



Bhuvaneshwar-Naidu / DF_Lab

[Code](#)[Issues](#)[Pull requests](#)[Actions](#)[Projects](#)[Wiki](#)[Security](#)[DF_Lab / Exp_10_Ghidra Malware Analysis.md](#) 

Bhuvaneshwar-Naidu Update Exp_10_Ghidra Malware Analysis.md

2642332 · now



74 lines (51 loc) · 2.77 KB

[Preview](#)[Code](#)[Blame](#)[Raw](#)

Ex No-10: Use Ghidra to Disassemble and Analyze Malware Code

Aim

To disassemble and analyze a binary using Ghidra to identify potential malicious behavior and understand code functionality.

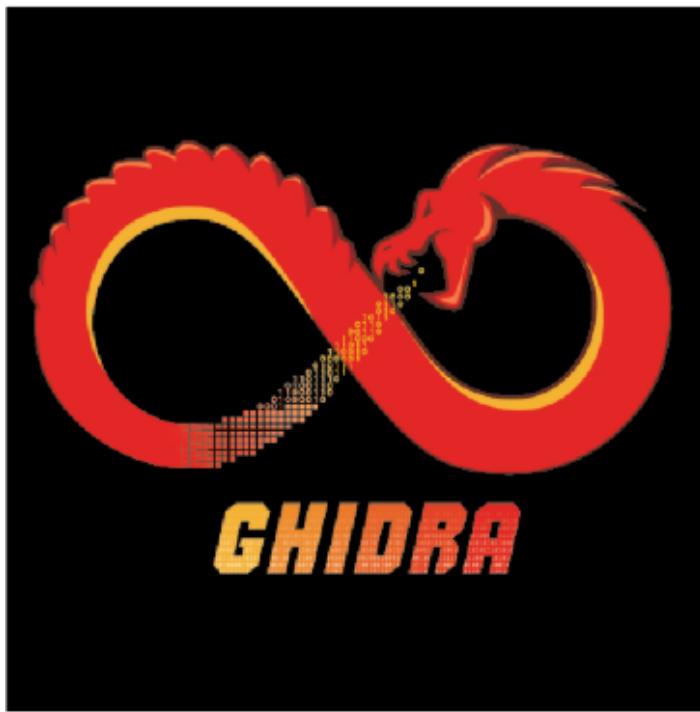
Description

Ghidra is a free reverse-engineering framework that helps analysts disassemble and decompile binaries to inspect assembly and pseudocode. This experiment covers loading a binary, running auto-analysis, locating key functions and strings, and deriving behavioral indicators.

Steps

1. Prepare Environment

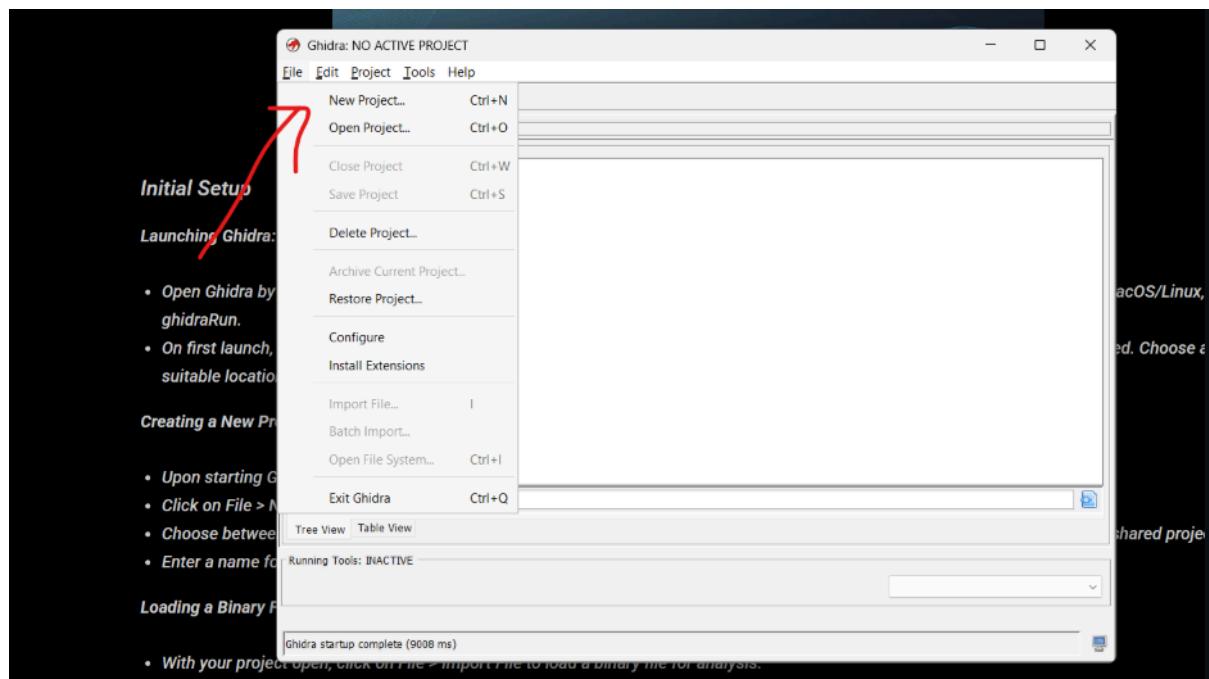
- Use an isolated VM (VirtualBox/VMware) with a snapshot.
- Install Ghidra and required dependencies.



