Kunal Walavalkar

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SKILLS

Reverse Engineering
GNU Debugger, Cutter, Ghidra, Flare VM, REMnux

Penetration Testing
Burpsuite, Nmap, Metasploit, Nessus, OpenVAS, Windows, Linux

Secure Code Review
Semgrep, Manual Secure code review, SAST, DAST.

Programming
Python, Assembly, C

Digital Forensics
Autopsy, FTK Imager, Wireshark

PROFESSIONAL EXPERIENCE

Digital Forensics Intern (Cyber Secured India)
March 2023 - July 2023
- Learnt networking fundamentals.
- Performed web application penetration tests using Burpsuite.
- Used Autopsy for data recovery, analysis of evidence and reporting.

PROJECTS

O.S.S.O.C
Proof of Concept for an open-source Security Operations Centre which has automation capabilities.
- Set up an endpoint on a Windows using Wazuh host to detect incidents and respond to them.
- Leveraged TheHive's case management to store IOC and classify incident.
- Used Cortex analyzers to query relevant threat intelligence feeds with the stored IOC.
- Created an automation workflow within Shuffle that performs all of these steps without the need of human intervention.

D|Cipher
Cryptography toolkit that allows users to encode and decode their text using an algorithm of their choice.
- Includes five different cryptography algorithms.

Hexplorer
Command-Line hexdump utility written in C.
- Allows developers and engineers to examine the raw bytes of a file or data stream.

Write-ups
Collection of CTF write-ups.
- Includes writeups for: Binary Exploitation, Reverse Engineering, Web Exploitation, Network Forensics, System Forensics

RiSkore
Calculator to calculate the risk faced by organizations
Risk is calculated based on the following factors suggested by OWASP:
- Threat agent: Skill level, Motive, Opportunity, Size of threat actor group.
- Vulnerability: Ease of discovery, Ease of exploit, Awareness, Intrusion Detection.
- Technical impact: Loss of Confidentiality, Loss of Integrity, Loss of Availability, Loss of Availability.
- Business impact: Financial Damage, Reputation Damage, Non-Compliance, Non-Compliance.

CERTIFICATIONS

- eJPTv2
- ICCA
- Fortinet NSE 1
- CNSP

EDUCATION

2020 – 2024 **Bachelors of Engineering in Computer Science with Honors in Cybersecurity** Mumbai, India
Vidyalankar Institute of Technology