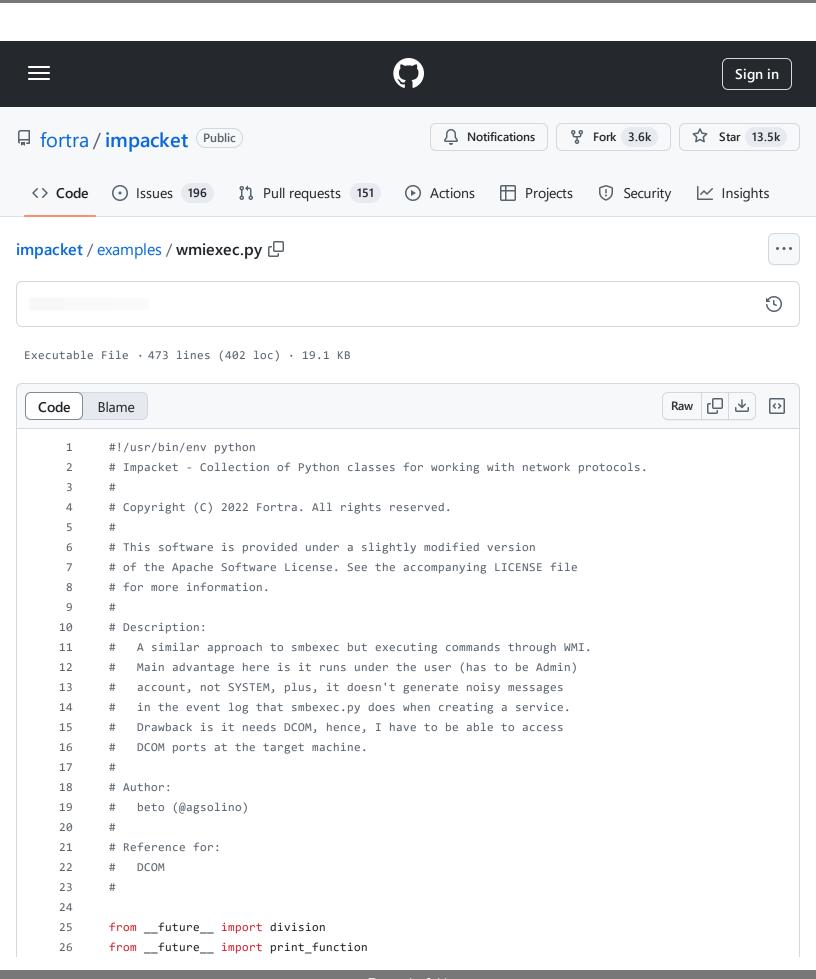
impacket/examples/wmiexec.py at f4b848fa27654ca95bc0f4c73dbba8b9c2c9f30a · fortra/impacket · GitHub - 31/10/2024 18:14



```
27
       import sys
28
       import os
29
       import cmd
       import argparse
30
       import time
31
32
       import logging
       import ntpath
33
       from base64 import b64encode
34
35
       from impacket.examples import logger
36
       from impacket.examples.utils import parse target
37
       from impacket import version
38
39
       from impacket.smbconnection import SMBConnection, SMB_DIALECT_, SMB2_DIALECT_002, SMB2_DIALECT_21
       from impacket.dcerpc.v5.dcomrt import DCOMConnection, COMVERSION
40
       from impacket.dcerpc.v5.dcom import wmi
41
       from impacket.dcerpc.v5.dtypes import NULL
42
       from impacket.krb5.keytab import Keytab
43
44
       from six import PY2
45
46
       OUTPUT_FILENAME = '__' + str(time.time())
47
       CODEC = sys.stdout.encoding
48
49
50

✓ class WMIEXEC:

51
           def __init__(self, command='', username='', password='', domain='', hashes=None, aesKey=None, s
                        noOutput=False, doKerberos=False, kdcHost=None, shell_type=None):
52
               self. command = command
54
               self.__username = username
               self.__password = password
55
               self.__domain = domain
56
               self. lmhash = ''
57
               self.__nthash = ''
58
               self. aesKey = aesKey
59
               self.__share = share
60
               self.__noOutput = noOutput
61
               self. doKerberos = doKerberos
62
               self.__kdcHost = kdcHost
63
               self.__shell_type = shell_type
64
               self.shell = None
65
               if hashes is not None:
66
                   self.__lmhash, self.__nthash = hashes.split(':')
67
68
           def run(self, addr, silentCommand=False):
69
70
               if self. noOutput is False and silentCommand is False:
71
                   smbConnection = SMBConnection(addr, addr)
72
                   if self. doKerberos is False:
```

```
73
                         smbConnection.login(self.__username, self.__password, self.__domain, self.__lmhash,
 74
                    else:
                         smbConnection.kerberosLogin(self.__username, self.__password, self.__domain, self._
 75
76
                                                      self.__nthash, self.__aesKey, kdcHost=self.__kdcHost)
 77
 78
                    dialect = smbConnection.getDialect()
 79
                    if dialect == SMB_DIALECT:
 80
                         logging.info("SMBv1 dialect used")
 81
                    elif dialect == SMB2 DIALECT 002:
 82
                         logging.info("SMBv2.0 dialect used")
 83
                    elif dialect == SMB2_DIALECT_21:
                         logging.info("SMBv2.1 dialect used")
 84
                    else:
 85
 86
                         logging.info("SMBv3.0 dialect used")
                else:
                     smbConnection = None
 88
 89
 90
                dcom = DCOMConnection(addr, self.__username, self.__password, self.__domain, self.__lmhash,
 91
                                       self.__aesKey, oxidResolver=True, doKerberos=self.__doKerberos, kdcHd
 92
                try:
 93
                    iInterface = dcom.CoCreateInstanceEx(wmi.CLSID_WbemLevel1Login, wmi.IID_IWbemLevel1Logi
 94
                     iWbemLevel1Login = wmi.IWbemLevel1Login(iInterface)
 95
                    iWbemServices = iWbemLevel1Login.NTLMLogin('//./root/cimv2', NULL, NULL)
 96
                    iWbemLevel1Login.RemRelease()
 97
98
                    win32Process, _ = iWbemServices.GetObject('Win32_Process')
99
100
                    self.shell = RemoteShell(self.__share, win32Process, smbConnection, self.__shell_type,
                    if self.__command != ' ':
101
                         self.shell.onecmd(self.__command)
102
                    else:
103
                         self.shell.cmdloop()
