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Executable File · 404 lines (347 loc) · 16.2 KB
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                                                                                                            <>
 Code
          Blame
     1
            #!/usr/bin/env python
     2
            # Impacket - Collection of Python classes for working with network protocols.
     3
            # SECUREAUTH LABS. Copyright (C) 2021 SecureAuth Corporation. All rights reserved.
     4
     5
            # This software is provided under a slightly modified version
     6
     7
            # of the Apache Software License. See the accompanying LICENSE file
            # for more information.
     8
     9
    10
            # Description:
                A similar approach to psexec w/o using RemComSvc. The technique is described here
    11
    12
                https://www.optiv.com/blog/owning-computers-without-shell-access
     13
                Our implementation goes one step further, instantiating a local smbserver to receive the
                output of the commands. This is useful in the situation where the target machine does NOT
    14
                have a writeable share available.
    15
                Keep in mind that, although this technique might help avoiding AVs, there are a lot of
    16
                event logs generated and you can't expect executing tasks that will last long since Windows
    17
                will kill the process since it's not responding as a Windows service.
    18
    19
                Certainly not a stealthy way.
     20
    21
            #
                This script works in two ways:
                    1) share mode: you specify a share, and everything is done through that share.
    22
                    2) server mode: if for any reason there's no share available, this script will launch a loc
    23
     24
                       SMB server, so the output of the commands executed are sent back by the target machine
                       into a locally shared folder. Keep in mind you would need root access to bind to port 44
     25
                       in the local machine.
     26
```

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27
28
       # Author:
           beto (@agsolino)
29
30
31
       # Reference for:
           DCE/RPC and SMB.
32
33
34
35
       from __future__ import division
36
       from __future__ import print_function
37
       import sys
       import os
38
39
       import cmd
40
       import argparse
41
       try:
42
           import ConfigParser
43
       except ImportError:
           import configparser as ConfigParser
44
45
       import logging
46
       from threading import Thread
       from base64 import b64encode
47
48
49
       from impacket.examples import logger
50
       from impacket.examples.utils import parse_target
51
       from impacket import version, smbserver
52
       from impacket.dcerpc.v5 import transport, scmr
53
       from impacket.krb5.keytab import Keytab
54
55
       OUTPUT_FILENAME = '__output'
56
       BATCH_FILENAME = 'execute.bat'
57
       SMBSERVER_DIR = '__tmp'
       DUMMY_SHARE
                       = 'TMP'
58
59
       SERVICE NAME
                       = 'BTOBTO'
       CODEC = sys.stdout.encoding
60
61
62 ∨ class SMBServer(Thread):
           def __init__(self):
63
               Thread.__init__(self)
64
               self.smb = None
65
66
           def cleanup_server(self):
67 Y
               logging.info('Cleaning up..')
68
69
               try:
                   os.unlink(SMBSERVER_DIR + '/smb.log')
70
71
               except OSError:
72
                   pass
```

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73
                os.rmdir(SMBSERVER DIR)
 74
 75 ∨
            def run(self):
 76
                # Here we write a mini config for the server
 77
                smbConfig = ConfigParser.ConfigParser()
 78
                 smbConfig.add_section('global')
                 smbConfig.set('global','server_name','server_name')
 79
 80
                 smbConfig.set('global','server_os','UNIX')
                smbConfig.set('global','server domain','WORKGROUP')
 81
                smbConfig.set('global','log_file',SMBSERVER_DIR + '/smb.log')
 82
 83
                smbConfig.set('global','credentials_file','')
 84
 85
                # Let's add a dummy share
 86
                 smbConfig.add_section(DUMMY_SHARE)
 87
                 smbConfig.set(DUMMY SHARE, 'comment', '')
                smbConfig.set(DUMMY SHARE, 'read only', 'no')
 88
 89
                smbConfig.set(DUMMY_SHARE, 'share type', '0')
 90
                 smbConfig.set(DUMMY_SHARE, 'path', SMBSERVER_DIR)
91
 92
                # IPC always needed
 93
                 smbConfig.add_section('IPC$')
 94
                 smbConfig.set('IPC$','comment','')
 95
                smbConfig.set('IPC$','read only','yes')
 96
                smbConfig.set('IPC$','share type','3')
                 smbConfig.set('IPC$','path')
 97
 98
                self.smb = smbserver.SMBSERVER(('0.0.0.0',445), config_parser = smbConfig)
100
                logging.info('Creating tmp directory')
101
                try:
102
                     os.mkdir(SMBSERVER DIR)
103
                except Exception as e:
104
                     logging.critical(str(e))
105
106
                logging.info('Setting up SMB Server')
107
                self.smb.processConfigFile()
108
                logging.info('Ready to listen...')
