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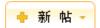
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SIG^2 Secure Code Study Project Proof-Of-Concept

Dynamic Forking of Win32 EXE by Tan Chew Keong 7 April 2004 Download

Introduction

This Proof-Of-Concept (POC) code demonstrates the dynamic loading of a Win32 EXE into the memory space of a process that was created using the CreateProcess API with the CREATE_SUSPENDED parameter. This code also shows how to perform manual relocation of a Win32 EXE and how to unmap the original image of an EXE from its process space.

Description of Technique

Under Windows, a process can be created in suspend mode using the CreateProcess API with the CREATE_SUSPENDED parameter. The EXE image will be loaded into memory by Windows but execution will not begin until the ResumeThread API is used. Before calling ResumeThread, it is possible to read and write this process's memory space using APIs like ReadProcessMemory and WriteProcessMemory. This makes it possible to overwrite the image of the original EXE with the image of another EXE, thus enabling the execution of the second EXE within the memory space of the first EXE. This can be achieved with the following sequence of steps.

Use the CreateProcess API with the CREATE_SUSPENDED parameter to create a suspended process from any EXE file. (Call this the first EXE).

Call GetThreadContext API to obtain the register values (thread context) of the suspended process. The EBX register of the suspended process points to the process's PEB. The EAX register contains the entry point of the process (first EXE).

Obtain the base-address of the suspended process from its PEB, i.e. at [EBX+8]

Load the second EXE into memory (using ReadFile) and perform the neccessary alignment manually. This is required if the file alignment is different from the memory alignment

If the second EXE has the same base-address as the suspended process and its image-size is <= to the image-size of the suspended process, simply use the WriteProcessMemory function to write the image of the second EXE into the memory space of the suspended process, starting at the base-address.

Otherwise, unmap the image of the first EXE using ZwUnmapViewOfSection (exported by ntdll.dll) and use VirtualAllocEx to allocate enough memory for the second EXE within the memory space of the suspended process. The VirtualAllocEx API must be supplied with the base-address of the second EXE to ensure that Windows will give us memory in the required region. Next, copy the image of the second EXE into the memory space of the suspended process starting at the allocated address (using WriteProcessMemory).

If the unmap operation failed but the second EXE is relocatable (i.e. has a relocation table), then allocate enough memory for the second EXE within the suspended process at any location. Perform manual relocation of the second EXE based on the allocated memory address. Next, copy the relocated EXE into the memory space of the suspended process starting at the allocated address (using WriteProcessMemory).

Patch the base-address of the second EXE into the suspended process's PEB at [EBX+8].

Set EAX of the thread context to the entry point of the second EXE.

Use the SetThreadContext API to modify the thread context of the suspended process.

Use the ResumeThread API to resume execute of the suspended process.

Techniques Demonstrated by POC Code

Manual relocation of an EXE using its Relocation Table. Unmapping the image of the original EXE using ZwUnmapViewOfSection.

Reading and Writing to a process's memory space using ReadProcessMemory and WriteProcessMemory.

Changing the base-address of a process by modifying its value in the process's PEB.

Usage

loadEXE.exe <EXE filename>

This POC code will use the CreateProcess API to create a process in suspend mode from calc.exe. It would then load and align the EXE file given by the "EXE filename" commandline parameter. Following this, it would copy the aligned EXE image into calc.exe's memory space and resume execution.

Contacts

For further enquries or to submit malicious code for our analysis, email them to the following.

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补充:

```
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代码:
    //***********
    ******
    // loadEXE.cpp : Defines the entry point
    for the console application.
    //
    // Proof-Of-Concept Code
    // Copyright (c) 2004
    // All rights reserved.
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//
// Usage:
// loadEXE <EXE filename>
// This will execute calc.exe in
suspended mode and replace its image with
// the new EXE's image. The thread
is then resumed, thus causing the new EXE
t.o
// execute within the process space of
svchost.exe.
//**********
*********
******
#include <stdio.h>
#include <windows.h>
#include <tlhelp32.h>
#include <psapi.h>
struct PE Header
  unsigned long signature;
```

