

THREATPOST

Student Loan Breach Exposes 2.5M Records

2.5 million people were affected, in a breach that could spell more trouble down the line.

Watering Hole Attacks Push ScanBox Keylogger

Researchers uncover a watering hole attack likely carried out by APT TA423, which attempts to plant the ScanBox JavaScript-based reconnaissance tool.

Tentacles of 'Oktapus' Threat Group Victimize 130 Firms

Over 130 companies tangled in sprawling phishing campaign that spoofed a multi-factor authentication system.

Ransomware Attacks are on the Rise

Lockbit is by far this summer's most prolific ransomware group, trailed by two offshoots of the Conti group.

Cybercriminals Are Selling Access to Chinese Surveillance Cameras

Tens of thousands of cameras have failed to patch a critical, 11-month-old CVE, leaving thousands of organizations exposed.

CTF TOOLS

Tools used for solving CTF challenges

Attacks

Tools used for performing various kinds of attacks

- [Bettercap](#) – Framework to perform MITM (Man in the Middle) attacks.
- [Layer 2 attacks](#) – Attack various protocols on layer 2

Crypto

Tools used for solving Crypto challenges

- [FeatherDuster](#) – An automated, modular cryptanalysis tool
- [Hash Extender](#) – A utility tool for performing hash length extension attacks
- [PkCrack](#) – A tool for Breaking PkZip-encryption
- [RSACTFTool](#) – A tool for recovering RSA private key with various attack
- [RSATool](#) – Generate private key with knowledge of p and q
- [XORTool](#) – A tool to analyze multi-byte xor cipher

Bruteforcers

Tools used for various kind of bruteforcing (passwords etc.)

- [Hashcat](#) – Password Cracker
- [John The Jumbo](#) – Community enhanced version of John the Ripper
- [John The Ripper](#) – Password Cracker
- [Nozzlr](#) – Nozzlr is a bruteforce framework, trully modular and script-friendly.
- [Ophcrack](#) – Windows password cracker based on rainbow tables.
- [Patator](#) – Patator is a multi-purpose brute-forcer, with a modular design.

Exploits

Tools used for solving Exploits challenges

- [DLLInjector](#) – Inject dlls in processes
- [libformatstr](#) – Simplify format string exploitation.
- [Metasploit](#) – Penetration testing software
- [one\\_gadget](#) – A tool to find the one gadget execve( '/bin/sh', NULL, NULL) call
  - `gem install one_gadget`
- [Pwntools](#) – CTF Framework for writing exploits
- [Qira](#) – QEMU Interactive Runtime Analyser
- [ROP Gadget](#) – Framework for ROP exploitation
- [V0lt](#) – Security CTF Toolkit

Forensics

Tools used for solving Forensics challenges

- [Aircrack-ng](#) – Crack 802.11 WEP and WPA-PSK keys
  - `apt-get install aircrack-ng`
- [Audacity](#) – Analyze sound files (mp3, m4a, whatever)
  - `apt-get install audacity`
- [Bkhive and Samdump2](#) – Dump SYSTEM and SAM files
  - `apt-get install samdump2 bkhive`
- [CFF Explorer](#) – PE Editor
- [Creddump](#) – Dump windows credentials
- [DVCS Ripper](#) – Rips web accessible (distributed) version control systems
- [Exif Tool](#) – Read, write and edit file metadata
- [Extundelete](#) – Used for recovering lost data from mountable images
- [Fibratus](#) – Tool for exploration and tracing of the Windows kernel
- [Foremost](#) – Extract particular kind of files using headers
  - `apt-get install foremost`
- [Fskc.ext4](#) – Used to fix corrupt filesystems
- [Malzilla](#) – Malware hunting tool
- [NetworkMiner](#) – Network Forensic Analysis Tool
- [PDF Streams Inflater](#) – Find and extract zlib files compressed in [PDF](#) files
- [ResourcesExtract](#) – Extract various filetypes from exes
- [Shellbags](#) – Investigate NT\_USER.dat files
- [UsbForensics](#) – Contains many tools for usb forensics
- [Volatility](#) – To investigate memory dumps

Registry Viewers

- [RegistryViewer](#) – Used to view windows registries
- [Windows Registry Viewers](#) – More registry viewers

Networking

Tools used for solving Networking challenges

- [Bro](#) – An open-source network security monitor.
- [Masscan](#) – Mass IP port scanner, TCP port scanner.
- [Monit](#) – A linux tool to check a host on the network (and other non-network activities).
- [Nipe](#) – Nipe is a script to make Tor Network your default gateway.
- [Nmap](#) – An open source utility for network discovery and security auditing.
- [Wireshark](#) – Analyze the network dumps.
  - `apt-get install wireshark`
- [Zmap](#) – An open-source network scanner.