109
                try:
                     self.smb.serve_forever()
110
                except:
111
112
                     pass
113
114 V
            def stop(self):
115
                self.cleanup_server()
116
                self.smb.socket.close()
                self.smb.server_close()
117
                 self Thread ston()
112
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impacket/examples/smbexec.py at 8b1a99f7c715702eafe3f24851817bb64721b156 · fortra/impacket · GitHub - 31/10/2024 18:06

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331
332
            group.add argument('-dc-ip', action='store', metavar = "ip address", help='IP Address of the dom
                                'If omitted it will use the domain part (FQDN) specified in the target param
333
            group.add_argument('-target-ip', action='store', metavar="ip address", help='IP Address of the
334
335
                               'ommited it will use whatever was specified as target. This is useful when t
                               'name and you cannot resolve it')
336
            group.add_argument('-port', choices=['139', '445'], nargs='?', default='445', metavar="destinat
337
                               help='Destination port to connect to SMB Server')
338
            group.add_argument('-service-name', action='store', metavar="service_name", default = SERVICE_N
339
340
                                                  'service used to trigger the payload')
341
342
            group = parser.add_argument_group('authentication')
343
344
            group.add_argument('-hashes', action="store", metavar = "LMHASH:NTHASH", help='NTLM hashes, for
345
            group.add_argument('-no-pass', action="store_true", help='don\'t ask for password (useful for
            group.add_argument('-k', action="store_true", help='Use Kerberos authentication. Grabs credenti
346
                               '(KRRSCCNAME) hased on target narameters. If valid credentials cannot be for
347
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                                'ones specified in the command line')
348
            group.add argument('-aesKey', action="store", metavar = "hex key", help='AES key to use for Ker
349
350
                                                                                       '(128 or 256 bits)')
            group.add_argument('-keytab', action="store", help='Read keys for SPN from keytab file')
351
352
353
354
            if len(sys.argv)==1:
                parser.print_help()
355
                sys.exit(1)
356
357
358
            options = parser.parse_args()
359
            # Init the example's logger theme
360
361
            logger.init(options.ts)
362
363
            if options.codec is not None:
                CODEC = options.codec
364
365
            else:
                if CODEC is None:
366
                    CODEC = 'utf-8'
367
368
369
            if options.debug is True:
370
                logging.getLogger().setLevel(logging.DEBUG)
371
                # Print the Library's installation path
372
                logging.debug(version.getInstallationPath())
373
            else:
                logging.getLogger().setLevel(logging.INFO)
374
375
376
            domain, username, password, remoteName = parse_target(options.target)
377
            if domain is None:
378
                domain = ''
379
380
381
            if options.keytab is not None:
382
                Keytab.loadKeysFromKeytab (options.keytab, username, domain, options)
383
                options.k = True
384
            if password == '' and username != '' and options.hashes is None and options.no_pass is False ar
385
                from getpass import getpass
386
387
                password = getpass("Password:")
388
389
            if options.target_ip is None:
390
                options.target_ip = remoteName
391
392
            if options.aesKey is not None:
---
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```
options.κ = irue
393
394
395
            try:
396
                executer = CMDEXEC(username, password, domain, options.hashes, options.aesKey, options.k, c
397
                                    options.mode, options.share, int(options.port), options.service_name, op
                executer.run(remoteName, options.target_ip)
398
399
            except Exception as e:
                if logging.getLogger().level == logging.DEBUG:
400
401
                    import traceback
402
                    traceback.print_exc()
                logging.critical(str(e))
403
            sys.exit(0)
404
```