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```
unaryneu anore machine,
 unsigned short numSections;
  unsigned long timeDateStamp;
 unsigned long pointerToSymbolTable;
 unsigned long numOfSymbols;
 unsigned short sizeOfOptionHeader;
 unsigned short characteristics;
};
struct PE ExtHeader
 unsigned short magic;
 unsigned char majorLinkerVersion;
 unsigned char minorLinkerVersion;
 unsigned long sizeOfCode;
 unsigned long sizeOfInitializedData;
 unsigned long sizeOfUninitializedData;
 unsigned long addressOfEntryPoint;
 unsigned long baseOfCode;
 unsigned long baseOfData;
 unsigned long imageBase;
 unsigned long sectionAlignment;
 unsigned long fileAlignment;
 unsigned short majorOSVersion;
  unsigned short minorOSVersion;
 unsigned short majorImageVersion;
 unsigned short minorImageVersion;
 unsigned short majorSubsystemVersion;
 unsigned short minorSubsystemVersion;
 unsigned long reserved1;
 unsigned long sizeOfImage;
 unsigned long sizeOfHeaders;
 unsigned long checksum;
 unsigned short subsystem;
  unsigned short DLLCharacteristics;
 unsigned long sizeOfStackReserve;
 unsigned long sizeOfStackCommit;
 unsigned long sizeOfHeapReserve;
 unsigned long sizeOfHeapCommit;
 unsigned long loaderFlags;
 unsigned long numberOfRVAAndSizes;
 unsigned long exportTableAddress;
 unsigned long exportTableSize;
 unsigned long importTableAddress;
 unsigned long importTableSize;
 unsigned long resourceTableAddress;
 unsigned long resourceTableSize;
 unsigned long exceptionTableAddress;
  unsigned long exceptionTableSize;
 unsigned long certFilePointer;
  unsigned long certTableSize;
 unsigned long relocationTableAddress;
```

```
unsigned long relocationTableSize;
 unsigned long debugDataAddress;
 unsigned long debugDataSize;
 unsigned long archDataAddress;
 unsigned long archDataSize;
 unsigned long globalPtrAddress;
 unsigned long globalPtrSize;
 unsigned long TLSTableAddress;
 unsigned long TLSTableSize;
 unsigned long loadConfigTableAddress;
 unsigned long loadConfigTableSize;
 unsigned long boundImportTableAddress;
 unsigned long boundImportTableSize;
 unsigned long
importAddressTableAddress;
 unsigned long importAddressTableSize;
 unsigned long delayImportDescAddress;
 unsigned long delayImportDescSize;
 unsigned long COMHeaderAddress;
 unsigned long COMHeaderSize;
 unsigned long reserved2;
 unsigned long reserved3;
};
struct SectionHeader
 unsigned char sectionName[8];
 unsigned long virtualSize;
 unsigned long virtualAddress;
 unsigned long sizeOfRawData;
 unsigned long pointerToRawData;
 unsigned long pointerToRelocations;
 unsigned long pointerToLineNumbers;
 unsigned short numberOfRelocations;
 unsigned short numberOfLineNumbers;
 unsigned long characteristics;
};
struct MZHeader
 unsigned short signature;
 unsigned short partPag;
 unsigned short pageCnt;
 unsigned short reloCnt;
 unsigned short hdrSize;
 unsigned short minMem;
 unsigned short maxMem;
 unsigned short reloSS;
 unsigned short exeSP;
 unsigned short chksum;
  unsigned short exeIP;
```

```
unsigned short reloCS;
 unsigned short tablOff;
 unsigned short overlay;
 unsigned char reserved[32];
 unsigned long offsetToPE;
};
struct ImportDirEntry
 DWORD importLookupTable;
 DWORD timeDateStamp;
 DWORD fowarderChain;
 DWORD nameRVA;
 DWORD importAddressTable;
} ;
//**********
*********
*****
// This function reads the MZ, PE, PE
extended and Section Headers from an EXE
file.
//**********
**********
*******
bool readPEInfo(FILE *fp, MZHeader
*outMZ, PE Header *outPE, PE ExtHeader
*outpeXH,
      SectionHeader **outSecHdr)
 fseek(fp, 0, SEEK END);
 long fileSize = ftell(fp);
 fseek(fp, 0, SEEK SET);
 if(fileSize < sizeof(MZHeader))</pre>
   printf("File size too small\n");
   return false;
 // read MZ Header
 MZHeader mzH;
 fread(&mzH, sizeof(MZHeader), 1, fp);
 if(mzH.signature != 0x5a4d) // MZ
```

_

