| Feature | Description |
|---|---|
| **binwalk** | binwalk signature and entropy analysis |
| **cpu architecture** | Identify CPU architecture |
| **crypto hints** | Find indicators of specific crypto algorithms |
| **crypto material** | Detects crypto material like SSH keys and SSL certificates |
| **cve lookup** | Lookup CVE vulnerabilities |
| **dtb finder** | Finds, extracts and saves the Flattended Device Tree into analysis result. |
| **elf analysis** | Analyzes and tags ELF executables and libraries |
| **exploit mitigations** | Analyses ELF binaries within a firmware for present exploit mitigation techniques |
| **file hashes** | Calculate different hash values of the file |
| **file system metadata** | Extract file system metadata (e.g. owner, group, etc.) from file system images contained in firmware |
| **file type** | Identify the file type |
| **hardware analysis** | Hardware Analysis Plug-in |
| **init systems** | Detect and analyze auto start services |
| **input vectors** | Determines possible input vectors of an ELF executable like stdin, network, or syscalls. |
| **interesting uris** | Filters all URIs identified inside the file based on relevance resulting in a higher probability of representing important resources. |
| **ip and uri finder** | Search file for IP addresses and URIs based on regular expressions. |
| **kernel config** | Heuristics to find and analyze Linux Kernel configurations via checksec and kconfig-hardened-check |
| **known vulnerabilities** | Rule based detection of known vulnerabilities like Heartbleed |
| **malware scanner** | Uses ClamAV to scan for known malware |
| **printable strings** | Extracts strings and their offsets from the files consisting of printable characters |
| **qemu exec** | Test binaries for executability in QEMU and display help if available |
| **software components** | Identify software components |
| **source code analysis** | Implements static code analysis for multiple scripting languages |
| **string evaluator** | Tries to sort strings based on usefulness |
| **tlsh** | Find files with similar tlsh and calculate similarity value |
| **unpacker** | Unpacks firmware and displays additional information |
| **users and passwords** | Search for UNIX, httpd, and mosquitto password files, parse them and try to crack the passwords |