

Esercizio Epicode 30.11.2023

Identificare i costrutti noti nel seguente codice in assembly x86:

```
* .text:00401000      push    ebp |
* .text:00401001      mov     ebp, esp
* .text:00401003      push    ecx
* .text:00401004      push    0          ; dwReserved
* .text:00401006      push    0          ; lpdwFlags
* .text:00401008      call   ds:InternetGetConnectedState
* .text:0040100E      mov     [ebp+var_4], eax
* .text:00401011      cmp     [ebp+var_4], 0
* .text:00401015      jz      short loc_40102B
* .text:00401017      push    offset aSuccessInterne ; "Success: Internet Connection\n"
* .text:0040101C      call   sub_40105F
* .text:00401021      add     esp, 4
* .text:00401024      mov     eax, 1
* .text:00401029      jmp     short loc_40103A
* .text:0040102B ; -----
* .text:0040102B
```

Inizializzazione dello Stack

```
* .text:00401000      push    ebp |
* .text:00401001      mov     ebp, esp
```

Ebp entra nello stack e copia il registro ESP, ottenendo l'indirizzo corrente in cima allo stack.

Tramite push i valori sono passati allo stack

```
* .text:00401003      push    ecx
* .text:00401004      push    0          ; dwReserved
* .text:00401006      push    0          ; lpdwFlags
```

Costrutto IF

```
* .text:0040100E      mov     [ebp+var_4], eax
* .text:00401011      cmp     [ebp+var_4], 0
* .text:00401015      jz      short loc_40102B
```

IF true

```
* .text:0040101C      call   sub_40105F
* .text:00401021      add     esp, 4
* .text:00401024      mov     eax, 1
* .text:00401029      jmp     short loc_40103A
```