```
printf("File does not have MZ
header\n");
    return false;
  //printf("Offset to PE Header = %X\n",
mzH.offsetToPE);
  if((unsigned long)fileSize <</pre>
mzH.offsetToPE + sizeof(PE Header))
    printf("File size too small\n");
    return false;
  // read PE Header
  fseek(fp, mzH.offsetToPE, SEEK SET);
  PE Header peH;
  fread(&peH, sizeof(PE Header), 1, fp);
  //printf("Size of option header =
%d\n", peH.sizeOfOptionHeader);
  //printf("Number of sections = %d\n",
peH.numSections);
  if(peH.sizeOfOptionHeader !=
sizeof(PE ExtHeader))
    printf("Unexpected option header
size.\n");
    return false;
  // read PE Ext Header
  PE ExtHeader peXH;
  fread(&peXH, sizeof(PE ExtHeader), 1,
fp);
  //printf("Import table address = %X\n",
peXH.importTableAddress);
  //printf("Import table size = %X\n",
peXH.importTableSize);
  //printf("Import address table address
= %X\n", peXH.importAddressTableAddress);
  //printf("Import address table size =
%X\n", peXH.importAddressTableSize);
  // read the sections
  SectionHeader *secHdr = new
```

```
SectionHeader[peH.numSections];
 fread(secHdr, sizeof(SectionHeader) *
peH.numSections, 1, fp);
 *outMZ = mzH;
 *outPE = peH;
 *outpeXH = peXH;
 *outSecHdr = secHdr;
 return true;
}
//**********
**********
*******
// This function calculates the size
required to load an EXE into memory with
proper alignment.
//*********
*********
******
int calcTotalImageSize(MZHeader *inMZ,
PE Header *inPE, PE ExtHeader *inpeXH,
          SectionHeader *inSecHdr)
{
 int result = 0;
 int alignment = inpeXH-
>sectionAlignment;
 if(inpeXH->sizeOfHeaders % alignment ==
0)
   result += inpeXH->sizeOfHeaders;
 else
   int val = inpeXH->sizeOfHeaders /
alignment;
   val++;
   result += (val * alignment);
 }
 for(int i = 0; i < inPE->numSections;
i++)
   if(inSecHdr[i].virtualSize)
```

