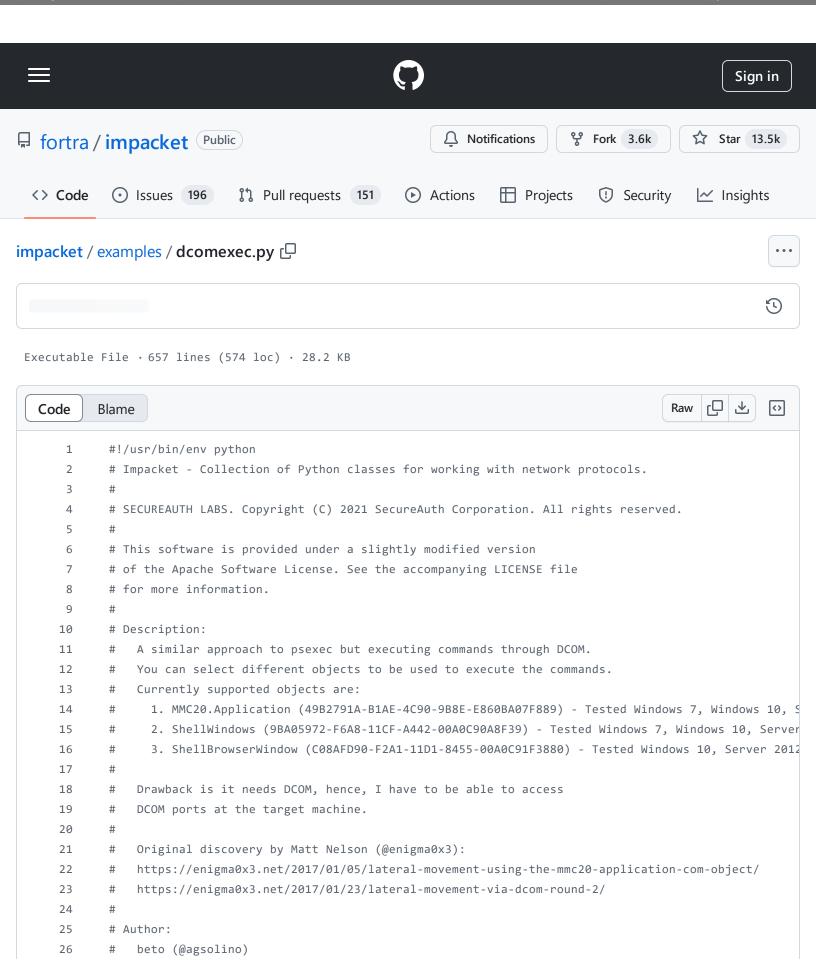
impacket/examples/dcomexec.py at 8b1a99f7c715702eafe3f24851817bb64721b156 · fortra/impacket · GitHub - 31/10/2024 18:06



```
27
           Marcello (@byt3bl33d3r)
28
29
       # Reference for:
       # DCOM
30
32
       # ToDo:
           [ ] Kerberos auth not working, invalid_checksum is thrown. Most probably sequence numbers out of
33
               getInterface() method
35
36
       from __future__ import division
37
       from __future__ import print_function
38
39
       import argparse
40
       import cmd
41
       import logging
       import ntpath
42
43
       import os
44
       import sys
       import time
45
46
       from base64 import b64encode
47
       from six import PY2, PY3
48
49
       from impacket import version
50
       from impacket.dcerpc.v5.dcom.oaut import IID_IDispatch, string_to_bin, IDispatch, DISPPARAMS, DISPA
           VARIANT, VARENUM, DISPATCH METHOD
51
52
       from impacket.dcerpc.v5.dcomrt import DCOMConnection, COMVERSION
53
       from impacket.dcerpc.v5.dcomrt import OBJREF, FLAGS_OBJREF_CUSTOM, OBJREF_CUSTOM, OBJREF_HANDLER, \
           OBJREF_EXTENDED, OBJREF_STANDARD, FLAGS_OBJREF_HANDLER, FLAGS_OBJREF_STANDARD, FLAGS_OBJREF_EXT
54
           IRemUnknown2, INTERFACE
55
       from impacket.dcerpc.v5.dtypes import NULL
56
57
       from impacket.examples import logger
       from impacket.examples.utils import parse_target
58
       from impacket.smbconnection import SMBConnection, SMB DIALECT, SMB2 DIALECT 002, SMB2 DIALECT 21
59
       from impacket.krb5.keytab import Keytab
60
61
       OUTPUT_FILENAME = '__' + str(time.time())[:5]
62
63
       CODEC = sys.stdout.encoding
64
     class DCOMEXEC:
65 V
           def init (self, command='', username='', password='', domain='', hashes=None, aesKey=None, s
66 V
                        noOutput=False, doKerberos=False, kdcHost=None, dcomObject=None, shell_type=None):
67
               self.__command = command
68
69
               self. username = username
               self. password = password
70
71
               self.__domain = domain
72
               self. lmhash = ''
```

```
self.__nthash = ''
 73
 74
                self. aesKey = aesKey
                self.__share = share
 75
                self.__noOutput = noOutput
76
 77
                self. doKerberos = doKerberos
 78
                self. _kdcHost = kdcHost
                self.__dcomObject = dcomObject
 79
 80
                self.__shell_type = shell_type
 81
                self.shell = None
 82
                if hashes is not None:
 83
                     self.__lmhash, self.__nthash = hashes.split(':')
 84
 85
            def getInterface(self, interface, resp):
 86
                # Now let's parse the answer and build an Interface instance
                objRefType = OBJREF(b''.join(resp))['flags']
                objRef = None
 88
 89
                if objRefType == FLAGS_OBJREF_CUSTOM:
 90
                    objRef = OBJREF_CUSTOM(b''.join(resp))
 91
                elif objRefType == FLAGS_OBJREF_HANDLER:
 92
                    objRef = OBJREF_HANDLER(b''.join(resp))
 93
                elif objRefType == FLAGS_OBJREF_STANDARD:
 94
                    objRef = OBJREF_STANDARD(b''.join(resp))
 95
                elif objRefType == FLAGS_OBJREF_EXTENDED:
 96
                    objRef = OBJREF EXTENDED(b''.join(resp))
 97
                else:
98
                     logging.error("Unknown OBJREF Type! 0x%x" % objRefType)
 99
100
                return IRemUnknown2(
101
                    INTERFACE(interface.get_cinstance(), None, interface.get_ipidRemUnknown(), objRef['std'
102
                               oxid=objRef['std']['oxid'], oid=objRef['std']['oxid'],
                               target=interface.get target()))
103
104
105 🗸
            def run(self, addr, silentCommand=False):
                if self. noOutput is False and silentCommand is False:
106
                     smbConnection = SMBConnection(addr, addr)
107
108
                    if self.__doKerberos is False:
109
                        smbConnection.login(self.__username, self.__password, self.__domain, self.__lmhash,
110
                    else:
                        smbConnection.kerberosLogin(self.__username, self.__password, self.__domain, self._
111
