# Unknown.exe

Jump into code in static disassembly then rename and comment on interesting assembly routines

## **String Anti Analysis**

String stacking: hide strings on the stack (push instructions)

• Values are little endian, LSB. Hex values appear backwards

Converting values of all sequential pushes from offset 00401151 to 00401188

## Looking for interesting strings

Interesting string: .rdata:00402064 0000000B C stage2.exe

· Which code is referencing this string

Reference label: aStage2Exe

xrefs menu



Jumping to selected cross reference. Address sub\_401000 will take you to where the string is referenced at 00401000.

```
.text:004010B0 push offset aStage2Exe ; "stage2.exe"
```

#### Trace back to the Start function

· Following the xrefs of the functions backwards until start function

First location label

```
.text:0040104C loc_40104C: ; CODE XREF: sub_401000+48↑j
```

· xref function name to follow the branch or jump instruction (branch or jump instruction is jbe or jmp)

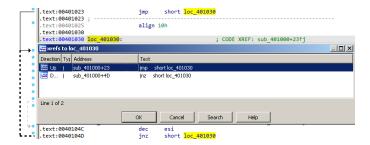
loc\_40104c branches to this location

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```
| .text:00401048 | jbe | short | loc_40104C | stext:0040104C | stext:0040104C | loc_40104C | loc_40104C | stext:0040104C | loc_40104C | loc_40104C
```

\*Note: keep track of where these branch statements occur as apart of the flow.

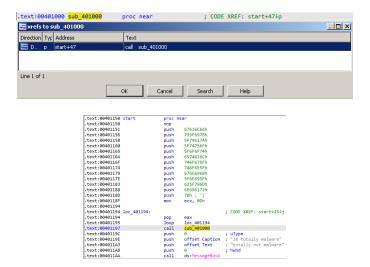
#### xref next location label



#### xref subroutine/function



## Start function (sub\_401000)



# Analyze function sub\_401000

• Need to capture when stage2.exe file is created and written

\*Note: Remember that functions have their arguments pushed onto the stack before the function is called. stage2.exe is concatenated together with the string referenced by the register esi

• esi is used as the first argument for <a href="CreateFileA">CreateFileA</a>

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Push instructions = arguments

Function called: CreateFileA

esi register containing the new string is used as an argument for a call to CreateProcessA

# Interesting routines using control flow instruction (branch, jumps, calls)

#### Mapping

- Start
- Call 401000
- Jmp @401023
- Jbe @401048
- Createfile @4010CB
- Create Process @401136

## Other interesting API function patterns:

- · Opening a file from the resource section
- FindResource
- SizeofResource
- LoadResource
- LockResource
- · Creating a file
- GetEnvironmentVariable
- CreateFile
- WriteFile
- CloseHandle
- Sleep
- Starting a new process
- CreateProcess

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