JTP-2 - Curated Challenges

The next stage of JTP-2 will consist of a series of curated challenges from the domains you have familiarized yourselves with in the preceding stage. Each domain consists of 5 curated challenges. You are required to finish all 5 challenges of at least 2 domains of your choice by **7 December 2025 EoD**.

You are required to solve challenges that are marked as **hosted** on your machine **locally** before solving on the website or netcat connection provided. Further instructions are provided in the following link:

https://www.notion.so/Hosting-challenges-locally-29f4c5a0f38f807a874eee12e8a5687e

---

Binary Exploitation

- Imma Dev **(hosted)**
- Performative **(hosted)**
- Property In Manipal **(hosted)**
- IQ Test **(hosted)**
- Hungry **(hosted)**

Additional Resources:

- https://ir0nstone.gitbook.io/notes
- https://r1ru.github.io/categories/binary-exploitation-101
- https://docs.pwntools.com/en/stable/

Cryptography

- All Signs Align
- Residue Refinery
- Quixorte
- Willy's Chocolate Experience
- spAES Oddity **(hosted)**

Additional Resources:

- An Introduction to Mathematical Cryptography - Jeffrey Hoffstein, Jill Pipher, Joseph H. Silverman
- Serious Cryptography - Jean-Philippe Aumasson
- https://en.wikipedia.org/wiki/RSA_cryptosystem
- https://ctf101.org/cryptography/what-is-rsa/
- https://en.wikipedia.org/wiki/Advanced_Encryption_Standard
- https://docs.pwntools.com/en/stable/

Digital Forensics

- Hide and Seek
- Nutrela Chunks
- RAR of the Abyss
- NineTails
- Re:Draw

Additional Resources:

- https://wiki.bi0s.in/forensics/roadmap
- https://github.com/Cryptonite-MIT/dfir-gita
- https://github.com/cugu/awesome-forensics

Hardware Security

- I Like Logic More
- Red Devil
- Formwear
- Speed Thrills But Kills
- Gates of Mayhem

Additional Resources:

- https://wiki.bi0s.in/hardware/introduction
- https://www.youtube.com/watch?v=XnoHXyb7dkY

Reverse Engineering

- JoyDivision
- worthy.knight
- time
- VeridisQuo
- Dusty

Additional Resources:

- https://github.com/x86byte/RE-MA-Roadmap
- https://x86re.com/1.html
- https://research.checkpoint.com/2023/rust-binary-analysis-feature-by-feature/
- https://youtu.be/m0XAPRAOJ8A
- https://levelblue.com/blogs/security-essentials/reversing-a-binary-using-gdb-tutorial-for-reverse-engineers
- https://heather.cs.ucdavis.edu/matloff/public_html/UnixAndC/CLanguage/Debug.html

---

Web Exploitation

- Database Incursion 2.0
- Temporal Token
- Oneshot
- Sweet Haven **(hosted)**
- Why is it not called css **(hosted)**

Additional Resources:

- https://portswigger.net/web-security
- https://github.com/swisskyrepo/PayloadsAllTheThings/tree/master
- https://book.hacktricks.wiki/en/pentesting-web/web-vulnerabilities-methodology.html