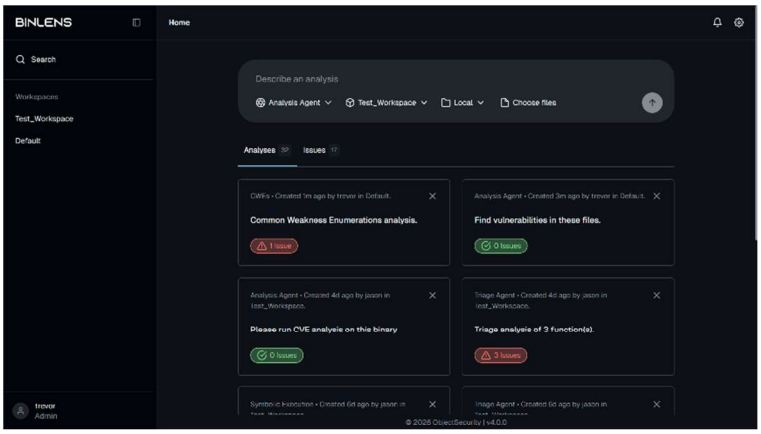
ObjectSecurity BinLens™ Automated Binary Vulnerability Analysis

ObjectSecurity™ BinLens™ 4.0.0

Automated Binary Vulnerability Analysis

Effortlessly uncover zero-day vulnerabilities in binaries and source code with cutting-edge accuracy and minimal false positives.



Why:

- SBOM generation is limited to detecting only known vulnerabilities in published software.
- Source code analysis and static application security testing (SAST) produce too many false-positives, slowing down remediation.
- Network scanning fails in cases where devices are not connected to the network.
- ~20-70% of OT/ICS assets are end-of-life/legacy devices, lack source, or there are no patches.
- Talented reverse engineers are hard to find and manual reverse engineering is time consuming.

What:

- Unlock deeper security insights with BinLens™ advanced binary analysis.
- Coordinates teams of AI agents to uncover potential zero-days with unmatched precision.
- Powered by automated symbolic execution, it excels at detecting memory-safety violations and other undefined behaviors in binaries, delivering a dramatically lower false-positive rate than competing tools.
- Automates key manual reverse engineering tasks like static analysis, disassembly, and decompilation.
- Primarily does not rely on known vulnerabilities.
- Flexible deployment—on-prem/offline or cloud.
- Supports 30+ CPU architectures, 50+ file formats.

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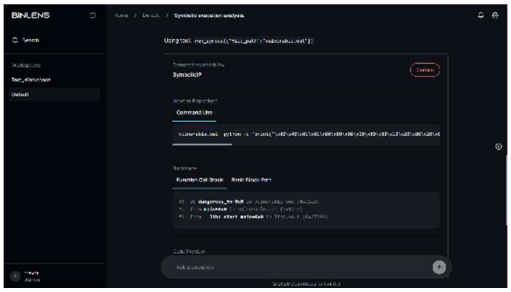

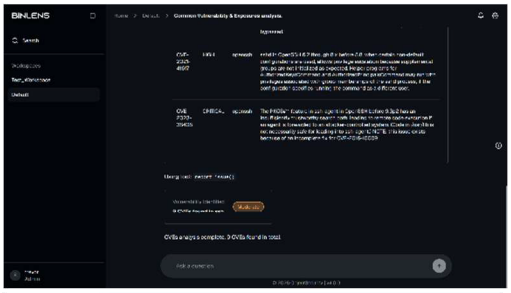

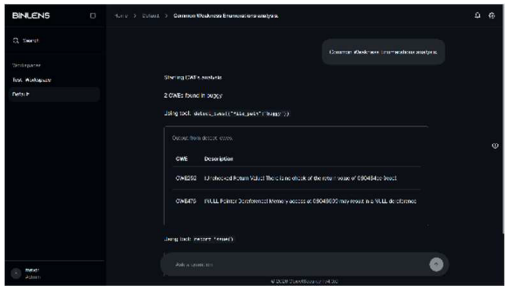

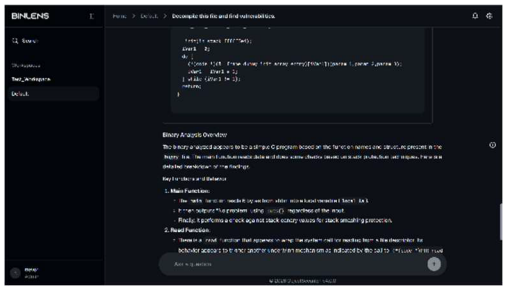

Features:

- **Agentic AI-Enabled Analysis:** orchestrate AI agent ensembles to detect vulnerabilities
- **Large Project Navigation:** supports projects comprised of 1000s of binaries/source code files
- **Stack Overflows:** detect unsafe writes to the stack frame
- **Heap Overflows:** detect unsafe writes to dynamically allocated memory
- **User Controlled Program Redirection:** detect user-arbitrary code execution
- **Externally Controlled String Violation:** detect unsafe use of the *printf* family, output vital data
- **Out-of-Bound Array Index:** detect out-of-bounds writes/reads
- **Double Free:** detect repeat frees
- **NULL Pointer Dereference**: detect NULL dereferences, unintended memory access
- **Use After Free**: detect the illegal reuse of freed memory
- **Cryptographic Issues:** embedded keys, entropy, encryption schemes
- **18,000 CVEs**: focused on known OT/ICS binary vulnerabilities
- **~25 CWEs:** primarily memory-safety related
- **Malware:** detect known malware signatures
- **Integration**: respond to version control events in GitLab/GitHub; emit automatic notifications

Who:

- **Red Teams, Reverse Engineers, Threat Hunters, and Vulnerability Researchers**
  Speed up your manual reverse engineering workflow. Dive deeper into binary executables using advanced automated analyses that are too unwieldy, expensive, and slow to perform manually.
- **DevSecOps Engineers, Product Security, QA Testers, and Software Developers**
  Detect vulnerabilities that SBOM generators and SAST tools miss. Integrate into your DevSecOps pipeline.
- **Operators, Buyers/Procurement**
  Reduce supply chain risks in your IT/OT/ICS environment. Require analysis in RFPs. Analyze during deployment and patching to ensure no vulnerabilities are introduced. Scan legacy devices to ensure they are safe, even if the manufacturer won't.

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