                                                     self.__nthash, self.__aesKey, kdcHost=self.__kdcHost)
112
113
                    dialect = smbConnection.getDialect()
114
115
                    if dialect == SMB_DIALECT:
116
                        logging.info("SMBv1 dialect used")
                    elif dialect == SMB2_DIALECT_002:
117
                        logging info("SMRv2 A dialect used")
112
```

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```
584
                                                                                       '(128 or 256 bits)')
585
            group.add_argument('-dc-ip', action='store',metavar = "ip address", help='IP Address of the dc
                                'ommited it use the domain part (FQDN) specified in the target parameter')
586
            group.add_argument('-A', action="store", metavar = "authfile", help="smbclient/mount.cifs-style
587
                                                                                   "See smbclient man page's
588
            group.add_argument('-keytab', action="store", help='Read keys for SPN from keytab file')
589
590
            if len(sys.argv)==1:
591
                parser.print_help()
592
593
                sys.exit(1)
594
595
            options = parser.parse args()
596
            # Init the example's logger theme
597
            logger.init(options.ts)
598
599
600
            if options.codec is not None:
601
                CODEC = options.codec
602
            else:
                if CODEC is None:
603
                    CODEC = 'utf-8'
604
605
            if ' '.join(options.command) == ' ' and options.nooutput is True:
606
                logging.error("-nooutput switch and interactive shell not supported")
607
608
                sys.exit(1)
            if options.silentcommand and options.command == ' ':
609
                logging.error("-silentcommand switch and interactive shell not supported")
610
                sys.exit(1)
611
612
            if options.debug is True:
613
                logging.getLogger().setLevel(logging.DEBUG)
614
                # Print the Library's installation path
615
                logging.debug(version.getInstallationPath())
616
617
            else:
618
                logging.getLogger().setLevel(logging.INFO)
619
620
            if options.com version is not None:
621
                try:
                                                                           *****
```

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```
major_version, minor_version = options.com_version.spiit('.')
622
623
                    COMVERSION.set_default_version(int(major_version), int(minor_version))
                except Exception:
624
                    logging.error("Wrong COMVERSION format, use dot separated integers e.g. \"5.7\"")
625
626
                    sys.exit(1)
627
            domain, username, password, address = parse target(options.target)
628
629
            try:
630
631
                if options.A is not None:
                    (domain, username, password) = load smbclient auth file(options.A)
632
                    logging.debug('loaded smbclient auth file: domain=%s, username=%s, password=%s' % (repr
633
634
635
                if domain is None:
                    domain = ''
636
637
                if options.keytab is not None:
638
                    Keytab.loadKeysFromKeytab(options.keytab, username, domain, options)
639
                    options.k = True
640
641
                if password == '' and username != '' and options.hashes is None and options.no_pass is Fals
642
                    from getpass import getpass
643
                    password = getpass("Password:")
644
645
                if options.aesKey is not None:
646
                    options.k = True
647
648
                executer = DCOMEXEC(' '.join(options.command), username, password, domain, options.hashes,
649
                                     options.share, options.nooutput, options.k, options.dc ip, options.obje
650
                executer.run(address, options.silentcommand)
651
            except (Exception, KeyboardInterrupt) as e:
652
                if logging.getLogger().level == logging.DEBUG:
653
                    import traceback
654
                    traceback.print_exc()
655
                logging.error(str(e))
656
657
            sys.exit(0)
```