```
alignment == 0)
     result +=
inSecHdr[i].virtualSize;
    else
      int val = inSecHdr[i].virtualSize
/ alignment;
     val++;
     result += (val * alignment);
    }
 }
 return result;
//*********
*********
*****
// This function calculates the aligned
size of a section
//*********
**********
*******
unsigned long getAlignedSize(unsigned
long curSize, unsigned long alignment)
 if(curSize % alignment == 0)
  return curSize;
 else
   int val = curSize / alignment;
  val++;
  return (val * alignment);
}
//**********
**********
******
// This function loads a PE file into
memory with proper alignment.
// Enough memory must be allocated at
ptrLoc.
//
```

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```
//*********
*********
*******
bool loadPE(FILE *fp, MZHeader *inMZ,
PE Header *inPE, PE ExtHeader *inpeXH,
     SectionHeader *inSecHdr, LPVOID
ptrLoc)
  char *outPtr = (char *)ptrLoc;
  fseek(fp, 0, SEEK SET);
  unsigned long headerSize = inpeXH-
>sizeOfHeaders;
  // certain PE files have
sectionHeaderSize value > size of PE file
itself.
  // this loop handles this situation by
find the section that is nearest to the
  // PE header.
  for(int i = 0; i < inPE->numSections;
i++)
    if(inSecHdr[i].pointerToRawData <</pre>
headerSize)
     headerSize =
inSecHdr[i].pointerToRawData;
  // read the PE header
  unsigned long readSize = fread(outPtr,
1, headerSize, fp);
  //printf("HeaderSize = %d\n",
headerSize);
  if(readSize != headerSize)
   printf("Error reading headers (%d
%d) \n", readSize, headerSize);
   return false;
  }
  outPtr += getAlignedSize(inpeXH-
>sizeOfHeaders, inpeXH-
>sectionAlignment);
  // read the sections
  for(i = 0; i < inPE->numSections; i++)
    if(inSecHdr[i].sizeOfRawData > 0)
```

```
unsigned long toRead =
inSecHdr[i].sizeOfRawData;
     if(toRead >
inSecHdr[i].virtualSize)
       toRead = inSecHdr[i].virtualSize;
     fseek(fp,
inSecHdr[i].pointerToRawData, SEEK SET);
     readSize = fread(outPtr, 1, toRead,
fp);
     if(readSize != toRead)
       printf("Error reading section
%d\n", i);
       return false;
     outPtr +=
getAlignedSize(inSecHdr[i].virtualSize,
inpeXH->sectionAlignment);
   }
   else
     // this handles the case where the
PE file has an empty section. E.g. UPX0
section
     // in UPXed files.
     if(inSecHdr[i].virtualSize)
       outPtr +=
getAlignedSize(inSecHdr[i].virtualSize,
inpeXH->sectionAlignment);
 return true;
struct FixupBlock
 unsigned long pageRVA;
 unsigned long blockSize;
};
//**********
**********
******
// This function loads a PE file into
```

```
memory with proper alignment.
// Enough memory must be allocated at
//
//*********
*********
*******
void doRelocation (MZHeader *inMZ,
PE Header *inPE, PE ExtHeader *inpeXH,
         SectionHeader *inSecHdr, LPVOID
ptrLoc, DWORD newBase)
  if(inpeXH->relocationTableAddress &&
inpeXH->relocationTableSize)
    FixupBlock *fixBlk = (FixupBlock *)
((char *)ptrLoc + inpeXH-
>relocationTableAddress);
    long delta = newBase - inpeXH-
>imageBase;
   while(fixBlk->blockSize)
     //printf("Addr = %X\n", fixBlk-
>pageRVA);
     //printf("Size = %X\n", fixBlk-
>blockSize);
     int numEntries = (fixBlk->blockSize
- sizeof(FixupBlock)) >> 1;
     //printf("Num Entries = %d\n",
numEntries);
     unsigned short *offsetPtr =
(unsigned short *)(fixBlk + 1);
     for(int i = 0; i < numEntries; i++)</pre>
       DWORD *codeLoc = (DWORD *)((char
*)ptrLoc + fixBlk->pageRVA + (*offsetPtr
& 0x0FFF));
       int relocType = (*offsetPtr &
0xF000) >> 12;
       //printf("Val = %X\n",
*offsetPtr);
       //printf("Type = %X\n",
relocType);
       if(relocType == 3)
```

```
*codeLoc = ((DWORD)*codeLoc) +
delta;
      else
        printf("Unknown relocation type
= %d\n", relocType);
      offsetPtr++;
    fixBlk = (FixupBlock *)offsetPtr;
 }
}
#define TARGETPROC "calc.exe"
typedef struct PROCINFO
 DWORD baseAddr;
 DWORD imageSize;
} PROCINFO;
//*********
*********
******
// Creates the original EXE in suspended
mode and returns its info in the PROCINFO
structure.
//**********
*********
*******
BOOL createChild(PPROCESS INFORMATION pi,
PCONTEXT ctx, PROCINFO *outChildProcInfo)
 STARTUPINFO si = \{0\};
 if (CreateProcess (NULL, TARGETPROC,
          NULL, NULL, 0,
CREATE SUSPENDED, NULL, NULL, &si, pi))
 {
   ctx->ContextFlags=CONTEXT FULL;
   GetThreadContext(pi->hThread, ctx);
```

```
DWORD *pebInfo = (DWORD *)ctx->Ebx;
   DWORD read;
   ReadProcessMemory(pi->hProcess,
&pebInfo[2], (LPVOID) & (outChildProcInfo-
>baseAddr), sizeof(DWORD), &read);
   DWORD curAddr = outChildProcInfo-
>baseAddr;
   MEMORY BASIC INFORMATION memInfo;
   while (VirtualQueryEx (pi->hProcess,
(LPVOID) curAddr, &memInfo,
sizeof(memInfo)))
     if(memInfo.State == MEM FREE)
      break;
     curAddr += memInfo.RegionSize;
   }
   outChildProcInfo->imageSize =
(DWORD) curAddr - (DWORD) outChildProcInfo-
>baseAddr;
   return TRUE;
 return FALSE;
//*********
*********
******
// Returns true if the PE file has a
relocation table
//**********
*********
******
BOOL hasRelocationTable (PE ExtHeader
*inpeXH)
 if(inpeXH->relocationTableAddress &&
inpeXH->relocationTableSize)
  {
   return TRUE;
 return FALSE;
typedef DWORD (WINAPI
```

```
*PTRZwUnmapViewOfSection) (IN HANDLE
ProcessHandle, IN PVOID BaseAddress);
//**********
**********
*****
// To replace the original EXE with
another one we do the following.
// 1) Create the original EXE process in
suspended mode.
// 2) Unmap the image of the original
// 3) Allocate memory at the baseaddress
of the new EXE.
// 4) Load the new EXE image into the
allocated memory.
// 5) Windows will do the necessary
imports and load the required DLLs for us
when we resume the suspended
   thread.
//
//
// When the original EXE process is
created in suspend mode, GetThreadContext
returns these useful
// register values.
// EAX - process entry point
// EBX - points to PEB
//
// So before resuming the suspended
thread, we need to set EAX of the context
to the entry point of the
// new EXE.
//**********
**********
*****
void doFork(MZHeader *inMZ, PE Header
*inPE, PE ExtHeader *inpeXH,
     SectionHeader *inSecHdr, LPVOID
ptrLoc, DWORD imageSize)
 STARTUPINFO si = \{0\};
 PROCESS INFORMATION pi;
 CONTEXT ctx;
 PROCINFO childInfo;
 if(createChild(&pi, &ctx, &childInfo))
```