Reversing

Tools used for solving Reversing challenges

- [Androguard](#) – Reverse engineer Android applications
- [Angr](#) – platform-agnostic binary analysis framework
- [Apk2Gold](#) – Yet another Android decompiler
- [ApkTool](#) – Android Decompiler
- [Barf](#) – Binary Analysis and Reverse engineering Framework
- [Binary Ninja](#) – Binary analysis framework
- [BinUtils](#) – Collection of binary tools
- [BinWalk](#) – Analyze, reverse engineer, and extract firmware images.
- [Boomerang](#) – Decompile x86 binaries to C
- [ctf\\_import](#) – run basic functions from stripped binaries cross [platform](#)
- [GDB](#) – The GNU project debugger
- [GEF](#) – GDB plugin
- [Hopper](#) – Reverse engineering tool (disassembler) for OSX and Linux
- [IDA Pro](#) – Most used Reversing software
- [Jadx](#) – Decompile Android files
- [Java Decompilers](#) – An online decompiler for Java and Android APKs
- [Krakatau](#) – Java decompiler and disassembler
- [PEDA](#) – GDB plugin (only python2.7)
- [Pin](#) A dynamic binary instrumentaion tool by Intel
- [Plasma](#) – An interactive disassembler for x86/ARM/MIPS which can generate indented pseudo-code with colored syntax.
- [Pwndbg](#) – A GDB plugin that provides a suite of utilities to hack around GDB easily.
- [radare2](#) – A portable reversing framework
- [Uncompile](#) – Decompile Python 2.7 binaries (.pyc)
- [WinDbg](#) – Windows debugger distributed by Microsoft
- [Xocopy](#) – Program that can copy executables with execute, but no read permission
- [Z3](#) – a theorem prover from Microsoft Research

JavaScript Deobfuscators

- [Detox](#) – A Javascript malware analysis tool
- [Revelo](#) – Analyze obfuscated Javascript code

SWF Analyzers

- [RABCDasm](#) – Collection of utilities including an ActionScript 3 assembler/disassembler.
- [SwfTools](#) – Collection of utilities to work with SWF files
- [Xxswf](#) – A Python script for analyzing Flash files.

Services

Various kind of useful services available around the internet

- [CSWSH](#) – Cross-Site WebSocket Hijacking Tester
- [Request Bin](#) – Lets you inspect http requests to a particular url

Steganography

Tools used for solving Steganography challenges

- [Convert](#) – Convert images b/w formats and apply filters
- [Exif](#) – Shows EXIF information in JPEG files
- [Exiftool](#) – Read and write meta information in files
- [Exiv2](#) – Image metadata manipulation tool
- [ImageMagick](#) – Tool for manipulating images
- [Outguess](#) – Universal steganographic tool
- [Pngtools](#) – For various analysis related to PNGs
  - `apt-get install pngtools`
- [SmartDeblur](#) – Used to deblur and fix defocused images
- [Steganabara](#) – Tool for stegano analysis written in Java
- [Stegbreak](#) – Launches brute-force dictionary attacks on JPG image
- [Steghide](#) – Hide data in various kind of images
- [Stegsolve](#) – Apply various steganography techniques to images

Web

Tools used for solving Web challenges

- [BurpSuite](#) – A graphical tool to testing website security.
- [Commix](#) – Automated All-in-One OS Command Injection and Exploitation Tool.
- [Hackbar](#) – Firefox addon for easy web exploitation
- [OWASP ZAP](#) – Intercepting proxy to replay, debug, and fuzz HTTP requests and responses
- [Postman](#) – Add on for chrome for debugging network requests
- [SQLMap](#) – Automatic SQL injection and database takeover tooli
- [W3af](#) – Web Application Attack and Audit Framework.
- [XSSer](#) – Automated XSS testor

