

Vishnu Dev T J

vishnudevth.github.io | vishnudevth@gmail.com

EDUCATION

Amrita Vishwa Vapeetham

BACHELOR OF TECHNOLOGY
IN COMPUTER SCIENCE

Amritapuri, India

July, 2017 – July 2021

CGPA: 8.77/10

Vrije Universiteit Amsterdam

MASTERS IN COMPUTER SECURITY

Amsterdam, Netherlands

Sep. 2022 – May 2023

LINKS

Github:// vishnudevth

Gitlab:// vishnudevth

Twitter:// @vishnudevth

ACTIVITIES

VULNERABILITY RESEARCH

- CVE-2019-14378 : Qemu [\[Link\]](#)
[\[Exploit\]](#)
- CVE-2020-7039 : Qemu [\[Link\]](#)
- CVE-2020-7454 : FreeBSD [\[Link\]](#)
- CVE-2020-7455 : FreeBSD [\[Link\]](#)
- CVE-2020-2929 : VirtualBox [\[Link\]](#)
- CVE-2021-2409 : VirtualBox [\[Link\]](#)

EXPLOIT DEVELOPMENT

- Wrote exploits for public bugs such as CVE-2017-11176
- Designed a course to introduce ARM exploitation [\[Link\]](#)
- Gave a talk on "Turning bugs into Exploits", which introduces different stages of exploit development
[\[Slides\]](#)

TECHNICAL SKILLS

SKILLS

Binary Exploitation • Reverse Engineering • System Security • Fuzzing

LANGUAGES

Rust • C • Python • assembly(x86, ARM) • Bash • elisp

TOOLS

GDB • Ghidra • IDA Pro • Radare2 • Pwntools • Frida

EXPERIENCE

Exodus Intelligence | VULNERABILITY RESEARCHER

2021 May – 2022 July | Texas, USA

Auditing software products for vulnerabilities and exploit development.

Found and exploited oday in various enterprise software.

TEAM bi0s | CTF TEAM, LEAD - BINARY EXPLOITATION

2017–2022 | Amritapuri, IN

- Reverse Engineering and Binary Analysis of Linux/OS X binaries
- Linux Kernel/Userspace exploitation in x86 and ARM architecture

InCTF | CORE ORGANIZING TEAM AND CHALLENGE AUTHOR

2018–2020 | Amritapuri, IN

InCTF is India's leading CTF with acclaimed International, National and Junior editions.

- Developed Binary Exploitation challenges, which introduce different aspects of the area to the players
- Created infrastructure in docker to host Binary Exploitation challenges

PROJECTS

SNOWFLAKE | DEBUGGING UTILITY [[LINK](#)]

Sep 2019 – Nov 2019

A rust-based application that scans for patterns in the memory of a running process. It helps exploit developers to find pointers in the process.

Personal Research | AUDITING SECURITY OF QEMU [[LINK](#)]

Jun 2019 – Aug 2019

Audited the code of QEMU and found and weaponized a heap-based buffer overflow bug in the network module. It was reported to Red Hat and CVE-2019-14378 and CVE-2020-7039 were assigned.

HYPE | TOY HYPERVISOR [[LINK](#)]

Mar 2019 – May 2019

Implemented a hypervisor that utilized the KVM API of the Linux kernel.

DYNAMIC MEMORY ALLOCATOR

Jun 2018 – Aug 2018

Allocator is written and implemented in C language and uses segregated free lists combined with the first-fit and best-fit selection algorithm.

ACHIEVEMENTS

Sep 2022 Awarded VUFP Scholarship

Scholarship is awarded for students with excellent academic record

Nov 2019 Winner of the Pwny Racing Episode 10

Live streamed head-to-head hacking competition

Oct 2019 Finalist for 5th XCTF International League as a part of Team bios

CTF Conducted by Cyber Peace Technology, China

Sep 2019 Winner of the Write-up Competition

Google CTF 2019

Mar 2019 Student Scholarship Awardee and Packet Wars Winner

Troopers 19, Heidelberg, Germany