nrintf/"Original EVE loaded (DTD -

```
%d).\n", pi.dwProcessId);
    printf("Original Base Addr = %X, Size
= %X\n", childInfo.baseAddr,
childInfo.imageSize);
    LPVOID v = (LPVOID) NULL;
    if(inpeXH->imageBase ==
childInfo.baseAddr && imageSize <=</pre>
childInfo.imageSize)
      // if new EXE has same baseaddr and
is its size is <= to the original EXE,
just
      // overwrite it in memory
      v = (LPVOID) childInfo.baseAddr;
      DWORD oldProtect;
      VirtualProtectEx (pi.hProcess,
(LPVOID) childInfo.baseAddr,
childInfo.imageSize,
PAGE EXECUTE READWRITE, &oldProtect);
      printf("Using Existing Mem for New
EXE at %X\n", (unsigned long)v);
    }
    else
      // get address of
ZwUnmapViewOfSection
      PTRZwUnmapViewOfSection
pZwUnmapViewOfSection =
(PTRZwUnmapViewOfSection) GetProcAddress (G
etModuleHandle("ntdll.dll"),
"ZwUnmapViewOfSection");
      // try to unmap the original EXE
image
 if (pZwUnmapViewOfSection (pi.hProcess,
(LPVOID) childInfo.baseAddr) == 0)
        // allocate memory for the new
EXE image at the prefered imagebase.
        v = VirtualAllocEx(pi.hProcess,
(LPVOID) inpeXH->imageBase, imageSize,
MEM RESERVE | MEM COMMIT,
PAGE EXECUTE READWRITE);
        if(v)
          printf("Unmapped and Allocated
Mem for New EXE at %X\n", (unsigned
```

