

# API hooking using the detours library

Intercepting API function calls

# What is API hooking?

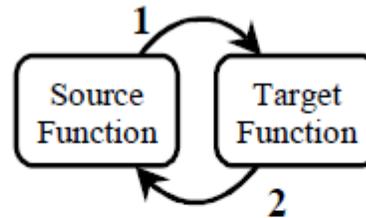
- To add functionality into a program where the source code is not available
- Make modifications at runtime without modifying the binary
- In game cheats, api hooking can intercept function which checks for player health and return 100% health
- Debuggers also use API hooking when you set breakpoints

# What is Detours?

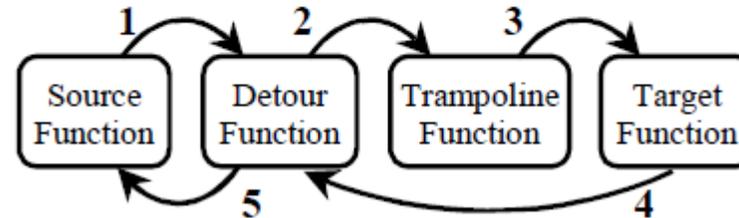
- A library for extending Win32 functions
- Intercepts Win32 functions by re-writing target function images
- Includes utilities to attach arbitrary DLLs and payloads to any Win32 binary

# Calling function with and without interception

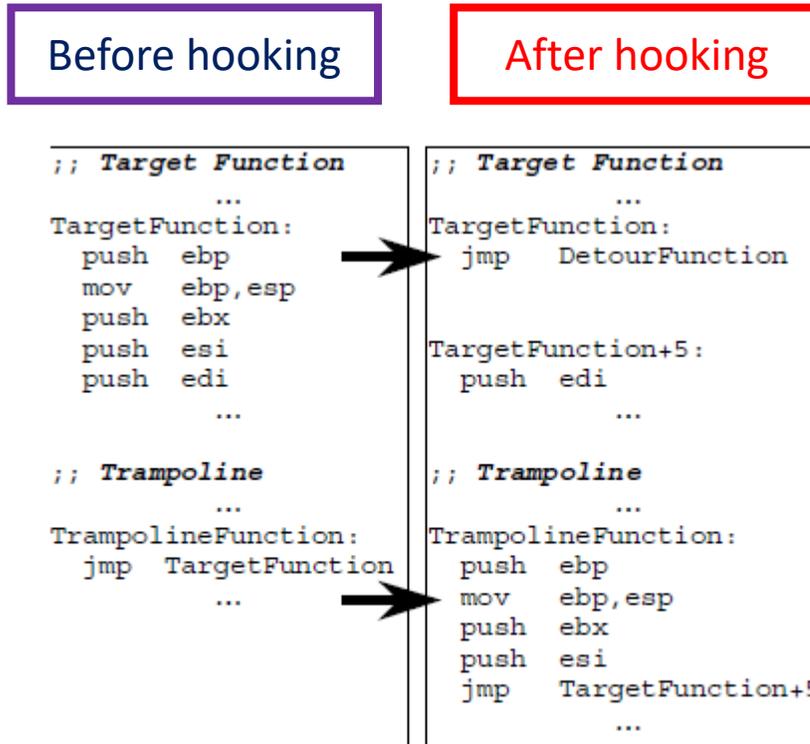
*Invocation without interception:*



*Invocation with interception:*



# Target and Trampoline Functions, before and after hooking



Thank you