

ANALISI DINAMICA AVANZATA CON IDA

TASK

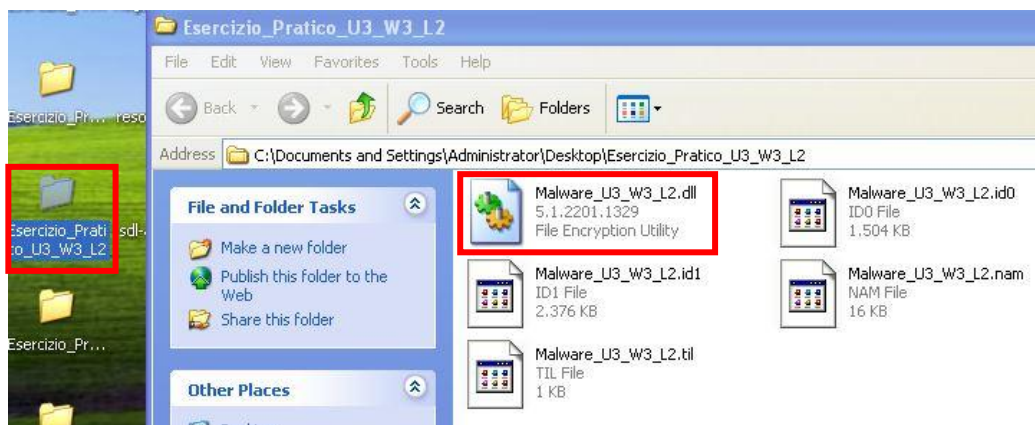
Lo scopo dell'esercizio di oggi è di acquisire esperienza con IDA, un tool fondamentale per l'analisi statica.

A tal proposito, con riferimento al malware chiamato «**Malware_U3_W3_L2**» presente all'interno della cartella «**Esercizio_Pratico_U3_W3_L2**» sul Desktop della macchina virtuale dedicata all'analisi dei malware, rispondere ai seguenti quesiti, utilizzando IDA Pro.

1. Individuare l'**indirizzo** della funzione **DLLMain** (così com'è, in esadecimale)
2. Dalla scheda «imports» individuare la funzione «**gethostbyname**». Qual è l'indirizzo dell'import?
3. Quante sono le variabili locali della **funzione** alla locazione di memoria 0x10001656?
4. Quanti sono, invece, i parametri della funzione sopra?
5. Inserire altre considerazioni macro livello sul malware (comportamento)

ANALISI E VALUTAZIONI

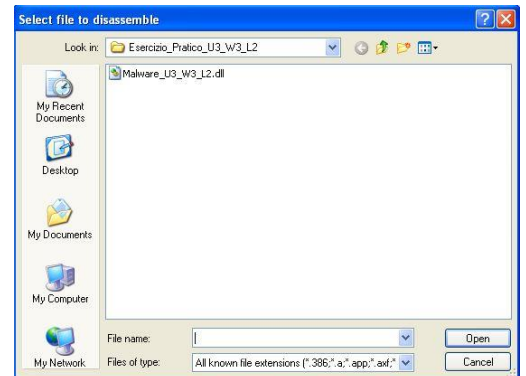
Come da task dobbiamo andare ad analizzare il malware trovatosi nella virtual box *Malware Analysis_Final* sul desktop nella cartella *Eserizio_Pratico_U3_W3_L2* come da immagine seguente:



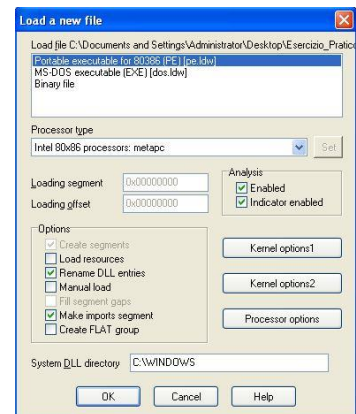
Successivamente andiamo ad aprire il tool fondamentale per l'analisi dinamica avanzata del nostro malware. Il tool **IDA Pro Free** sarà locato sul desktop, e all'apertura avremo la finestra come di seguito, da cui per aprire il file basterà cliccare sull'icona segnata:



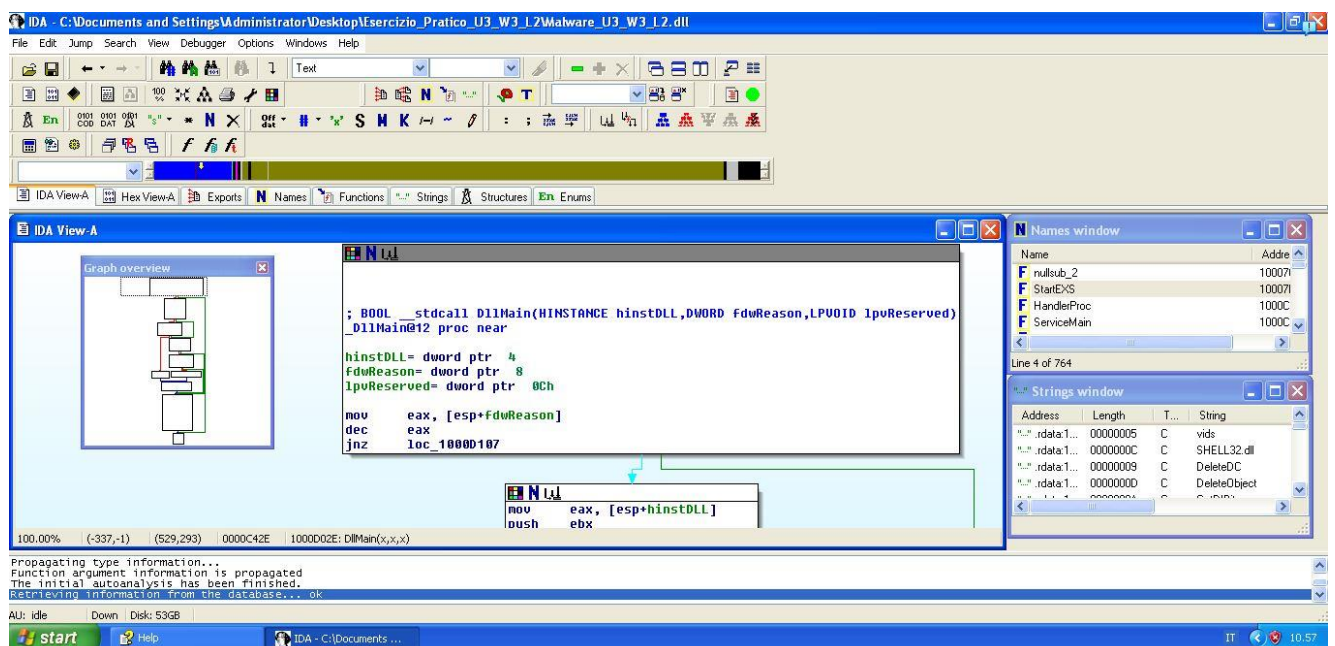
Successivamente dopo aver cliccato, ci apparirà la finestra per selezionare il file interessato, andiamo sul path e clicchiamo su *Open*.



All'apertura del file avremo una nuova finestra che ci spiega tutte le funzioni sul tool che utilizza, eventualmente sulla base della nostra ricerca possiamo scegliere i settaggi che preferiamo, dopo aver effettuato le modifiche eventuali proseguiamo cliccando su *OK*:



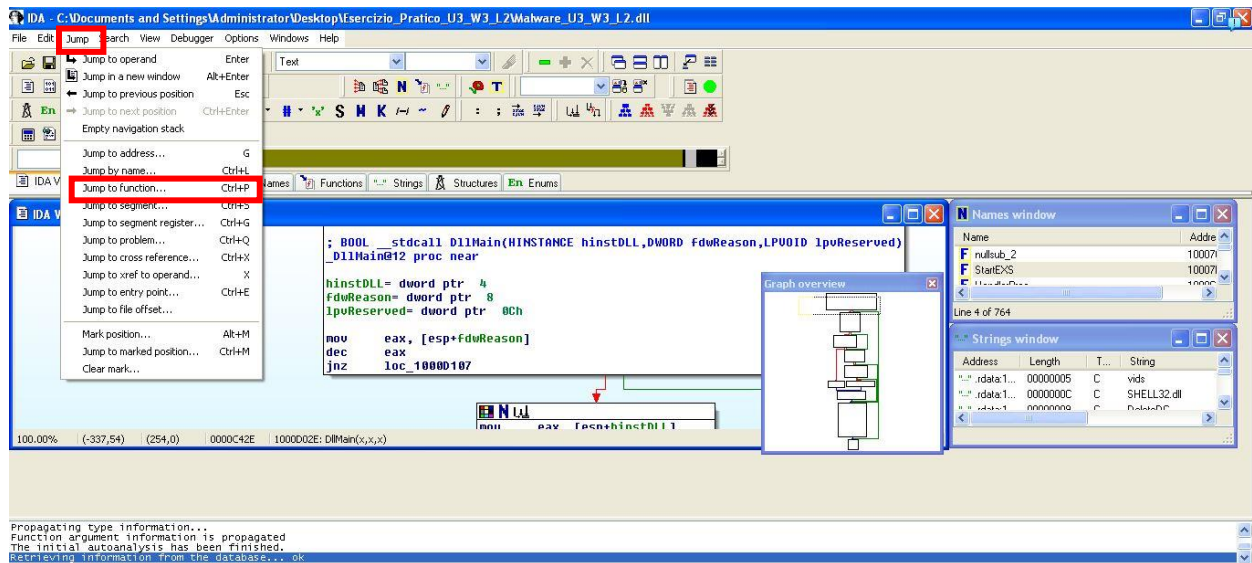
La grafica che ne viene fuori sarà di questo tipo:



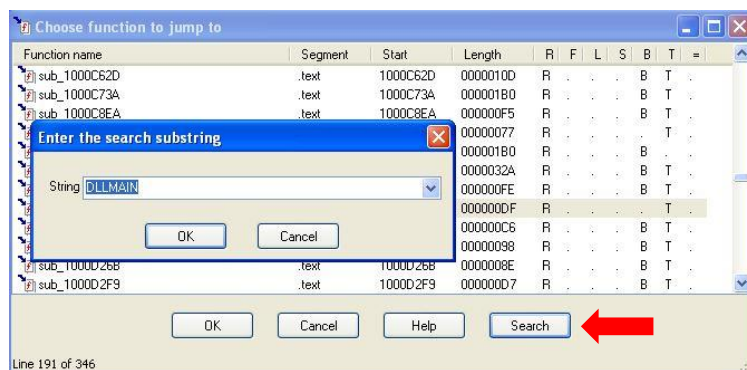
Esaminiamo ora i vari punti richiesti nelle task:

1. INDIVIDUARE L'INDIRIZZO DELLA FUNZIONE DLLMain

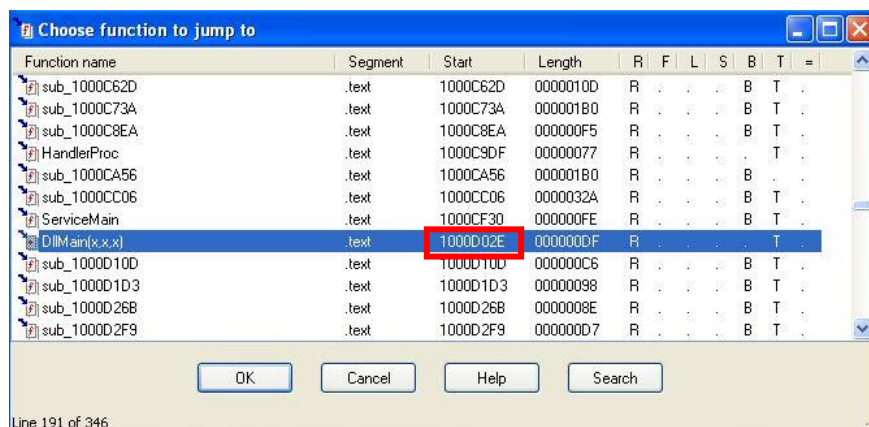
Al fine di soddisfare il primo punto, andiamo nella sezione jump (come indicato in figura) e selezioniamo il comando *jump to function*:



All'apertura avremo la finestra come in figura, selezioniamo *search* e digitiamo il nome della funzione di cui abbiamo bisogno, ovvero **DLLMain**:

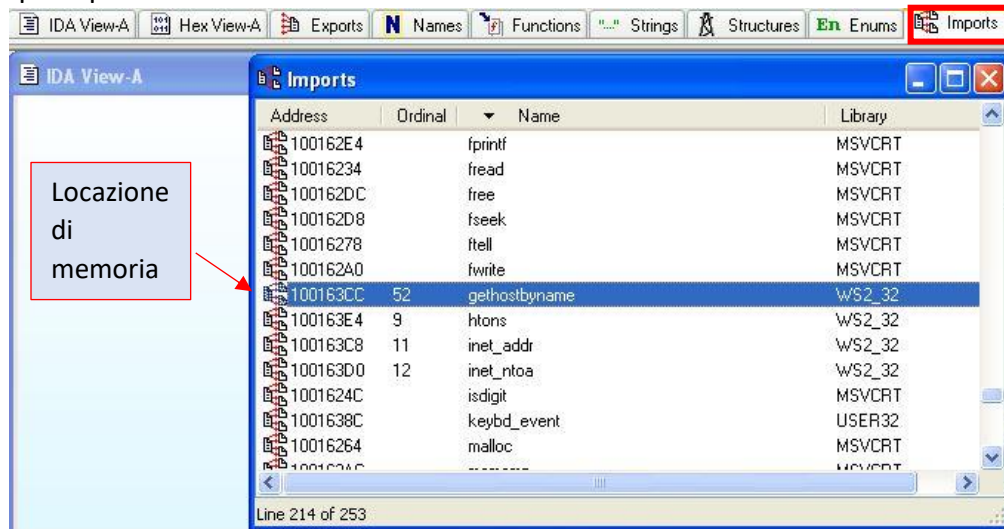


Il risultato ci porterà direttamente alla funzione cercata da cui possiamo stabilire che l'indirizzo di memoria ad essa associato è: **1000D02E**



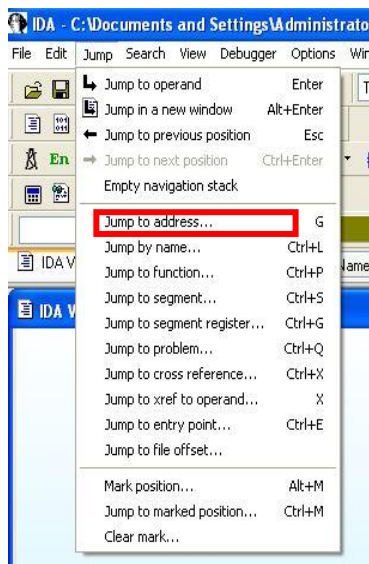
2. INDICARE LA LOCAZIONE DELLA FUNZIONE <<gethostbyname>>

In tal caso invece possiamo andare nella sezione *imports* (indicato in figura), selezioniamo Name in modo da mettere in ordine alfabetico e andiamo a cercarci la funzione interessata, dal quale possiamo enunciare che la sua locazione sarà: **100163CC**

