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linuxprivchecker / linuxprivchecker.py



jtpereyda add ps -w option to support systems where default width is concatenated

000fc51 · 4 years ago



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

Code

Blame

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 system info and
11 ## search for common privilege escalation vectors such as world writable files, misconfigurations,
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 you maintain
16 ## author attribution and not attempt to sell it or incorporate it into any commercial offering (as
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 dict
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).communicate()
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
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 results
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", "results": []}
118         }
```

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J

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```
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         # Enumerate Available Development Tools
634         devtools = enum_dev_tools()
635
636         # Enumerate Possible Shell Escapes
637         enum_shell_escapes(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
```