

BUUCTF Reverse/[ACTF新生赛2020]easyre

原创

这就是强者的世界么 于 2021-07-19 10:39:21 发布 4660 收藏

分类专栏: # BUUCTF Reverse

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[BUUCTF Reverse](#) 专栏收录该内容

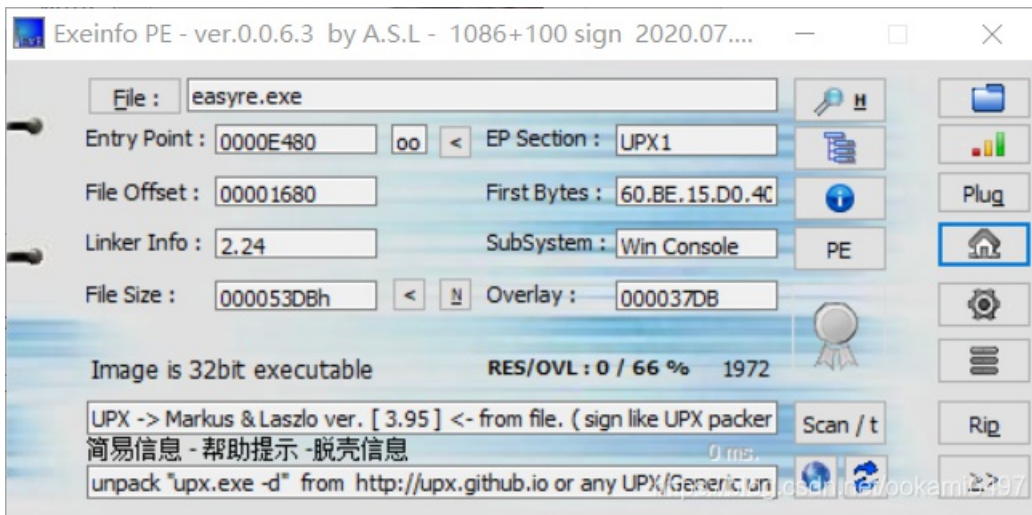
58 篇文章 2 订阅

订阅专栏

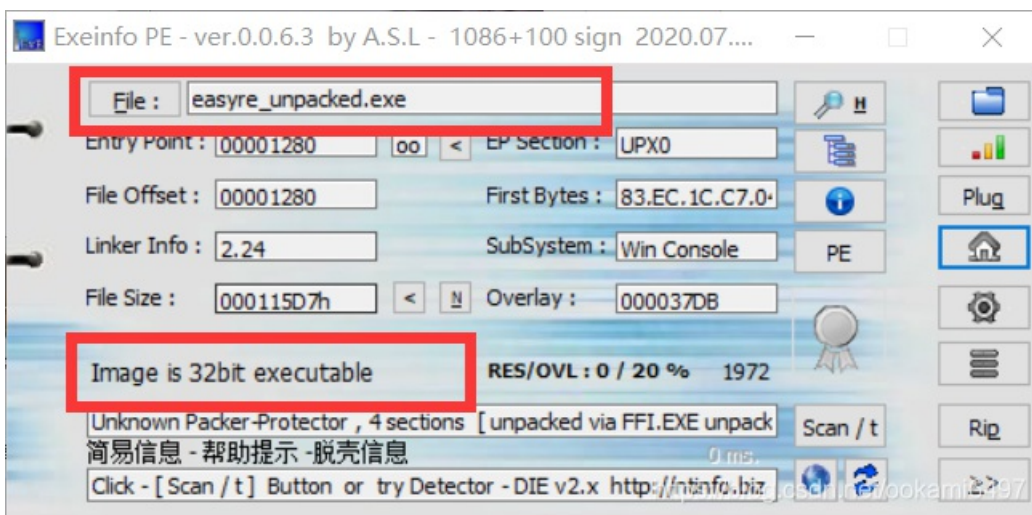
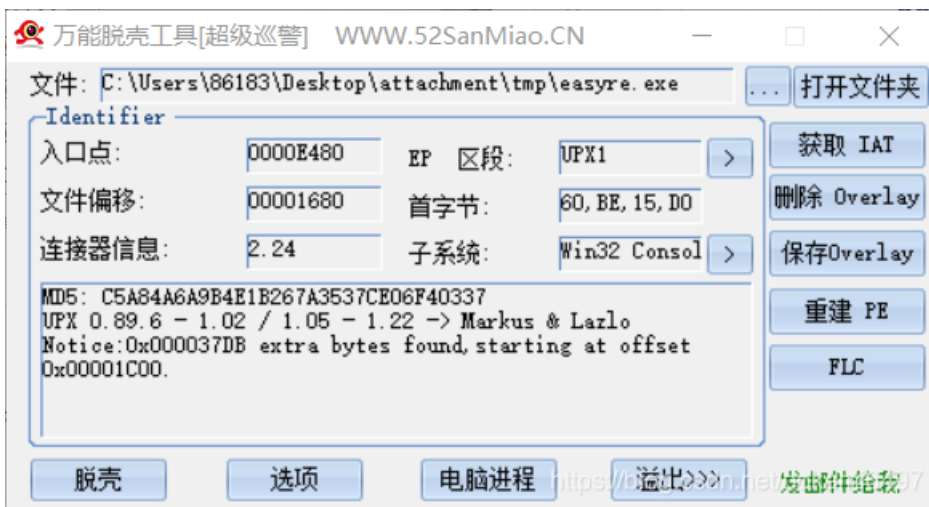
BUUCTF Reverse/[ACTF新生赛2020]easyre