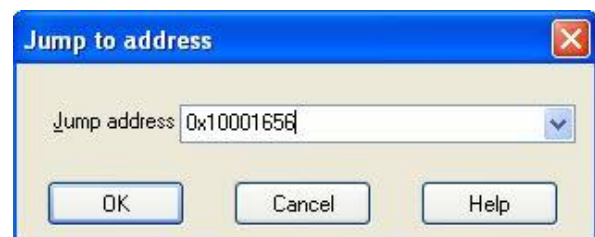


3. INDICARE LE VARIABILI LOCALI DELLA FUNZIONE ALLA LOCAZIONE 0x10001656

Come primo passo cerchiamo la locazione di memoria che abbiamo come dato dal comando *jump to address...*



Da cui alla nuova finestra che ci appare inseriamo la locazione:



Il risultato ottenuto ci porta direttamente alla locazione cercata, dal quale le variabili locali della funzione **Subroutine (sub_10001656)** sono:

```
.text:10001656 ; DWORD __stdcall sub_10001656(LPVOID)
.text:10001656 sub_10001656 proc near ; DATA XREF: DllMain(x,x,x)+C8↓o
.text:10001656
.text:10001656 var_675 = byte ptr -675h
.text:10001656 var_674 = dword ptr -674h
.text:10001656 hModule = dword ptr -670h
.text:10001656 timeout = timeval ptr -66Ch
.text:10001656 name = sockaddr ptr -664h
.text:10001656 var_654 = word ptr -654h
.text:10001656 in = in_addr ptr -650h
.text:10001656 Parameter = byte ptr -644h
.text:10001656 CommandLine = byte ptr -63Fh
.text:10001656 Data = byte ptr -638h
.text:10001656 var_544 = dword ptr -544h
.text:10001656 var_50C = dword ptr -50Ch
.text:10001656 var_500 = dword ptr -500h
.text:10001656 var_4FC = dword ptr -4FCh
.text:10001656 readfds = fd_set ptr -4BCh
.text:10001656 phkResult = HKEY_ ptr -3B8h
.text:10001656 var_3B0 = dword ptr -3B0h
.text:10001656 var_1A4 = dword ptr -1A4h
.text:10001656 var_194 = dword ptr -194h
.text:10001656 WSAData = WSAData ptr -190h
.text:10001656 arg_0 = dword ptr 4
```

In generale le Var locali sono ad un offset negativo rispetto al registro EBP. Per un totale di 20 variabili all'interno della funzione.

4. INDICARE I PARAMETRI DELLA FUNZIONE PRECEDENTE

Prendendo in considerazione la foto precedente l'unico parametro che ritroviamo è l'ultimo, ovvero:

```
.text:10001656 arg_0 = dword ptr 4
```

In generale i parametri si trovano si trovano ad un offset (differenza

rispetto ad un valore di riferimento) positivo rispetto ad EBP.

5. INDICARE IL COMPORTAMENTO DEL MALWARE

In conclusione andiamo ad ipotizzare il funzionamento del malware. Come prima cosa possiamo dedurre che il file ottiene la **persistenza**, in quanto ritroviamo le funzioni delle chiavi di registro in cui il file eseguibile va ad aprirle e a modificarle, così come ritroviamo anche la chiave di registro utilizzata dal malware per ottenere la persistenza (vedi figura):

The image shows a snippet of assembly code with several lines highlighted and annotated with arrows pointing to text boxes:

- Accesso alla chiave di registro** (green box): Points to the `ds:RegOpenKeyExA` instruction at address `10005669`.
- Chiave di registro per persistenza** (red box): Points to the `offset aSoftwareMicros` instruction at address `1000565F`.
- Modifica valore registro** (blue box): Points to the `ds:RegSetValueExA` instruction at address `10005682`.