104
105
                except (Exception, KeyboardInterrupt) as e:
                     if logging.getLogger().level == logging.DEBUG:
106
                         import traceback
107
108
                        traceback.print_exc()
109
                    logging.error(str(e))
                    if smbConnection is not None:
110
                         smbConnection.logoff()
111
112
                    dcom.disconnect()
113
                     sys.stdout.flush()
                    sys.exit(1)
114
115
116
                if smbConnection is not None:
                     smbConnection.logoff()
117
                dcom disconnect()
112
```

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```
if len(sys.argv) == 1:
400
401
                parser.print_help()
402
                sys.exit(1)
403
404
            options = parser.parse_args()
405
406
            # Init the example's logger theme
            logger.init(options.ts)
407
408
409
            if options.codec is not None:
                CODEC = options.codec
410
411
            else:
412
                if CODEC is None:
                     CODEC = 'utf-8'
413
414
415
            if ' '.join(options.command) == ' ' and options.nooutput is True:
416
                logging.error("-nooutput switch and interactive shell not supported")
417
                sys.exit(1)
            if options.silentcommand and options.command == ' ':
418
                logging.error("-silentcommand switch and interactive shell not supported")
419
420
                sys.exit(1)
421
            if options.debug is True:
422
423
                logging.getLogger().setLevel(logging.DEBUG)
                # Print the Library's installation path
424
                logging.debug(version.getInstallationPath())
425
            else:
426
427
                logging.getLogger().setLevel(logging.INFO)
428
429
            if options.com_version is not None:
430
                try:
431
                     major_version, minor_version = options.com_version.split('.')
                     COMVERSION.set_default_version(int(major_version), int(minor_version))
432
433
                except Exception:
434
                     logging.error("Wrong COMVERSION format, use dot separated integers e.g. \"5.7\"")
                     sys.exit(1)
435
436
            domain, username, password, address = parse_target(options.target)
437
438
```

```
439
            try:
440
                if options.A is not None:
                     (domain, username, password) = load_smbclient_auth_file(options.A)
441
                    logging.debug('loaded smbclient auth file: domain=%s, username=%s, password=%s' % (
442
443
                     repr(domain), repr(username), repr(password)))
444
                if domain is None:
445
                     domain = ''
446
447
                if options.keytab is not None:
448
                     Keytab.loadKeysFromKeytab(options.keytab, username, domain, options)
449
                    options.k = True
450
451
                if password == '' and username != '' and options.hashes is None and options.no_pass is Fals
452
453
                    from getpass import getpass
454
                    password = getpass("Password:")
455
456
                if options.aesKey is not None:
457
                    options.k = True
458
459
                executer = WMIEXEC(' '.join(options.command), username, password, domain, options.hashes, c
460
                                    options.share, options.nooutput, options.k, options.dc_ip, options.shell
461
                executer.run(address, options.silentcommand)
462
            except KeyboardInterrupt as e:
463
                logging.error(str(e))
464
465
            except Exception as e:
                if logging.getLogger().level == logging.DEBUG:
466
                    import traceback
467
468
                    traceback.print exc()
469
470
                logging.error(str(e))
471
                sys.exit(1)
472
473
            sys.exit(0)
```