

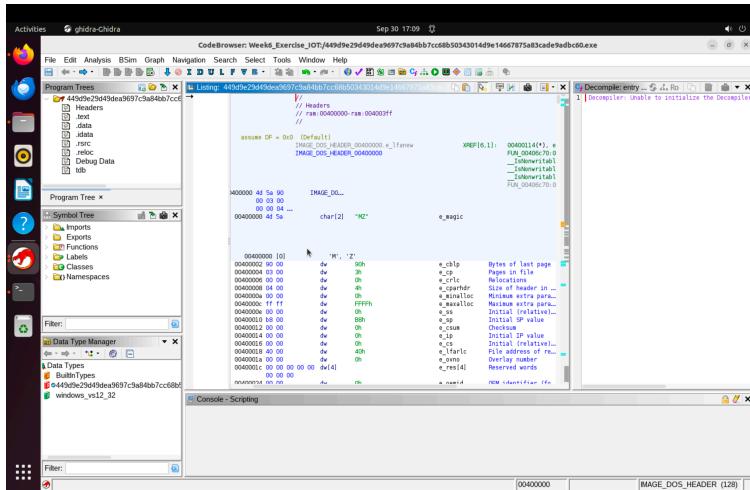
**In\_Class\_Exercise\_Week6**  
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**Part1:**

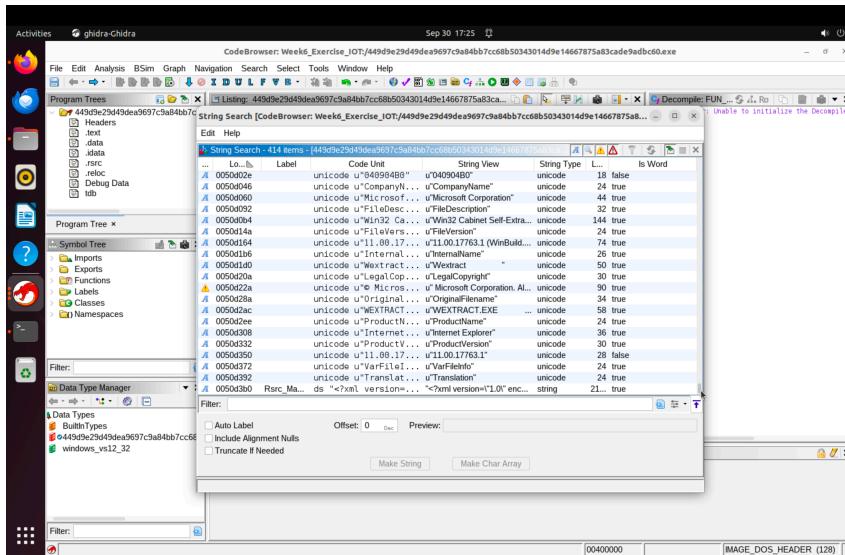
Set up the ghidra in linux machine of my virtual box, and analyzed the malware file that is provided and shared the screenshots here.

**Part2:**

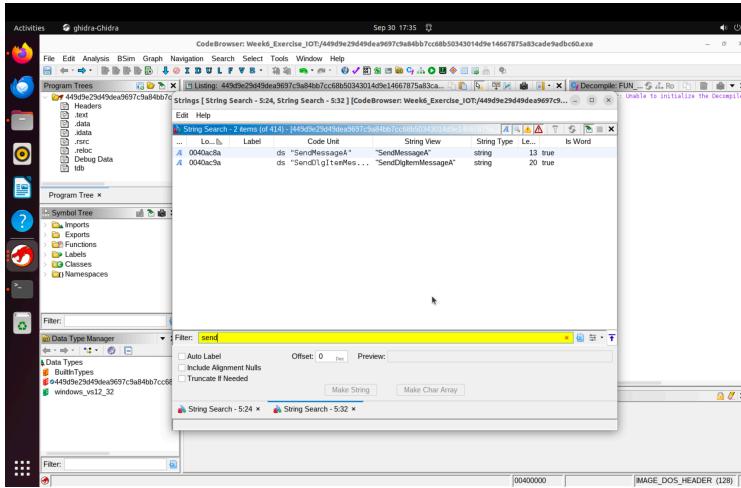
Opened the malware for analysis, the entry point is 00400000.



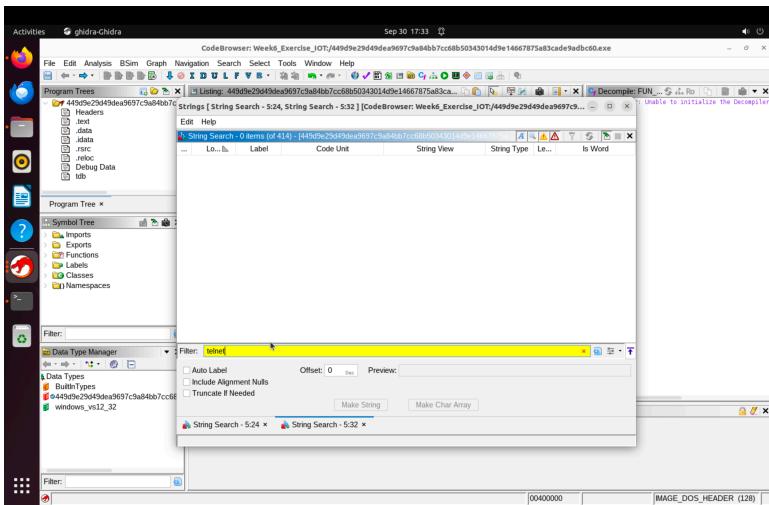
Hardcoded IP address or domains screenshots are mentioned below:  
It seems not hardcoded domains are mentioned in the strings.



Strings screenshot is mentioned below, DDOS is searched in strings and provided screenshot as well.



Screenshot fot telnet:



### Part 3:

1. IoT malware targets many CPU architectures and custom libc/firmware so binaries are often cross-compiled and stripped, making static analysis harder. They're also highly network/firmware-focused (protocol quirks, persistence in flash), so behavior often only appears at runtime or on the device.
2. Hardcoded IPs/domains, wget/curl/busybox/sh strings and Xrefs to socket/connect/sendto or execve were red flags. Tight loops, thread creation for repeated sends, and nearby decode routines (XOR/ROL) strongly suggested DDoS/C2 activity. But it seems I don't find any the strings folder
3. Defined Strings + Xrefs and the Decompiler let you quickly trace where network/command strings are used; searching for 32-bit constants found raw IP encodings.

Scripting (Python/Jython) to bulk-grep strings/refs and using the Symbol Tree/Imports to locate networking/syscall callers sped up triage greatly.

4. Packed/obfuscated or stripped binaries and custom syscall wrappers hid intent and required finding decoder stubs or emulating behavior. Static analysis missed runtime-only behavior (dynamic C2, unpacking), so safe sandboxed execution or instrumentation was needed to confirm network/flooding actions.