

WINTER ARC – Cybersecurity Roadmap (30 Days)

Challenge Overview

The Cybersecurity track focuses on building security awareness, understanding common threats, and learning defensive as well as ethical hacking fundamentals. The goal is to develop a strong security mindset applicable across all tech domains.

30-Day Learning Roadmap

- Days 1–3: Cybersecurity overview, CIA triad, and common attack types
- Days 4–6: Networking fundamentals, Linux basics, and permissions
- Days 7–9: Networking tools and introduction to cryptography
- Days 10–12: Encryption concepts, password security, and hashing
- Days 13–15: Web security fundamentals and OWASP Top 10
- Days 16–18: SQL injection, XSS, and CSRF attacks and prevention
- Days 19–21: Network security, firewalls, IDS, and traffic analysis
- Days 22–23: Vulnerability scanning and ethical hacking workflow
- Days 24–25: Security tools overview and best practices
- Days 26–29: Mini security project, assessment, and documentation
- Day 30: Reflection and cybersecurity career roadmap

Posting & Submission Rules (IMPORTANT)

- For all TECH challenges (Cybersecurity included), daily task completion MUST be posted on LinkedIn or X (Twitter).
- Tag the official Winter Arc / Matrix handle and use the official hashtags.
- Write-ups, screenshots, lab outputs, or learning summaries are acceptable.
- Submissions without social proof will not be eligible for XP.

What to Post Daily

- Security concepts or vulnerabilities learned today
- Tools used or labs practiced
- Defensive measures or prevention techniques
- One security insight or lesson

Strategies to Win the Cybersecurity Track

- Think like both an attacker and a defender.
- Focus on understanding why vulnerabilities occur.
- Practice ethically and only on allowed systems.
- Document findings clearly and responsibly.
- Prioritize security mindset over tools.

Fair Play & Discipline

- Ethical hacking must follow legal and platform rules.
- Attacking real systems without permission is prohibited.
- AI assistance must be disclosed clearly.
- Matrix reserves the right to revoke XP, ranks, or rewards.