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```
long)v);
      }
    }
    if(!v && hasRelocationTable(inpeXH))
      // if unmap failed but EXE is
relocatable, then we try to load the EXE
at another
      // location
      v = VirtualAllocEx(pi.hProcess,
(void *)NULL, imageSize, MEM RESERVE |
MEM COMMIT, PAGE EXECUTE READWRITE);
      if(v)
        printf("Allocated Mem for New EXE
at %X. EXE will be relocated.\n",
(unsigned long) v);
        // we' ve got to do the
relocation ourself if we load the image
at another
        // memory location
        doRelocation(inMZ, inPE, inpeXH,
inSecHdr, ptrLoc, (DWORD) v);
      }
    }
   printf("EIP = %X\n", ctx.Eip);
    printf("EAX = %X\n", ctx.Eax);
   printf("EBX = %X\n", ctx.Ebx);
                                       //
EBX points to PEB
   printf("ECX = %X\n", ctx.Ecx);
   printf("EDX = %X\n", ctx.Edx);
    if(v)
      printf("New EXE Image Size = %X\n",
imageSize);
      // patch the EXE base addr in PEB
(PEB + 8 holds process base addr)
      DWORD *pebInfo = (DWORD *)ctx.Ebx;
      DWORD wrote;
      WriteProcessMemory(pi.hProcess,
&pebInfo[2], &v, sizeof(DWORD), &wrote);
      // patch the base addr in the PE
header of the EXE that we load ourselves
      PE ExtHeader *peXH = (PE ExtHeader
*)((DWORD)inMZ->offsetToPE +
sizeof(PF Header) + (DWORD)ptrLoc):
```

```
peXH->imageBase = (DWORD)v;
     if (WriteProcessMemory (pi.hProcess,
v, ptrLoc, imageSize, NULL))
       printf("New EXE image injected
into process.\n");
       ctx.ContextFlags=CONTEXT FULL;
       //ctx.Eip = (DWORD)v +
((DWORD)dllLoaderWritePtr -
(DWORD) ptrLoc);
       if((DWORD)v ==
childInfo.baseAddr)
         ctx.Eax = (DWORD)inpeXH-
>imageBase + inpeXH-
>addressOfEntryPoint;
                     // eax holds new
entry point
       else
         // in this case, the DLL was
not loaded at the baseaddr, i.e. manual
relocation was
         // performed.
         ctx.Eax = (DWORD)v + inpeXH-
>addressOfEntryPoint; // eax holds new
entry point
       ctx.Eip);
       printf("****** EAX = %X\n",
ctx.Eax);
  SetThreadContext(pi.hThread, &ctx);
       ResumeThread(pi.hThread);
       printf("Process resumed (PID =
%d).\n", pi.dwProcessId);
     else
       printf("WriteProcessMemory
failed\n");
       TerminateProcess(pi.hProcess, 0);
```

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```
else
      printf("Load failed. Consider
making this EXE relocatable.\n");
      TerminateProcess(pi.hProcess, 0);
    }
  }
  else
    printf("Cannot load %s\n",
TARGETPROC);
  }
int main(int argc, char* argv[])
  if(argc != 2)
    printf("\nUsage: %s <EXE</pre>
filename>\n", argv[0]);
    return 1;
  }
  FILE *fp = fopen(argv[1], "rb");
  if(fp)
    MZHeader mzH;
    PE Header peH;
    PE ExtHeader peXH;
    SectionHeader *secHdr;
    if(readPEInfo(fp, &mzH, &peH, &peXH,
&secHdr))
      int imageSize =
calcTotalImageSize(&mzH, &peH, &peXH,
secHdr);
      //printf("Image Size = %X\n",
imageSize);
      LPVOID ptrLoc = VirtualAlloc(NULL,
imageSize, MEM COMMIT,
PAGE EXECUTE READWRITE);
      if(ptrLoc)
        //printf("Memory allocated at
%X\n", ptrLoc);
        loadPE(fp, &mzH, &peH, &peXH,
```

```
secHdr, ptrLoc);

    doFork(&mzH, &peH, &peXH, secHdr,
ptrLoc, imageSize);
    }
    else
        printf("Allocation failed\n");
}

fclose(fp);
}
else
    printf("\nCannot open the EXE
file!\n");

return 0;
}
```

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TOP

《上一主题 | 下一主题 >>





邪恶八进制信息安全团队技术讨论组》开源代码收集{ Software Source Code } » [转载]Dynamic Forking of Win32 EXE

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