Abdul Qadir

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Research Interests

My research focuses on the intersection of computer security and low-level systems, with an emphasis on vulnerabilities arising from system and language design flaws. My work spans Linux kernel N-days, malware analysis, reverse engineering, and red teaming, where I explore exploitation techniques and mitigation strategies to enhance system security.

Education

PUCIT - University of the Punjab   December, 2020 – July, 2024
Bachelor of Science - Information Technology   Lahore, Punjab, Pakistan
- CGPA: 3.0/4.0

Professional Experience

Malware Researcher   April, 2024 – Present
Ebryx (Pvt.) Ltd.   Lahore, Punjab, Pakistan
- **Linux Kernel N-days** – Researched and exploited known vulnerabilities in the Linux kernel to analyze their impact and develop proof-of-concept (PoC) exploits.
- **Malware Analysis** – Conducted static and dynamic analysis of malware samples to understand their behaviour, persistence mechanisms, and evasion techniques.
- **Reverse Engineering** – Disassembled and analyzed closed-source software to identify security flaws and successfully bypassed user authentication.
- **Red Teaming** – Simulated advanced adversarial attacks, including AVs evasion, privilege escalation, lateral movement, and post-exploitation techniques to assess organizational security.

Teaching Assistant (Operating System)   January, 2024 – July, 2024
PUCIT - University of the Punjab   Lahore, Punjab, Pakistan
- Redesigned material and coursework for the lab of the subject
- Assisted students in the lab + other TA responsibilities

Teaching Assistant (Operating System)   August, 2023 – December 2023
PUCIT - University of the Punjab   Lahore, Punjab, Pakistan
- Designed material and coursework for the newly introduced lab component of the subject
- Designed exam papers for the lab
- Assisted students in the lab + other TA responsibilities

Teaching Assistant (Data Structures & Algorithms)   August, 2023 – December 2023
PUCIT - University of the Punjab   Lahore, Punjab, Pakistan
- Assisted students in the lab + other TA responsibilities

Teaching Assistant (Object Oriented Programming)   January, 2023 – May 2023
PUCIT - University of the Punjab   Lahore, Punjab, Pakistan
- Assisted students in the lab + other TA responsibilities

Projects

Linux Kernel Exploitation & Container Escape   C, Python, x86-64 Assembly

https://github.com/0xnull007/linux-kernel-exploitation
- Includes all exploits that I have written during learning binary & kernel exploitation.
- Supervisor: Dr. Muhammad Arif Butt
- Studied userspace stack & heap-based vulnerabilities
- Worked on reversing binaries using IDA Freeware
- Worked on sandboxing implementation in modern Operating systems
- Studied Linux kernel mitigations
- Analyzed CVE-2022-0185 (Heap-based Buffer Overflow in Linux Kernel file system) and wrote Proof of Concept

Hotel Management System   JavaScript, Node Js, MySQL

https://github.com/0xnull007/Hotel-managemant-System
- A full stack web app for a hotel with an admin panel to manage all hotel's services e.g, room booking, employee hiring etc.
- In this project, I served as a group leader and was responsible for utilizing Node js and MySQL.

Extracurriculars & Volunteering

Lead   PUCIT - University of the Punjab

Cyber@PU - Unofficial PUCIT Cyber Security Community   January, 2023 – Present
- Work with GDSC PUCIT to organize workshops and seminars

Cyber Security Lead   PUCIT - University of the Punjab

Google Developer Student Clubs   2023 – 2024
- Conducted workshops on Cyber Security and low-level systems
- E.g. Intro to CTFs, Stack-based memory corruption and Buffer Overflows.
- GitHub Repo   CyberSecWorkshop

University Lead   PUCIT - University of the Punjab

BSides Pakistan   2023 – Present
- Responsible for building a community of security enthusiasts at my University

Skills

Programming Languages: C, C++, Python, Java, x86-64 Assembly
Security: Binary Exploitation, Reverse Engineering
Tools: Ghidra, Radare Cutter, GDB, GEF, GNU/Make
OS: GNU/Linux, Windows + WSL

Courses & MOOCs

pwn101: TryHackMe
Networking Basics: Cisco + Coursera