TREE Case Study - BasicOVPlus.exe

Basic Overflow Plus

Vulnerability Name: Basic Overflow Plus Example

Application Mode: User Mode

Target: Windows
Sample ran on:

Windows 7 32-bit for IDA 6.4 environment

Description

Basic buffer overflow. The overflow occurs when the input file "mytaint.txt" has more than 8 bytes.

BasicOVPlus.cpp

```
// filebufov.cpp : Defines the entry point for the console application.
#include "windows.h"
#include <stdio.h>
HANDLE hFile = NULL;
void StackOVflow(char * sBig,int num);
int main(int argc, char* argv[])
 char sBigBuf[16]={0};
GENERIC_READ, // Open for reading
                          // Do not share
      Ο,
      NULL,
                          // No security
      OPEN_EXISTING, // Existing file only
      FILE_ATTRIBUTE_NORMAL, // Normal file
                          // No template file
      NULL);
 if (hFile == INVALID_HANDLE_VALUE)
 return 1;
 DWORD dwBytesRead;
 ReadFile(hFile, sBigBuf, 16, &dwBytesRead, NULL);
 CloseHandle(hFile);
 for(int i=0; i< (dwBytesRead-2); i++)</pre>
 sBigBuf[i] +=sBigBuf[i+1];
 StackOVflow(sBigBuf,dwBytesRead);
 return 0;
```

```
void StackOVflow(char *sBig,int num)
{
  char sBuf[8]= {0};

  for(int i=0;i<num;i++)
  {
    sBuf[i] = sBig[i];
  }
  return;
}

void Hack()
{
  MessageBox(NULL, "CBASS(Cross-platform Binary Automated Symbolic-execution System) \n Hacking Demo ","*** You Have Been Owned!!!</pre>
```

```
***",0x00001010);
exit(-1);
}
```

Configuring the Tracer

Indicate mytaint.txt file content for the overflow.