Version 11.4.2
Build PUBLIC
2025-Aug-26 1351 EDT
Java Version 25

2. Load Binary

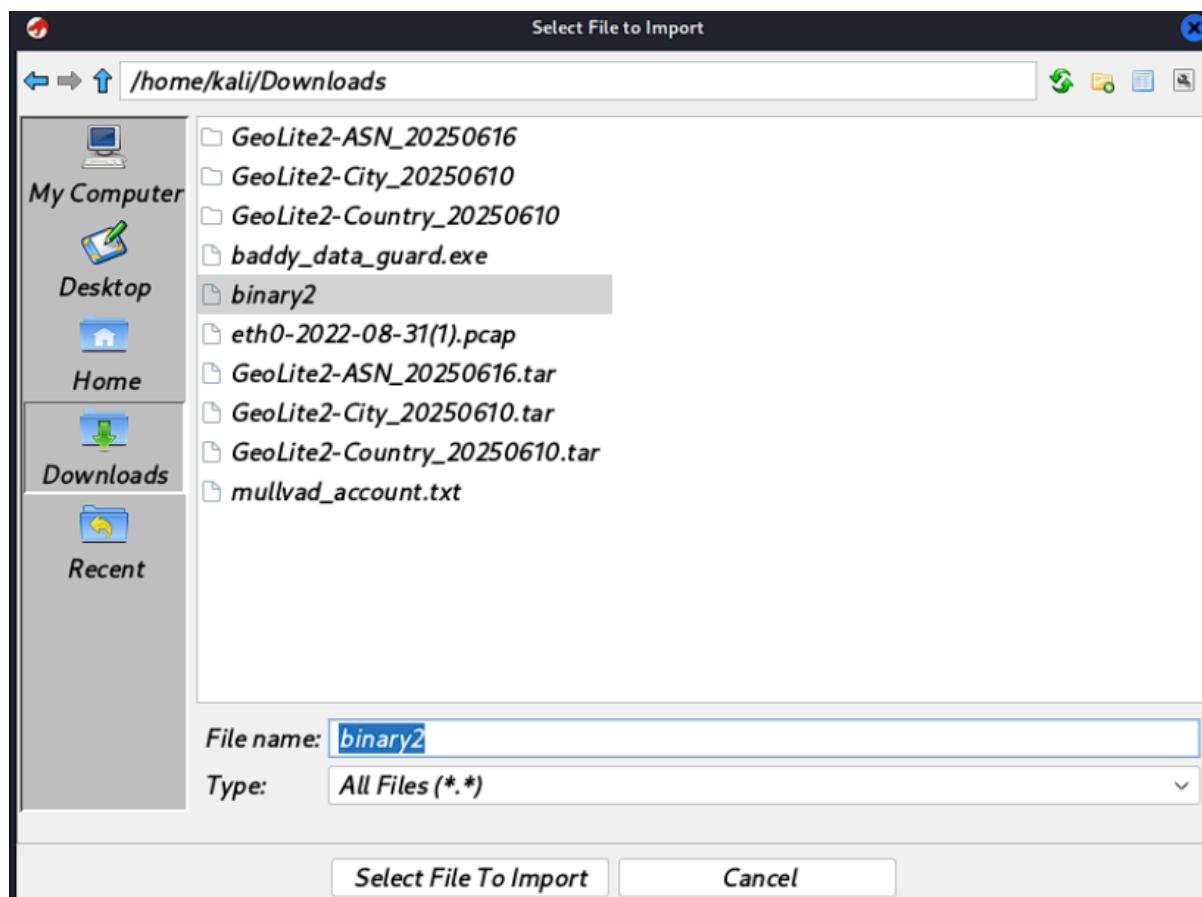
- Open Ghidra and create a new project.
- Import the target binary into the project.



