黑客常用 WINAPI 函数整理

一、进程

创建进程:

```
CreateProcess("C:\\windows\\notepad.exe",0,0,0,0,0,0,0,0,&si,&pi);
WinExec("notepad",SW_SHOW);
ShellExecute(0,"open","notepad","c:\\a.txt","",SW_SHOW);
ShellExecuteEx(&sei);
```

遍历进程:

```
Create Toolhelp 32 Snapshot (TH 32 CS\_SNAPPROCESS, 0); \\
```

Process32First(hsnap,&pe32);

Process32Next(hsnap,&pe32);

终止进程:

ExitProcess(0);

TerminateProcess(hProc,0);

打开进程:

OpenProcess(PROCESS ALL ACCESS,0,pid);\

获取进程 ID:

GetCurrentProcesssId();

获取进程可执行文件路径:

GetModuleFileName(NULL,buf,len);

GetProcessImageFileName(hproc,buf,len);

遍历进程模块信息:

CreateToolhelp32Snapshot(TH32CS_SNAPMODILE,pid);

Module32First(hsnap,&mdl32);

Module32Next(hsnap,&mdl2);

获取指定模块句柄:

GetModuleHandle("kernel32.dll");

获取模块内函数地址:

GetProcessAddr(hmdl, "MessageBox");

动态加载 DLL:

LoadLibrary("user32.dll");

卸载 DLL:

FreeLibrary(hDll);

获取进程命令行参数:

GetCommandLine();

任何进程 GetCommandLine 函数地址后偏移一个字节后的 4 字节地址为命令行地址。

读写远程进程数据:

ReadProcessMemory(hproc,baseAddr,buf,len,&size);

WriteProcessMemory(hproc,baseAddr,buf,len,&size);

申请内存:

VirtualAlloc(0,size,MEM_COMMIT, PAGE_EXECUTE_READWRITE);

VirtualAllocEx(hproc,0,size,MEM_COMMIT, PAGE_EXECUTE_READWRITE);

修改内存属性:

VirtualProtect(addr,size,PAGE EXECUTE READWRITE,&oldAddr);

VirtualProtectEx(hproc,addr,size,PAGE_EXECUTE_READWRITE,&oldAddr);

释放内存:

VirtualFree(addr, size, MEM RELEASE);

VirtualFreeEx(hproc, addr, size, MEM_RELEASE);

获取系统版本(Win NT/2K/XP<0x8000000):

getVersion();

读写进程优先级:

SetPriorityClass(hproc,Normal);

GetPriority(hproc);

SetProcessPriorityBoost(hproc,true);

GetProcessPriorityBoost(hproc,pBool);

二、线程

创建线程(CreateThread 的线程函数调用了 strtok、rand 等需使用_endthread()释放内存):

CreateThread(0,0,startAddr,¶,0,&tid);

_beginthread(startAddr,0,0);

_beginthreadex(0,0,startAddr,0,0,&tid);

Create Remote Thread (hproc, 0, 0, func, & para, 0, & tid);

获取线程 ID:

GetCurrentThreadId();

关闭线程句柄(减少内核对象使用次数,防止内存泄漏):

CloseHandle(hthread);

挂起与激活线程(维护暂停次数):

SuspendThread(hthread);

ResumeThread(hthread);

获取线程退出代码:

GetExitCode(hthread,&code);

等待线程退出(线程受信状态或超时):

WaitForSignleObject(htread, 1000);

WaitForMultipleObjects(num,handles,true,INFINITE);

遍历线程:

CreateToolhelp32Snapshot(TH32CS_SNAPTHREAD,0);

Thread32First(hsnap,&mdl32);

Thread32Next(hsnap,&mdl2);

获取线程函数入口:

ZwQueryInfomationThread(hthread,ThreadQuerySetWin32StartAddress,&buf,4,NULL);

打开线程

OpenThread(THREAD_ALL_ACCESS,false,&tid);

获取线程函数地址所属模块:

GetMappedFileName(hproc,addr,buf,256);

读写线程优先级:

SetThreadPriority(hthread,Normal);

GetThreadPriority(hthread);

SetThreadPriorityBoost(hproc,true);

GetThreadPriorityBoost(hproc,pBool);

终止线程:

ExitThread(5);

TerminateThread(hthread,5);

线程同步临界区对象:

InitializeCriticalSection(&cs);

EnterCriticalSection(&cs);

```
LeaveCriticalSection(&cs);
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DeleteCriticalSection(&cs);

线程同步事件内核对象:

```
OpenEvent(EVENT_ALL_ACCESS, false, name);
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CreateEvent(NULL,false,true,NULL);

WaitForSingleObject(hevnt,INFINITE);

SetEvent(hevnt);

ResetEvent(hevnt);

线程同步互斥内核对象:

CreateMutex(NULL,false,NULL);

WaitForSingleObject(hmutex,INFINITE);

ReleaseMutex(hmutex);

OpenMutex(MUTEX_ALL_ACCESS,false,name);

三、注册表

创建键:

RegCreateKeyEx(HKEY_CURRENT_USER,"TestNewKey",0,0,REG_OPT ION_VOLATILE,KEY_ALL_ACCESS,0,&subkey,&state);

打开键:

RegCreateKeyEx(HKEY_CURRENT_USER,"Control Panel",0,KEY ALL ACCESS,&subkey);

关闭键:

RegCloseKey(hkey);

遍历键:

RegEnumKeyEx(hsubkey,index,keyname,&nameSize,0,0,0,&time);

FileTimeToSystemTime(&time,&systime);

RegQueryInfo(hsubkey,0,0,0,&count,0,0,0,0,0,0,0);

删除键:

RegDeleteKeyEx(hmainkey,subkeyName);

创建值:

RegSetValueEx(hsubkey,"test",0,REG WORD,(BYTE*)&value,4);

遍历值:

RegEnumValue(hsubkey,index,name,&nameSize,0,&type,valuebuf,valueLe n);

RegQueryValueEx(hsubkey,name,0,type,buf,&size);

删除值:

RegDeleteValue(hsubkey,valuename);

四、文件

创建/打开文件:

CreateFile("a.txt",GENERIC_READ|GENERIC_WRITE,FILE_SHARE_R EAD,0,OPEN EXISTING,FILE ATTRIBUTE NORMAL,0);

设置文件指针:

SetFilePointer(hFile,0,NULL,FILE_END);

读写文件:

ReadFile(hFile,buf,len,&size,0);

WriteFile(hFile,buf,len,&size,0);

强制文件写入磁盘,清空文件高速缓冲区:

FlushFileuffers(hFile);

[解]锁文件区域:

LockFile(hFile,0,0,100,0);

UnlockFile(hFile,0,0,100,0);

复制文件:

CopyFile(src,des,true);

CopyFileEx(src,des,func,¶,false, COPY_FILE_FAIL_IF_EXISTS);

移动文件:

MoveFile(src,des);

MoveFileEx(src,des,false);

MoveFileWithProgress(src,des,fun,¶, MOVEFILE_COPY_ALLOWED);

删除文件:

DeleteFile(filename);

获取文件类型(FILE_TYPE_PIPE):

GetFileType(hFile);

获取文件大小:

GetFileSize(hFile,&high);

获取文件属性(例如 FILE_ATTRIBUTE_DIRECTORY 进行&运算):

GetFileAttributes(hFile);

遍历文件:

FindFirstFile(nameMode,&wfd);

FindNextFile(hFile,&wfd);

创建管道:

CreatePipe(&hRead,&hWrite,&sa,0);

创建内存映射文件:

CreateFile("d:\\a.txt",GENERIC_READ|GENERIC_WRITE,FILE_SHARE _READ,0,OPEN_EXISTI NG,FILE ATTRIBUTE NORMAL,"myMap");

加载内存映射文件:

MapViewOfFile(hmap,FILE MAP ALL ACCESS,0,0,0);

打开内存映射文件:

OpenFileMapping(FILE_AMP_ALL_ACCESS,false,"myMap");

卸载内存映射文件:

UnmapViewOfFile(baseAddr);

强制写入内存映射文件到磁盘:

FlushViewOfFile(baseAddr,len);

创建文件夹(只能创建一层):

CreateDirectory("D:\\a",NULL);

CreateDirectory("C:\\a","D:\\b",NULL);

删除文件夹(只能删除空文件夹):

RemoveDirectory("C:\\a");

检测逻辑驱动器:

GetLogicalDrives();

GetLogicalDriveStrings(len,buf);

获取驱动器类型(DRIVE_CDROM):

GetDriveType("D:\\");

五、网络

打开网络资源枚举过程(winnetwk.h、Mpr.lib):

WNetOpenEnum(RESOURCE_GLOBAL,RESOURCETYPE_ANY,0,NUL

L,hnet);

枚举网络资源:

WNetEnumResource(hnet,&count,pNetRsc,&size);

关闭网络资源枚举过程:

WNetCloseEnum(hnet);

打开关闭 WinSocket 库:

WSAStartup(version,&wsa);

WSACleanup();

创建套接字:

socket(AF INET,SOCK STREAM,IPPROTO TCP);

绑定套接字 IP 和端口:

bind(sock,&addr,len);

监听 TCP 连接:

listen(sock, 10);

接收 TCP 连接请求:

accept(sock,&addr,&len);

客户端连接:

connect(sock,&addr,len);

发送 TCP 数据:

send(sock,buf,len,0);

接收 TCP 数据:

recv(sock,buf,len,0);

发送 UDP 数据:

sendto(sock,buf,len,0,&addr,len);

接收 UDP 数据:

recvfrom(sock,buf,len,0,&addr,&len);

六、服务

打开 SCM 服务控制管理器:

OpenSCManager(NULL,NULL,SC_MANAGER_ALL_ACCESS);

创建服务:

CreateService(mgr,"MyService","
MyService",SERVICE_ALL_ACCESS,SERVICE_WIN32_OWN_PROCE
SS,SERVICE_AUTO_START,SERVICE_ERROR_IGNORE,path,NULL,N
ULL,NULL,NULL,NULL);

打开服务对象:

OpenService(mgr," MyService ",SERVICE_START);

启动服务:

StartService(serv,0,NULL);

查询服务状态:

QueryServiceStatus(serv,&state);

关闭服务句柄:

CloseServiceHandle(hdl);

连接到 SCM:

StartServiceCtrlDispatcher(DispatchTable);

注册服务控制函数:

RegisterServiceCtrlHandler("MyServicer",ServiceCtrl);

设置服务状态:

SetServiceStatus(hss,&ServiceStatus);

控制服务:

ControlService(serv,SERVICE_CONTROL_STOP,&state);

删除服务:

DeleteService(serv);

遍历服务:

EnumServicesStatus(hscm,SERVICE_WIN32|SERVICE_DRIVER,SERVICE_STATE_ALL,&srvSts,len,&size,&count,NULL);

查询服务配置:

QueryServiceConfig(hserv,&srvcfg,size,&size);

七、消息

发送消息:

SendMessage(HWND_BROADCAST,WM_LBUTTONDOWN,0,0);

接收消息:

GetMessage (&msg, NULL, 0, 0);

投递消息:

PostMessage(HWND BROADCAST,WM LBUTTONDOWN,0,0); 获取消息: PeekMessage(&msg,NULL,0,0); 转换消息: TranslateMessage (&msg); 分发消息: DispatchMessage (&msg); 等待消息: WaitMessage(); 发送退出消息: PostQuitMessage(0);

安装消息钩子:

 $SetWindowsHookEx(WH_KEYBOARD, keyBoardProc, 0, tid);$

卸载消息钩子:

UnhookWindowsHookEx(hhk);