EX NO - 10: Use Ghidra to disassemble and analyze the malware code.

AIM:

To perform static and basic dynamic analysis of a benign sample binary using Linux command -line tools (file, strings, readelf, objdump, strace, itrace, Isof) and document observable behaviours such as file I/O, dynamic symbol resolution, and network activity (if any).

PROCEDURE:

The project provides a hands-on guide for malware analysis using Ghidra, teaching user to dissect binaries, understand assembly and high -level behaviors, and identify malicious functionalities. It includes step-by-step tutorials, automation scripts, safe sample

```
(kali@ kali) - [~/ghidra_cli_practice/output/report_evidence]

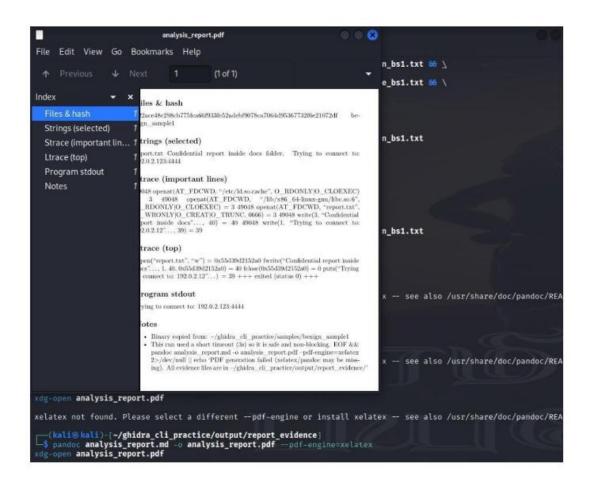
cd ~/ghidra_cli_practice/output/report_evidence % \

8 Nun the binary in background and capture its PID
./benign_sample1 & PID=$1 66 \

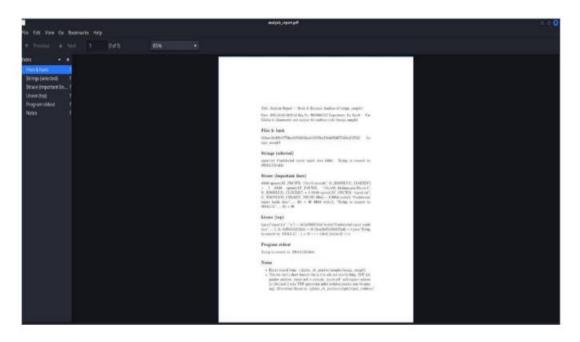
8 Collect dynamic traces
strace -o strace_bs1.txt -f -p $PID & wait $PID 66 \
ltrace -o ltrace_bs1.txt -f -p $PID & wait $PID 66 \
```

```
## Collect static analysis
file benign_sample1 > file_bs1.txt *** \
sha256sum benign_sample1 > sha256 bs1.txt *** \
strings -n 4 benign_sample1 > strings bs1.txt *** \
readelf -h benign_sample1 > readelf_header_bs1.txt ** \
readelf -s benign_sample1 > readelf_symbols_bs1.txt ** \
objdump -d -M intel benign_sample1 > objdump_full_bs1.txt ** \
objdump -d -M intel benign_sample1 | sed n / <main>:/,/^s/p' > objdump_main_bs1.txt ** \
\}
```

(kali@ kali)-[~/ghidra_cli_practice/output/report_evidence] sudo kill -9 \$PID 2>/dev/null



RESULTS:



```
(Nall& Nall) -[-/ghidra_cli_practice/ostput/report_evidence)

as Files a hash
022accade290cb775fca66f933fe52adebf9078ca7064d95367732f5e21072df benign_sample1

as Files a hash
022accade290cb775fca66f933fe52adebf9078ca7064d95367732f5e21072df benign_sample1

as Strings (salected)
report_tait
Confidential report inside docs folder.
Trying to connect to: 192.0.2.1234444

as Strace (important lines)
49040 openat(AT_FOROM, ~fter/id.so.cache*, 0.8DONLYIO_CLOEXEC) = 3
49040 openat(AT_FOROM, ~fter/id.so.cache*, 0.8DONLYIO_CLOEXEC) = 3
49040 openat(AT_FOROM, ~fter)oft.str, 0.8DONLYIO_CLOEXEC) = 3
49040 openat(AT_FOROM, ~fter)oft.str, 0.8DONLYIO_CLOEXEC) = 3
49040 write(AT_FOROM, 0.8DONLYIO_CLOEXEC) = 3
490
```