The assembly code is as follows:

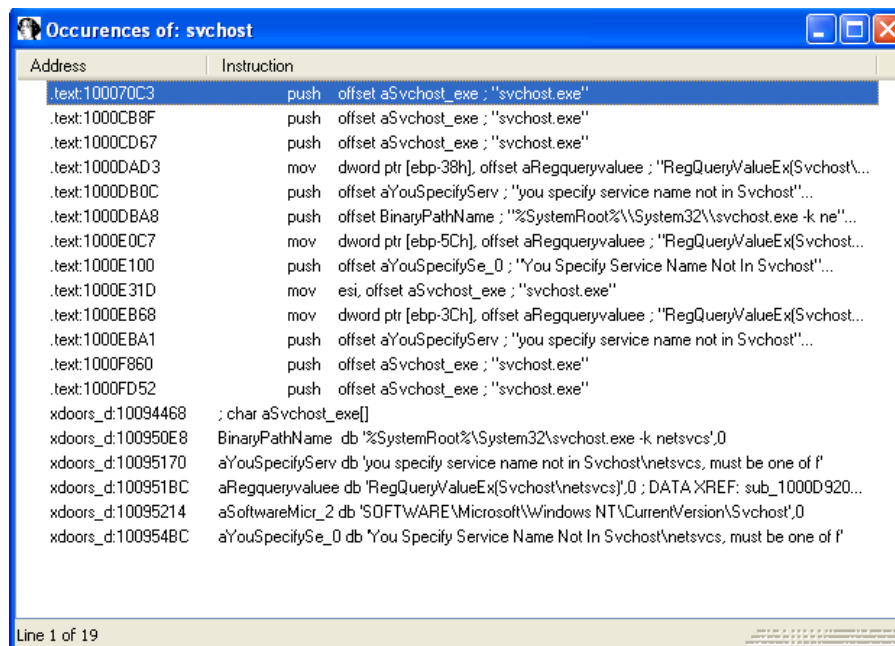
```
.text:1000564E      push     ebp
.text:1000564F      mov      ebp, esp
.text:10005651      push     ecx
.text:10005652      lea      eax, [ebp+hKey]
.text:10005655      push     esi
.text:10005656      push     eax                ; phkResult
.text:10005657      xor      esi, esi
.text:10005659      push     0F003Fh           ; samDesired
.text:1000565E      push     esi                ; ulOptions
.text:1000565F      push     offset aSoftwareMicros ; "SOFTWARE\\Microsoft\\Windows\\CurrentVersion\\...
.text:10005664      push     80000002h          ; nkey
.text:10005669      call     ds:RegOpenKeyExA
.text:1000566F      test     eax, eax
.text:10005671      jnz      short loc_1000568F
.text:10005673      lea      eax, [ebp+Data]
.text:10005676      push     4                  ; cbData
.text:10005678      push     eax                ; lpData
.text:10005679      push     4                  ; dwType
.text:1000567B      push     esi                ; Reserved
.text:1000567C      push     [ebp+lpValueName] ; lpValueName
.text:1000567F      push     [ebp+hKey]         ; hKey
.text:10005682      call     ds:RegSetValueExA
.text:10005688      test     eax, eax
.text:1000568A      jnz      short loc_1000568F
.text:1000568C      push     1
.text:1000568E      pop      esi
```

Successivamente possiamo identificare anche che il malware funge da backdoor, infatti cercando in *String Windows* la dicitura **backdoor** quello che ne viene fuori è proprio la sezione di dato in cui espressamente dice **“Backdoor Server Update Setup”**:

The image shows a debugger window with the **Strings window** open. The search results are filtered by the keyword **backdoor**. The following strings are listed:

- `\\.\backdoor_d1000300`
- `\\.\backdoor_d1000301`
- `\\.\backdoor_d1000302`
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Inoltre possiamo dire che il malware crea un processo in **system32/svchost** dove andrà a **nascondersi**:



Come ultima ipotesi possiamo dire che il malware crea anche una **remote shell** dal quale ottiene informazioni della macchina vittima, di fatti, da immagine seguente si può evincere come il malware effettua comando come ad esempio ipconfig:

