

:travis.yml	Add openmalware to whitelist	2 years ago
CONTRIBUTING.md	Add to contributing guidelines	2 years ago
LICENSE	Add CC-BY-4.0 license	3 years ago
■ README.md	Add @silascutler MalPipe	17 hours ago
■ 恶意软件分析大合集.md	Chinese Translation update	a month ago

### **README.md**

# **Awesome Malware Analysis**



A curated list of awesome malware analysis tools and resources. Inspired by awesome-python and awesome-php.

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### **Malware Collection**

### **Anonymizers**

Web traffic anonymizers for analysts.

- Anonymouse.org A free, web based anonymizer.
- OpenVPN VPN software and hosting solutions.
- Privoxy An open source proxy server with some privacy features.
- Tor The Onion Router, for browsing the web without leaving traces of the client IP.

### **Honeypots**

Trap and collect your own samples.

- Conpot ICS/SCADA honeypot.
- Cowrie SSH honeypot, based on Kippo.
- DemoHunter Low interaction Distributed Honeypots.
- Dionaea Honeypot designed to trap malware.
- Glastopf Web application honeypot.
- Honeyd Create a virtual honeynet.
- HoneyDrive Honeypot bundle Linux distro.
- Honeytrap Opensource system for running, monitoring and managing honeypots.
- Mnemosyne A normalizer for honeypot data; supports Dionaea.
- Thug Low interaction honeyclient, for investigating malicious websites.

### **Malware Corpora**

Malware samples collected for analysis.

- Clean MX Realtime database of malware and malicious domains.
- Contagio A collection of recent malware samples and analyses.
- Exploit Database Exploit and shellcode samples.

- Infosec CERT-PA Malware samples collection and analysis.
- Malshare Large repository of malware actively scrapped from malicious sites.
- MalwareDB Malware samples repository.
- Open Malware Project Sample information and downloads. Formerly Offensive Computing.
- Ragpicker Plugin based malware crawler with pre-analysis and reporting functionalities
- theZoo Live malware samples for analysts.
- Tracker h3x Agregator for malware corpus tracker and malicious download sites.
- vduddu malware repo Collection of various malware files and source code.
- ViruSign Malware database that detected by many anti malware programs except ClamAV.
- VirusShare Malware repository, registration required.
- VX Vault Active collection of malware samples.
- Zeltser's Sources A list of malware sample sources put together by Lenny Zeltser.
- Zeus Source Code Source for the Zeus trojan leaked in 2011.

## **Open Source Threat Intelligence**

### **Tools**

Harvest and analyze IOCs.

- AbuseHelper An open-source framework for receiving and redistributing abuse feeds and threat intel.
- AlienVault Open Threat Exchange Share and collaborate in developing Threat Intelligence.
- Combine Tool to gather Threat Intelligence indicators from publicly available sources.
- Fileintel Pull intelligence per file hash.
- Hostintel Pull intelligence per host.

- IntelMQ A tool for CERTs for processing incident data using a message queue.
- IOC Editor A free editor for XML IOC files.
- iocextract Advanced Indicator of Compromise (IOC) extractor, Python library and command-line tool.
- ioc\_writer Python library for working with OpenIOC objects, from Mandiant.
- MalPipe Malware/IOC ingestion and processing engine, that enriches collected data.
- Massive Octo Spice Previously known as CIF (Collective Intelligence Framework). Aggregates IOCs from various lists.
   Curated by the CSIRT Gadgets Foundation.
- MISP Malware Information Sharing Platform curated by The MISP Project.
- Pulsedive Free, community-driven threat intelligence platform collecting IOCs from open-source feeds.
- Pyloce A Python OpenIOC editor.
- RisklQ Research, connect, tag and share IPs and domains. (Was PassiveTotal.)
- threataggregator Aggregates security threats from a number of sources, including some of those listed below in other resources.
- ThreatCrowd A search engine for threats, with graphical visualization.
- ThreatTracker A Python script to monitor and generate alerts based on IOCs indexed by a set of Google Custom Search Engines.
- TIQ-test Data visualization and statistical analysis of Threat Intelligence feeds.

#### **Other Resources**

Threat intelligence and IOC resources.

- Autoshun (list) Snort plugin and blocklist.
- Bambenek Consulting Feeds OSINT feeds based on malicious DGA algorithms.
- Fidelis Barncat Extensive malware config database (must request access).
- CI Army (list) Network security blocklists.

- Critical Stack- Free Intel Market Free intel aggregator with deduplication featuring 90+ feeds and over 1.2M indicators.
- Cybercrime tracker Multiple botnet active tracker.
- FireEye IOCs Indicators of Compromise shared publicly by FireEye.
- FireHOL IP Lists Analytics for 350+ IP lists with a focus on attacks, malware and abuse. Evolution, Changes History,
   Country Maps, Age of IPs listed, Retention Policy, Overlaps.
- hpfeeds Honeypot feed protocol.
- Infosec CERT-PA lists (IPs Domains URLs) Blocklist service.
- Internet Storm Center (DShield) Diary and searchable incident database, with a web API. (unofficial Python library).
- malc0de Searchable incident database.
- Malware Domain List Search and share malicious URLs.
- Metadefender Threat Intelligence Feeds List of the most looked up file hashes from Metadefender malware feed.
- OpenIOC Framework for sharing threat intelligence.
- Proofpoint Threat Intelligence Rulesets and more. (Formerly Emerging Threats.)
- Ransomware overview A list of ransomware overview with details, detection and prevention.
- STIX Structured Threat Information eXpression Standardized language to represent and share cyber threat information. Related efforts from MITRE:
  - CAPEC Common Attack Pattern Enumeration and Classification
  - CybOX Cyber Observables eXpression
  - MAEC Malware Attribute Enumeration and Characterization
  - TAXII Trusted Automated eXchange of Indicator Information
- ThreatMiner Data mining portal for threat intelligence, with search.
- threatRECON Search for indicators, up to 1000 free per month.
- Yara rules Yara rules repository.
- ZeuS Tracker ZeuS blocklists.

### **Detection and Classification**

#### Antivirus and other malware identification tools

- AnalyzePE Wrapper for a variety of tools for reporting on Windows PE files.
- Assemblyline A scalable distributed file analysis framework.
- BinaryAlert An open source, serverless AWS pipeline that scans and alerts on uploaded files based on a set of YARA rules.
- chkrootkit Local Linux rootkit detection.
- ClamAV Open source antivirus engine.
- Detect-It-Easy A program for determining types of files.
- ExifTool Read, write and edit file metadata.
- File Scanning Framework Modular, recursive file scanning solution.
- hashdeep Compute digest hashes with a variety of algorithms.
- Loki Host based scanner for IOCs.
- Malfunction Catalog and compare malware at a function level.
- Manalyze Static analyzer for PE executables.
- MASTIFF Static analysis framework.
- MultiScanner Modular file scanning/analysis framework
- nsrllookup A tool for looking up hashes in NIST's National Software Reference Library database.
- packerid A cross-platform Python alternative to PEiD.
- PEV A multiplatform toolkit to work with PE files, providing feature-rich tools for proper analysis of suspicious binaries.
- Rootkit Hunter Detect Linux rootkits.
- ssdeep Compute fuzzy hashes.
- totalhash.py Python script for easy searching of the TotalHash.cymru.com database.

- TrID File identifier.
- YARA Pattern matching tool for analysts.
- Yara rules generator Generate yara rules based on a set of malware samples. Also contains a good strings DB to avoid false positives.

### **Online Scanners and Sandboxes**

Web-based multi-AV scanners, and malware sandboxes for automated analysis.

- anlyz.io Online sandbox.
- any.run Online interactive sandbox.
- AndroTotal Free online analysis of APKs against multiple mobile antivirus apps.
- AVCaesar Malware.lu online scanner and malware repository.
- Cryptam Analyze suspicious office documents.
- Cuckoo Sandbox Open source, self hosted sandbox and automated analysis system.
- cuckoo-modified Modified version of Cuckoo Sandbox released under the GPL. Not merged upstream due to legal concerns by the author.
- cuckoo-modified-api A Python API used to control a cuckoo-modified sandbox.
- DeepViz Multi-format file analyzer with machine-learning classification.
- detux A sandbox developed to do traffic analysis of Linux malwares and capturing IOCs.
- DRAKVUF Dynamic malware analysis system.
- firmware.re Unpacks, scans and analyzes almost any firmware package.
- HaboMalHunter An Automated Malware Analysis Tool for Linux ELF Files.
- Hybrid Analysis Online malware analysis tool, powered by VxSandbox.
- Intezer Detect, analyze, and categorize malware by identifying code reuse and code similarities.

- IRMA An asynchronous and customizable analysis platform for suspicious files.
- Joe Sandbox Deep malware analysis with Joe Sandbox.
- Jotti Free online multi-AV scanner.
- Limon Sandbox for Analyzing Linux Malware.
- Malheur Automatic sandboxed analysis of malware behavior.
- malsub A Python RESTful API framework for online malware and URL analysis services.
- Malware config Extract, decode and display online the configuration settings from common malwares.
- Malwr Free analysis with an online Cuckoo Sandbox instance.
- Metadefender Scan a file, hash or IP address for malware (free).
- NetworkTotal A service that analyzes pcap files and facilitates the quick detection of viruses, worms, trojans, and all kinds of malware using Suricata configured with EmergingThreats Pro.
- Noriben Uses Sysinternals Procmon to collect information about malware in a sandboxed environment.
- PacketTotal PacketTotal is an online engine for analyzing .pcap files, and visualizing the network traffic within.
- PDF Examiner Analyse suspicious PDF files.
- ProcDot A graphical malware analysis tool kit.
- Recomposer A helper script for safely uploading binaries to sandbox sites.
- sandboxapi Python library for building integrations with several open source and commercial malware sandboxes.
- SEE Sandboxed Execution Environment (SEE) is a framework for building test automation in secured Environments.
- SEKOIA Dropper Analysis Online dropper analysis (Js, VBScript, Microsoft Office, PDF).
- VirusTotal Free online analysis of malware samples and URLs
- Visualize Logs Open source visualization library and command line tools for logs. (Cuckoo, Procmon, more to come...)
- Zeltser's List Free automated sandboxes and services, compiled by Lenny Zeltser.

## **Domain Analysis**

Inspect domains and IP addresses.

- badips.com Community based IP blacklist service.
- boomerang A tool designed for consistent and safe capture of off network web resources.
- Cymon Threat intelligence tracker, with IP/domain/hash search.
- Desenmascara.me One click tool to retrieve as much metadata as possible for a website and to assess its good standing.
- Dig Free online dig and other network tools.
- dnstwist Domain name permutation engine for detecting typo squatting, phishing and corporate espionage.
- IPinfo Gather information about an IP or domain by searching online resources.
- Machinae OSINT tool for gathering information about URLs, IPs, or hashes. Similar to Automator.
- mailchecker Cross-language temporary email detection library.
- MaltegoVT Maltego transform for the VirusTotal API. Allows domain/IP research, and searching for file hashes and scan reports.
- Multi rbl Multiple DNS blacklist and forward confirmed reverse DNS lookup over more than 300 RBLs.
- NormShield Services Free API Services for detecting possible phishing domains, blacklisted ip addresses and breached accounts.
- SpamCop IP based spam block list.
- SpamHaus Block list based on domains and IPs.
- Sucuri SiteCheck Free Website Malware and Security Scanner.
- Talos Intelligence Search for IP, domain or network owner. (Previously SenderBase.)
- TekDefense Automater OSINT tool for gathering information about URLs, IPs, or hashes.
- URLQuery Free URL Scanner.
- urlscan.io Free URL Scanner & domain information.
- Whois DomainTools free online whois search.

- Zeltser's List Free online tools for researching malicious websites, compiled by Lenny Zeltser.
- ZScalar Zulu Zulu URL Risk Analyzer.

### **Browser Malware**

Analyze malicious URLs. See also the domain analysis and documents and shellcode sections.

- Firebug Firefox extension for web development.
- Java Decompiler Decompile and inspect Java apps.
- Java IDX Parser Parses Java IDX cache files.
- JSDetox JavaScript malware analysis tool.
- jsunpack-n A javascript unpacker that emulates browser functionality.
- Krakatau Java decompiler, assembler, and disassembler.
- Malzilla Analyze malicious web pages.
- RABCDAsm A "Robust ActionScript Bytecode Disassembler."
- swftools Tools for working with Adobe Flash files.
- xxxswf A Python script for analyzing Flash files.

### **Documents and Shellcode**

Analyze malicious JS and shellcode from PDFs and Office documents. See also the browser malware section.

- AnalyzePDF A tool for analyzing PDFs and attempting to determine whether they are malicious.
- box-js A tool for studying JavaScript malware, featuring JScript/WScript support and ActiveX emulation.
- diStorm Disassembler for analyzing malicious shellcode.
- JS Beautifier JavaScript unpacking and deobfuscation.

- JS Deobfuscator Deobfuscate simple Javascript that use eval or document.write to conceal its code.
- libemu Library and tools for x86 shellcode emulation.
- malpdfobj Deconstruct malicious PDFs into a JSON representation.
- OfficeMalScanner Scan for malicious traces in MS Office documents.
- olevba A script for parsing OLE and OpenXML documents and extracting useful information.
- Origami PDF A tool for analyzing malicious PDFs, and more.
- PDF Tools pdfid, pdf-parser, and more from Didier Stevens.
- PDF X-Ray Lite A PDF analysis tool, the backend-free version of PDF X-RAY.
- peepdf Python tool for exploring possibly malicious PDFs.
- QuickSand QuickSand is a compact C framework to analyze suspected malware documents to identify exploits in streams of different encodings and to locate and extract embedded executables.
- Spidermonkey Mozilla's JavaScript engine, for debugging malicious JS.

## File Carving

For extracting files from inside disk and memory images.

- bulk\_extractor Fast file carving tool.
- EVTXtract Carve Windows Event Log files from raw binary data.
- Foremost File carving tool designed by the US Air Force.
- hachoir3 Hachoir is a Python library to view and edit a binary stream field by field.
- Scalpel Another data carving tool.
- SFlock Nested archive extraction/unpacking (used in Cuckoo Sandbox).

### **Deobfuscation**

Reverse XOR and other code obfuscation methods.

- Balbuzard A malware analysis tool for reversing obfuscation (XOR, ROL, etc) and more.
- de4dot .NET deobfuscator and unpacker.
- ex\_pe\_xor & iheartxor Two tools from Alexander Hanel for working with single-byte XOR encoded files.
- FLOSS The FireEye Labs Obfuscated String Solver uses advanced static analysis techniques to automatically deobfuscate strings from malware binaries.
- NoMoreXOR Guess a 256 byte XOR key using frequency analysis.
- PackerAttacker A generic hidden code extractor for Windows malware.
- unpacker Automated malware unpacker for Windows malware based on WinAppDbg.
- unxor Guess XOR keys using known-plaintext attacks.
- VirtualDeobfuscator Reverse engineering tool for virtualization wrappers.
- XORBruteForcer A Python script for brute forcing single-byte XOR keys.
- XORSearch & XORStrings A couple programs from Didier Stevens for finding XORed data.
- xortool Guess XOR key length, as well as the key itself.

## **Debugging and Reverse Engineering**

Disassemblers, debuggers, and other static and dynamic analysis tools.

- angr Platform-agnostic binary analysis framework developed at UCSB's Seclab.
- bamfdetect Identifies and extracts information from bots and other malware.
- BAP Multiplatform and open source (MIT) binary analysis framework developed at CMU's Cylab.
- BARF Multiplatform, open source Binary Analysis and Reverse engineering Framework.
- binnavi Binary analysis IDE for reverse engineering based on graph visualization.
- Binary ninja A reversing engineering platform that is an alternative to IDA.

- Binwalk Firmware analysis tool.
- Bokken GUI for Pyew and Radare. (mirror)
- Capstone Disassembly framework for binary analysis and reversing, with support for many architectures and bindings in several languages.
- codebro Web based code browser using clang to provide basic code analysis.
- DECAF (Dynamic Executable Code Analysis Framework) A binary analysis platform based on QEMU. DroidScope is now an extension to DECAF.
- dnSpy .NET assembly editor, decompiler and debugger.
- Evan's Debugger (EDB) A modular debugger with a Qt GUI.
- Fibratus Tool for exploration and tracing of the Windows kernel.
- FPort Reports open TCP/IP and UDP ports in a live system and maps them to the owning application.
- GDB The GNU debugger.
- GEF GDB Enhanced Features, for exploiters and reverse engineers.
- hackers-grep A utility to search for strings in PE executables including imports, exports, and debug symbols.
- Hopper The macOS and Linux Disassembler.
- IDA Pro Windows disassembler and debugger, with a free evaluation version.
- Immunity Debugger Debugger for malware analysis and more, with a Python API.
- ILSpy ILSpy is the open-source .NET assembly browser and decompiler.
- Kaitai Struct DSL for file formats / network protocols / data structures reverse engineering and dissection, with code generation for C++, C#, Java, JavaScript, Perl, PHP, Python, Ruby.
- LIEF LIEF provides a cross-platform library to parse, modify and abstract ELF, PE and MachO formats.
- Itrace Dynamic analysis for Linux executables.
- objdump Part of GNU binutils, for static analysis of Linux binaries.
- OllyDbg An assembly-level debugger for Windows executables.

- PANDA Platform for Architecture-Neutral Dynamic Analysis.
- PEDA Python Exploit Development Assistance for GDB, an enhanced display with added commands.
- pestudio Perform static analysis of Windows executables.
- Pharos The Pharos binary analysis framework can be used to perform automated static analysis of binaries.
- plasma Interactive disassembler for x86/ARM/MIPS.
- PPEE (puppy) A Professional PE file Explorer for reversers, malware researchers and those who want to statically inspect PE files in more detail.
- Process Explorer Advanced task manager for Windows.
- Process Hacker Tool that monitors system resources.
- Process Monitor Advanced monitoring tool for Windows programs.
- PSTools Windows command-line tools that help manage and investigate live systems.
- Pyew Python tool for malware analysis.
- PyREBox Python scriptable reverse engineering sandbox by the Talos team at Cisco.
- QKD QEMU with embedded WinDbg server for stealth debugging.
- Radare2 Reverse engineering framework, with debugger support.
- RegShot Registry compare utility that compares snapshots.
- RetDec Retargetable machine-code decompiler with an online decompilation service and API that you can use in your tools.
- ROPMEMU A framework to analyze, dissect and decompile complex code-reuse attacks.
- SMRT Sublime Malware Research Tool, a plugin for Sublime 3 to aid with malware analyis.
- strace Dynamic analysis for Linux executables.
- Triton A dynamic binary analysis (DBA) framework.
- Udis86 Disassembler library and tool for x86 and x86 64.
- Vivisect Python tool for malware analysis.

- WinDbg multipurpose debugger for the Microsoft Windows computer operating system, used to debug user mode applications, device drivers, and the kernel-mode memory dumps.
- X64dbg An open-source x64/x32 debugger for windows.

### **Network**

#### Analyze network interactions.

- Bro Protocol analyzer that operates at incredible scale; both file and network protocols.
- BroYara Use Yara rules from Bro.
- CapTipper Malicious HTTP traffic explorer.
- chopshop Protocol analysis and decoding framework.
- CloudShark Web-based tool for packet analysis and malware traffic detection.
- Fiddler Intercepting web proxy designed for "web debugging."
- Hale Botnet C&C monitor.
- Haka An open source security oriented language for describing protocols and applying security policies on (live) captured traffic.
- HTTPReplay Library for parsing and reading out PCAP files, including TLS streams using TLS Master Secrets (used in Cuckoo Sandbox).
- INetSim Network service emulation, useful when building a malware lab.
- Laika BOSS Laika BOSS is a file-centric malware analysis and intrusion detection system.
- Malcom Malware Communications Analyzer.
- Maltrail A malicious traffic detection system, utilizing publicly available (black)lists containing malicious and/or generally suspicious trails and featuring an reporting and analysis interface.
- mitmproxy Intercept network traffic on the fly.

- Moloch IPv4 traffic capturing, indexing and database system.
- NetworkMiner Network forensic analysis tool, with a free version.
- ngrep Search through network traffic like grep.
- PcapViz Network topology and traffic visualizer.
- Python ICAP Yara An ICAP Server with yara scanner for URL or content.
- Squidmagic squidmagic is a tool designed to analyze a web-based network traffic to detect central command and control (C&C) servers and malicious sites, using Squid proxy server and Spamhaus.
- Tcpdump Collect network traffic.
- tcpick Trach and reassemble TCP streams from network traffic.
- tcpxtract Extract files from network traffic.
- Wireshark The network traffic analysis tool.

## **Memory Forensics**

Tools for dissecting malware in memory images or running systems.

- BlackLight Windows/MacOS forensics client supporting hiberfil, pagefile, raw memory analysis.
- DAMM Differential Analysis of Malware in Memory, built on Volatility.
- evolve Web interface for the Volatility Memory Forensics Framework.
- FindAES Find AES encryption keys in memory.
- inVtero.net High speed memory analysis framework developed in .NET supports all Windows x64, includes code integrity and write support.
- Muninn A script to automate portions of analysis using Volatility, and create a readable report.
- Rekall Memory analysis framework, forked from Volatility in 2013.
- TotalRecall Script based on Volatility for automating various malware analysis tasks.

- VolDiff Run Volatility on memory images before and after malware execution, and report changes.
- Volatility Advanced memory forensics framework.
- VolUtility Web Interface for Volatility Memory Analysis framework.
- WDBGARK WinDBG Anti-RootKit Extension.
- WinDbg Live memory inspection and kernel debugging for Windows systems.

### **Windows Artifacts**

- AChoir A live incident response script for gathering Windows artifacts.
- python-evt Python library for parsing Windows Event Logs.
- python-registry Python library for parsing registry files.
- RegRipper (GitHub) Plugin-based registry analysis tool.

## Storage and Workflow

- Aleph Open Source Malware Analysis Pipeline System.
- CRITs Collaborative Research Into Threats, a malware and threat repository.
- FAME A malware analysis framework featuring a pipeline that can be extended with custom modules, which can be chained and interact with each other to perform end-to-end analysis.
- Malwarehouse Store, tag, and search malware.
- Polichombr A malware analysis platform designed to help analysts to reverse malwares collaboratively.
- stoQ Distributed content analysis framework with extensive plugin support, from input to output, and everything in between.
- Viper A binary management and analysis framework for analysts and researchers.

### **Miscellaneous**

- al-khaser A PoC malware with good intentions that aimes to stress anti-malware systems.
- DC3-MWCP The Defense Cyber Crime Center's Malware Configuration Parser framework.
- FLARE VM A fully customizable, Windows-based, security distribution for malware analysis.
- MalSploitBase A database containing exploits used by malware.
- Malware Museum Collection of malware programs that were distributed in the 1980s and 1990s.
- Malware Organiser A simple tool to organise large malicious/benign files into a organised Structure.
- Pafish Paranoid Fish, a demonstration tool that employs several techniques to detect sandboxes and analysis
  environments in the same way as malware families do.
- REMnux Linux distribution and docker images for malware reverse engineering and analysis.
- Santoku Linux Linux distribution for mobile forensics, malware analysis, and security.

## Resources

### **Books**

Essential malware analysis reading material.

- Malware Analyst's Cookbook and DVD Tools and Techniques for Fighting Malicious Code.
- Practical Malware Analysis The Hands-On Guide to Dissecting Malicious Software.
- Practical Reverse Engineering Intermediate Reverse Engineering.
- Real Digital Forensics Computer Security and Incident Response.
- The Art of Memory Forensics Detecting Malware and Threats in Windows, Linux, and Mac Memory.

- The IDA Pro Book The Unofficial Guide to the World's Most Popular Disassembler.
- The Rootkit Arsenal The Rootkit Arsenal: Escape and Evasion in the Dark Corners of the System

### **Twitter**

Some relevant Twitter accounts.

- Adamb @Hexacorn
- Andrew Case @attrc
- Binni Shah @binitamshah
- Claudio @botherder
- Dustin Webber @mephux
- Glenn @hiddenillusion
- jekil @jekil
- Jurriaan Bremer @skier\_t
- Lenny Zeltser @lennyzeltser
- Liam Randall @hectaman
- Mark Schloesser @repmovsb
- Michael Ligh (MHL) @iMHLv2
- Monnappa @monnappa22
- Open Malware @OpenMalware
- Richard Bejtlich @taosecurity
- Volatility @volatility

### **Other**

- APT Notes A collection of papers and notes related to Advanced Persistent Threats.
- File Formats posters Nice visualization of commonly used file format (including PE & ELF).
- Honeynet Project Honeypot tools, papers, and other resources.
- Kernel Mode An active community devoted to malware analysis and kernel development.
- Malicious Software Malware blog and resources by Lenny Zeltser.
- Malware Analysis Search Custom Google search engine from Corey Harrell.
- Malware Analysis Tutorials The Malware Analysis Tutorials by Dr. Xiang Fu, a great resource for learning practical malware analysis.
- Malware Samples and Traffic This blog focuses on network traffic related to malware infections.
- Practical Malware Analysis Starter Kit This package contains most of the software referenced in the Practical Malware Analysis book.
- RPISEC Malware Analysis These are the course materials used in the Malware Analysis course at at Rensselaer Polytechnic Institute during Fall 2015.
- WindowsIR: Malware Harlan Carvey's page on Malware.
- Windows Registry specification Windows registry file format specification.
- /r/csirt\_tools Subreddit for CSIRT tools and resources, with a malware analysis flair.
- /r/Malware The malware subreddit.
- /r/ReverseEngineering Reverse engineering subreddit, not limited to just malware.
- Ember Endgame Malware BEnchmark for Research, a repository that makes it easy to (re)create a machine learning model that can be used to predict a score for a PE file based on static analysis.

## **Related Awesome Lists**

Android Security

- AppSec
- CTFs
- Forensics
- "Hacking"
- Honeypots
- Industrial Control System Security
- Incident-Response
- Infosec
- PCAP Tools
- Pentesting
- Security
- Threat Intelligence
- YARA

# **Contributing**

Pull requests and issues with suggestions are welcome! Please read the CONTRIBUTING guidelines before submitting a PR.

## **Thanks**

This list was made possible by:

• Lenny Zeltser and other contributors for developing REMnux, where I found many of the tools in this list;

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Thanks!

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