

Mahesh Hari Sarma

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Education

- Bachelor of Technology, Computer Science and Technology** 2017 - 2021
Current CGPA : 7.43
Amrita School of Engineering, Amritapuri
- CBSE AISSCE** 2015 - 2017
91.8 %
Bhavan's Vidya Mandir, Girinagar

Technical Interests

Binary exploitation, Windows internals, Kernel Exploitation, Reverse engineering, CTF(Capture the Flag) events, Operating Systems, Low Level/Assembly Programming

Experience

- Team bi0s member - CTF Team, Amrita Vishwa Vidyapeetham, Amritapuri** 2017 - present
- Exploitation of Linux/Windows executables and kernel modules
 - Reverse Engineering and Binary Analysis of Linux/OS X/Windows Binaries
 - Team bi0s ranks among the top 25 CTF teams internationally as of December 2019 as per ctftime.org
 - Team bi0s is ranked No.1 in India for the 4th consecutive year
- InCTF and InCTFj** 2017 - present
- Conducted training for beginners in binary exploitation.
 - Organised attack & defense CTF for university students.
 - InCTF is India's leading CTF with acclaimed International, National and Junior editions. InCTF aims to promote cybersecurity among students.

Projects

- MiniHyper** Dec 2019
C / x86 / Windows
- A bare metal hypervisor that runs x86 assembly.
 - Made with **Windows Hypervisor Platform API**
 - **Code:** github.com/maheshhari/MiniHyper
- How2Kernel** Nov 2018
C / python / x86-64 / Linux
- Beginner friendly labs to get started with Linux Kernel Exploitation
 - Includes modules to practice exploitation techniques, learn mitigations and bypasses.
 - **Code:** github.com/teambi0s/How2Kernel

Languages

C, python, C++
Bash, Powershell
x86/x64, ARM

Platforms

Windows
Linux

Tools and Frameworks

Windbg, IDA Pro
gdb, radare2
pwntools

Achievements

- 2nd Place** Aug 2019
Onsite Finals, ISITDTU CTF, Da Nang, Vietnam
- Played as part of team bi0s's binary exploitation team. Secured 2nd place
- 3rd Place** April 2019
NullCon HackIM 2019
- Secured 3rd place in Nullcon's annual HackIM CTF
- Onsite Winners** 2018 & 2019
Hack.lu CTF, Luxembourg
- Secured 1st place onsite in 2018 and 2nd place onsite in 2019 playing with bi0s and won hardware worth \$1500.
- Amrita Excellence Award** 2018
- Received for performance in CTFs throughout the year.
- BlackHat Student Scholarship** Dec 2018
- Awarded student scholarship to attend Blackhat Europe