3. Run Auto-Analysis

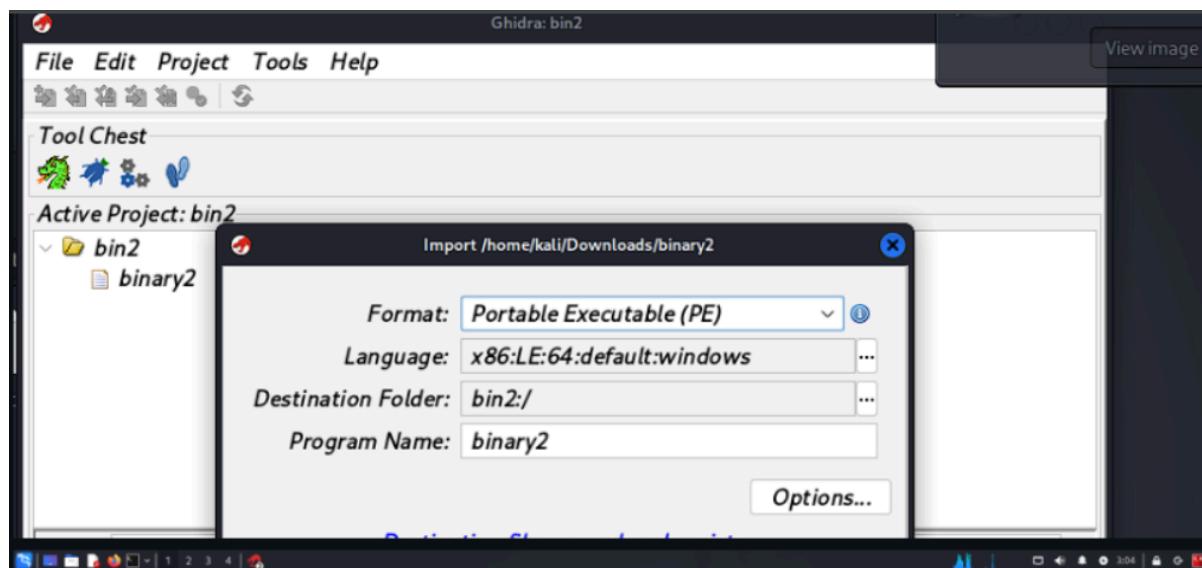
- Allow Ghidra to perform auto-analysis with default options.

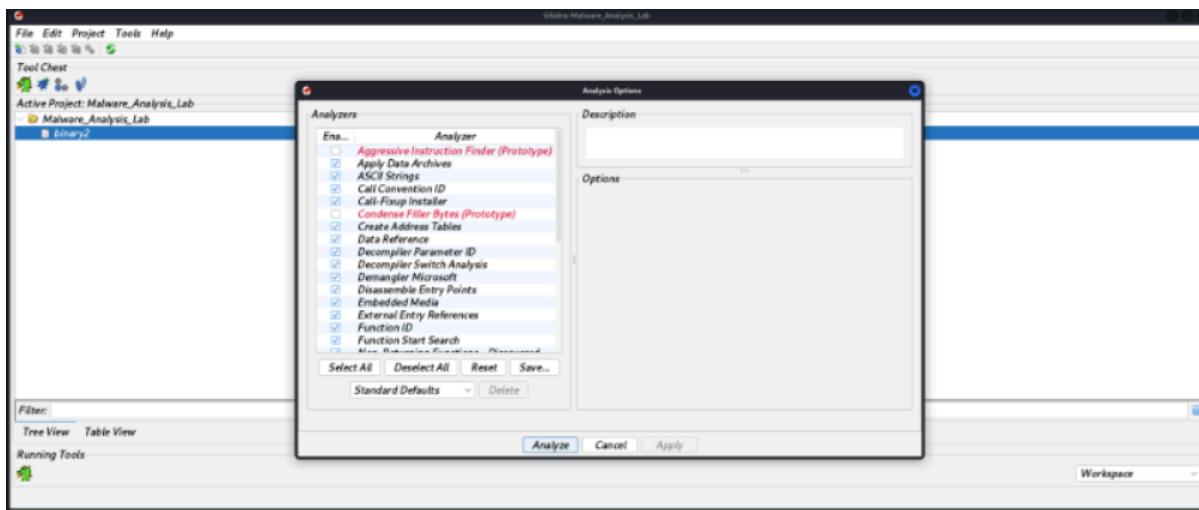
- Review the analysis log for any warnings.



