

Abdul Rafay

Passionate about cybersecurity, dedicated to continuous learning and growth in the field.

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EDUCATION

FAST NUCES Islamabad

Bachelor of Science in Cyber Security

Islamabad, Pakistan

Aug. 2023 – Present

Bahria College Anchorage

FSC Pre Engineering

Islamabad, Pakistan

Sep. 2021 – June. 2023

PROJECTS

Vulnerability Assessment Lab (Kioptrix) | Kali Linux, Nmap, Metasploit, Nikto

Aug 2025

- Performed full penetration testing on the Kioptrix vulnerable machine, including network discovery, service enumeration, and vulnerability research.
- Exploited Apache mod_ssl 2.8.4 via the updated OpenFuck exploit to gain a remote shell; leveraged Samba 2.2.1a trans2open exploit in Metasploit for direct root access.
- Conducted post-exploitation by enumerating system users and confirming full administrative privileges, demonstrating risks of outdated and unpatched services.

M57 Data Exfiltration Investigation | FTK Imager, Outlook PST Viewer

July 2025

- Conducted a digital forensic investigation of a data breach involving PII leaked via a spoofed email.
- Analyzed disk image (.E01) and Outlook archive (.pst) to trace file origins and communication with the attacker.
- Identified metadata proving social engineering and exfiltration path; authored a 13-page forensic report.

OWASP Juice Shop (Web App Pentest Lab) | Kali Linux, Nmap, Burp Suite, SQLmap, ffuf, Wireshark

July 2025

- Performed comprehensive web application penetration testing on OWASP Juice Shop, covering authentication, input validation, access control, and sensitive data exposure.
- Exploited SQL injection in login and search functions to bypass authentication and extract sensitive data using SQLmap; successfully conducted brute-force attacks with ffuf.
- Demonstrated privilege escalation via JWT tampering and identified session fixation, XSS, and sensitive data leaks through client-side analysis and API testing.

Enterprise Network Simulation | Cisco Packet Tracer, Networking

May 2025

- Designed and implemented a multi-subnet enterprise network simulation in Cisco Packet Tracer using dynamic routing protocols (EIGRP, OSPF, RIP), route redistribution, and VLSM-based IP addressing.
- Configured and verified enterprise-grade services including DHCP, static NAT, ACLs, email, and FTP with access control, simulating real-world network operations and security policies.
- Demonstrated end-to-end connectivity, inter-network communication, and service validation through IOS command-line tools (ping, traceroute, show ip route) and troubleshooting.

SKILLS

Technical Skills

Tools: WireShark, Nmap, JohnTheRipper, hydra, LinEnum, NetCat, Burp Suite, Metasploit, Packet Tracer, FTK Imager

Programming Languages: C++, JavaScript

OS: Windows, Linux

Developer Tools: Git, VS Code

Other: MS Office

Soft Skills

Problem-Solving

Time Management

Teamwork and Collaboration

Communication

Certifications

Web Fundamentals Path – TryHackMe (July 2025)

Jr Penetration Tester Path – TryHackMe (July 2025)

Foundations of Cybersecurity – Google (July 2025)

Cyber Security 101 Path – TryHackMe (July 2025)

Pre Security Path – TryHackMe (June 2025)

Learn React – SCRIMBA (April 2025)

LANGUAGE SKILLS

URDU: Native

ENGLISH: Fluent