发现UPX壳



进行脱壳



用IDA32位打开，找到main函数进行分析

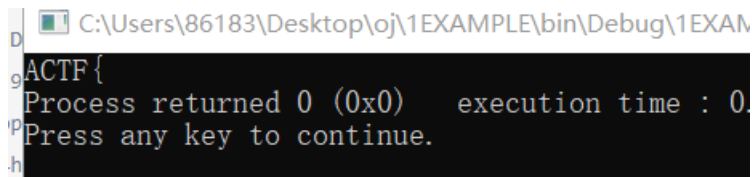
```

int __cdecl main(int argc, const char **argv, const char **envp)
{
    _BYTE v4[12]; // [esp+12h] [ebp-2Eh] BYREF
    _DWORD v5[3]; // [esp+1Eh] [ebp-22h]
    _BYTE v6[5]; // [esp+2Ah] [ebp-16h] BYREF
    int v7; // [esp+2Fh] [ebp-11h]
    int v8; // [esp+33h] [ebp-Dh]
    int v9; // [esp+37h] [ebp-9h]
    char v10; // [esp+3Bh] [ebp-5h]
    int i; // [esp+3Ch] [ebp-4h]

    sub_401A10();
    qmemcpy(v4, "F'\n,\"(I?+@", sizeof(v4));
    printf("Please input:");
    scanf("%s", v6);
    if ( v6[0] != 65 || v6[1] != 67 || v6[2] != 84 || v6[3] != 70 || v6[4] != 123 || v10 != 125 )
        return 0;
    v5[0] = v7;
    v5[1] = v8;
    v5[2] = v9;
    for ( i = 0; i <= 11; ++i )
    {
        if ( v4[i] != byte_402000[*((char *)v5 + i) - 1] )
            return 0;
    }
    printf("You are correct!");
    return 0;
}

```

将v6转成字符看看，得到ACTF{



```

D C:\Users\86183\Desktop\oj\1EXAMPLE\bin\Debug\1EXAM
g ACTF{
P Process returned 0 (0x0) execution time : 0.
.h Press any key to continue.

```

看一下v10的值，v10 = }

0111 1100	124	7C		
0111 1101	125	7D	}	
0111 1110	126	7E	~	

看到for循环，推测flag在v5中

```

for ( i = 0; i <= 11; ++i )
{
    if ( v4[i] != byte_402000[*((char *)v5 + i) - 1] )
        return 0;
}

```

跟进byte_402000，注意看清楚逗号

