Curriculum Vitae

Yeivin Nadav

Contact and personal information:

- Born in Israel 33 years of age.
- Currently Located at Petach tikva, israel.
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Formal education and a selection of public work experience:

- 2015 – 2017: BSc Chemistry & Mathematics at the Hebrew University of Jerusalem.
- 2016 'Azure PCR' Software developer - Mainly QA, dealing with machine learning validation. (http://diagnostics.ai/)
- 2016 – 2019 Independent Security Researcher focuses on high end vulnerability research, fuzzing, Tooling, Exploit development, Reverse engineering and Mitigation Bypass.
- 2019 - 2020 Private consult Epica Tech LTD, Security Research (signed on NDA), i also managed a little team and was a tutor to several Other employee's.
- 2020 & forward: General Computing research and consult: focuses on Hardware, Secure Computing, DFIR, "Root of Trust" Validation (SecureBoot-Apple,UEFI & BIOS Security, Reverse engineering, Hardware Validation. I Also dealt and focused on Networking, both client side and server, vpn's protocols and so on..

Notable achievements:

- **No 17 from Microsoft's Top 100 Hackers of 2018**.
(https://blogs.technet.microsoft.com/msrc/2018/08/08/microsofts-top-100-security-researchers-black-hat-2018-edition/)
- **acknowledged by apple for disclosing security issues.**
(https://support.apple.com/en-us/HT210355)
- **acknowledged by google for disclosing security issues**
(https://bughunter.withgoogle.com/profile/fe386863-fdae-4164-bf31-b13d25d4b8e9).
- **ZDI SILVER status for 2019**.
(https://www.zerodayinitiative.com/about/benefits/)

Selection of (used to be) Public writeup:

- [CVE-2019-8658](#) - Pwning Webkit.
- [MSRC-52108](#): Windows SBX and privesc via Race Conditions in the windows kernel.
- [CVE-2019-8685](#): Safari bugs (https://github.com/ynad877/SafariTour)
- Messing around with the google fraud detection system.
- [ZDI-18-428](#): Pwning MsEdge.
- [ROP](#): Pwn the Windows Kernel with return oriented programming (https://github.com/ynad877/demos/blob/master/Win10/SmepByPassWin10x64build.16281Rs3/README.md).
- [UAC Backdoors](#): about bypassing user account control on microsoft windows.
- [kbMon](#): Writing A Ring O keylogger.

Selection of <u>public</u> vulnerability research:

(i should add that since I have found a lot more issues)

- ([CVE-2019-8669](#)) #2 Apple Safari, use of uninitialized stack variables leads to RCE.
- ([CVE-2019-8669](#)) #1 Apple Safari, Compiler logic error leads to RCE.
- ([CVE-2019-8658](#)) Apple Safari, improper binding between the compiler and the dom engine leads to UXSS.
- ([MSRC-52108](#)) Microsoft Windows, Race Condition with Win32k leads to EOP.
- ([CVE-2019-8685](#)) #1 Apple Safari, Compiler logic error leads to RCE.
- ([issue 126413103](#)) 'google.com', 'googleadservices.com' - fraud detection design issue.
- ([CVE-2018-8251](#)) Microsoft Windows, Media Foundation, UAF - RCE Vulnerability.
- ([CVE-2018-8274](#)) Microsoft Edge, UAF - RCE Vulnerability.
- ([ZDI-18-577](#)) Microsoft Edge, Type Confusion - RCE Vulnerability.
- ([CVE-2018-8123](#)) Microsoft Edge, UAF - Information Disclosure Vulnerability.
- ([CVE-2018-1021](#)) Microsoft Edge, OOB - Information Disclosure Vulnerability.
- ([CVE-2018-0763](#)) Microsoft Edge, Type Confusion - Information Disclosure Vulnerability.
- ([CVE-2017-15303](#)) CPUID CPU-Z Kernel Driver, OOB - LPE.
- ([CVE-2017-15302](#)) CPUID CPU-Z Kernel Driver, improper access permissions - LPE.

Introduction and a personal note:

I consider myself an autodidact in the field of computer science with a strong interest for Secure computing, program analysis and reverse engineering. I have worked with companies such as google microsoft etc and well-known contractors such as trend micro's ZeroDayInitiative as well as private contractors unveiling and exploiting security flaws in commonly used software. I possess a strong and vast knowledge in software security, that spans from logical errors to memory corruptions, from web technology to compilers and operating systems. I am comfortable with C/C++, Assembly (ARM, Intel x86, x64, Aarch64, desktop|mobile|embedded) and can code in many programming languages. I am comfortable with tools such as ida for closed source static analysis, or source code review for open-sources projects. I am experienced and comfortable with various debuggers and platforms. When needed I would develop my own tools in order to advance my research. During my work I have developed fuzzing tools and triaged countless memory corruption issues. I have reversed engineered closed source software from various windows applications to apple's boot-loaders. I am adjudicated about software exploitation and have developed several exploits for 0-day flaws in software. Due to the nature of my work, a big percentage of my projects are closed sourced and NDA protected. I am well knowledgeable with a vast scope of different Security bug classes and have bypassed several novel-state of the art mitigation's. In addition I got knowledge about post exploitation and product design. I am aware of different web technologies, protocols, and wifi communications. I have experience with software development as well, from high level web servers to low level Computing (on multiple different architectures and platforms).

Such as: https://pastebin.com/kA3ik1kd,
https://raw.githubusercontent.com/ynad877/ipwndfu-8015/master/src/0x8015.S

Kind Regards: Nadav