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 [jtpereyda](#) add ps -w option to support systems where default width is c... 000fc51 · 4 years ago

 History

Code

Blame

Executable File · 649 lines (518 loc) · 36.3 KB

Raw







```
1  #!/usr/bin/python
2
3  """
4  #####
5  ## [Title]: linuxprivchecker.py -- a Linux Privilege Escalation Check Script
6  ## [Original Author]: Mike Czumak (T_v3rn1x) -- @SecuritySift
7  ## [Maintainer]: Michael Contino -- @Sleventyeleven
8  ##-----
9  ## [Details]:
10 ## This script is intended to be executed locally on a Linux box to enumerate basic sys
11 ## search for common privilege escalation vectors such as world writable files, misconf
12 ## passwords and applicable exploits.
13 ##-----
14 ## [Modification, Distribution, and Attribution]:
15 ## You are free to modify and/or distribute this script as you wish. I only ask that y
16 ## author attribution and not attempt to sell it or incorporate it into any commercial
17 ## worth anything anyway :)
18 #####
19 TODO:
20 Add search for writable and/or missing library files
21 Add detection and enumeration for systemd
22 Add search for accessible ssh sockets
23 Add search for ssh keys
24 Add search for know access tokens
25 Expand Sudo support to include rules in sudoers.d
26 Add more high profile exploit checks (ie shellshock)
27 """
28
29 # conditional import for older versions of python not compatible with subprocess
30 try:
31     import subprocess as sub
32     compatmode = 0 # newer version of python, no need for compatibility mode
33 except ImportError:
34     import os # older version of python, need to use os instead
35     compatmode = 1
36
37
38  def execute_cmd(cmddict):
39      """
40      Execute Command (execute_cmd)
41      loop through dictionary, execute the commands, store the results, return updated di
42
43      :param cmddict: Dictionary of commands to execute and results
44      :return: The command Dictionary with the commands results included
45      """
46
47      for item in cmddict:
48          cmd = cmddict[item]["cmd"]
49          if compatmode == 0: # newer version of python, use preferred subprocess
50              out, error = sub.Popen([cmd], stdout=sub.PIPE, stderr=sub.PIPE, shell=True)
51              results = out.split('\n')
52          else: # older version of python, use os.popen
53              echo_stdout = os.popen(cmd, 'r')
54              results = echo_stdout.read().split('\n')
55
56          # write the results to the command Dictionary for each command run
57          cmddict[item]["results"] = results
```

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```
57         cmddict[item][ 'results' ] = results
58
59     return cmddict
60
61
62  def print_results(cmddict):
63     """
64     Print Results (printResults)
65     Print results for each previously executed command, no return value
66
67     :param cmddict: Dictionary of commands to execute and results
68     :return: None
69     """
70
71     for item in cmddict:
72         msg = cmddict[item]["msg"]
73         results = cmddict[item]["results"]
74         print "[+] " + msg
75
76         for result in results:
77             if result.strip() != "":
78                 print "    " + result.strip()
79     print
80
81
82  def enum_system_info():
83     """
84     Basic System Info (get_system_info)
85     Enumerate Basic System Information by executing simple commands than saving the res
86
87     :return: Dictionary of system information results
88     """
89
90     print "[*] GETTING BASIC SYSTEM INFO...\n"
91
92     sysinfo = {
93         "OS": {"cmd": "cat /etc/issue", "msg": "Operating System", "results": []},
94         "KERNEL": {"cmd": "cat /proc/version", "msg": "Kernel", "results": []},
95         "HOSTNAME": {"cmd": "hostname", "msg": "Hostname", "results": []}
96     }
97
98     sysinfo = execute_cmd(sysinfo)
99     print_results(sysinfo)
100
101     return sysinfo
102
103
104  def enum_network_info():
105     """
106     Basic Network Info (get_network_info)
107     Enumerate Basic Network Information by executing simple commands
108
109     :return: Dictionary of Network information with results
110     """
111
112     print "[*] GETTING NETWORKING INFO...\n"
113
114     netinfo = {
115         "netinfo": {"cmd": "/sbin/ifconfig -a", "msg": "Interfaces", "results": []},
116         "ROUTE": {"cmd": "route", "msg": "Route(s)", "results": []},
117         "NETSTAT": {"cmd": "netstat -antup | grep -v 'TIME_WAIT'", "msg": "Netstat", "r
118     }
```



```
576             # import sys for io redirection
577             import sys
578
579             class Logger(object):
```



```
580         def __init__(self):
581             self.terminal = sys.stdout
582             self.log = open(args.outfile, 'a')
583
584         def write(self, message):
585             self.terminal.write(message)
586             self.log.write(message)
587     sys.stdout = Logger()
588
589 except ImportError:
590     print 'Arguments could not be processed, defaulting to print everything'
591     processsearches = True
592
593 # title / formatting
594 bigline = "=====
595 print bigline
596 print """
597
598     / /  ( )  _ _ _ _ _ / _ \ _ _ ( )  _ / _ _ / /  _ _ _ _ _ / / _ _ _ _ _
599     / /   / /  _ \ / / / / | / / / /  _ / / | / / /   / _ \ _ \ _ _ / // /  _ \
600     / / _ / / / / / / / / > < / _ _ / /   / / | | / / / _ / / /   _ / / / , < /  _ / /
601     / _ _ / / / / _ \ , _ / / | _ / /   / /   / / | _ \ _ _ / / / _ \ _ \ _ / / | \ _ _ / /
602
603 """
604 print bigline
605
606 # Enumerate Basic User Information
607 userinfo = enum_user_info()
608
609 # Enumerate Basic System Information
610 sysinfo = enum_system_info()
611
612 # Enumerate Basic Network Information
613 enum_network_info()
614
615 # Enumerate User History Files
616 enum_user_history_files()
617
618 # Enumerate Basic RC Files
619 enum_rc_files()
620
621 # Enumerate Basic Filesystem Information
622 driveinfo = enum_filesystem_info()
623
624 # Enumerate List of all Cron jobs
625 enum_cron_jobs()
626
627 # Enumerate Package and Process information
628 pkgsandprocs = enum_procs_pkgs()
629
630 # Enumerate Possible Root/superuser packages or processes
631 enum_root_pkg_proc(pkgsandprocs, userinfo)
632
633 # Emumerate Available Development Tools
634 devtools = enum_dev_tools()
635
636 # Enumerate Possible Shell Escapes
637 enum_shell_esapes(devtools)
638
639 find_likely_exploits(sysinfo, devtools, pkgsandprocs, driveinfo)
640
641 if processsearches:
642     # Search for Insecure File/Folder Permissions
643     search_file_perms()
644
645     # Search for files with potential credentials
646     search_file_passwords()
647
648 print "Finished"
649 print bigline
```