4. String and Import Inspection

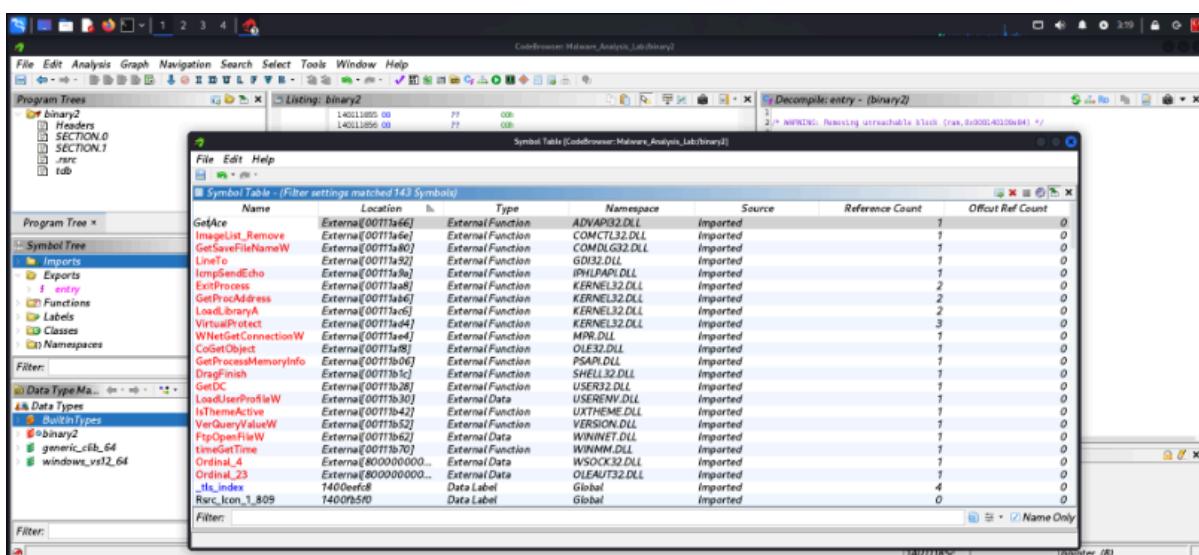
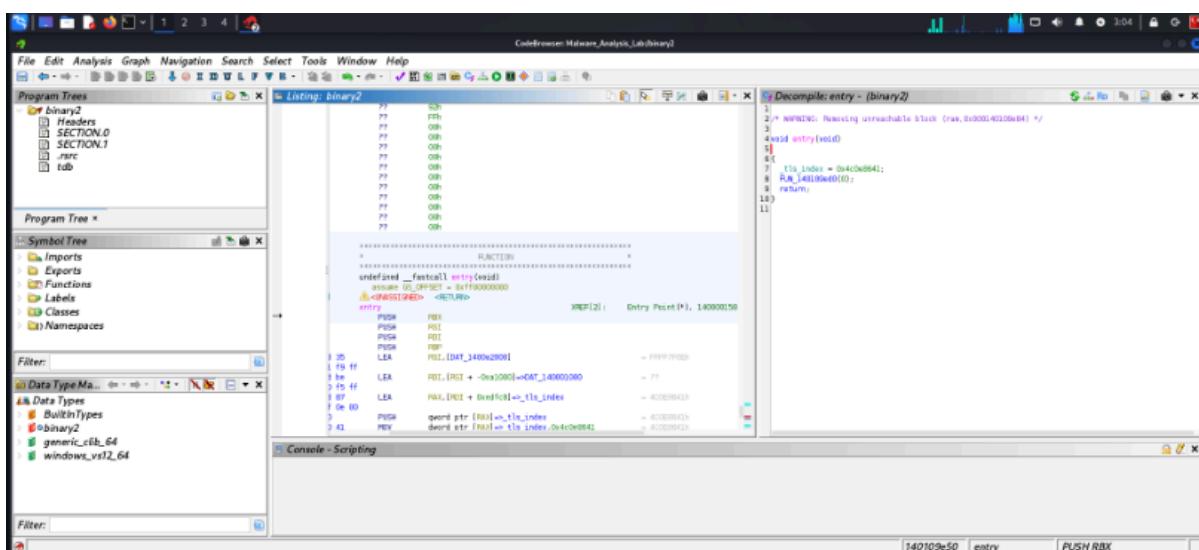
- Search for suspicious strings (URLs, file paths, commands).
- Check imported functions for networking, file, or process APIs.





5. Function Analysis

- Identify interesting functions via cross-references (xrefs).
- Use the Decompiler to read C-like pseudocode and annotate logic.
- Rename functions and variables for clarity.



Rubrics

Criteria	Mark Allotted	Mark Awarded
1. GitHub Activity & Submission Regularity	3	
2. Application of Forensic Tools & Practical Execution	3	
3. Documentation & Reporting	2	
4. Engagement, Problem-Solving & Team Collaboration	2	
Total	10	

Result

Loaded the binary into Ghidra, performed static analysis to identify key functions and strings, and produced a summarized report of observed behaviors and indicators of compromise (IoCs).